UNIVERSITY OF KERALA



Two Year B. Ed. Curriculum - 2015

Credit and Semester System with Grading

FACULTY OF EDUCATION & BOARD OF STUDIES IN EDUCATION (Pass)

Preface

With a view to maintaining quality in the curricular programmes offered by the University of Kerala, the B.Ed. curriculum was revised in 2013. Within months of the implementation of the revised curriculum, the National Council of Teacher Education (NCTE), decided to extend the duration of the B. Ed. programmes offered in the country from one year to two years. The NCTE Regulations 2014 and other documents provided guidelines for framing a curriculum for the two year BEd. Programme. So from February 2015 regular meetings of the members of Faculty & Board of Studies, Workshops with teacher educators as participants and meetings of subject experts commenced soon and this new curriculum evolved.

The vision statement of the curriculum reads: Empowerment of prospective teachers with value embedded and competency-based teacher education curriculum, to equip them to be professionally competent, adaptable and socially committed, to meet the challenges in a knowledge society.

With a view to realize the proposed vision and prune a prospective teacher who is fully equipped to teach a learner of the 21st century, several novel topics have been introduced and various instructional strategies have been advocated. Perhaps the decision to extend the scope of techno pedagogy which was already introduced in the earlier revision will make this venture of the University of Kerala unique in every respect.

The Faculty and Board of studies in Education (Pass) of the University of Kerala would like to place on record our sincere appreciation of the dedicated effort of the fraternity of teacher educators for this noteworthy contribution.

Dean
Faculty of Education
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INTRODUCTION

"Teachers, I believe, are the most responsible and important members of society because their professional efforts affect the fate of the earth."

--Helen Caldicott

"Teaching is the profession on which all other professions depend. Indeed, everybody who is anybody was enabled to become somebody by a teacher."

- Prof. Linda Darling - Hammond.

'The destiny of the country is being shaped in her classrooms' is not rhetoric. This focuses on the crucial role, the teaching community is expected to play in making education qualitative. It is now well-recognized that the most important single factor for the quality of education and thus for the efficiency and quality of the pupils' learning is the quality of the teachers' training. Hence considerable thought and attention have been given to teacher education by all societies throughout the world. Decades ago, developing subject matter competency and pruning teaching skills in a specific subject was the prime objective of teacher training programs. But with the advent of globalization and the increasing convergence of digital technologies, educational practices have undergone tremendous changes throughout the world to meet the challenges brought about by this new landscape.

The teacher of today is not just one who can teach a specific subject, but one who possess the skills and competencies needed for the 21st century to transact the content and teaching not just a local student but even to a student residing in the remotest corner of the world with widely varying interests and abilities. In short, teacher education has to function as a professional learning under a global canvas. This requires an education system that adopts a holistic approach to developing the whole person and his or her full potential. To ensure quality in a changing scenario and to keep at par with national and global requirements and to keep in pace with national norms, a revision of the current B.Ed. curriculum became imperative. The prime objective of this revision, as done in the earlier revision, was to mould a Curriculum to equip in prospective teachers the knowledge, skills, attitude, competence and commitment to face the challenges of the 21st century.

Guiding Principles

The University of Kerala modified its one year B. Ed. curriculum in 2013 to equip the prospective teachers to cope up with the needs of the educational community of the 21st century. A new thrust in the field of Educational Technology, introduction of the concept of Pedagogic & Techno-pedagogic Content Knowledge Analysis, Evidence-based Performance Evaluation, Development of Teacher competencies, Entrepreneurship in education, development of professionalism are a few novel aspects that was incorporated in the curriculum revision. Moreover the need to lessen the burden of an over loaded curriculum, the lack of sufficient practical orientation, reducing the gap between theory and practice, the inclusion of obsolete content and a failure to be in touch with the realities existing in schools and the requirements of the community, the quite often heard limitations were also given special care while moulding the curriculum. Quite significantly, all these had been addressed and taken into consideration in the present revision also. Special care has been taken in the present revision also to retain the best practices of the earlier curriculum and to observe fully the NCTE New Regulations 2014. In fact, this curriculum revision was also successful in bringing together the expertise of several practicing teachers at different stages

in identifying appropriate content and also in choosing popular instructional strategies to transact the curriculum.

As a guiding principle the National Council for Teacher Education itself has specified the nature and content of the Two Year B.Ed. curriculum through 'NCTE Regulations 2014' and associated publications. 'The B. Ed. Curriculum shall be designed to integrate the study of subject knowledge, human development, pedagogical knowledge and communication skills. The program shall comprise three broad curricular areas: Perspectives in Education/core areas, Curriculum and Pedagogic studies/Optional subjects, and Engagement with the field/Practical courses. Information and Communication Technology(ICT), gender, yoga education, and disability/inclusive education shall form an integral part of B. Ed curriculum' (NCTE Regulations 2014). A perusal of the reports of various commissions and committees like NCERT, directions from UGC, observations of Justice Verma Commission Report, NCFTE(2009), the recommendations and observations in this respect of several committees at the Regional, State and National levels had guided the present attempt to a large extent. The academic discussions resolved to the view that the teacher education curriculum should address a learning environment for the 21st century that enables students to collaborate, share best practices, integrate 21st century skills into classroom practices, provide access to quality learning tools, technologies and resources leading to an expansion of the learning environment to the community and an international setting, both face-to-face as well as online.

Curriculum Vision

Empowerment of prospective teachers with value embedded and competency-based teacher education curriculum, to equip them to be professionally competent, adaptable and socially committed, to meet the challenges in a knowledge society.

Vision Highlights: The curriculum gives emphasis for:

- Meeting the challenges of education in a knowledge society
- Development of Teacher Competencies
- Development of Professionalism
- Capacity building
- Moulding techno-pedagogically competent teachers
- Entrepreneurship in education
- Teacher as a Relationship Manager
- Teacher as a HRD manager
- Evidence-based performance assessment
- Development of Aesthetic qualities
- Health and fitness for future

General Objectives of the B. Ed. course

The curriculum is designed to enable the student-teacher:

- 1. To acquire various teacher competencies and development of professionalism through qualitative multi-level strategies and practices.
- 2. To identify and resolve the major social, intellectual and environmental issues / challenges faced by our pluralistic society and make use of the knowledge in nurturing/equipping the classroom learner to face those challenges.
- 3. To develop a proper value system based on the cultural, social, political and moral bases of Indian society.
- 4. To develop teacher-identity required of a professional through theoretical discourses, school / community- based experiences, and reflective practices that continually evaluate the effects of his/her choices and actions.
- 5. To understand the central concepts, tools of inquiry, and structures of individual disciplines and develop the ability to evolve meaningful learning experiences.
- 6. To imbibe knowledge and develop understanding of the various psychological, sociological and philosophical principles and practices in respect of learners of different stages/multi level and develop the ability to facilitate effective learning.
- 7. To make use of the knowledge of effective verbal, nonverbal and media-based information and communication technologies in all facets of learning to foster active inquiry, collaboration, and supportive interaction in the classroom.
- 8. To conceptualize various formal and informal evidence-based performance assessment strategies and develop an ability to evaluate contextually the multidimensional development of the learner.
- 9. To generate adequate professional capacity for performing multiple roles entrusted on him/her, enabling him/her to compete in the national and international scenario.
- 10. To develop his/her managerial capacities in human relations for promoting human resources for national development.
- 11. To internalize appropriate theoretical and practical inputs in order to render an integrated-holistic understanding about physical fitness, developing positive attitudes, values, skills and behaviour related to health and physical education and to promote health and fitness for current and future lifestyles among student teachers.
- 12. To develop the aesthetic quality of the prospective teachers through Art Education.

Regulations for the B Ed Degree Course

- 1. The B. Ed. program proposed is based on Credit and Semester System with Grading. The curriculum will be introduced in all the Colleges of Teacher Education affiliated to University of Kerala and the Kerala University Colleges of Teacher Education directly run by the University with effect from 2015-2016 admissions.
- 2. The course is of two year duration. Semester system is followed in the course. There will be four semesters, with 100 working days each, excluding admissions, University examination and preparatory holidays.
- 3. The course consists of three components Theory, CE and other related practical work. Course content is divided into three areas Perspectives in Education (core papers), Curriculum and Pedagogic courses(optional papers) and Related Practical work. B. Ed offers specialization in 13 optional subjects viz. Malayalam, English, Hindi, Sanskrit, Arabic, Tamil, Mathematics, Physical Science, Natural Science, Social Science, Geography, Commerce and Home Science.
- 4. There shall be a basic unit of 50 students, with a maximum of two units as intake for the course. There shall not be more than twenty five students per teacher for a school subject for method courses and other practical activities of the program to facilitate participatory teaching and learning.
- 5. Medium of instruction for the course is English. However, candidates may write the examination in Malayalam for all papers except language papers. The Optional papers for 'Languages' shall be written in the same language itself.
- 6. Admission to the course will be on the basis of the eligibility requirements, rules and regulations for B.Ed. admissions fixed by the Government of Kerala and approved by the University from time to time.
- 7. A candidate will be considered to have satisfactory attendance if she/he earns not less than 75% attendance for theory classes and 90% for school internship. Seven point grade system is followed in rating attendance. Attendance will be noted in letter grades in the mark list. The attendance range and respective grades are as follows: Gr: A+ (96-100) Gr: A (91-95%); Gr: B+ (86-90%), Gr: B (81-85%), Gr: C+ (76-80%) Gr: C (75 and below); (For calculating percentage of attendance decimals will be rounded to the nearest whole number)
 - Condonation of shortage of attendance shall be as per existing University rules. Candidates with shortage of attendance beyond condonable limit will not be eligible to register for the end semester University examination. In such cases the candidate has to repeat the course by taking re-admission from the University.
 - Only candidates who secure the required minimum attendance in the semester and registered for the end Semester University Examination is eligible to continue studies in the next Semester.
- 8. Readmission: Those candidates who discontinue the course can be given the provision of readmission if otherwise eligible as long as the scheme exists. If the scheme is over, candidates have to join the course as a fresh entrant, if otherwise eligible.

- 9. Transitory regulations: Whenever a Course/Scheme of instruction is changed in a particular year, three more examinations immediately following thereafter shall be conducted according to the old syllabus/regulations. Failed candidates or candidates who could not appear for these examinations have to attend classes for the new course, according to the changed Syllabus/regulations.
- 10. All the program/courses carrying credits/grades should be compulsorily attended by all the candidates for the successful completion of the course. Only such candidates are permitted to register for the end Semester University examination.
 - (i) Candidates who have completed the requirements of practical work related to theory (CE) and other practical courses of a Semester and registered for the End Semester University examination alone will be allowed entry to the next Semester.
 - (ii) The marks and respective grades of internal assessment (CE & Practical Courses) during each Semester have to be forwarded to the University by the institutions within one week after closing of the semester, both Online and manual/printed.(hard and soft copy)
 - (iii) School Induction Program (school initiatory experience) is for a period of one week during Semester II. School Internship will be for a period of 20 weeks divided into two phases. Phase I will be for a period of 10 weeks during Semester III and Phase II arranged for another 10 weeks during Semester IV.
 - (iv) Assessment of School induction Program of Semester II will be done (jointly by the General and Optional teachers) by the Colleges of Teacher Education internally. There will be no external evaluation. School internship Phase I of semester III will be evaluated internally by the Colleges of Teacher Education and practice-teaching schools, as per the guidelines in the curriculum. School internship Phase II of Semester IV will be evaluated both internally(jointly by the colleges & practice-teaching schools) and externally(by the external examination team appointed by the University).
 - (v) Practical work related to Perspectives in Education (Core) and Curriculum and Pedagogic Courses(Optional papers) CE & other Practical Courses/Engagement with the field (college, school and community based) have to be compulsorily attended by all the student-teachers to be eligible for appearing for the Semester End University Examination. All the Practicals during Semester I, II & III will be assessed by teacher educators internally. Records/reports/ products related to CE and Practical courses have to be prepared and maintained and have to be made available for assessment, if demanded. Marks and respective grades of assessment have to be forwarded to the University within one week after the closing of the semester (Both hard and soft copy)
 - (vi) The total number of lessons required to be completed during Phase I is 40 and Phase II, 30. Practical work related to School Internship Phase II and Minor project /Action Research/Case Study have to be compulsorily completed by all the student-teachers to be eligible for appearing for the External Practical Examinations of Semester IV. Candidates who have completed practical courses and eligible for presentation to the Practical Examination of the External Practical Board, alone will be permitted to

register for the Online Theory Examination of Semester IV. Physical attendance of the candidate during the practical examination and viva-voce is mandatory.

- 11. Candidates who have completed the requirements of a semester (attendance, CE and other practical courses) alone will be eligible for appearing for the End semester University examination and promotion to the next semester. Those who have satisfactorily completed the course requirements and uploaded the internal marks to the university by the college concerned, and fail to appear for the university examination alone can appear in supplementary examinations. Those who fail to comply with the course requirements have to redo the semester and get promotion to the next semester.
- 12. For a pass in the examination, a candidate should secure a minimum of 50% marks (C+Grade) in aggregate with a minimum of 40% (C Grade) in each Theory Paper in the External Examination of the University, 40% for theory and CE put together and 50% (C+Grade) for Practice Teaching/School internship in teaching. There is no separate minimum for CE & other practical courses in all the semesters. Marks/grades for CE and Practical courses have to be given to various categories on the basis of proper guidelines and criteria. Detail records have to be maintained by institutions in each case.
- 13. All the theory papers of all semesters will be assessed through external examination of the University. CE and other practical courses of Semester I, II and III will be assessed internally only. CE and other practical courses of Semester IV will be assessed both internally and externally.
- 14. In case a candidate gets minimum for all papers but fails to get semester minimum, she/he has to re-appear the papers with less than 50% of marks to secure a pass in that semester.
- 15. If a passed candidate wants to improve his/her grade he/she can appear for the theory examination and improve the grades within two years of completion of the course, if the same scheme exists.
- 16. Course betterment is limited to theory alone. For course betterment in theory, candidates have to appear for the concerned examinations with the regular schedule. Higher marks of the two ie., marks before betterment and after betterment whichever is higher will be considered.
- 17. There will be no Supplementary Examination. Failed candidates have to write/appear for the paper/papers for which they have failed with the regular candidates. On securing the separate minimum in those paper/papers the candidate will be declared to have passed the examination provided he/she secures an aggregate of 50% (C+ Grade). Three chances will be given for reappearance as long as the same scheme exists.
- 18. Even if a candidate fails to secure the required minimum marks/grades for a pass in Theory during a semester but has completed the Practical Courses/Engagement with field he/she shall be allowed entry to the next Semester.
- 19. If under any circumstances, a candidate fails in Teaching Practice/School Internship, he/she shall be permitted to repeat the same after the completion of the course with special permission from the University as long as the same scheme exists. It will be considered as a Second appearance in all respects. There is no provision for reassessment of Internship in teaching.
- **20.** Re-admission and college transfers are as per University rules.

Definition of Terms

- Semester system: The semester system is a proactive system with program designed to be completed gradually within a period covering multiples of half an academic year. It is a pattern of the course in which the whole program is divided into different parts and each part is intended for a specified period of time, called semesters. The present B.Ed. program involves four semesters.
- Credit: Credit refers to the unit of value awarded for the successful completion of specific courses, intended to indicate the quality of the course instruction in relation to the total requirements for a course. Credit is a unit of input measured in terms of 'Study Hours'. It represents the number of 'Study Hours' in a particular period of time devoted to various aspects of the teaching-learning process such as attending classes, engaging in assignments, projects, community activities, gathering information from library and internet sources and other Practical Courses required by the course. Here, one credit for the B.Ed. program is considered equivalent to 30 Study Hours and one credit carries 25 marks (I credit-30 hours/25 marks). Students can earn and accumulate credits on the basis of the number and types of tasks they have successfully completed. All the tasks that carry credit are compulsory.
- Grading: Grading is the process of applying standardized measurements of varying levels of comprehension within a subject area. Assigning letters for indicating the performance of students in each paper/area by giving due weightage according to the scale adopted. Seven Point Scale is suggested for the grading purpose and Indirect Grading shall be used. In Indirect Grading the students are assessed using conventional marking mode and the marks awarded are converted into letter grades as per the weightage assigned. Marks will be converted to respective Grades for whole programmes and courses only and not to each and every component. (e.g. EDU 0I total marks earned for Theory & CE is converted to Grade)
- Grade Point Average (GPA): The means of grades obtained on a number of subjects/tasks for a specified period is the GPA. GPA is calculated by dividing the sum of the weighted grade points obtained by a student in various subjects in a semester by the total number of credits taken by him/her in the semester. The value shall be rounded off to two decimal places.
- Cumulative Grade Point Average (CGPA): CGPA is the value obtained by dividing the total Credits for a Semester X Sum of GPA for all the semesters by the total credits for the entire course. The value shall be rounded off to two decimal places. CGPA will be converted to letter grades for final results.
- **Perspectives in Education (core papers):** Indicates the subjects of study under theoretical discourses which are compulsory for all the students undergoing the course (EDU 01 to 03, 06 to 08, 11 to 12, and 14)
- **Curriculum and Pedagogic Courses (optional subjects)**: Indicates the subject which the student-teacher specializes in the course (EDU 04,05,09, 10, 13 & 15).
- **CE**: Continuous Evaluation indicates the process of assessing the practical work related to Perspectives in Education/core papers and Curriculum and Pedagogic courses/Optional papers prescribed in the curriculum continuously to award marks/grades on the basis of an

- assessment criteria. The total marks of CE for each paper should be the sum of marks for various tasks specified in the paper.
- Engagement with the field/Practical Courses: Practical courses in the curriculum indicates the practical work expected to be done by the student-teacher related to subjects of study indicated as EDU-101, 102, 103; 201, 202, 203; 301, 302, 303 & 401 as a compulsory requirement.

Course Outline

Samastan	Wayling days	Working		Marks		Total
Semester	Working days	Hours/Credits	Theory	Practical	Total	Marks
I	100	600/20	250	250	500	
II	100	600/20	250	250	500	
III	100	600/20	150	350	500	2000
IV	100	600/20	100	400	500	

Structure of B.Ed. Course

A. Theoretical Discourses-Subject codes		B. Practical Courses			
Semester	Perspectives in Education	Curriculum and Pedagogic Courses	Nature of Practical - Subject code		
Semester I	EDU 01 EDU 02 EDU 03	EDU 04 EDU 05	College Based. School Based. Community Based	EDU-101(101.1–101.3) EDU-102 (-) EDU-103 (103.1)	
Semester II	EDU 06 EDU 07 EDU 08	EDU 09 EDU 10	College Based. School Based Community Based	EDU-201(201.1-201.3) EDU-202 (202.1) EDU-203 (-)	
Semester III	EDU 11 EDU 12	EDU 13	College Based School Based Community Based	EDU-301(303.1-301.2) EDU-302(302.1) EDU-303(303.1)	
Semester IV	EDU-14	EDU-15	College, School & Community Based	EDU-401(401.1-401.3)	

Two year B. Ed Curriculum Framework.

Semester	- I (June - October) one credit = 3	0 hours: 1 c	redit carri	es 25 mai	rks.
Theory -	Perspectives in Education (core paper	rs)			
Subject code	Subject Title	External	Internal	Total	Credits (1credit = 30 hours)
EDU-01	Knowledge and Curriculum: Philosophical and sociological Perspectives.	50	25	75	3
EDU-02	Developmental Perspectives of the Learner.	50	25	75	3
EDU-03	Technology and Communication in Education.	50	25	75	3
	Curriculum and Pedagogic Courses.	(optional su	ıbjects)		I
EDU-04 (1-13)	Theoretical Base ofEducation.	50	25	75	3
EDU-05 (1-13)	Pedagogic Content Knowledge Analysis :	50	25	75	3
	ent with the Field/Practical Courses:	EDU – 101	& 103.		
	01: College Based	1			1
EDU 101.1	Discussion, Demonstration & Criticism lesson (5 marks each)		15	25	1
	Micro-teaching – 2 skills		10		
101.2	Yoga, Health & Physical Education		50	50	2
101.3	Art & Aesthetics Education		25	25	1
ED U – 10	3: community Based				
102.1	Vocational/Work Education		15		
103.1	Field Trip – optional-wise		10	25	1
	Total Marks & Credits	250	250	500	20
	Total Hours & Credits	20 credits	X 30 hrs=6	600 hrs	•
			X 6 hrs = 60		

Semes	ter – II (November – March) – one cr	edit = 30 ho	ours : one c	redit car	ries 25 marks.
	Theory – Perspectives in	Education	.(core pape	ers)	
Subject Code	Subject Title	External	Internal	Total	Credits(1credit = 30hours)
EDU-06	Education in Indian Society.	50	25	75	3
EDU-07	Perspectives of Learning and Teaching.	50	25	75	3
EDU-08	Assessment in Education .	50	25	75	3
EDU-09	Theory- Curriculum and Pedag Curriculum and Resources in	ogic Course	es.(optiona	l subject	s) 3
(1-13) EDU- 10(1-13)	Digital Era: Education Techno-Pedagogic Content Knowledge Analysis:	50	25	75	3
	Engagement with the Field/Practic			01, 202 &	203.
201.1	Discussion, Demonstration & Criticism Lessons(5 marks each)		15	25	1
	Field Trip / Education Tour		10		
201.2	Health & Physical Education		50	50	2
201.3	Art Education & Theatre Practice		25	25	1
	EDU – 202:	School Bas	ed		
	School Induction Program		15		
202.1	Observation of model lessons (2 nos.) and reporting during school induction		10	25	1
	Total Marks & Credits	250	250	500	20
	Total Hours & Credits	2	20 credits X	X 30 hrs=	600 hrs
	Total Working Hours	100 days X 6 hrs = 600 hrs.			

Semester – III (June – October) : one credit = 30 hours. One credit carries 25 marks.					
Semester	- 111 (June - October) : one credit = 3	o nours. O	ne credit ca	irries 25 i	narks.
Theory –	Perspectives in Education(core paper	s)			
Subject code	Subject Title	External	Internal	Total	(1credit=30ho urs) Credits
EDU-11	**Developmental Perspectives in Education.	50	25	75	3
EDU-12	Learner in the Educational Perspective.	50	25	75	3
	ducational Management, Environmental ducation.	education,	Health edu	cation & I	Entrepreneurship
Theory- (Curriculum and Pedagogic Courses(op	tional sub	jects)		
EDU-13 (1-13)	Emerging Trends and Practices in Education.	50	25	75	3
Engagem	ent with the Field/Practical Courses :	EDU – 301	, 302 & 303	3.	
EDU – 30	01 : College Based				
301.1	Art & Aesthetics Education.		25	25	1
301.2	Health and Physical Education		25	25	1
EDU – 3	02 : School Based				
302.1	School Internship-Phase I (10 week) 1. Optionals (curriculum & pedagogic courses)		150	175	7
	2. Health & Physical Education		25		
EDU – 30	3 : Community Based		<u> </u>	<u> </u>	.
303.1	Community Living Camp (Program of Understanding the self)		50	50	2
	Total Marks & Credits	150	350	500	20
	Total Hours & Credits	20 c	redits X 30	hrs=600 h	nrs

100 days X 6 hrs = 600 hrs.

Total Working Hours

Semester – IV (November – March) : one credit = 30 hours. One credit carries 25 marks.					
Theory	- Perspectives in Education.(core papers)			
EDU-14	Advanced Studies : Perspectives in Education.	50	25	75	3
	Theory – Curriculum and Pedago	ogic courses	(optional	subjects)	
EDU-15 (1-13)	Advanced Studies : Curriculum and Pedagogic Courses inEducation	50	25	75	3
Practica	ll Courses/Engagement with the Field – F	EDU – 401.			
EDU 401.1	Minor Project / Action Research / Case Study – (30-50 pages) Viva-voce (external only)		10	50	2
401.2	School Internship Phase II (10 weeks) 1. Optional (cu & pedagogic courses) 2. Yoga, Health & Physical Education.		200 25	225	9
401.3	Achievement test & Analysis		20		
	Diagnostic Test& Remediation		15		3
	Reading and Reflecting on a text.		25	75	3
	Reflective Journal		15		
	Total	100	400	500	20
	Total Hours & Credits	20 credits X 30 hrs=600 hrs			
	Total Working Hours	100 days X 6 hrs = 600 hrs.			

Credit details of the Course

C .		n.	Cre	dits	Total Credits	
Semester	Subject Code	Papers	Theory	CE	1 credit=30hrs	
	EDU 01	Core paper I	2 credits	1 credit	3 credits	
	EDU 02	Core paper II	2 credits	1 credit	3 credits	
	EDU 03	Core paper III	2 credits	1 credit	3 credits	
	EDU 04.1-04.13	Optional I	2 credits	1 credit	3 credits	
Sem. I	EDU 05.1-05.13	Optional II	2 credits	1 credit	3 credits	
	Practical Courses	College Based (E School Based (E Community Base	DU 102)	4 credits 0 credits 1 credits	5 credits	
	Total		10 credits	10 credits	20 credits	
	EDU 06	Core paper V	2 credits	1 credit	3 credits	
	EDU 07	Core paper VI	2 credits	1 credit	3 credits	
	EDU 08	Core paper VII	2credits	1 credit	3 credits	
	EDU 09.1-09.13	Optional III	2 credits	1 credit	3 credits	
Sem. II	EDU10.1-10.13	Optional IV	2 credits	1 credit	3 credits	
	Practical Courses	College Based (EDU201) School Based (EDU202) Community Based (EDU203)		4 credits 1 credit 0 credit	5 credits	
	Total		10 credits	10 credits	20 credits	
	EDU 11	Core Paper VIII	2 credits	1 credit	3 credits	
	EDU 12	Core Paper IX	2 credits	1 credit	3 credits	
Sem. III	EDU 13.1-13.13	Optional V	2 credits	1 credit	3 credits	
	Practical Courses	College Based(El School Based (El Community Base	OU 302)	2 credits 7 credits 2 credits	11 credits	
	Total		6 credits	14 credits	20 credits	
	EDU 14	Core Paper X	2 credits	1 credit	3 credits	
Sem. IV	EDU-15	Optional VI	2 credits	1 credit	3 credits	
	Practical Courses	College, School & Based (EDU 401)		14 credits	14 credits	
	Total		4 credits	16 credits	20 credits	
	Grand Total					

Details of Theory Courses -- Semester I

Code	Title	Instructional hours/credits	Related Practical work-CE- Hours/credits
EDU 01	Knowledge and Curriculum: Philosophical and Sociological Perspectives.	60 hrs / 2 credits	30 hrs / 1 credit
EDU 02	Developmental Perspectives of the Learner.	60 hrs / 2 credits	30 hrs / 1 credit
EDU 03	Technology and Communication in Education.	60 hrs / 2 credits	30 hrs / 1 credit
EDU 04.1	Theoretical Base of Malayalam Education	60 hrs / 2 credits	30 hrs / 1 credit
EDU 04.2	Theoretical Base of English Education	60 hrs / 2 credits	30 hrs / 1 credit
EDU 04.3	Theoretical Base of Hindi Education	60 hrs / 2 credits	30 hrs / 1 credit
EDU 04.4	Theoretical Base of Sanskrit Education	60 hrs / 2 credits	30 hrs / 1 credit
EDU 04.5	Theoretical Base of Arabic Education	60 hrs / 2 credits	30 hrs / 1 credit
EDU 04.6	Theoretical Base of Tamil Education	60 hrs / 2 credits	30 hrs / 1 credit
EDU 04.7	Theoretical Base of Mathematics Education	60 hrs / 2 credits	30 hrs / 1 credit
EDU 04.8	Theoretical Base of Physical Science Education	60 hrs / 2 credits	30 hrs / 1 credit
EDU 04.9	Theoretical Base of Natural Science Education	60 hrs / 2 credits	30 hrs / 1 credit
EDU04.10	Theoretical Base of Social Science Education	60 hrs / 2 credits	30 hrs / 1 credit
EDU 04.11	Theoretical Base of Geography Education	60 hrs / 2 credits	30 hrs / 1 credit
EDU 04.12 EDU 04.13	Theoretical Base of Commerce Education Theoretical Base of Home Science Education	60 hrs / 2 credits 60 hrs / 2 credits	30 hrs / 1 credit 30 hrs / 1 credit
EDU 05.1	Pedagogic Content Knowledge Analysis- Malayalam	60 hrs / 2 credits	30 hrs / 1 credit
EDU 05.2	Pedagogic Content Knowledge Analysis- English	60 hrs / 2 credits	30 hrs / 1 credit
EDU 05.3	Pedagogic Content Knowledge Analysis- Hindi	60 hrs / 2 credits	30 hrs / 1 credit
EDU 05.4	Pedagogic Content Knowledge Analysis- Sanskrit	60 hrs / 2 credits	30 hrs / 1 credit

EDU 05.5	Pedagogic Content Knowledge Analysis- Arabic	60 hrs / 2 credits	30 hrs / 1 credit
EDU 05.6	Pedagogic Content Knowledge Analysis- Tamil	60 hrs / 2 credits	30 hrs / 1 credit
EDU 05.7	Pedagogic Content Knowledge Analysis- Mathematics	60 hrs / 2 credits	30 hrs / 1 credit
EDU 05.8	Pedagogic Content Knowledge Analysis- Physical Science	60 hrs / 2 credits	30 hrs / 1 credit
EDU 05.9	Pedagogic Content Knowledge Analysis- Natural Science	60 hrs / 2 credits	30 hrs / 1 credit
EDU 05.10	Pedagogic Content Knowledge Analysis- Social Science	60 hrs / 2 credits	30 hrs / 1 credit
EDU 05.11	Pedagogic Content Knowledge Analysis- Geography	60 hrs / 2 credits	30 hrs / 1 credit
EDU 05.12 EDU 05.13	Pedagogic Content Knowledge Analysis- Commerce Pedagogic Content Knowledge Analysis- Home Science	60 hrs / 2 credits 60 hrs/2 credits	30 hrs / 1 credit 30 hrs / 1 credit

Details of Theory Courses - Semester II

Code	Title	Instructional hours/credits	Related Practical work Hours/credits
EDU 06	Education in Indian Society.	60 hrs / 2 credits	20 hrs / 1 credits
EDU 07	Perspectives of Learning and Teaching.	60 hrs / 2 credits	20 hrs / 1 credits
EDU 08	Assessment in Education.	60 hrs / 2 credits	20 hrs / 1 credits
EDU 09.1	Curriculum & Resources in Digital Era : Malayalam Education	60 hrs / 2 credits	20 hrs / 1 credit
EDU 09.2	Curriculum & Resources in Digital Era : English Education	60 hrs / 2 credits	20 hrs / 1 credit
EDU 09.3	Curriculum & Resources in Digital Era : Hindi Education	60 hrs / 2 credits	20 hrs / 1 credit
EDU 09.4	Curriculum & Resources in Digital Era : Sanskrit Education	60 hrs / 2 credits	20 hrs / 1 credit
EDU 09.5	Curriculum & Resources in Digital Era : Arabic Education	60 hrs / 2 credits	20 hrs / 1 credit
EDU 09.6	Curriculum & Resources in Digital Era : Tamil Education	60 hrs / 2 credits	30 hrs / 1 credit
EDU 09.7	Curriculum & Resources in Digital Era : Mathematics Education	60 hrs / 2 credits	30 hrs / 1 credit
EDU 09.8	Curriculum & Resources in Digital Era : Physical Science Education	60 hrs / 2 credits	30 hrs / 1 credit
EDU 09.9	Curriculum & Resources in Digital Era : Natural Science Education	60 hrs / 2 credits	30 hrs / 1 credit
EDU 09.10	Curriculum & Resources in Digital Era : Social Science Education	60 hrs / 2 credits	30 hrs / 1 credit
EDU 09.11	Curriculum & Resources in Digital Era : Geography Education	60 hrs / 2 credits	30 hrs / 1 credit
EDU 09.12	Curriculum & Resources in Digital Era : Commerce Education	60 hrs / 2 credits	30 hrs / 1 credit
EDU 09.13	Curriculum & Resources in digital Era : Home Science Education	60 hrs/ 2 credits	30 hrs / 1 credit
EDU10.1	Techno-Pedagogic Content Knowledge Analysis-Malayalam	60 hrs / 2 credits	30 hrs / 1 credit
EDU10.2	Techno-Pedagogic Content Knowledge Analysis-English	60 hrs / 2 credits	30 hrs / 1 credit

EDU10.3	Techno-Pedagogic Content Knowledge Analysis-Hindi	60 hrs / 2 credits	30 hrs / 1 credit
EDU10.4	Techno-Pedagogic Content Knowledge Analysis-Sanskrit	60 hrs / 2 credits	30 hrs / 1 credit
EDU10.5	Techno-Pedagogic Content Knowledge Analysis-Arabic	60 hrs / 2 credits	30 hrs / 1 credit
EDU10.6	Techno-Pedagogic Content Knowledge Analysis-Tamil	60 hrs / 2 credits	30 hrs / 1 credit
EDU10.7	Techno-Pedagogic Content Knowledge Analysis-Mathematics	60 hrs / 2 credits	30 hrs / 1 credit
EDU10.8	Techno-Pedagogic Content Knowledge Analysis-Physical Science	60 hrs / 2 credits	30 hrs / 1 credit
EDU10.9	Techno-Pedagogic Content Knowledge Analysis-Natural Science	60 hrs / 2 credits	30 hrs / 1 credit
EDU10.10	Techno-Pedagogic Content Knowledge Analysis-Social Science	60 hrs / 2 credits	30 hrs / 1 credit
EDU10.11	Techno-Pedagogic Content Knowledge Analysis-Geography	60 hrs / 2 credits	30 hrs / 1 credit
EDU10.12	Techno-Pedagogic Content Knowledge Analysis-Commerce	60 hrs / 2 credits	30 hrs / 1 credit
EDU 10.13	Techno-Pedagogic Content Knowledge Analysis-Home Science.	60 hrs / 2 credits	30 hrs / 1 credit.

Details of Theory Courses - Semester III

Code	Title	Instructional hours/credits	Related Practical work Hours/credits
EDU 11	Developmental Perspectives in Education.	60 hrs / 2 credits	30 hrs / 1 credit
EDU 12	Learner in the Educational Perspective	60 hrs / 2 credits	30 hrs / 1 credit
EDU 13.1	Emerging Trends & Practices in Malayalam Education.	60 hrs / 2 credits	30 hrs / 1 credit
EDU 13.2	Emerging Trends & Practices in English .Education.	60 hrs / 2 credits	30 hrs / 1 credit
EDU 13.3	Emerging Trends & Practices in Hindi Education.	60 hrs / 2 credits	30 hrs / 1 credit
EDU 13.4	Emerging Trends & Practices in Sanskrit Education.	60 hrs / 2 credits	30 hrs / 1 credit
EDU 13.5	Emerging Trends & Practices in Arabic Education.	60 hrs / 2 credits	30 hrs / 1 credit

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EDU 13.6	Emerging Trends & Practices in Tamil Education.	60 hrs / 2 credits	30 hrs / 1 credit
EDU 13.7	Emerging Trends & Practices in Mathematics Education.	60 hrs / 2 credits	30 hrs / 1 credit
EDU 13.8	Emerging Trends & Practices in Physical Science Education.	60 hrs / 2 credits	30 hrs / 1 credit
EDU 13.9	Emerging Trends & Practices in Natural science Education.	60 hrs / 2 credits	30 hrs / 1 credit
EDU 13.10	Emerging Trends & Practices in Social Science Education.	60 hrs / 2 credits	30 hrs / 1 credit
EDU 13.11	Emerging Trends & Practices in Geography Education.	60 hrs / 2 credits	30 hrs / 1 credit
EDU 13.12	Emerging Trends & Practices in Commerce Education.	60 hrs / 2 credits	30 hrs / 1 credit
EDU 13.13	Emerging Trends & Practices in Home science Education	60 hrs / 2 credits	30 hrs / 1 credit

Details of Theory Courses - Semester IV

Code	Title	Instructional hours/credits	Related Practical work Hours/credits
EDU 14	Advanced Studies : Perspectives in Education. (Guided Self-Study)	60 hrs /2 credits	30 hrs / 1 credit
EDU-15	Advanced Studies: Curriculum and Pedagogic CoursesEducation (guided self-study)	60 hrs/2 credits	30 hrs / 1 credit

- EDU 14 : Advanced Studies : Perspectives in Education.
- EDU 15 : Advanced Studies : Curriculum and Pedagogic Courses -......Education.

This area has been included in the curriculum to achieve advanced learning in the areas psychology, technology and methodology and its integration with practice to **facilitate capacity building** among student-teachers. The knowledge and competencies acquired by the trainee during the entire course remains as the base of this course. The mode of learning proposed is guided self-study. The study has to be initiated/progressed by the student-teacher mainly through self effort by reference study, collecting study materials from web site, peer assistance, scaffolding, guided study etc. The achievement of the student-teacher in terms of capacity building will be assessed through the Online examination of the University scheduled for the last month of Semester IV.

Details of Practical Work Associated with Theory: CE (25 marks/1 credit)

(a) Perspectives in Education (Core papers)

Sem.	Sub. Code	Nature of practicum	Marks	credits	Assessment
	EDU-01	 Seminar/presentation-1 (5 marks) Practicum-1 (5 marks) Test-mid semester-1 (5 marks) Capacity Building Program (skill development & leadership building) - 10 marks 	25	One	Internal
I	EDU-02	 Seminar/presentation 1 (5 marks) Practical 1 (5 marks) Test -mid semester (5 marks) Capacity building Activity 1 -10 marks 	25	One	Internal
EDU-03	EDU-03	 Seminar/presentation-1 (5 marks) Test-mid semester exam (5 marks) Skill development-workshop practice (15 marks) (Practice -5 marks, Blog creation and posting of materials -10 marks) 	25	One	Internal
	EDU-06	 Seminar/presetation-1 (5 marks) Practicum-1 (5 marks) Test-mid semester exam (5 marks) Capacity Building Program(skill development & leadership building) (10 marks) 	25	One	Internal
п	EDU-07	 Practicum- 1 (5 marks) Practical 1 (5 marks) Test-mid semester exam 1 (5 marks) Capacity building Activity 1 (10 mark) 	25	One	Internal
	EDU-08	 Seminar/presentation-1 (5 marks) Test-mid semester exam (5 marks) Practicum- no.1 (5 marks) Practicum-no.2 (10marks) Development of any one tool. 	25	One	Internal
Ш	EDU-11	 Test -mid semester exam. (5 marks) Practicum-1 (5 marks) Seminar/presentation- (5 marks) Field study-1 (10 marks) 	25	One	Internal

	EDU-12	 School based activity -1 (5 marks) Practical-1 (5 marks) Test-mid semester exam (5 marks) Capacity Building Program (skill development & leadership building)-(10 marks) 	25	One	Internal
IV	EDU-14	MCQ Test battery	25	25	Internal & External

(b) Curriculum and Pedagogic Courses (Optional Papers)

(i) Subjects.

Sem.	Sub. Code	Nature of Practicum	Marks	credits	Assessment
	EDU-04	 Practicum-1 (5 marks) Seminar/presentation-1 (5 marks) Reading & reflecting on texts (10mks) Mid semester exam – (5 marks) 	25	One	
I EDU-05		 Observation of model video lessons & reporting(2nos.) (teacher monitored) – (5 marks) Practicals-1 (5 marks) Test-mid semester exam (5 marks) Subj. Assn activity- (5 marks) Practicum – 1 (5 marks) 	25	One	Internal
EDU-09 II EDU-10	 Mid semester exam (5 marks). Reading and Reflecting on texts (10marks) Seminar/presentation-1 (5 marks) Practicum – 1 (5 marks) 	25	One	Internal	
	EDU-10	 Practical -1 (5 marks) Test-mid semester (5 marks) Subject Assn activity-(5 marks) Group Practicum (video scripting, recording & uploading)- (10 marks.) 			Internal
III	EDU-13	 Innovative work-1 (10 marks) Reading and Reflecting on text (5marks) Peer evaluation- (5 marks.) mid semester exam (5 marks) 		One	Internal
IV	EDU-15	MCQ Test battery (Practical)	25	One	Internal & External

(ii) Languages.

Sem.	Sub. Code	Nature of Practicum	Marks	Credits	Assessment
	EDU-04	 Pracicum-1 (5 marks) Seminar/Presentation-1 (5 marks) Reading and Reflecting on Texts-1 (10 marks) Mid semester exam- 5 marks 	25	One	
I	EDU-05	 Observation of model video lessons & reporting (2 nos.) - teacher monitored-(5 marks.) Practicum-2 (5 marks each) Test-mid semester – (5 marks) Subject Assn activity- (5 marks). 	25	One	Internal
	EDU-09	 Practicum -1 (5 marks) Reading and Reflecting on Text- 10 marks. Seminar/presentation- (5 marks) Mid semester exam – (5 marks) 	25	One	Internal
П	EDU-10	1. Practicum-1 (5 marks) 2. Test-mid semester exam – (5 marks)	25	One	
III	EDU-13	 Innovative work-1 (10 marks) Reading and Reflecting on Text- (5 marks). Peer evaluation- (5 marks) Mid semester exam – (5 marks) 	25	One	Internal
IV	EDU-15	MCQ Test battery (Practical)	25	One	Internal& External.

- Practicum: systematic study of problems from subject areas through collection of information from different sources –one Practicum in each subject Records/short reports not exceeding 5 to 6 pages have to be maintained.
- Capacity Building Program: The aim of the activity is to equip student teachers to face the challenges of classroom situation in a multicultural society and also uplift the quality of teacher education in par with the global standards. Any activity that can enrich the student teacher by considering the individual potentialities of learners can be undertaken.

- Group Practicum-video script: Developing, enacting, recording and uploading one video script based on a single theme. The task can be undertaken in groups with 3 to 5 members.
- Seminar/presentation: The student-teacher has to take up either a seminar or any presentation to show his active involvement in the classroom transaction. The participation/involvement of the student in classroom activities have to be assessed by the teacher using criteria self-developed.
- Subject association activity: Participation/contribution and reporting of the student-teacher in the subject association activities organized weekly by optional groups.
- Observation of video lessons: each student-teacher has to observe at least two video recorded lessons of experts and prepare observation notes. Format of observation has to be supplied by the teacher educator.
- Reading and reflecting on text: The aim of this course is to enable student-teachers to enhance their capacities as readers and writers by becoming participants in the process of learning and to respond to a variety of texts in different ways and also learn to think together. The aim is also to engage with the readings interactively-individually and in small groups. Each student-teacher is expected to read a variety of texts, including empirical, conceptual and historical work, policy documents, studies about schools, teaching, learning etc. and to prepare reflective notes.
- MCQ Test Battery: The student-teacher has to prepare Multiple Choice Question test batteries with 40 items each covering the syllabi of EDU 14 & EDU 15 as the requirement of CE (Practical). Out of 40 items of EDU 14, 10 items each have to be prepared from the topics under perspectives of Education of Semester I, II, III and IV. Similarly a MCQ test battery for EDU -15 will have 40 MCQ items, 10 each covering the syllabi of Curriculum and Pedagogic Courses of Semester I, II, III, and IV respectively. It is better to start the preparation of MCQ test battery from Semester I itself and have to be completed and consolidated by semester IV. MCQ test batteries have to be presented before the External Evaluation Board along with the other requirements of Semester IV.
- Mid Semester Examination: A college level examination for all papers of one hour duration and 25 marks with MCQ, very short answer and short answer questions. The marks earned in the examination has to be converted to 5.

Details of Practical Courses : (Related practical work)

(a) College based (EDU-101,201,301)

Code EDU	Title	Task to be carried out	Marks/ Credits	Assessment
	Discussion Lessons	5 nos.	5	
	Demonstration Lessons	3 nos.	5	
101.1	Criticism Lessons	5 nos.	5	Internal
	Micro-teaching	2 skills/trainee & recording	10/1 credit	
101.2	Yoga, Health & Physical Education	Refer Cu Sem. I	50/2 credits	Internal
101.3	Art & Aesthetics Education.	Refer Cu Sem. I	25/1 credit	Internal
	Discussion lessons(ICT-1, Activity based-1, Model based-3)	5 nos.	5	
201.1	Demonstration lessons	2 nos.(models of teaching)	5	Internal
	Criticism Lessons	5nos.	5	
	Field Trip/Education tour.	Participation	10/1 credit	
201.2	Health & Physical Education	Refer Cu Sem. II	50/2 credits	Internal
201.3	Art Education and Theatre Practice.	Refer Cu Sem. II	25/1 credit	Internal
301.1	Art & Aesthetics Education	Refer Cu Sem.III	25/1 credit	Internal
301.2	Yoga, Health & Physical Education	Refer Cu Sem.III	25/1 credit	Internal

(b) School Based

Code EDU	Title	Task to be carried out	Marks/ Credits	Assessment
	Initiatory School	3 periods teaching / shared practice without formal lesson plans	10	
202.1	Experiences/school induction program.(5 days)	preparation of diary/repot.	10	Internal
		observation of lessons(2 nos.) and reporting	5/1 credit	
	School Internship Phase – I (10 weeks)			
302.1	1. Curriculum & Pedagogic Courses	40 lessons and associated work	150	Internal
	2. Health and Physical Education	2 lessons and associated work	25 / 7 credits	

(c) Community Based

Code EDU	Title	Task to be carried out	Marks/cre dits	Assessment
	Field Visit (optional)	Field visit related to the subject –	10	
103.1	Vocational/Work Education (group)	supw - service & product-1 each/ community work & report	15/1 credit	Internal
303.1	Community Living Camp	Participation in 5 days camp	50/2 credits	Internal

Semester - IV

Code EDU	Title	Task to be carried out	Marks/cre dits	Assessment	
401.1	Minor Project/Action Research/Case Study	Completion of the task & reporting in 30 to 50 pages.	40	Internal &	
10111		Viva-voce (external)	10/2 credits	External	
	School Internship Phase – II				
401.2	1. Curriculum and Pedagogic Courses	30 lessons and associated work	200	Internal & External	
	2. Yoga & Health Education	2 lessons and associated work	25/9 credit	EAGINAL	
	Achievement test (1 no.)	Preparation of achievement test and analysis using statistical measures.	20		
401.3	Diagnostic Test	Preparation of Test and proposing remedial measures.	15	Internal &	
	Reading & Reflecting on Text	Preparation of an account of the text read in the optional.	25	External	
	Reflective Journal	Journal for all days in practice.	15/3 credits		

Guidelines for Related Practical Work/Practical Courses.

EDU 103.1 – **Field Trip**/Visit associated with the Curriculum and Pedagogic Courses (optional). Field visit appropriate to the content area has to be selected. The report has to be evaluated on the basis of rubrics developed by the teacher educator.

EDU 103.1 – **Vocational/Work Education (SUPW/Community Work).** The objective of this program include planning and executing productive work, develop social sensitivity, seek support from the locality, sensitize with dignity of labor, etc. This Community based practical - Socially Useful Productive Work (SUPW) has to be organized by the college at their convenience in the specified time. The task include one service (Participation in social activities, social services, social projects, social work etc) and submission of one product (e.g. - book binding, craft/art work, soap making, agarbathi, paper bag, designing and making electronic devices, candle making, film making, pot making, embroidery, improvisation,.....) Assessment has to be made on the basis of proper division of marks using Performa for assessment designed by the institution.

EDU 201.3 – **Art Education and Theatre Practice.** The aim of theatre practice is to help the student-teacher realize the role of dramatization and other art forms as transactional strategies in classroom instruction for enhancing learning and creativity. It involves visualization and writing of scripts (related to themes from optional content areas), direction, assigning and engaging roles, enacting of drama, making arrangements individually and with group assistance.

EDU 202.1 – **School Induction Program.** The sole purpose of Initiatory school experience is to provide the student-teacher an opportunity to have primary experiences with the functioning of the school. This school attachment program is for a period of five continuous working days giving them an opportunity to acquaint with the school environment and their day-to- day functioning. Observation of lessons of senior teachers individually or in small groups (2 nos.), meeting the students informally to learn their background and interest in learning, to see the learning facilities in the school, observing the social climate in the school, etc are some of the activities to be undertaken during this period. Each student-teacher has to engage 3 lessons individually or as Shared Practice. In Shared Practice, student-teachers will be in small groups of three members. The lessons will be divided into three parts and each student teacher will practice one of the parts by rotation in the natural classroom situation. Lesson plans need not be written with the rigidity employed for Practice Teaching lesson. The student-teachers have to maintain a detailed diary as record of the visit.

After the initiatory school experiences, a reflection session should be organized in the college. Assessment of student-teacher performance during this period will be done jointly and conveniently by the General and Optional teachers. Institutions can depute either the Optional teacher or the General teacher for organizing and assessment of school initiatory experiences.

EDU 201.1 —**Field Trip/ Study Tour:** It is an exposure trip to a place of educational or historical importance. The expected outcome includes providing situations for the student-teachers to learn and get acquainted with the process of organizing /conducting a study tour/field work and understanding the environment around. A report of tour has to be prepared by all student-teachers. The report should highlight the objectives of the tour, identification of the spot, detailed plan, execution of the plan, benefits derived from the tour, problems faced and suggestions. The Study tour can be organized by the institution at their convenience as a general program/Optional requirement, for a duration not exceeding 5 working days, and will be counted as an activity of Semester II. In case any student fails

to attend the study tour/field work due to genuine reasons they have to compensate it by undertaking a minor community work suggested by the institution and have to submit a report.

School Internship: - School Internship is a part of the curricular area of 'Engagement with the Field' designed to lead to the development of a broad repertoire of perspectives, professional capacities, teacher sensibilities and skills among the prospective teachers. The task during this period include:

- Practicing the process of preparation of material, teaching, assessment and evaluation,
- Participating in all the academic activities of the school under direct supervision,
- Learn to set realistic goals in terms of learning, curricular content and pedagogic practices,
- Choose, design, organize and conduct meaningful classroom activities,
- Participate in school, social and community activities in the locality associated with the school,
- Observation of and association with children in multi socio-cultural environments to understand their problems and to suggest possible remedies,
- Develop, locate, collect and maintain teaching-learning resources.

Internship in Teaching/School Internship is for a period of 20 weeks divided into two Phases of 10 weeks each, to be organized during the Third and Fourth Semesters of the Course. For school internship, the Colleges of Teacher Education and the participating Schools shall set up a mutually agreed mechanism for organizing, monitoring, supervising, tracking of internship and assessing the student - teachers. Make arrangement with at least five practicing schools for the internship as well as other school based activities of the course. These schools shall form basic contact point for all other practicum activities and related practical work during the course of the program. During the internship, a student-teacher shall work as a regular teacher and participate in all the school activities, including planning, teaching and assessment, interacting with school teachers, community members and children.

The school internship program has been arranged in phases to install effectiveness in the program. School induction program, Phase I & II of School internship has to be organized in close supervision of the colleges with effective co operation from practicing schools. After the completion of each program colleges should arrange reflection sessions in the college so that the trainee can benefit by sharing experiences and can plan and modify/regulate his/her teaching and associated activities in the next spell in the school more effectively. Planned progressive development of the behavior of the trainee phase after phase is the major purpose of arranging teaching practice in various progressive phases/stages/spells.

EDU-302.1 : School Internship Phase I.

School Internship/Teaching Practice for Semester III may be arranged as a single block program for a duration of 10 weeks. Student-teachers have to complete 40 Practice Lessons spread over in standards VI to XII in the Primary/Secondary/Higher Secondary Schools (Kerala State/CBSE/ICSE/ISC scheme) in their concerned Optional Subject and 2 lessons for Health & Physical Education during this period and to actively participate in all activities of the practicing school. Graduate students can

be assigned standards VI to X and for post graduates from VI to XII conveniently. Only those students having Post Graduate degree in the concerned Optional Subject are permitted to undergo Teaching Practice at Higher Secondary School level. Lesson plans/Records have to be maintained by all student-teachers. Preparation of Diagnostic Test, Achievement Test, Internship diary/Reflective Journal does not carry any marks separately but are mandatory. Appropriate remedial measures have to be adopted on the basis of the analysis of the Diagnostic test. The scores of the Achievement test should be analyzed quantitatively and qualitatively employing necessary Statistical measures. All student-teachers have to observe at least 10 lessons of peers and record the observations in the Peer Review Record.

EDU-401.2: School Internship Phase II.

School Internship/Teaching Practice for Semester IV may be arranged as a single block program for a duration of 10 weeks. Student-teachers have to complete 30 Practice Lessons spread over in standards VI to XII in the Primary/Secondary/Higher Secondary Schools (Kerala State/CBSE/ICSE/ISC scheme) in their concerned Optional Subject and 2 lessons for Health & Physical Education and to actively participate in all the activities of the school during this period. Graduate students can be assigned standards VI to X and for post graduates from VI to XII conveniently. Only those students having Post Graduate degree in the concerned Optional Subject are permitted to undergo Teaching Practice at Higher Secondary School level. Lesson plans/Records have to be maintained by all student-teachers. Preparation of Diagnostic Test, Achievement Test, Internship diary/Reflective Journal, updating blog (1. Weekly report of school experiences including curricular and cocurricular and extension activities, 2. Innovative work during practice teaching-2 nos.), Reading and reflecting on a text in the concerned optional, undertaking a conscientization program and Field work (Minor Project/Action Research/Case Study) have to be undertaken during this period. Appropriate remedial measures have to be adopted on the basis of the analysis of the Diagnostic test. The scores of the Achievement test should be analyzed quantitatively and qualitatively employing necessary Statistical measures. School internship Phase II has to be scheduled conveniently during the period November-January to present the student-teachers for practical examination by the end of January.

Supervision of School Internship: - The supervision of Practice Teaching is a joint responsibility of the Colleges of Teacher Education and Practice-Teaching Schools. Continuous observation and briefing is essential for improving the teaching skill of the novice teacher and for capacity building. The subject teachers of the school have to observe all the lessons of student-teachers and enter their suggestions in the supervision diary maintained by the student-teacher. The Teacher Educators have to observe the maximum number of practice lessons of the student-teacher. Observation of three lessons (probably at the beginning, middle and at the end of Practice Teaching) by the Optional teacher and one lesson by the General teacher is mandatory. The Principals of Colleges have to visit the practicing schools, observe lessons and monitor Practice Teaching. Assessment of Practice Teaching will be done on the basis of the Performa for assessment of teaching (see appendix). Assessment of Practice Teaching will be done jointly by the General and Optional Teachers , and School supervisors. The division of marks for various categories is as follows.

EDU 302 - School Based Practical)

Internship in teaching Phase I	Tasks to be carried out	Marks	Time allotted
EDU 302.1 optional subject	Teaching of Optional Subjects) -40 lessons (Marks: Lesson Record -20, Peer Review Record -10, Teaching and assessment -120 (Marks allotted to: Optional Teacher-80, General Teacher-20 & School supervisor-20)	150 (6 credits)	10 weeks
EDU 302.1 Physical & Health Education	Teaching of PE & HE classes - Total 2. Teaching -10 marks Lesson templates/record - 5 marks Health status of a student/case - 10 marks	25 (1 credit)	

EDU 401 - School Based Practical

Internship Phase II	Tasks to be carried out	Marks	Time allotted	
EDU 401.1	Minor Project/Action Research/Case Study Viva-voce	40 10/(2 credits)		
EDU 401.2	Teaching for Optional Subjects - 30 lessons (Marks: Lesson Record - 30 Teaching - 100 Viva-voce (optional) - 20 Peer observation record - 10 Updating blog** - 25 Undertaking conscientization program*- 15 (Marks allotted to: Optional Teacher-80, General Teacher-20)	200 (8 credits)		
	Teaching of Yoga & HE classes - Total 2. Teaching - 15 marks Lesson templates/record - 10 marks	25 (1 credit)	10 weeks	
EDU 401.3	Preparation of Achievement test, statistical analysis and interpretation	20		
	Reflective Journal 15			
	Reading and Reflecting on text	25		
	Preparation of Diagnostic Test and Remedial measures	15/ (3 credits)		

- ** Updating blog: Two tasks have to be undertaken: (1) weekly reporting of the experiences during internship including all curricular, co-curricular and extension activities undertaken during the week in school. (2) Up-loading in blog two innovative work / lessons segment on a single concept in the optional paper undertaken during practice- teaching.
 - Conscientization program: The student-teacher has to undertake any one conscientization program in the school/community during practice-teaching and has to prepare a written report. (gender sensitivity, inclusive education, social evils around, media abuse, and the like.....)

Assessment of School Internship/Teaching Practice: School Internship Phase I and associated activities of Semester III will be assessed jointly by the General and Optional Teacher Educators and the School supervisor. There will be no external practical examination. The marks/grades have to be consolidated and forwarded to the university by the colleges concerned. School Internship and associated activities of Phase II (Semester IV) will be assessed jointly by the General and Optional Teacher Educators as per guidelines. However the assessment for Semester IV will be subjected to external examination through the External Examination Board constituted by the University.

EDU 303.1 – Community Living Camp:

Community Living Camp: - All the colleges have to organize a five-day residential Community Living Camp/Citizenship Training Camp in a convenient location of their choice. It is a joint camp of Student- Teachers and their Teacher Educators in a convenient location, keeping certain formalities and following a pre/well planned time table. Learning to live together co-operatively, participation in programs for development of personal and social skills, to develop student-teacher 'social-relational sensibilities and effective communication skills, practicing democratic living, providing chances for division of labor, community work etc. are the major outcomes expected of the program. Record mentioning all the activities have to be prepared and submitted by each Student-Teacher. Community Living Camp can be organized by the institution at their convenience either during Semester III or during holidays after the Semester II University examinations, but will be credited with Semester III. Assessment of participation in Community Living Camp has to be done on the basis of an Assessment Schedule.

Organization of the Camp: Select a main theme related to education, culture, society and environment for each year by each institution for the community camp. The common objectives of the camp should be:

- To promote social accommodation and broaden the mental abilities of the student-teachers.
- To promote the democratic nature and involvement of the student-teacher in planning and implementing educational activities.
- To develop critical thinking about the issues related to the policies/approaches in education.
- To inquire in to the cultural, social, scientific, educational and environmental aspects of a community.
- To develop an interest to train the body and mind for a well balanced personality.

Themes for a Community Living Camp (decide the theme to suit the location)

- Education and Social Change
- Education- its creative and social aspects
- Nature, agriculture, culture and education
- Education, environment and development/empowerment etc.

Programs suggested for community living camp: Social and educational Surveys, visit to social institutions to study their functioning, undertaking community productive work, campus cleaning/beautification, undertaking duties in the camp including preparation of food, attending classes/seminars/yoga etc., participation in games and recreational activities, mock Parliament activities etc.

EDU 401.1 - Minor Project/Action Research/Case Study

The student-teacher has to take up a minor research project/Action Research/Case Study during the course. The fundamentals and modalities of this systematic study are well discussed in EDU – 08 of Semester II. The task/theme selected should be relevant socially, academically and contextually and has to be undertaken in a phased manner as per the schedule under the guidance of a supervisor (Teacher Educator). The task has to be initiated during the 1st Phase of School internship and to be completed during the 2nd Phase and credited with Semester IV. Selection of a relevant topic/problem/case, review of available literature in the area, preparation/adoption of simple tools to collect facts/data regarding the issue, analysis of the data either qualitatively or quantitatively(using simple statistics), reporting the findings are the stages to be followed. The report has to be typed/neatly handwritten, consolidated to a document of 30-50 pages. (format of the report is given as appendix). Assessment of the report will be done internally by the Supervising Teacher Educator and externally by the external practical board during the viva-voce. Viva-voce will be done by the external board. Assessment of Report: Internal -40 marks, External - 40 marks, viva-voce-10 marks(external only)

EDU 401.3 – **Reflective Journal:** A student-teacher generated locally standardized daily log book maintained under the supervision of the mentors is visualized as a Reflective Journal (RJ). The RJ can act as a document that carries an analytical account of the daily experiences of student-teachers during school internship. The major purpose of the RJ is reflection-on-action. During the practice-teaching the RJ depicts how different aspects of teaching are interconnected. Analysis and comments on theory-practical integration, the nature and extend of support system utilization, process analysis of success and failures management, interference and projection of future course of correction and developmental actions etc. can function as elements in the design of the reflective journal.

ASSESSMENT: The academic growth of the student-teacher is assessed using various assessment devices. For the theory courses, the proficiency of the student-teacher is evaluated through continuous evaluation of the candidates progress and through the semester end examination. To make continuous evaluation transparent, student-teachers should be made aware of the modus operandi of the evaluation process and the assessment criteria. The level of performance of the student-teachers is to be published periodically. The internal marks (CE) of the Theory Courses (both Core and Optional papers) and Practical Courses of Semester I, II, III signed by the candidate shall be submitted to the

University within one week after the closing of each semester. During Semester IV the same has to be handed over to the Chairman, External Practical Board at the time of Practical examination.

Course Evaluation/Assessment

Sem.	External assessment (Theory-Written)	Internal Assessment
I	EDU – 01 to 05	CE of EDU 01 to 05 EDU: 101.1 to 101.3; EDU: 103.1.
II	EDU – 06 to 10	CE of EDU 06 to 10 EDU : 201.1 to 201.3 ; EDU : 202.1;
Ш	EDU – 11 EDU – 12 EDU - 13	CE of EDU 11 to 13 EDU: 301.1 to 301.2; EDU: 302.1; EDU: 303.1
IV	*EDU – 14 (online examination) *EDU - 15 (on line examination)	EDU : 401.1 to 401.3 (Internal & External)

* Online examination of EDU-14 & EDU-15: The online examination shall be conducted by the university at the end of Semester IV in selected centre's/Colleges of Teacher Education. Individual colleges can select any one centre for the online examination of their students. The duration of the examination will be one hour fifteen minutes (75 minutes) with 50 multiple choice question items. There will be four distracters to each question item and the students have to select the most appropriate choice. There will be provision for only one attempt with each question. Students cannot erase/alter their answers once attempted. All the rules with respect to online examination will be applicable here also. A question bank with sufficient multiple choice items shall be created separately for EDU-14 & EDU-15 as per the respective curriculum requirements/components. From among them a test with 50 items selected at random will be supplied to each student for EDU-14 & EDU-15. Students have to answer 50 items in 75 minutes in both the examinations.

Tools for Assessment:-For assessing student performances Criteria / Performa based on rubrics have to be developed for each task by the Teacher Educators to make assessment objective. A *rubric* is an explicit set of criteria used for assessing a particular type of work or performance. A rubric is a guideline for rating student performance. A rubric usually includes levels of potential achievement for each criterion, and sometimes also includes work or performance samples that typify each of those levels. Levels of achievement are often given numerical scores. A summary score for the work being assessed may be produced by adding the scores for each criterion. Rubrics are typically displayed in list or grid form. Within the rubric a series of criteria and traits are listed, usually followed by a Rating Scale.

Modes of Assessment:

A. Theory: (50 marks each)-Theoretical discourses of Perspectives in Education (Core) and Curriculum and Pedagogic Courses (Optional papers) for semester I, II & III will be assessed externally through end semester examinations of the University.

Practical work related to theory papers-CE- (25 marks each) - (EDU-01 to 15) Continuous Evaluation (CE) of Practical Work related to theory papers will be done by the teacher educator concerned internally as per the guidelines in each case. The Practical Work (CE) coming under Theoretical Discourses EDU 01 to 05 of Semester I, EDU 06 to 10 of Semester II and EDU 11 to 13 of Semester III will be subjected to internal assessment only where as EDU 14 & 15 will be assessed both internally and externally.

B. Practical Courses:-

1. Practical Courses for Internal assessment.

Continuous and comprehensive assessment of the College, School & Community Based Practical for EDU 101 & EDU 103 of Semester I, EDU 201, & EDU 202 of semester II, EDU 301, EDU 302 & EDU 303 of Semester III and EDU 401 of semester IV will be done by the teacher educators concerned internally on the basis of the criteria fixed for the purpose. The internal examiner will assess the performance of the student-teachers and award marks and respective grades.

Internal assessment of Initiatory school experiences of Semester II and Practice Teaching in Semester III & IV will be carried out jointly by the General & Optional teachers and school Supervisors.

The marks and respective grades of internal assessment (CE & Practical Courses) during each Semester have to be forwarded to the University by the institutions within one week after closing of the semester, both Online and manual/printed. There will be no external assessment for the practical done (CE & other practicals) during Semester I, II & III. The marks/grades of Semester IV will be handed over to the Chairman, External Examination Board by the institutions at the time of practical examination.

2. Practical Courses for External Assessment

Practical work related to EDU 401.1, EDU 401.2, & EDU 401.3 of Semester IV will be subjected to external assessment by an External Examination Board constituted by the University. The external examiner for Physical Education will assess the Records related to Physical and Health Education. There will be no external assessment of Physical and Health Education classes by the external examiner. The present practice of appointing Zonal Boards will be continued. The board members will be appointed by the University on the basis of existing norms.

The practical Examination by the External Board will be conducted in two Phases.

- Phase I Practical Examination of Curriculum and Pedagogic courses (optional) and Health and Physical Education (during mid January-February).
- Phase II Evaluation of Minor Project work/Action Research/Case study and viva-voce
 (during March)

Scheme of Assessment Practical Courses of Semester IV by External Practical Board

	Examiners	Subject & Item for assessment	Marks
Phase I (January/ February)	Chairman &External Examiners for curriculum and pedagogic courses/ Optional subject & Examiner for PE	Curriculum & Pedagogic courses EDU-401.2 : Record of Teaching- Teaching Viva-voce Peer observation record Record of blog uploading Record of conscientization EDU-401.3 : Achievement Test Reflective Journal Reading & Reflecting on text Diagnostic test EDU-401.2 : Yoga and Health Education. Record of Practice teaching & viva	30 100 20 10 25 15 20 15 25 15/275
Phase II (March)	Chairman &External Examiner for Perspectives in Education/Core Paper.	EDU – 401.1 : Minor Research Project/Action Research/Case Study – Report. Viva-voce (external valuation)	40 10

Zonal Board: - The Zonal Board will consist of a Chairman, Subject expert for each Optional Paper, one Subject expert for Core Papers, one Subject expert for Physical and Health Education appointed by the university. The zonal board will schedule its examination in two phases.

During Phase I the team members consisting of the Chairman, examiners of Optional subjects and Physical education will visit the colleges as per schedule of examination fixed by the chairman in consultation with respective colleges and assess the performance of the student-teachers as per the criteria already fixed. The subject expert for the Optional Paper will conduct Practical Examination for the concerned Optional. If the number of candidates in an Optional subject is more than 20, an additional examiner can be appointed. The board shall observe and assess the teaching competency (Optional only) and other Practical Work of all student-teachers and conduct a Viva-Voce based on the subject. The members of the external board will assess the performance of the student-teachers in their concerned subject and award marks and respective grades for the maximum marks specified. Each Zonal Board will visit maximum 3 to 4 institutions.

During Phase II the team consisting of the Chairman and examiner for Perspectives in education(core papers) will schedule external examination and will assess the project work/case study/action research and conduct a viva-voce on the project.

Duties of Practical Board: The marks and respective grades of internal assessment of Practical Courses of Semester IV will be handed over to the Chairman, External Practical Board at the time of Practical Examination by the Colleges concerned. The members of the External Practical Board will assess the Records and performance of all the student-teachers in their concerned subject using the

assessment criteria followed in internal assessment and hand over the marks and respective grades to the Chairman of the Board. The average of the internal and external assessment has to be taken as the final score. In case, the total marks awarded by the internal and external examiner for a subject (Minor Project/Action Research/Case Study, Physical Education, and Practice Teaching and related activities) has a difference more than 10% of the total marks, the Chairman will examine the case and settle the variation. In such cases the decision of the Chairman will be final. The Chairman will check randomly/verify any case, if discrepancies are noted. All the Examiners, appointed by the University including the Chairman have to be present in the centre on all the days on which Practical Examination is conducted.

Compilation of marks: The average marks and respective grades of the internal and external assessment has to be computed by the Chairman of the Board and forwarded to the Co-ordinating Chairman along with internal marks handed over by the colleges and external marks assigned by the board after the completion of Phase II examination.

Co-ordinating Chairman: - A Co-ordinating Chairman will be appointed by the University who will co-ordinate the work of four zonal boards. The Coordinating chairman has to randomly check the assessment of Zonal Boards and make corrections, if necessary. The final Mark Lists of Practical Examination (average of internal and external, internal marks handed over by colleges, and external marks awarded by the board) have to be forwarded to the Controller of Examination.

Number of Zonal boards: - The University will constitute the required number of Zonal Boards to complete the Practical Examination in the stipulated time (in a duration of 10 to 15 days). All qualified teacher educators have to compulsorily take up appointment as External Examiner.

Timing of Practical Examination: - Practical examination will be scheduled and carried out simultaneously in all the colleges in a period of 10 to 15 days. The Phase I has to be scheduled during mid January- February. Phase II has to be scheduled during March. The duration of the Practical Examination in an institution will be two days for a strength of 50 students(one unit) for Phase I & Phase II. Additional days will be provided depending on the strength of the institution.

Scheme of Assessment: Theory

Semester I (Semester-end examination)

Code	Paper	Duration	Marks
EDU 01	Knowledge and Curriculum: Philosophical and Sociological Perspectives.	2 hours	50
EDU 02	Developmental Perspectives of the Learner.	2 hours	50
EDU 03	Technology and Communication in Education	2 hours	50
EDU 04.1-13	Theoretical base ofEducation	2 hours	50
EDU 05.1-13	Pedagogic Content Knowledge Analysis:	2 hours	50
Total			250

04.1-12 & 05.1-13— Malayalam, English, Hindi, Sanskrit, Arabic, Tamil, Mathematics, Physical Science, Natural Science, Social Science, Geography, Commerce, Home Science.

Scheme of Assessment – Semester II (end Semester examination)

Code	Paper	Duration	Marks
EDU 06	Education in Indian Society.	2 hours	50
EDU 07	Perspectives of Learning and Teaching.	2 hours	50
EDU 08	Assessment in Education.	2 hours	50
EDU 09.1-13	Curriculum and Resources in Digital Era:Education.	2 hours	50
EDU 10.1-13	Techno-Pedagogic Content Knowledge Analysis:	2 hours	50
Total			250

09.1-13 & 10.1-13 - Malayalam, English, Hindi, Sanskrit, Arabic, Tamil, Mathematics, Physical Science, Natural Science, Social Science, Geography, Commerce, Home Science.

Semester III (Semester-end examination)

Code	Paper	Duration	Marks
EDU 11	Developmental Perspectives in Education.	2 hours	50
EDU 12	Learner in the Educational Perspective.	2 hours	50
EDU 13	Emerging Trends and Practices in Education.	2 hours	50
Total			150

04.1-13 & 05.1-13 – Malayalam, English, Hindi, Sanskrit, Arabic, Tamil, Mathematics, Physical Science, Natural Science, Social Science, Geography, Commerce, Home Science.

Semester IV (Semester-end examination : online examination)

Code	Paper	Duration	Marks
EDU 14	Advanced Studies: Perspectives in Education.	75 minutes	50
EDU – 15	Advanced Studies : Curriculum and Pedagogic CoursesEducation.	75 minutes	50
Total			100

Pattern of Question Papers (Semester I, II & III)

Type of Question	Number	Marks	Time
Multiple Choice	5	5(1 mark each)	5 minutes
One word/Sentence	5	5 (1 mark each)	5 minutes
Very Short Answer	5	10 (2 marks each)	20 minutes
Short Answer	4 out of 6	20 (5 marks each)	60 minutes
Essay	1 out of 2	10 marks	30 minutes
Total	20	50	120 minutes

Pattern of Question Paper – Semester IV (online examination)

Type of Question	Number	Marks	Time
Multiple Choice	50	50(1 mark each)	75 minutes

Grading System (Seven Point Scale): Grading: Grading is the process of applying standardized measurements of varying levels of comprehension within a subject area. Assigning letters for indicating the performance of students in each paper/area by giving due weightage according to the scale adopted. A seven point scale is suggested here for the grading purpose and Indirect Grading shall be used. In Indirect Grading the students are assessed using conventional marking mode and the marks awarded for each subject/area are converted into letter grades as per the weightages assigned. Marks for each Theory Courses (EDU-01 to 15) and Related Practical Work (CE), Practical Courses (EDU 101, 102, 103, 201, 202, 203, 301, 302, 303 & 401) will be assessed and the marks will be converted into letter grades in a seven point scale. Then find the Grade point Average (GPA). The overall performance of the students will be assessed by finding the Cumulative Grade Point Average (CGPA) and converting this CGPA into letter grades following the grade range in the seven point scale.

Intervals of marks in %	Grade	Grade Point	Grade Range
90 and above	A +	7	6.30 - 7.00
80 – 89	A	6	5.60 - 6.29
70 – 79	B+	5	4.90 – 5.59
60 – 69	В	4	4.20 – 4.89
50 – 59	C +	3	3.50 – 4.19
40 – 49	C	2	2.80 – 3.49
Below 40	D	1	0.01 – 2.79

Grade Point Average (GPA): GPA is the value obtained by dividing the sum of the weighted grade points obtained by a student in various subjects in a semester by the total number of credits taken by him/her in the semester. The value shall be rounded off to two decimal places.

$$GPA = \frac{\sum WGP}{Total\ Credit}$$

Cumulative Grade Point Average (CGPA)

Cumulative Grade Point Average (CGPA): CGPA is the value obtained by dividing (the total credits for each semester) X (Sum of GPA for all the semesters) by (the total credits for all the semesters). The value shall be rounded off to two decimal places. Then,

$$CGPA = \frac{GPA \ of \ Semester \ I + II + III + IV}{4}$$

Grading of a Candidate: For a pass in the examination the candidate should have obtained a minimum of 50% marks (C+ grade) in aggregate in each semester with a separate minimum of 40% marks in each Theory Paper, 40% when theory and CE are taken together and 50% for School Internship of Semester III, IV and 50% marks for Minor research project/Action Research/Case Study. There is no minimum for CE and other related Practical Courses. The overall grade of the Course will be computed in terms of CGPA and respective letter grades will be awarded. The minimum grade required for a pass is C+ in aggregate.

Curriculum Transaction

Strategies to be adopted

The strategies proposed to be adopted in the transaction of the B. Ed. curriculum include Lecture-cum-Discussion/Narration, Co-operative and Collaborative Learning, Focused Reading and Reflection/Intellectual Discourses, Observation-Documentation-Analysis, ICT Enabled Learning/Virtual Tours, Requirement Based Learning / Individualized Learning, Multi Disciplinary Learning, Meaningful Verbal Expression, Seminars, Case Studies, Workshop /Dramatization / Miming, Self Learning, Problem Based Learning, etc. With a view to move away from theoretical discourses through lectures alone, the student teachers will be required to be engaged in these various kinds of learning experience/modes of learning engagements. These strategies have to be initiated by the mentor to guide the student teachers to go through the processes to achieve the expected outcomes. Many probable instructional strategies have been included with each content in the curriculum, and the teacher educators have to adopt the most suitable ones to make the instruction effective.

Mental Process: the sequence of mental experiences-pedagogical-instructional-experiential contexts felt/received/undergone by the student-teacher during/as a result of various interactions viz. Intellectual dilemma, Cognitive challenge, Controlled listening, Disequilibration and accommodation, Reflective intellectual discourses, Contemplative self expression, Verbal and conflict management, Narrative expression of self experiences, Field based mental imagery formation, Collective expression of consensus point and the like constitute the learning process.

The mental processes involved in the learning of various subjects are presented below in hierarchical order.

- 1. Retrieves/ recollects/ retells information
- 2. Readily makes connections to new information based on past experiences and formulates initial ideas/concepts
- 3. Detects similarities and differences
- 4. Classifies/ categorizes/ organizes information appropriately
- 5. Translates/ transfer knowledge or understanding and applies them in new situations
- 6. Establishes cause- effect relationship
- 7. Makes connection/relates prior knowledge to new information/applies reasoning and draw inferences
- 8. Communicates knowledge/ understanding through different media
- 9. Imagines/fantasizes/ designs/ predicts based on received information
- 10. Judges / appraises/ evaluates the merits or demerits of an idea/ develops own solutions to a problem

The list of strategies, learning processes etc are inconclusive. Teacher Educators have the freedom to adopt various strategies, learning process, assessment techniques in addition to the ones suggested in the Syllabus grid. But each institution/ teacher educator has to ensure that activities/ strategies suggested in the syllabus grid are followed during transaction of curriculum.

Academic Calendar

A copy of the Academic Calendar specifying the schedule of activities and examination during the course is given in appendix

* Orientation of the Curriculum (Academic Calendar Semester I)

The time provided for General Orientation is one week. The purpose of General Orientation for fresh entrants to the B. Ed. Course is to spell out to the student teachers its academic and professional aspects, and also the expectations of the institution from them in achieving the quality and standards of the professional course.

Scope of the orientation:- When the student teachers join a teacher education institution, they are anxious to know how to grapple with the problems and situations that are new to them and appear to be challenging. Therefore, the orientation program should be organized at the beginning and be spread over the whole of the first week, as it will lay the foundation of a successful course. It should cover the following areas:

1. General Orientation:

- a) About Teaching as a Profession
- b) About the Institution
- c) About the Faculty

2. About the B. Ed. Program

- a) Theoretical Discourses and Related Practical Work (CE)
- b) School internship / Practice Teaching
- c) Practical Courses / Practicum (College/School/Community Based)
- d) Assessment and Evaluation (both Internal and External)
- e) Curricular and Co curricular Activities in the Institution.

Composition of the Curriculum

The curriculum of various subjects for B Ed are presented in the order Semester I, Semester II, Semester III & Semester IV. Perspectives in Education (EDU 01-03, 06-08, 11 & 12, 14) are Core papers & Curriculum and Pedagogic Courses (EDU 04-05, 09-10, 13, 15) are Optional subjects. The components of the curriculum have been presented in the following order.

- Title of the Subject
- Objectives of teaching the Subject
- Contents included in the subject
- Syllabus Grid
- References

The syllabus Grid contains four columns

- 1. Learning Outcomes what the student-teacher may achieve.
- 2. Contents/Concepts and allied matters concepts and knowledge of functional dimensions of concepts.
- 3. Strategies/Approaches recommended for transaction Initiated by the mentor.
- 4. Assessment and Evaluation to assess the progress of the novices.

Perspectives of Education (core Papers).

Nine areas/papers (EDU - 01, 02, 03, 06, 07, 08, 11, 12 and 14) have been included under this heading in order to develop among the student-teachers a realistic outlook about education and teacher in the Indian society. The objectives of this program include:

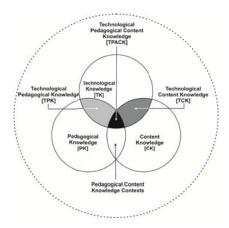
The prospective teacher

- Understands the meaning, significance and perspectives of education in the socio-cultural context.
- Understands the history, current issues and challenges of Indian Education and becomes capable of solving various problems of the society.
- Understands the developmental processes and needs of children and adolescents, the role of teacher in facilitating them.
- Acquaints with prominent Psychological principles, theories of development and learning, and allied matters and make use of them in educational contexts.

- Understands the assumptions of ICT, Assessment and Evaluation, Management, Environment etc and makes use of them in practical life and classroom instruction.
- Acquires democratic and social values of an ideal teacher and develops skills and competencies in teaching and classroom management.

Curriculum and Pedagogic Courses (Optional subjects)

Theoretical Base of the optional subject, (Techno) Pedagogic Content Knowledge Analysis, Curriculum and Resources in Digital Era, Emerging Trends and Practices & Advanced Studies in the subject area are the Optional Papers included under Curriculum and Pedagogic courses. Due consideration has been given to incorporate the latest trends in learning and pedagogical theories that touches various domains of the subject concerned. Keeping in mind the local-cultural-historical-environmental and educational dimensions of Kerala an earnest effort has been undertaken to incorporate the sprit of the 21st century knowledge based economic circumstances and its divergent demands in the teacher education process through the respective course work of the optional paper. A clear demarcation of the methodology and the corresponding pedagogical analysis papers with respect to the respective optional subjects have been worked out which help for meaningful transaction of the optional curriculum. Revamping the concept of Pedagogical analysis to Pedagogic Content Knowledge (PCK) and its contemporary version of Techno-Pedagogic Content Knowledge (TPCK) Analysis have been accommodated to give a practical face to the curriculum. The following illustration may make things more clear.



The objectives of optional education include:

- To make the novice teacher understand the scope and nature of teaching the subject at different levels of learning.
- To introduce the challenging career of a teacher with a futuristic perspective, as an agent of social change.
- To develop practical field based skills and experience in resource development and learning experience designing while transacting the curriculum.
- To provide the required research based learning experience so as to undertake a habit of self development through inquiry and investigation,

- To enrich the vision and capabilities of prospective teachers as reflective practitioners during and after the pre-service education.
- To design instructional and learner support mechanism-print, non-print, electronic and digital-appropriate for the learner needs and contextual requirements.
- To get a field based understanding of theories and principles of pupil assessment and evaluation.
- To undertake a self-empowerment initiative in transacting the curriculum from a Techno-Pedagogic content Knowledge perspective.
- To identify the Entrepreneurial opportunities of futuristic significance associated with the subject.
- To develop a neo-humanistic attitude among the student-teachers in the light of Science-Technology-Society/Culture-Environment interaction paradigm.

SEMESTER – I

Instructional hours per Subject: 90 (Theoretical Discourses – 60 & CE – 30 hours)

Perspectives in Education/Core Subjects:

EDU-01 : Knowledge and Curriculum: Philosophical and Sociological Perspectives.

EDU-02 : Developmental Perspectives of the Learner. EDU-03 : Technology and Communication in Education.

Curriculum and Pedagogic Courses/Optional subjects:

EDU-04. 1-13 : Theoretical Base ofEducation. EDU-05. 1-13 : Pedagogic Content Knowledge Analysis :

EDU - 01: KNOWLEDGE AND CURRICULUM: PHILOSOPHICAL AND SOCIOLOGICAL PERSPECTIVES.

Hours to transaction: 60 (Theoretical discourses) & CE - 30 hrs (Activities/Process)

Objectives:

- To recognise broad functions of education and role of teacher as a leader
- > To develop personal philosophy of teaching
- > To synthesise eclectic tendencies in teaching
- > To understand the sociological functions of education
- To synthesise the role of teacher as a change agent and nation builder
- > To synthesise the role education in promoting national integration and peaceful coexistence

Contents:

UNIT I : TEACHER AND EDUCATION (15 hrs)

UNIT II : PHILOSOPHICAL PERSPECTIVES OF EDUCATION (30 hrs)
UNIT III : SOCIOLOGICAL PERSPECTIVES OF EDUCATION (25 hrs)

UNIT IV : EDUCATION AND SOCIAL CHANGE (20 hrs)

UNIT I: TEACHER AND EDUCATION (15 hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To develop the broad concept of education To understand Meaning, definitions and Aims of education To develop awareness on types and agencies of education To realise qualities and competencies and professional Ethics of teachers 	 Meaning and concept of Education General Aims of education Definitions of Education Formal, informal, and non-formal education Child centered and life centered education Teacher- Qualities and Competencies Teaching- An Art and Science Professional Ethics of Teachers 	Meaningful verbal expression Lecture-discussion ICT Group Discussion	 Role Performance Analysis in group Discussion Involvement in Debates Seminar Presentations Assignments Class test

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UNIT II: PHILOSOPHICAL PERSPECTIVES OF EDUCATION (30 hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To develop personal philosophy of teaching To develop an awareness and attitude towards eclectic tendencies in education To analyse the contributions of thinkers towards education 	 Education Thoughts on Education - Idealism – Naturalism-Pragmatism -Realism - Humanism- features and educational implications Contributions of thinkers towards curriculum 	Meaningful verbal expression Lecture-discussion ICT Seminar Debate	 Participation and Performance in Quiz Competition Seminar Presentations Class test practicum

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- http://vpmthane.org/Publications(sample)/Indian%20Philosophy

UNIT III: SOCIOLOGICAL PERSPECTIVES OF EDUCATION (30 hrs)

	Learning Outcome	Major concepts	Strategies & Approaches	Assessment
	identify the interactive role of	Interactive role of education and society		Document Analysis
eau	ucation and society	Functions of education with regard to Culture Preservation Transformation and	ICT enabled group	Field visit reports
the cult 3. To ince	develop an understanding about e role of education with regard to lture synthesis role of curriculum to culcate national integration and ernational understanding	 Preservation, Transformation and Transmission Acculturation and Enculturation, Cultural lag, cultural inertia, Cultural diffusion Role of education to inculcate values connected with Democracy and Secularism National Integration International Understanding 	discussion Field trip Lecture-discussion	 Class test Role Performance Analysis in group Discussion Seminar Presentations

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UNIT IV: EDUCATION AND SOCIAL CHANGE (20 hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To analyze and synthesize the sociological functions of education To develop awareness about the characteristics of Indian society. To synthesize the significance of Education as an agent of social change 	 Characteristics of Indian Society –class, religion, ethnicity, language. Social Change – Factors influencing social changes- Role of Education Major changes occurred in Indian society Conscientisation - Areas where conscientisation is needed Role of education to curb Social evils like Corruption, Terrorism, Antinational activities, Violence against women, Drug abuse and Alcoholism etc. Teacher as a Change agent and Nation builder 	Lecture Cooperative Learning Discussion Social Constructivism	 Initiation and performance in dramatization Field visit reports Role Performance Analysis in group Discussion Involvement in Debates Seminar Presentations Class test Practicum

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- http://en.wikipedia.org/wiki/Terrorism in India
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EDU - 02: DEVELOPMENTAL PERSPECTIVES OF THE LEARNER

Objectives: To enable the student teacher:

- 1. To conceptualise the nature, scope and methods of Educational psychology.
- 2. To familiarise the approaches for the study of Educational Psychology
- 3. To develop an understanding of the concept, principles and theories of Growth and development.
- 4. To familiarise the developmental tasks and developmental hazards
- 5. To understand the developmental characteristics of Childhood and Adolescence.
- 6. To develop an understanding of the concept, nature and various theories of intelligence
- 7. To understand the meaning, nature, process of creativity development and the strategies for fostering creativity.
- 8. To develop an understanding of the concept and theories and development of Personality.
- 9. To understand the concept of Adjustment, Maladjustment and the causes of mal-adjustment.
- 10. To equip student teachers to apply the theories in facilitating overall development of the learner

Contents:

UNIT I : FOUNDATIONS OF EDUCATIONAL PSYCHOLOGY

UNIT II : DEVELOPMENT OF THE LEARNER

UNIT III : LEARNER DIFFERENCES IN INTELLIGENCE AND CREATIVITY

UNIT IV : PERSONALITY OF THE LEARNER

UNIT I FOUNDATIONS OF EDUCATIONAL PSYCHOLOGY (15 hours (10 T+ 5 P))

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1. To develop an awareness about the		Lectures	Reflective practices
need for educational psychology for a teacher 2. To develop an understanding of the nature, scope and methods of Educational psychology.	Limitations and relevance in classrooms 2. Schools of Psychology- Structuralism, Functionalism, Behaviourism, Cognitive, Humanistic and Gestalt Schools 3. Scientific method of studying behavior,	Group discussion on Critical analysis of application of psychology	 Assignments Seminar presentation Test paper Performance in discussions

3	. To understand various approaches	Methods of studying Educational	Comparison of
	to study Psychology.	Psychology- Introspection, Observation,	different schools of
4	. To familiarise the different schools	Experimental method and Case Study	psychology
	of Psychology		
5	. To familiarise the various branches		Case study
	of psychology		Self analysis
			Self analysis

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UNIT II DEVELOPMENT OF THE LEARNER (30 hours (20 T +10 P))

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To develop an understanding of the concept, principles and theories of Growth and development. To familiarise the different aspects of development and developmental tasks and developmental hazards To understand the developmental characteristics of Childhood and Adolescence. To critically evaluate the contributions of various theories 	 Growth and Development: Concept and Principles, Developmental tasks and Developmental hazards Theories of development- Piaget's theory of Intellectual development, Erickson's theory of Psycho social development and Kohlberg's theory of Moral development Developmental characteristics with special reference to childhood and adolescence Physical and motor development Cognitive development Language development(Noam Chomsky, Vygotsky) 	Group discussion to compare the characteristics of childhood and adolescence Seminars on the highlights of various theories Lecturing Child study	 Reflective practices Performance in group discussions Assignments Seminar presentation Test paper Child study reports Communicative skills Self study reports

of development	■ Emotional development	Application of	
5. To conceptualise the role of teacher in facilitating	Moral& social development-Role of teacher in fostering development of	different methods for understanding	
development of the learner	the learner.	adolescent problems	
		Analysis of theory and its application in	
		different contexts	

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- Penuington, D, et.al (2010) Advanced Psychology: Child Development, Perspectives and Methods, London: Hodder & Stoughton

Unit Iii: Learner Differences in Intelligence and Creativity (25 Hours (17 T+8 P))

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1. To conceptualise the individual	Meaning and nature of intelligence	Lectures	Practical work
difference among the learners on the basis of intelligence and creativity 2. To develop an understanding of the concept, nature and various theories of intelligence 3. To understand the meaning, nature, process of creativity development and the strategies for fostering	 Theories of Intelligence – two factor, group factor, multi factor, Guilford's structure of intellect model - Multiple intelligence etc. Measurement of Intelligence –verbal, nonverbal and performance tests Emotional intelligence, Social Intelligence, Spiritual Intelligence- Meaning and Scope Creativity- meaning and nature - 	Group discussion Administer any one intelligence test and familiarize the procedure. Prepare activities based on the multiple	 Assignments Seminar presentation Test paper Performance based assessment

4.	creativity. To familiarise the measurement of intelligence and creativity	Identification of Creative Learner - Process of Creativity, measurement of creativity, Teacher's role in fostering Creativity.	intelligence theory Prepare sample items	
	interrigence and creativity	reacher's fole in fostering Creativity.	for verbal creativity tests (minimum 4 items)	
			Develop an activity to foster creativity in the classroom	
			Design of Strategies for promoting emotional, social and	
			spiritual intelligence among students	

- Dwyer, D. &Scampion, J (1995): Psychology A- Level: Great Britian: Mcmillan.
- Barochisky, G.B Poeytes Book (1984)Intelligence Procedures in Psychology, Philadelphia
- Gates, A.S and Jersild, A.T (1970) Educational Psychology, New York: Macmillian
- Teele, Sue (2000), Rainbow of Intelligence: Exploring how students Learn, California: Corwin Press Inc.

Unit IV Personality Of The Learner (20 Hours (13t+ 7 P))

	Learning Outcome		Major concepts	Strategies & Approaches		Assessment
1	. To conceptualise the individual	•	Concept of Personality- role of heredity and	Lectures	•	Reflective practices
	difference among the learners on		environment,	Coso study of unique	•	Assignments
	the basis of Personality	•	Approaches to study personality - Psycho	Case study of unique	•	Seminar presentation

 2. To develop an understanding of the concept of adjustment 3. To understand the factors causing maladjustment 4. To familiarise the personality tests 5. To conceptualise mental health and mental hygiene analytic theory (Freud), - Type theory, Trait Theory (Allport) Characteristics of mature personality. Assessment of personality- techniques and methods- projective techniques Adjustment and Maladjustment, Adjustment mechanisms. 	personalities Group discussion to identify the characteristics of mature personality Administer any one personality test and familiarize the procedure Conduct a discussion on teacher's role in identifying and managing maladjusted learner Discussion on mental health programmes 7. Action research on adjustment patterns
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- Allport, G.W (1937) Personality: A Psychological Interpretation Hentry Holt & Co. NewYork.
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- Dunn,R.,&Dunn,K.(1978). Teaching students through their individual learning styles. Reston,V.A.: Reston Publishing Company,Inc.
- Duric, L (1990)Educational Psychology New Delhi : Sterling Publishers.
- Elliott, A.J (1981) Child Language Cambridge University Press
- Entwistle, N.J. (1981). Styles of learning and teaching. New York: John Wiley.
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- Musser, P.H, Conger, S and Kagar, P (1964) Child Development and Personality, New York: Harper Row
- Nisha, Maimun (2006); Milestones of Child Development; New Delhi: Kalpaz Publications
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- Skinner .E.C(2003) Educational Psychology, New Delhi, Prentice Hall of India Pvt.Ltd.
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- Wolman, P.B (Ed) (1982) Hand Book of Developmental Psychology Prentice Hall: Engle Wood Cliffs, New Jersey

Websites

• http://www.libraries.psu.edu/ http://www.teacher.net

• http://teamwork.sg/teamwork/schoolportal.aspx http://www.enhancelearning.co.in/SitePages/Index.aspx

EDU - 03 : TECHNOLOGY & COMMUNICATION IN EDUCATION

(Theory 60 hours+ Practical 30 hours)

Objectives

- To develop an understanding of the concepts in educational technology and communication.
- To empower prospective teachers through the blending of technological aspects with pedagogical principles.
- To acquaint the prospective teachers with the application and use of e-resources, free and open source software.
- To explore the creative avenues in technological advancements for improving the teaching learning process.
- To familiarize with the concept of teacher as a Techno pedagogue.
- To create an awareness regarding teacher as a content creator.
- To explore creative avenues for enriching classroom teaching learning process
- To create a zinc with man, machine and material with regard to technological resources

Contents:

Unit I : Introduction to Educational Technology (Theory 20hours & Practical 2 hours)

Unit II : Communication Technology (Theory 10 hours)

Unit III : ICT in Education (Theory 20 hours & Practical 25 hours)
Unit IV : Students Safety on the net (Theory 10 hours & Practical 3 hours)

UNIT I: INTRODUCTION TO EDUCATIONAL TECHNOLOGY (THEORY 20 HOURS & PRACTICAL 2 HOURS)

	Learning Outcome		Major concepts	Strategies & Approaches		Assessment
A.	Educational Technology					
1.	To provide a smooth entry into the field of educational technology	•	Educational technology-concept, objectives and scope.	Narrative session	•	Evaluation based on documentation
2.	To differentiate between teaching and instructional technology	•	Difference between technology in education (Instructional technology) and technology of education (teaching technology)	Direct instruction Verbal interaction	•	Participant observation

3.	To set a perspective on different approaches of technology	•	Approaches of educational technology – Hardware Software and Systems approach	Interactive session Meaningful verbal expression	•	Evaluating the level of participation
4.	To familiarize with various agencies and services in the in the field of educational technology	•	Resource centres and services in educational technology CIET (NCERT) SIET EMMRC UGC-CEC C-DIT EDUSAT NME-ICT NPTEL IT@SCHOOL VICTERS CHANNEL AKSHAYA PROJECT GYAN DARSAN INFLIBNET	Viewing programmes Class discussion Class seminar Assignment	•	Assessing students report Participation in the seminar Evaluating the assignments
В.	Media in Education					
1.	Creating awareness provision for effective use of aids in teaching and learning	•	Print media- Newspapers Books Journals Magazines	Group discussion Small group session	•	Participation in group discussion Role performance analysis
2.	To realize the relevance of mass media in education	•	Non print media- mass media(radio, T.V., Films in education)	Group discussion General discussion Seminar	•	Participation in group discussion Presentation skill
3.	Develops the ability to choose the most suitable learning aid while preparing the teaching lesson	•	A-V aids: definition, types audio aids visual aids A-V aids.	Group discussion Narrative expression Seminar	•	On task behaviour in class Participation in group Presentation skill

4. To differentiate between multimedia and multisensory approach	Meaning & concept of Multimedia and Multi sensory approach-	Meaningful verbal expression	Participatory behaviour
5. To familiarize with the classification of A-V aids	Dales cone of experience	Meaningful verbal expression	Participation in class activity
6. To familiarize with teleconferencing and its application in classroom	Teleconferencing:AudioVideo	Techno-lab activity Demonstration Meaningful verbal expression	 Participation in the learning process Involvement in class activity
7. To familiarize with the latest educational technology equipment	Interactive white board- uses & advantages over normal chalk board	Demonstration	• Participation
8. Develop skill in using interactive white boards		Hands on experience	Skill assessment
9. To familiarize with the strategy for digital education in classrooms	Smart Classrooms	Class discussion	Participation in the class activity

Unit II. Communication Technology (Theory 10 hours)

	Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1. 2.	To introduce the concept of communication To familiarize with the various types of communication	Communication-: concept, scope types – verbal, non verbal. Style purpose- face to face, formal and informal, one way- two way.	Group discussion Documentation	Role performance analysis in group discussionEvaluation of documentation
3.	To identify different components of classroom communication	Communication cycle- components of classroom communication	Group discussion Preparing an assignment	Role performance assessment in group discussionExamine the assignment
4.5.	an effective classroom communicator.	 Classroom as a communication system: components of effective classroom communication 	Meaningful verbal expression Group discussion	Role performance analysis

classroom teaching			
6. Acquaint with the FIACS	Classroom Interaction Analysis –	Hands on experience	Assessing the skill development
7. Develops skill in matrix	• FIACS		
construction.	metric construction and interpretation		Mid Sem Exam
8. To develop the ability to interpret	1	Individual practice	
the matrix and to explain the			
nature of the classroom			
interaction			

UNIT III: ICT IN EDUCATION (THEORY 20 HOURS & PRACTICAL 25 HOURS)

	Learning Outcome		Major concepts	Strategies & Approaches	Assessment
A.	Introduction to ICT in education				
1.	To familiarize with the role of ICT in education	• Concep	t and importance of ICT in education	Verbal expression General discussion Assignment	Evaluation based on documentation
2.	To explore applications of ICT in various field of education		ion	Group discussion	Role performance analysis
3.	To familiarize with advancements in world wide web	• Trends Web 1.0 Web 2.0 Web 3.0	0.	Collaborative interaction	Level of participation in group activity
4.	To understand the role to teacher in a digital era		r in a digital era: ng roles and competencies	Meaningful verbal expression Active learning activities Brain storming	Assimilating the materialsMonitoring participation and performance

I. Acquaint with various concepts in ICT and its applications in the classroom teaching learning	 Concept, meaning and merits of: Computer Assisted Instruction (CAI) Computer Managed Instruction (CMI) 	Meaningful verbal expression	Participation in class activityObservationObservation
process	Computer Mediated Communication (CMC) in Education	Practical sessions	On task behaviour
	Computer simulationBlended learningEducational podcast	Demonstrations	
	m-learningWeb- based learningCloud computing.	Techno lab activities Online resources Multimedia modes	
2. To familiarize with the web resources	 Web services: e-mail chat online forums blog wiki e-library 	Demonstration Online resources Hands on experience Techno lab activities	 Participation in activities Skill development On task behaviour
3. To develop the ability to use the web resources	Academic web resources :e-journalsonline dictionary	Online resources Demonstration	
To familiarize with various free software's applicable in classroom	 Familiarizing free educational software: Tellurium Kalzium 	Demonstration Techno lab activities Hands on experience	 Performance assessment in techno lab activities On task behaviour
. To develop skill in using software's for enriching classroom activity	Tupic 2 D MagicG-ComprisGeogebra.	Peer group instruction	
o. To explore creative avenues of ICT in education	 e-learning –concept, types –synchronous and asynchronous- merits and demerits: Learning Management Systems. 	Meaningful verbal expression Discussion	Participation in the classroom activity

		• Learning Object Repository(LOR)	Reflective sessions	Role performance analysis
			Online resources	
7.	To familiarize with content	• e-content features- concept and scope.	Narrative sessions	Participation in class activity
	development process and platforms available	• e-content development initiatives in India : NME-ICT, UGC-CEC	Reflective practices	On task behaviour
			Online resources	
8.	To get acquaint with the concept of	• Virtual tools :	Demonstration	Participation in activity
	virtual learning environment	 Virtual learning Environment 		
		• Virtual Labs		
	TD 6 11: 1 14 4 1	• Web applications for development of tests:	Discussion	
9.	To familiarize with the tools available for creation of tests	Hot potatoesOnline quiz maker	Techno lab activity	

Unit IV. Students Safety on the net (Theory 10hours & Practical 3 hours)

	Learning Outcome		Major concepts	Strategies & Approaches		Assessment
1.	To familiarize with computer safety on the net	•	Computer virus- (malwares, spywares, trojan)- preventive measures- (Firewall, antivirus software)	Introductory lecture Techno lab activities Peer tutoring	•	Performance in techno lab activities
2.	To create an awareness about personal safety on the net	•	Cyber privacy and password protection	Demonstration Hands on experience Techno lab activities Peer tutoring	•	Participant observation Skill assessment Performance assessment
3.	To familiarize with the legal and ethical issues	•	Legal and ethical issues- Copyright, Plagiarism, Hacking, Netiquette, Phishing, Software privacy	e- resource demonstration	•	Participant observation Performance in classroom discussion
4.	To develop a sense of intellectual property right			Group discussion		

5. To know about cyber laws	Cyber law- IT Act 2000, IT Act 2008.	Class discussion Printed media such as newspapers and magazines Home assignment	 Participation in class discussion Locating resources related to content Evaluating the assignment
6. To practice wise use of web resources	 Role of teacher in conscientizing about Child abuse over the net Misuse of internet (morphing, pornography) Health hazards of using computer 	Internet based activities Techno lab activities Peer tutoring Individual assignment	 Skill development assessment Participation in lab activities Evaluating assignments

Suggested Readings

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- Aimee M.Bissonett, J.D.(2009). Cyber Law- Maximising Safety and Minimising risk in classrooms. New Delhi: SAGE Publications India Pvt. Ltd.
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Web Resources

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- www.slideshare.net/pria87/audio-visual-aids
- www.tecweb.org/eddevel/edtech/teleconf.html
- www.slideshare.net/diputr/fiacs-flanders-interaction
- https://moodle.org/
- www.ehow.com/list_7640133_legal-ethical-issues-technology.html
- www.rogerdarlington.co.uk/Internetethics.html
- www.thefreedictionary.com/computer+simulation
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- www.e-learningconsulting.com/consulting/what/e-learning.html
- www.cemca.org/e-learning_guidebook.pdf

EDU- 04.1 : THEORETICAL BASE OF MALAYALAM EDUCATION.

(Theoretical Discourses – 60 hours & CE – 30 hours)

Objectives:

- To get familiarized with the functional plane of teaching and learning and the divergent roles expected to be played as a teacher
- To understand the importance, nature and functions of Mother tongue
- To get accustomed with the evolution of Malayalam language
- To understand the relation between Malayalam and other language.
- To find out the relation between language and culture.
- To get familiarized with the aims and objectives of teaching Malayalam, Taxonomy of educational objectives etc.
- To understand the Methods, approaches, strategies, modern educational theories and concepts of teaching Malayalam language and literature

Contents:

Unit - 1 : Introduction to teaching and Learning Unit - 2 : Nature and Development of Malayalam Unit - 3 : Aims and Objectives of Teaching Malayalam -

Unit – 4 : Methods and Strategies in Malayalam Teaching; Traditional and Modern –

Unit – 5 : New Educational Theories and Concepts –

UNIT 1: INTRODUCTION TO TEACHING AND LEARNING

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1. To get familiarized with the			
functional plane of teaching	Inter dependence of teaching and		
and learning and the divergent	learning- class room, teacher, learner, teaching		
roles expected to be played as	learning process,		
a teacher	Learning Environment, Learning		
	activities, Learning Styles, Learning aids	Group discussion	

 Group activities, Grouping techniques Definition of learning from different point of view 	Assignment	Assignment Paper presentation
 Maxims of teaching Teacher competencies and roles - mentor, facilitator, reflective practitioner, scaffolder, Social Engineer Language Teacher Principles of teaching language 	Seminar film show of Educational films Appreciation sessions based on educational books like Toto Chan, Divaswapna, Teacher, Parivarthanonmugha Vidhyaabyasam, Vidyabyaasathil Viplavam etc.	Participatory Discussions

UNIT 2: NATURE AND DEVELOPMENT OF MALAYALAM

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To understand the importance, nature and functions of Mother tongue To get familiarized with the evolution of Malayalam language To understand the relation between Malayalam and other language. To find out the relation between language and culture. 	 Functions of Language Impact of language on social, intellectual, cultural, educational development Importance of Mother tongue - Mahatma Gandhi's vision on the importance of Mother tongue, Mother tongue and medium of instruction Malayalam as an official language Mother tongue as a tool for preservation, transmission and transformation of culture 	Assignments Debates Seminar/Symposium	 Assignment Paper, Seminar presentation Test Participation in Debate & Symposium

UNIT 3 AIMS AND OBJECTIVES OF TEACHING MALAYALAM

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
To get familiarized with the aims and objectives of teaching Malayalam, Taxonomy of educational objectives etc.	 Aims and Objectives of teaching Malayalam at different levels of schooling with special emphasis to secondary and Higher secondary levels Curricular objectives of Secondary and Higher Secondary classes Taxonomy of Educational objectives – Benjamin Bloom 	Debate on recent changes practiced in the state schools Discussion on the relevance of Blooms Taxonomy	The extent of participation in debate/discussion etc.

UNIT 4 METHODS AND STRATEGIES IN MALAYALAM TEACHING; TRADITIONAL AND MODERN

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
To understand the Methods, approaches, strategies, modern educational theories and concepts of teaching Malayalam language and literature	 Lecture method Project method Play way method Dramatisation Dalton Plan Inductive and deductive methods Role play and simulation Problem solving method New Educational Theories and Concepts Cognitive Constructivism – Piaget and Bruner Social Constructivism – Vygotsky 	Project Short essay Open discussion Comparative note Action research Seminar on the significance of new educational theories Assignment Preparation of	 Project paper Essay Participation in discussion Action research findings Seminar paper and performance Assignment paper Prepared notes

•	Multiple Intelligence Theory	Comparative notes on	
•	Emotional Intelligence Theory	new theories with the	
•	Critical Pedagogy - Paulo Freire	help of reference	
•	Meta Cognition	books	
•	Integration of new theories and concepts in		
	teaching Malayalam		

EDU – 05. 1 : PEDAGOGIC CONTENT KNOWLEDGE ANALYSIS : MALAYALAM.

(Theoretical Discourses – 60 hours & CE – 30 hours)

Objectives:

- To get familiarized with the theory and practice of different language discourses
- To get familiarized with the theory and practice of different language discourses
- To get acquainted with the integration of new theories and concepts
- To get acquainted with the integration of new theories and concepts
- To understand, practice and master basic language skills communication skills etc.
- To understand the importance of resource materials for teaching and learning like text book, work book, hand book, dictionary etc.

Contents:

Unit – 1 : Introduction to Pedagogic Content Knowledge analysis -

Unit - 2 : Discourse Oriented Pedagogy

Unit - 3 : Essential Requirements of Teaching Malayalam,
 Unit - 4 : Acquisition Language Skills and Micro teaching
 Unit - 5 : Resources in Teaching and Learning of Malayalam

Unit 1: Introduction to Pedagogic Content Knowledge analysis

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To understand the meaning and practice pedagogic content knowledge analysis To get familiarized with the theory and practice of different language discourses 	 Meaning, features, and principles of pedagogic content knowledge analysis Pedagogic content knowledge analysis of Secondary and Higher Secondary level text books Discourse Oriented Pedagogy Importance of discourse in language learning and teaching The salient features of Discourse Oriented Pedagogy Functions of: Debate, Drama Seminars, Discussions, Conversations, Diary, Posters, Narratives, Screen Play, Editorials, and Travelogues etc. Process of constructing discourses 	Preparation of a comparative description on pedagogic content knowledge analysis of secondary/higher secondary level text books Preparation of discourse oriented activities for high school classes Discussion on the suitability and adaptability of discourse oriented pedagogy Preparation of discourse like narratives/ travelogues/ editorials/ posters etc.	 Student's works Prepared activities Active Participation in discussion Written documents

UNIT 2: PLANNING AND DESIGNING OF LESSON TEMPLATES

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To understand the need and significance of instructional planning To get acquainted with the integration of new theories and concepts 	 Need and significance Year Plan, Unit Plan, Lesson Plan Incorporation of new theories (MI theory, Constructivism, Critical pedagogy, Emotional Intelligence etc.) in the preparation of Year Plan/Unit Plan/ Lesson Plan Absorption of the concept 'Entrepreneurship' in instructional planning Teaching of Prose, Poetry, Grammar and Composition – scope, goals, selection, methods, approaches, different forms/types 	Preparation of year plan/unit plan etc. Workshop on developing entrepreneurship in HS/HSS students through teaching Malayalam	 Innovations in planning year plan/unit plan etc. Originality of ideas/practices In the workshop Practical sessions in the classrooms Appreciation sessions

UNIT 3: ESSENTIAL REQUIREMENTS OF TEACHING MALAYALAM

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1. To understand, practice and master	Acquisition Language Skills and Micro	Preparation of a test	 Appropriateness of
basic language skills,	teaching	for HS/HSS students	Practicum
2. Communication skills etc.	• Scope and application of basic language skills (Listening, Speaking, Reading and writing.) in different levels of schooling with special emphasis to Secondary and Higher Secondary levels	to find out the common errors in reading and writing Malayalam	 Effectiveness of the test Participation of students Suitability of prepared lessons

 Common errors in reading, writing and pronouncing Malayalam. Errors in sentence construction The notion of 'EDITING' instead of 'CORRECTION' Communication Skills Micro Teaching Development of teaching skills through 	Familiarization of books on good Malayalam usage like Thettillattha Malayalam etc. Practice sessions on	 Performance assessment by peers Appropriateness of presentations
 micro teaching Definition and Mechanics Micro Teaching cycle Core Skills Introduction- Illustrating with examples Explaining- Questioning Stimulus Variation- Reinforcement Using Blackboard- Using teaching aids Reading -Recitation 	development of communication skills Preparation of lessons based on core skills Familiarization of assessment criteria Practice sessions of major teaching skills	

Unit 4 Resources in Teaching and Learning of Malayalam

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1. To understand the importance of	• Text Book:	Text book review	Comprehensiveness
resource materials for teaching and	3	Tagt nanar	Student Participation
learning like text book, work book,	 Resource Units and Workbooks 	Test paper	Versatility
hand book, dictionary etc.	• Teacher's Handbook.	Organization of a	
	• Periodicals, handouts, books etc.	reading corner in	
	• Dictionaries, Thesaurus, Encyclopedias		

	class room	
	Preparation of audio	
	lessons	

Referrences: for all Semesters.

Prof. MK Prasad

Bhashapadanavum Bhodhana shaastravum Bhashapadanavum Sidhaanthangalum

Divaswapna

Engane Malaya lattil Blogam

Gadyarachana Gadyashilpam Kerala Panineeyam

Kuttikale Padanathil Sahayik kam

MalayalaBhashaBodhanam MalayalaBhashadyapanam MalayalaKavithapadhanamgal MalayalaSahithyaCharithram MalayalaSahithyaCharithram MalayalaSahithyaNiroopanam MalayalaSahithyaVimarshanam

Mathrubhashabhodhanam:

Micro teaching

Mumbilulla Jeevitham

Nalla Malayalam NammudeBhasha

Padyapadhathi sidhaantham

Kerala Shaasthrasaahitya Parishad

Dr.SreeVrinda Nair N Dr.SreeVrinda Nair N GijubhaiBhadeka Baburaj PM

Dr.CK Chandrasekharan Nair CV VasudevaBhattathiri

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National Book Trust DC Books, Kottayam

Kerala Bhasha Institute Kerala Bhasha Institute

DC Books, Kottayam DC Books, Kottayam

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Calicut University
Mathrubhoomi Books
Kerala Bhasha Institute
Sahithya Academy

Current Books, Kottayam DC Books, Kottayam

Adison Wesley, London DC Books, Kottayam DC Books, Kottayam Kerala Bhasha Institute Kerala Bhasha Institute ParivarthanonmughaVidhyabhyabyasam

PravanathakalumReethikalum.

PrayogikaVyakaranam

PurogamanaVidyabhyaasachinthakal

Thettillatta Malayalam

TirakkadhaRachana - KalayumSidhanthvum

Toto Chan

ShaasthrasaahityaParishad

Tuition to Intuition Ucharanamnannavan VidhyabhyasathilViplavam Vidyabhyasachinthakal

VidyabhyasaParivarthanattinoruAmugham

VyakaranaMitham

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Bindhu,C.M Irinjayam Ravi PV Purushothaman

Prof. PanmanaRamachandran Nair

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Dr. KN Anandan

Dr.VRPrabodhachandran

Osho

AsisTharuvana

SheshsgiriPrabhu

NarayanaGurukulam, Varkala Scorpio, Calicut

Kerala ShaasthrasaahityaParishad

DC Books, Kottayam Current Books, Kottayam National Book Trust, Kerala

Transcend, Malappuram Kerala Bhasha Institute Silence, Kozhikkode Olive, Kozhikkode

Kerala ShaasthrasaahityaParishad

Online Resources

http://ml.wikipedia.org

https://www.facebook.com/groups/144983732246185

https://www.facebook.com/groups/paribhasha

http://www.keralasahityaakademi.org/

http://malayalambloghelp.blogspot.com/ http://www.topsite.com/best/malayalam

http://malayalam.kerala.gov.in/index.php

http://malayalaaikyavedi.blogspot.in/2015/04/blog-post_61.html

http://www.facebook.com/pages/മലയാളപഠനബോധന-സഹായി/628705850559130?ref=hl

http://bloghelpline.cyberjalakam.com/

http://blogsahavi.blogspot.in/

EDU – 04.2 : THEORETICAL BASE OF ENGLISH EDUCATION.

(Theoretical Discourses – 60 hours & CE – 30 hours)

Objectives:

The student teacher:

- Familiarizes with the nature and purpose of language teaching.
- Grasps problems related to learning a Second Language.
- Draws implications of different theories of learning for
- Second Language instruction.
- Gets an awareness of Approaches, Methods and Instructional Strategies for
- teaching English.

Contents

Unit 1:General Introduction to English Language Teaching and Learning

Unit 2:Nature and Development of English Language

Unit 3:Aims and Objectives of Teaching English

Unit 4: Methods and Strategies of Teaching English

Unit 1: General Introduction to English Language Teaching and Learning (Duration: 25 hrs)

	Learning Outcome		Major concepts	Strategies & Approaches		Assessment
1.	Student teacher familiarizes with	•	Perspectives of English Studies	Intro lectures on ELT	•	Contribution in debate on need
	functional plane of teaching and		-Significance in the Global context	in India		of English as an International
2.	learning and the divergent roles expected to be played as Language Teacher Grasps the current status of English in India and its	•	-World Englishes -English as a skill subject Teaching ESL, EFL, First Language [L ₁] and Second Language [L ₂] -Bilingualism -Code switching	Makes student recall qualities of teachers whom they admire/ remember	•	Language Performance in classroom discussions regarding teacher role Entry recorded in Reflective
		•	Teaching of English in India	Narration, anecdotes		

importance	 Three Language Formulae – Mother tongue Interference English as a Link Language Language teacher competencies-Roles and Responsibilities of English Teacher-mentor, facilitator, scaffolder, reflective practitioner 	of lives of teachers who served as role models Views films related to teachers/ teaching Reads stories about lives of great teachers Web-based resources	journal
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Unit 2: Nature and Development of English Language (20 hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
Gathers knowledge about meaning, nature and characteristics of language and select theories of language teaching and learning	 Language and culture, Language and society, Language and media(print and digital) Basic concepts in Linguistics- Morphology, Phonology, Syntax, Semantics Psycho-linguistic Theories Behaviourism- imitation, repetition, reinforcement Cognitivism -Schema Constructivism-ZPD-Scaffolding, Mental Processes Chomsky-LAD-Universal Grammar Krashen's Hypotheses Multiple Intelligence Neurolinguistic Programming 	Brain storming Seminar Presentations Quiz Peer Tutorial Discussion Invited Talks	 Examine level of participation Role performance analysis Evaluation based on documentation

Unit 3: Aims and Objectives of Teaching English (20 hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
Develops an understanding of the principles of language teaching	 Utilitarian aim, Socio-cultural aims Objectives of Teaching English Principles of Language Learning Ideology of teaching English in Indian classrooms; Addressing learner sensibilities and learner abilities in language learning; Developing communicative competence 	Brain storming Quiz Discussion Assigned readings from the works of theorists Group discussion	 Examine level of participation Evaluation based on documentation Examine student report Address the level of pupil involvement in Group Discussion

Unit 4:Methods and Strategies of Teaching English (25 hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 Familiarizes with traditional approaches and methods of language teaching Updates Knowledge of current approaches and methods Develops the ability to choose the most suitable method for a given content or group of learners 	 Approach, Method, Technique Grammar Trans. Meth, Bilingual Meth, Direct Meth. Audio-lingual Meth, SOS Approach, Communicative Approach Humanistic approaches—TPR, Silent Way, CLL, Suggestopaedia Task Based Language Teaching 	Demonstration of steps followed in different methods Watching video recordings - Accessing Online input on the topic Co-relating class room activities	 Evaluate the competence to compare and contrast Monitor the ability to distinguish between similar concepts, phases

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- Doff, Adrian. (2008) Teach English: A Training Course for Teachers Cambridge University Press.
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- Wallace, Michael J. (2006) Study Skills in English. Cambridge University Press.
- Current Perspectives in Teaching the Four Skills: by ELI HINKEL Seattle University Seattle, Washington, United States TESOL QUARTERLY P 110-131

Online resources:

- Activities for developing skills http://www.teachingexpertise.com/articles/activities-for-developing-skills-1106
- Current trends in Teaching Listening and Speaking by Jack. C. Richards www.oup.com/elt
- Learning Brain-based way http://languagelab.com.sg/faq.php
- The Essentials of Language Teaching http://www.nclrc.org/essentials/index.htm
- Teaching English to Speakers of Other Languages by M.S. Thirumalai. http://www.languageinindia.com/april2002/tesolbook.html
- Task-Based Language Teaching and Learning: An Overview http://www.asian-efl-journal.com/Sept 06 ro.php
- BBC World Service: Learning English http://www.bbc.co.uk/worldservice/learningenglish/index.shtml
- Dave Sperling's ESL Café http://www.eslcafe.com/
 - FRET (Free Resources for English Teaching) http://www.english-teaching.co.uk/
 - Web English Teacher http://www.webenglishteacher.com/

EDU. 05.2 : PEDAGOGIC CONTENT KNOWLEDGE ANALYSIS: ENGLISH

(Theoretical Discourses – 60 hours & CE – 30 hours)

Objectives:

The student teacher:

- Familiarizes with the different dimensions of Pedagogic Content Knowledge.
- Develops an understanding of objectives and specifications for teaching English as a Second Language.
- Familiarizes the procedure and steps for planning different kinds of lesson.
- Analyzes Secondary Course Books and identifies suitable strategies for transacting content.
- Explores ways of designing appropriate learning aids.
- Identifies suitable strategies for assessment.

Contents:

Unit I : Introduction to Pedagogic Content Knowledge (PCK)

Unit II : Planning and Designing of Lesson Templates

Unit III : Essential Requirements for Teaching of English

Unit IV : Resources in Teaching and Learning of English

Unit 1: Introduction to Pedagogic Content Knowledge (PCK) (25 hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1. Develops an understanding of	Pedagogic Analysis	Direct instruction	Participation in task.
pedagogy and its principles 2. Familiarizes with Taxonomy of Educational Objectives	Scope, Principles and ObjectivesPedagogic Content KnowledgeScope in teaching and learning	Engaging in Group discussion	Peer assessment of presentations
3. Develops an understanding of	Objective-based Instruction	Individual and	

types of thinking	Bloom's Taxonomy: Specifications,	collaborative tasks	
4. Familiarizes with the nature of a Course Book	 Process skills & Thinking Skills (Critical and Creative), Problem Solving Content Analysis of State, CBSE and ICSE Syllabus - Themes, Language elements, Sequencing of content, Deficiency in content Discourses- slogans, placards, notices, reports, diary entry, messages -script of a speech, letter, posters, advertisement, write up, conversation, profile etc. 	Critique of different Course Books	

Unit 2: Planning and design of lesson templates (25 hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 Familiarizes the procedure and steps for planning different kinds of lesson. Analyzes Secondary Course Books and identifies suitable strategies for transacting content. 	 Planning- Relevance, mode and Design-Year Plan-Unit Plan - Lesson Templates Components and Strategies for teaching: Prose- Intensive and Extensive reading; Skimming and Scanning, Silent and Oral reading, Pre-reading and Post-reading Poetry- Appreciation, Deviant language of Poetry Grammar- Formal and Functional, Inductive and Deductive methods, Use of Substitution Tables Vocabulary - Content and Function words, Active and passive vocabulary, Techniques and Strategies for enriching vocabulary 	Workshop mode to identify Objectives, Specifications and appropriate testing mechanisms Critiquing Syllabus Grids in Course Books Intro. lectures on thinking skills Demo. by expert Preparation of Group Lesson Plan/Teaching Manual	 Ability to develop suitable Lesson Plan/ Teaching Manual for different content Phased monitoring Performance in Workshop Checking ability to frame appropriate Objectives and Specifications

Practice under	
supervised guidance.	
Task-directed	
discussion and	
Applied exercises	

Unit 3: Essential requirements for teaching of English

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
Familiarizes with different teaching skills	 Analysis and Practice of Language Skills-LSRW-Identification and Practice of Language Elements structure, vocabulary etc. Core Skills of Teaching-Introduction Illustrating with examples Explaining Questioning Stimulus Variation Reinforcement Using Blackboard Using teaching aids Response Management-Classroom Management Reading -Recitation ICT skills Micro Teaching-Concept, Phases and Cycle 	Peer observation using Schedule Videography for reflection Supervised guidance	Use of Observation schedule Reflection write- up submitted following viewing of video recording of own teaching

Unit 4: Resources in teaching and learning of English (20 hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1. Familiarizes with ways of	Teaching aids- design and development	Display of specimen	Peer comment
employing different aids for teaching different content	Learning support resourcesPictures	aids	Guided supervision
2. Explores ways of designing appropriate learning aids.	 Charts Flash Card Models News paper and Journals -Documentary Audio-Video Clips Interactive Board LCD Projector Internet Language Lab 	Guidance for preparation of aids for different content in workshop mode	

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- Wajnryb, Ruth. Classroom Observation Tasks. Cambridge University Press.

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- Classroom Management: http://www.teachingideas.co.uk/more/management/contents.htm, http://www.educationworld.com/a curr/curr155.shtml
- Language skills: http://www.apsacssectt.edu.pk/download%20material/training%20deptt/workshop%20material/four_skills_of_language.pdf
- Learning Support Centres in Higher Education (LSCHE): http://www.lsche.net/?page id=608
- Microteaching: https://uwaterloo.ca/centre-for-teaching-excellence/support-graduate-students/fundamentals-university-teaching/microteaching-details
- Pedagogical Content Knowledge: http://mkoehler.educ.msu.edu/tpack/pedagogical-content-knowledge-pck/
- Resource Mapping: file:///C:/Users/Reliance/Downloads/ResourceMappingExampleWisconsin.pdf
- Structure (function) words versus content words: http://homepage.ntlworld.com/vivian.c/Words/ContentStructure.htm

EDU - 04.3: THEORETICAL BASE OF HINDI EDUCATION

HOURS OF INTERACTIONS: 60 (Instructions) + 30(Activities/Processes) = 90 Hrs

Objectives

- To mould the prospective teacher with an outlook of teaching profession
- To equip the prospective teacher to uphold the professional spirit in diverse angles
- To familiarize with the features of Hindi education, its aim, objectives and different
- instructional methods and techniques suited for teaching Hindi
- To acquire effective instructional practices of Hindi education
- Draws implications of different theories of learning Hindi

CONTENTS

Unit 1 : General Introduction to Hindi Teaching and Learning

Unit 2 : Nature and Development of Hindi Language
Unit 3 : Aims and Objectives of Teaching Hindi
Unit 4 : Methods and Strategies of Teaching Hindi

Unit: 1 General Introduction to Hindi Teaching and Learning (12 Hrs + 6Hrs)

	Learning Outcome		Major concepts		Strategies & Approaches		Assessment	
1.	Student teachers acquaint with the	•	Importance of language – Definition –	Mea	aningful verbal	•	Case analysis presentation	
	importance and bases of language		Philosophical, Psychological, Sociological	pres	sentation	•	Contribution in debate on	
2.	Grasp the process of teaching-		bases of languageLanguage and human,	Bra	in storming		qualities of teacher and Hindi as	
	learning and gain an outlook of		language and society, language and gender,	Mal	kes student recall		second language	
	teaching profession		Universal Grammar—Noam Chomsky,	qua	lities of teachers	•	Performance in classroom	
3.	Analyze learning environment for		Neuro- linguistic programming, Importance	who	om they admire		discussions	
	Hindi instruction		of Hindi language, Hindi language and its	Nar	ration, anecdotes			
			practice	of l	ives of teachers			

4. Adapt the changing structure of	Τ.	Tanahing and learning Definition Tanahing	who served as role	
	•	Teaching and learning-Definition-Teaching		
the concept of classroom		profession and service, Principles and	models	
instruction		Maxims of teaching Factors determine	Views films related	
		effective instruction, Classroom Interactions:	to teachers	
		Teacher-pupil, Pupil-pupil, Pupil- society,		
		Pupil-learning resources, learning		
		experience, Interdependence of teaching-		
		learning, Teaching-learning process		
	•	Continuing Professional Development		
		(CPD): Teacher as professional Duties and		
		responsibilities; various roles: knowledge		
		worker, facilitator, scaffolder, mentor, social		
		engineer, counselor, techno pedagogue,		
		reflective practitioner		
	•	Problems and difficulties confronted by		
		teachers and learners in Hindi instruction		
	•	Learning environment		
	•	Class room as a social laboratory, Classroom		
		without walls(CWW),Blending of		
		synchronous and asynchronous mode of		
		•		
		learning, Virtual learning environment(VLE)		

Unit: 2 Nature and Development of Hindi Language (10 Hrs + 7 Hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 Familiarize with the unique features of Hindi language Compete with communicating Hindi Familiarize with different reports and commissions Understand the scope, changes and developments of Hindi education Equip to integrate essential inter disciplinary attributes in Hindi education 	 Special features and characteristics of Hindi language and its script Devanagiri lipi in standardized form(MANAK LIPI)—Hindi as national, official and link language Developing communicative competence Three language formula, Reports and commissions— Kothari commission, NPE 1986, NCF 2005, KCF2007, POA 1992 Hindi in national integration, values attained through Hindi education Spread of Hindi in Kerala: Pre independence and post independence period, Scope and job opportunities in learning Hindi, Recent changes and developments of Hindi education in Kerala, Support of media in the development of Hindi in the context of Kerala Hindi education: Meaning, Definitions and Nature Modernization of Hindi instruction through technological advancement Interdisciplinary approach in Hindi Education: Correlation of Hindi education with other subjects – Science, Social Science and other languages like Malayalam, English and Sanskrit 	Discussion Meaningful verbal learning Participatory Approach Open forum discussion Co- operative learning Use of web and Library resources	 Address the level of involvement in group discussions Assessment of MANAKLIPI Assessment of assignments, projects, seminars Prepare a brief sketch of NCF and KCF with special reference to language education

UNIT: 3 Aims and objectives of Teaching Hindi (18 Hrs + 7 Hrs)

Hindi Endow with the significance of taxonomy of instructional objectives in Hindi education Familiarize with varied psychological and learning theories Framing curricular objectives in teaching Hindi education Role of Information and Communication Technology (ICT) in Hindi learning Bloom's taxonomy of Instructional objectives - Revised form: – (Anderson & Krathwohl) with special reference to 'Create' objective - Technology integrated taxonomy – Collins et al Higher Order SkillsAnalysis, Synthesis, Evaluation and its applications Concepts of Bruner, Piaget, Howard Gardner, and Vygotsky Theories, Implications of	Learning Outcome	Major concepts	Strategies & Approaches	Assessment
Problem Based Instruction, Mental Process, Multiple Intelligence, Emotional Intelligence, Holistic Approach, Motivation in learning, Brain Based Learning, Critical pedagogy, Issue Based Instruction	aims and objectives of teaching Hindi 2. Endow with the significance of taxonomy of instructional objectives in Hindi education 3. Familiarize with varied psychological and learning	 quilitarian and socio-cultural General objectives of teaching Hindi, Objectives of teaching Hindi at different levels(primary, secondary and higher secondary) Objectives of NCERT, NCTE Framing curricular objectives in teaching Hindi Role of Information and Communication Technology (ICT) in Hindi learning Bloom's taxonomy of Instructional objectives - Revised form: – (Anderson & Krathwohl) with special reference to 'Create' objective -Technology integrated taxonomy – Collins et al Higher Order SkillsAnalysis, Synthesis, Evaluation and its applications Concepts of Bruner, Piaget, Howard Gardner, and Vygotsky Theories, Implications of Constructivism, Social Constructivism, Problem Based Instruction, Mental Process, Multiple Intelligence, Emotional Intelligence, Holistic Approach, Motivation in learning, Brain Based Learning, Critical pedagogy , 	General discussion Demonstration Analytical study Group investigation Focus group	 involvement in class activities Comparative analysis - Bloom's taxonomy of Instructional objectives traditional with revised one Monitor the ability to compare & study critically on various theories, methods and

UNIT 4: Methods and Strategies of Teaching Hindi (20Hrs + 10Hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 Compete with different instructional methods suited for teaching Hindi Become proficient in selecting most appropriate teaching methods, techniques and strategies in varied context and content Familiarize with various forms of discourses for language learning 	 Phases of teaching ,Teaching tactics, Techniques of teaching – Drill, Brain storming, Role play, Review, Dramatization, Buzz session, simulation, Quiz session Different methods and approaches – Direct method, Indirect method (grammar - translation), Structural method, Inductive-deductive method, Play way method, Activity method, Project method, Heuristic method, Montessori method, Kindergarten method, Basic Education, Dalton plan, Integrated Approach, Interactive approach, Lecture Method, Socialized methods: Group discussion, seminar, debate, symposia, workshop, Problem solving method, Case study, Analytical and Synthetic method, Humanistic Approaches, Task based language teaching, Language games, computer-assisted instruction, programmed instruction, instructional module, simulated teaching, audio-video lessons, use of audio-visual aids, Edusat, video conferencing, online resources Importance of Language lab in Hindi Instruction Instructional strategies – Co-operative and Collaborative learning strategies 	Dramatization Debate Role Play Buzz session Quiz session Problem solving method Project method Comparative & critical study on various methods and approaches Learning through various discourses	 Report presentation & verification Monitor the ability to distinguish between similar concepts, phases

A critical study of these methods for
teaching Hindi
Discourse oriented learning: Aims and
different methods of teaching various
discourses: Prose, Poetry, grammar, letters,
poster, write-ups, reports, etc,
Communicative Approach: Creative Writing

References – for all Semesters.

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- Dr.G.C.Bhattacharya, Adhyapak Shiksha, Vinod Pustak Mandir, Agra
- Dr.Bholanath Tiwari, Hindi Bhasha Shikshan
- Dr.Bholanath Tiwari, Hindi Bhasha Ka Saral Vyakaran
- Dr.Satyanarayan Dube, Shikshan Vidhiyam Aadharbhhoth Thatv
- Dr.ShailendraBhooshan,Shikshan Adhigam Ke
- Bhai Yogendrajith, Hindi Bhasha Shikshan, Agrawal Publications, Agra
- Dhirendra Varma, Hindi Bhasha Aur Lipi
- Dinesh Chandra Bharadwaj, Basic Shiksha Manovigyan, Agrawal Publications, Agra
- Durgesh Nandini, Hindi Shikshan, Sumith Enterprises
- Prof.Ganesh Prases Sidha, Bhasha Shikshan Nidhi
- Kamatha Prasad Guru, Hindi Vyakaran
- Kesav Prasad, Hindi Shikshan
- Lalji Ram Shukl, Shiksha Manovigyan
- Dr.K.P.Pandey, Shiksha mem Kriyatmak Anusandhan
- Dr.S.S.Mathur,Shikshan Kala Eevam Naveen Padhathiyam, Agrawal Publications,Agra
- Dr.S.N.Mukherji,Rashtra Bhasha Ki Shiksha
- Dr.Naresh sharma, Shikshan Ki Avasthayem. Vigyan Bharathi, Gaziabad

- Dr.Ramshakl Pandey, Hindi Bhasha Shikshan
- Dr.Ramvilas Sharma, Rashtra Bhasha Ki Samasya
- Dr.Sreedharananda Mukherji,Rashtra Bhasha Ki Shiksha
- Dr.Sitaram Jaiswal, Mahendra Pal Sharma, Shiksha Ke Thatwik Sidhanth
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- Kerala Curriculum Framework, SCERT, Thiruvananthapuram
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Online Resources:

- http://ask.metafilter.com/149992/What-are-the-best-resources-for-learning-Hindi
- http://www.ala.org/aasl/standards-guidelines/best-websites/2014s
- http://www.teachingexpertise.com/articles/activities-for-developing-skills-1106
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- http://esl.fis.edu/teachers/support/teach.htm
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EDU – 05.3: PEDAGOGIC CONTENT KNOWLEDGE ANALYSIS – HINDI.

(Theoretical discourses-60 & CE – 30 hours)

Objectives

- To understand the key aspects involved in systematic PCK analysis
- Equip to plan the instruction effectively and to design suitable lesson templates, teaching-learning materials and instructional resources
- Attain the ability to develop and practice different teaching skills
- Achieve the ability to develop a pedagogic view point

Contents

Unit: 1 Nature and Scope of Pedagogical content knowledge analysis

Unit: 2 Instructional Planning and Designing Lesson Templates

Unit: 3 Essential Requirements of Teaching Hindi Education

Unit: 4 Instructional Resources in Teaching and Learning of Hindi

Unit: 1 Nature and Scope of Pedagogical Content Knowledge Analysis (15 Hrs +9 Hrs)

	Learning Outcome		Major concepts	Strategies & Approaches		Assessment
1.	Understand the key aspects involved in systematic PCK	•	Pedagogical content knowledge analysis (PCK) Meaning, Scope, Features of PCK	Text book analysis Individual and Collaborative tasks	•	Pedagogic Content Knowledge analysis presentation
2.	analysis Become capable of establishing relationship between pedagogic and content knowledge analysis	•	analysis, significance of PCK analysis in Hindi disciplineInter-relationship of Content Knowledge, Pedagogic Knowledge Scope and Challenges of PCKA in	Direct instruction Critique of different Course Books	•	Text book analysis as individual/group work
3.	Develop skill in PCK analysis of text books and hand books	•	Knowledge generalization and transaction of Hindi PCK analysis of text books and hand books in Hindi of Std VII to std XII			

Unit: 2 Instructional Planning and Designing Lesson Templates (16 Hrs + 6 Hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
Develop skills in systematic instructional planning and designing lesson templates	 Planning and designing different lessons, Instructional planning-its importance Phases Types - Year plan, Unit plan, Resource unit, Lesson Templates Procedure, steps and format for the preparation of year plan, unit plan and lesson template Designing lesson templates in Hindi Designing e-lesson templates in Hindi Preparation of teaching-learning materials in Hindi and other resources to be used in classroom practice 	Descriptive method Group discussion Demonstration method Co-operative learning Demonstration by experts Preparation of various Lesson Plan/Teaching Manual in small groups	 Ability to develop suitable Lesson plan/Teaching Manual Assessing the ability to frame appropriate Objectives and Specifications

Unit: 3 Essential Requirements of Teaching Hindi Education (14 Hrs + 7 Hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1. Develop teaching skills through	• Essential requirements – Teaching	Experiential learning	Assessment of writing Micro
micro teaching practices	Competencies and teaching skills	Reflective practices	teaching lesson notes/plans and
	Micro Teaching- Definitions, Principle and	Demonstration	schedule

Unit: 4 Instructional Resources in Teaching and Learning of Hindi (15 Hrs + 8 Hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 Understand the inevitable role of instructional support for effective instructional practices Generate skills in constructing and using different instructional aids and resources 	 Learning aidsPreparation of learning aidsmake use of different types of audio-visual aidsscope of audio-visual aids for Hindi instruction: hands-on operational facility of modern learning supporting gadgets Instructional Resources: textbook, workbook, handbook, source book Resource Mapping Instructional aids: classification of learning aids: projected, Non-projected and activity aids. Hands on experience: Computer, LCD Projector, Interactive white board and multi media Scope of art education in teaching Hindi 	Guided observation Illustration Demonstration General discussion Workshop Displays Demonstration	 Text book analysis Workbook preparation Handling of various instructional aids Guided supervision

EDU – 04. 4: THEORETICAL BASE OF SANSKRIT EDUCATION

[Theoretical discourses-60Hours+ CE -30 Hrs]

OBJECTIVES:

- To develop perspectives on the study of Sanskrit in the global context
- To acquire theoretical knowledge and skills in the learning of Sanskrit language
- To develop an understanding of the nature of language system and to understand the role and importance of Sanskrit and its cultural background
- To analyze and prepare a report on the learning of Sanskrit at school level
- To familiarize with the psychological theories and its application of teaching Sanskrit
- To understand Taxonomy of educational objectives [Bloom] with special reference to Sanskrit
- To understand the aims and objectives of Sanskrit language teaching
- To compare the curriculum of NCERT with SCERT
- To understand about the methods and strategies of teaching Sanskrit and to understand the theoretical bases of major approaches

CONTENTS:

- UNIT I: GENERAL INTRODUCTION TO SANSKRIT LANGUAGE TEACHING AND LEARNING.
- UNIT II: NATURE AND DEVELOPMENT OF SANSKRIT LANGUAGE.
- UNIT III: AIMS AND OBJECTIVES OF TEACHING SANSKRIT.
- UNIT IV: METHODS AND STRATEGIES OF TEACHING SANSKRIT

UNIT I : General Introduction To Sanskrit Language Teaching And Learning [14Hours+6Hours]

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To develop perspectives on the study of Sanskrit in the global context. To acquire theoretical knowledge and skills in the learning of Sanskrit language. 	 Perspectives of Sanskrit studies-Significance in the Global context. Sanskrit as a skill subject. Development of Sanskrit Education in India. Reports of First Sanskrit Commission, Krishnawarrier committee, Second Sanskrit Commission. Teaching SSL, SFL. Language Teacher Competencies-Ability to develop skills-Teaching its nature-Learning its nature-Teaching as a Profession, Teacher as a Professional-Guide, Friend, Knowledge worker-Facilitator-Scaffolder-Mentor-Motivator-Social Engineer-Reflective Practitioner etc. 	Meaningful Verbal expression. CAI Explanations and Narrative Demonstrations etc. Develop suitable environment for communication. Supply materials for loud reading. Comprehensions and paragraphs. Written competitions. Listening stories and poems, summarise and recite. Comparisons with the learning of English as second language, Malayalam as first language.	 -Portfolio and performance. -Analyze the performances- -Participant observation- Individual assessment-Prepare power point presentation in the given topic. -Participant observation. Observation. *CE-Seminar-5-marks.

	Presentation.	
	Lecture method.	
	Explanation.	
	Narration.	
	Group discussion and Presentation.	

UNIT II: NATURE AND DEVELOPMENT OF SANSKRIT LANGUAGE[12Hours+7Hours]

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To develop an understanding of the nature of language system and to understand the role and importance of Sanskrit and its cultural background. To analyze and prepare a report on the learning of Sanskrit at school level. To familiarize with the psychological theories and its application of teaching Sanskrit. 	 The importance of Sanskrit language and literature. Sanskrit literature an embodiment of high intellect. Sanskrit the language of Indian culture. Sanskrit the speech celestial-Historical—Archeological-and anthropological research-Contribution of Sanskrit to various subjects. Bases of modern vocations-Learning—Sanskrit—Its significance-Historical—background-World language-Cultural language-Link with other languages. Problems related to Sanskrit teaching at School level. Psycho linguistic theories and its principles in teaching Sanskrit with special reference to 	Meaningful verbal expressions. Lecture cum discussions. Narrative expressions. Collection of Literature. Questionnaire to teachers and students. Lecture cum discussions.	 Role performance. Individual assessment. References. Presentation of report and Participant observation. Observations. Analyze the performance-Power point presentation. Participant observation- CE-Practicum-10 marks.

Behaviourism –imitation,repitation,re-	-Presentation-
inforcement-[Skinner-Pavlov-Thorndike]- Cognitivism-Schema- [Bruner-Piaget] – Constructivism ZPD-Scaffolding, Mental processes [Vygodsky –Gardener]-Chomsky- LAD-Universal grammar -Krashens Hypotheses-Multiple intelligence-Neuro- linguistic programming.	Meaningful verbal expressions. Group Discussions.

UNIT III AIMS AND OBJECTIVES OF TEACHING SANSKRIT[14HOURS+10HOURS]

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To understand Taxonomy of educational objectives [Bloom] with special reference to Sanskrit. To understand the aims and objectives of Sanskrit language teaching. To compare the curriculum of NCERT with SCERT. 	 Blooms taxonomy of educational objectives [revised] with special reference to Sanskrit Aims and objectives of Sanskrit language teaching at different levels-Academic schools- Oriental Sanskrit schools-Higher secondary-Second language and optional Sanskrit- [Primary Secondary, and High school levels].Quality of Sanskrit teaching Pre-class, In class, and after class. Comparison of the objectives and learning of Sanskrit in NCERT Curriculum with SCERT 	Discussions- Lecturing. CAI cum Discussion. Lecture method and Collaborative learning- Assignment and Discussion. -Analyze the peer instruction- Narrative expression and self experience-	 Analyze the Group discussion and Participant observation. Participant observation. Role performance. Participant observation. Oral assessment. Discussion Lesson Templates-5-15marks. Demonstration-3 Criticism-3 Observation of model video Lessons-2-and reporting-10 marks.

UNIT IV METHODS AND STRATEGIES OF TEACHING SANSKRIT[20HOURS+7HOURS]

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
To understand about the methods and strategies of teaching Sanskrit and to understand the theoretical bases of major approaches.	 General principles of language teaching. Maxims of teaching. Approach, Method, Technique- -SOS Approach, Communicative approach. Methods of teaching Sanskrit. Traditional method. Bhandarkar method etc. Methods of teaching Prose, Poetry, Grammar and Drama. Modern methods such as Bilingual method, New method or Text book method, Substitution method, Army method, Audio lingual method, Interactive methods/strategies such as Tutorial, Seminar ,Role-play, Group discussion-Brain storming, Buzz-group, Mind mapping. Visual teaching strategy, Computer assisted teaching and learning, Case-study . 	Meaning full verbal expressions- Lecture method. Group Discussions. Presentation.	 Role performances. Observation. Participant observation Roll performance. CE-Test-5Marks.

REFERENCES: (Common to EDU – 04, 05, 09, 10, 13 & 15)

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- -The teaching of Sanskrit, Pro.G. Sahadevan.
- -Laghusamskritam, Dr.K.G. Poulose.
- -On teaching poetry –Haddon.

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- -The problems of Sanskritteaching-Huppanikkar.
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EDU – 05.4: PEDAGOGIC CONTENT KNOWLEDGE ANALYSIS-SANSKRIT

[Theoretical discourses - 60HOURS+ CE -30HOURS]

OBJECTIVES:

- To acquire knowledge in analysising the pedagogic and the linguistic content of Sanskrit Text Books.
- To prepare and design lesson templates of Sanskrit prose poetry, drama. Alenkara and vretta based on the curriculum and text books of Sanskrit .[8-12].
- To develop essential skills in LSRW and core skills based on micro Teaching.
- To appreciate the use of audio-visual aids, ICT, internet and Technology

CONTENTS:

- UNIT-I INTRODUCTION TO PEDAGOGIC CONTENT KNOWLEDGE [PCK]
- UNIT-II PLANNING AND DESIGNING OF LESSON TEMPLATES.
- UNIT-III ESSENTIAL REQUIREMENTS FOR TEACHING OF SANSKRIT
- UNIT-IV RESOURCES IN TEACHING AND LEARNING OF SANSKRIT

UNIT-I INTRODUCTION TO PEDAGOGIC CONTENT KNOWLEDGE [11 HOURS+6 HOURS]

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
To acquire knowledge in analysising the pedagogic and the linguistic content of Sanskrit Text Books.	 Pedagogic Analysis-scope, Principles and objectives. Pedagogic content knowledge-Scope in teaching and learning. Content analysis on the basis of Blooms taxonomy. Concept of objective based instruction and Evaluation. Instructional objectives ,specification, Issue based learning and Outcome based Learning in Sanskrit. 	Presentation- Meaning full verbal expression- Group discussions. PresentationPresentation- Grammar Translation	 Role performance- Role performance- Analyze and Participant observation Observation. Observation. Role performance. Subject associated activity— 5Marks.

 Analysis of Linguistic content[vocabulary, synonymous, Anonymous, Gender, Singular, Plural words, ideoms, and phrases] Grammar ,Subanthas Thinganthas-Cases- 	method.	
Tenses-and moodes [प्रकारIs]. Comparative study of Structure of sentences, in Hindi and Malayalam with Sanskrit.		

UNIT-II PLANNING AND DESIGNING OF LESSON TEMPLATES[20HOURS+12HOURS]

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1. To prepare and design lesson templates of Sanskrit prose poetry, drama. Alenkara and vretta based on the curriculum and text books of Sanskrit .[8-12].	principles of content analysis – subject matter and language learning experiences –	Lecture cum discussionmeaning full verbal expression group discussion – presentation – Document analysis and peer instruction – -makes trainee recall the method of teaching – Presentation of model lesson plans. Discussion.	 Observation. analysis in group discussion- participant observations optional level focused group discussion – examining the level of participation- Performance in class room discussions teaching performance in classroom discussion teaching performance entry recorded –in reflective journal- Practical discussion lessons [five] demonstrations[three] Criticism lessons.[Five]

Demonstration class.	•	observation of video lesson and
Expert Lessons-Video		reporting
observation and		
reporting.[any two]		

UNIT III ESSENTIAL REQUIREMENTS FOR TEACHING OF SANSKRIT[16HOURS+6HOURS]

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
To develop essential skills in LSRW and core skills based on micro Teaching.	 Observation and practice of Listening s LSRW. Meaning of micro teaching – objectives of micro teaching – Meaning and concept. Concept-Phases and Circles -skill based practice – 7 skills [core skills.] stimulus variation -questioning re-inforcement Using blackboard. Introduction. Explaining. Using teaching aids.and Three any other skills. One skill per student,include skills for modern classrooms. 	Lecture method demonstration and practice. Group discussion-observations-presentation — narrative expression session in small groups — Makes trainee recall the art of teaching — use film related teaching skills ,web based resources — Individual Performance. Recording.	 Performance in group discussion participation - Observation- -optional level focused groups discussion - entry recorded in reflective journals - Micro teaching 2 skills-15marks. observation of recorded performance of individual students. Practical -10 Marks.

UNIT IV :RESOURCES IN TEACHING AND LEARNING OF SANSKRIT[13HOURS+6HOURS]

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
To appreciate the use of audiovisual aids, ICT, internet and Technology.	 The importance of Teaching aids in learning process-design and development- Learning support resources- pictures-charts-Flash cards-Models –News papers and Journals-Documentary-Audio-video clips-Interactive board- LCD Projector- Internet-Language lab-Resource mapping. 	Lecturing and Demonstration of teaching aids. Discussion. Group activities. Preparation of learning aids in workshops. Demonstration and observation of Language lab. Preparation and practice of lesson plans based on ICT, internet, and different audio –visual aids.	 Participant observation. Role performance Participation. Role performance. Participation. Competence to use this language lab Performance of students. Examination of lesson templates Test-5 Marks. Field trip-10 marks.

EDU. 04.5: THEORETICAL BASE OF ARABIC EDUCATION

(Theoretical Discourses. 60hours and CE. 30 hours)

Objectives

- On completion of the course the student teacher will be able to:
- Familiarize with the functional aspects of teaching and learning and the divergent roles expected
- to be an Ideal Teacher
- Acquaint with the meaning, nature and characteristics of language
- Grasp knowledge about the nature and scope Arabic Language
- Familiarize with the aims and objectives of Arabic Language teaching and learning
- acquaint with the Taxonomy of Educational Objectives
- Develop the ability to apply theories related to Language teaching
- Develop Knowledge of acquisition of basic language skills
- Familiarize with traditional and modern methods, approaches& strategies of language teaching
- Update Knowledge of current approaches and methods& techniques of teaching
- Develops the ability to choose the effective Methods, Approaches, strategies techniques for classroom teaching

Contents

UNIT 1: GENERAL INTRODUCITION TO TEACHING AND LEARNING:

UNIT II: NATURE AND DEVLOPMENT OF ARABIC LANGUAGE

UNIT III: AIMS AND OBJECTIVES OF TEACHING ARABIC LANGUAGE

UNIT IV: METHODS AND STRATEGIES OF TEACHING ARABIC LANGUAGE:

UNIT 1: General Introduction to Teaching and Learning

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
The student teacher will be able to familiarize with the functional aspects of teaching and learning and the diverse roles expected to be an Ideal Teacher	 Language Learning: Perspectives Teaching and Learning: its Nature and significance Maxims of Teaching Learner and Teacher Inter dependence of Teaching & Learning. Changing concept of Teaching, learning, classroom environment; CWW (classroom without walls), VLE (Virtual Learning Environment.) Competency Based Language Teaching (CBLT) Language teacher competencies 	Introductory Lecture Discussion Group Discussion Observation Narration	CEAssignmentsTE

UNIT II: NATURE AND DEVLOPMENT OF ARABIC LANGUAGE

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1. The Student Teacher will be able to	Language : Meaning, definitions	Lecture	• CE
acquaint with the meaning, nature and characteristics of language 2. The student teacher will be able to grasp knowledge about the nature and scope Arabic Language	 Characteristics and functions Language and Culture Basic Concepts: Morphology, Phonology, Syntax, semantics. First Language, Second Language & Foreign 	Discussion Debate Seminar	AssignmentsSeminar reportsTE

3. To develop Knowledge of		language	Brainstorming	
acquisition of basic language skills		Arabic as a Second language& foreign	Diamotorining	
dequisition of ousie language skins		Language		
		Nature and Scope of Arabic Language		
		Need & Significance of Arabic Language		
	•	teaching and learning		
		-		
	•	Problems of learning Arabic as a second		
		language		
	•	Acquisition of Language		
	•	Language Skills: LSRW		
	•	Receptive skills & Productive skills		
	•	Listening skill; Significance of listening		
	•	Speaking skill :Importance of speaking,		
		Pronunciation		
	•	Reading skill: Importance of reading skill		
	•	Types of reading :Loud Reading, Silent		
		Reading; advantages		
	•	Intensive reading, Extensive reading;		
		advantages		
	•	Skimming and scanning		
	•	Writing Skill: Importance of writing skill		
	•	Types of writing, Characteristics of good		
		handwriting		
	•	Reference & Study Skills:		
	•	Importance of reference and study skills		
	•	Use of dictionaries & encyclopedias		
	•	Online references		

UNIT III: AIMS AND OBJECTIVES OF TEACHING ARABIC LANGUAGE

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
The student teacher will be able to acquaint with the aims and objectives of Arabic language teaching	 Aims and Objectives of Teaching and learning Language Socio- cultural & utilitarian aims Principles of Language Learning Objective Based Instruction Blooms Taxonomy of Educational Objectives (original & revised) Objectives and Specifications Process Oriented Teaching and learning Outcome based Learning (OBL) Developing communicative competencies Addressing Learner sensibilities and abilities 	Lecture Interactive session Discussion Debate Online reference	CEAssignments/ProjectTE

UNIT IV: METHODS AND STRATEGIES OF TEACHING ARABIC LANGUAGE

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1. The student teacher will be all	• to • Application of Psychological Principles :	 Introductory 	• CE
develop the ability to apply	Behaviourism, Cognitivism, Constructivism,	Lecture	Assignments
theories related to Language	Social constructivism, Chomskyan Concept (Discussion 	• TE
teaching	LAD & Universal Grammar), Krashen's	 Demonstration 	
2. Familiarize with the tradition	& Hypothesis	• Debate	
modern methods, approaches	Approaches, Methods & Techniques	 Video lesson 	
techniques of language teaching 3. Develop the ability to choose the	Traditional and tribation in the same and	observation	
	Grammar Translation Method, Bilingual	Online reference	

most suitable methods,	Approach, Direct Method, Structural
Approaches, strategies and	approach,
techniques in Arabic language	Communicative Approach, Eclectic
teaching and learning	Approach, Play way Method, Project Method
	Role play ,Dramatization, Narrative strategies
	Discourse based language learning, Learning
	by doing, Activity Based Teaching and
	Learning
	Approaches/ Methods of teaching Language
	elements:
	Inductive and deductive methods, Functional
	and formal grammar
	Approaches, Methods& Techniques of
	teaching Language skills :
	Listening Skill, Speaking skill
	developing speaking & Listening Skills,
	Causes of bad pronunciation, Techniques of
	teaching good pronunciation
	Methods and techniques of teaching Reading skill
	Methods and techniques of teaching Writing
	skill: Dictation, Creative writing, Editing
	Process
	Critical Evaluation of the Methods of
	Teaching

References:

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- Thareeqathu Thadreesi Wa strateejiyyathuhu: Dr Muhammed Mahmmod al Haila, Dar Al Kitab Al Jamia, Al ain, UAE
- Al Mawajjah Al Fanni LiMudarirsee al Lughal Al Arabiyya: Abdul Aleem Ibrahim; Dar al maarif, Al qahira
- Thaaleem al lugha al Arabiya lighairi al nathiqeena biha : Makthab al tharbiyya al Arabi liduwal al Khaleej
- Ilmu al lugha; Muqadhima llil qaria al Arabi: Dr. Mahmood Al Saaran, Dar al- N ahda al Arabiyya
- Thuruqu thadrees al lugha al Arabiyya lil madaris al muthawassitha wa thanaiyya : Hasan Mulla Uthman ; Dar alam al Kuthub lithbaa wa nnashshr wa thouzeea, Riyadh, KSA
- Thaqnolojiya al Thaaleem; Al wasail al thaaleemiyya wa thaqniyyath al thaaluum: Dr. Muhammed Assam Tharbay , Dar Hammurabi lilnashri wa thouzeea
- Asaleeb Wa Thuruqu al-Thadrees al Hadeesa : Dr. Muhammed Assam Tharbaya; Dar Hammurabi lilnashri wa thouzeea
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- Wasaail al Ithisal wa thaknologiya fithaaleem :Dr Abd al hafiz muhammed salama ,Dar al Fjkar
- Murshid al Muallim: Richard D. C; Aalam al Kutub al Qahira
- Al Thadrees Ahdafuhu wa usasuhu wa Asaleebuhu Thaqweemu Nathaijuhu wa Thathbeegathuhu: Dr Fikri Hasan Rayan, Aalm al kutub, al qahira
- Madkhal Ila Tharbiya al muthamayyizeena wal Mauhoobeen, Dar al fikar lial thibaa wa Nashr
- Thaqniyyath al thaaleem(Mafhoomuha wa douruha fi thahseeni amaliyyath al thaaleem wa thaallum: Badar Salih
- Al tharbiya wa thurugu thadrees: Salih abdul Azeez& Abdul Azeez Abdul Majeed; Dar al Maarif, Al Qahira
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EDU. 05.5: PEDAGOGIC CONTENT KNOWLEDGE ANALYSIS-ARABIC.

(Theoretical Discourses. 60hours and CE. 30 hours)

Objectives

On completion of the course the student teacher will be able to:

- Acquaint with an understanding of pedagogic content knowledge analysis
- Familiarize with the nature of the content /text book and analyze it pedagogically
- Develop the ability and acquires the teaching skills by practicing complex skills of classroom teaching
- Develop knowledge of the importance of planning in teaching
- Develop the ability to design lesson templates incorporating the relevant objectives and activities
- Acquire the ability to plan lessons and use in classroom teaching
- Develop the ability to apply suitable Teaching Aids in classroom teaching

Contents

UNIT I: INTRODUCTION TO PEDAGOGI CONTENT KNOWLEDGE(PCK):

UNIT II: PLANNING & DESIGNING OF LESSON TEMPLATES

UNIT III: ESSENTIAL REQUIREMENTS OF TEACHING ARABIC LANGUAGE

UNIT IV: RESOURCES IN TEACHING AND LEARNING OF ARABIC LANGUAGE

UNIT I: Introduction to Pedagogic Content Knowledge (PCK):

	Learning Outcome		Major concepts	Strategies & Approaches		Assessment
1.	The student teacher will be able to develop an understanding of	•	Content Knowledge and Pedagogic	Introductory Lecture	•	CE
	pedagogic content knowledge	•	Knowledge Pedagogic Content Knowledge	Discussion	•	Assignments/ project
,	Analysis Familiarizes with the nature of text	•	Pedagogic Content Knowledge analysis: scope, principles and objectives	Group Discussion	•	TE
2.	book and analyses pedagogically	•	Steps involved in pedagogic content knowledge analysis			

Pedagogic Analysis of language discourses	Observation	
 :Conversation, poem, rhyme, slogan, speech, notice, report, message, letter, poster, advertisement, write-up, profile, biography, essay, story, Quran & Hadith, narration etc. Pedagogic Analysis of language elements: grammar, vocabulary, structures, rhetoric & 	Narration	
 prosody etc. Pedagogic Analysis of Arabic Text Books prescribed for the State Schools of Kerala from 6th std to 12th std Critical Analysis of Arabic H B& TB for VIII to X std of the state schools 		

UNIT II: Planning and Designing of Lesson Templates

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1. Develop knowledge of the importance of planning in teaching	Planning in Teaching : Importance of planning in teaching	Introductory Lecture	CEAssignments/
 Acquire the ability and skills to plan lessons and use in classroom teaching Develop the ability to design lesson plans incorporating the relevant objectives and activities 	 Objectives of Planning Different levels of Planning :Year plan, Unit plan, lesson plan Planning and designing of lesson templates Steps involved in preparing lesson template Designing lesson templates for different language discourses& language elements 	DiscussionGroup DiscussionObservationNarration	 project TE

UNIT III: ESSENTIAL REQUIREMENTS OF TEACHING ARABIC LANGUAGE

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 Familiarizes with ways of employing teaching skills for effective teaching Practice teaching skills And apply it effectively 	 Teaching Skills: Pre teaching skills & post teaching skills Core skills in teaching: stimulus variation, introducing, explaining, questioning, response management, Application of ICT skills / Black Board, White Board, & Interactive Board Practicing teaching skills: Micro Teaching: the concept, Micro teaching cycles, Link practice Preparing of Micro Teaching Lesson Plans 	Introductory Lecture Discussion Group Discussion Observation Narration	 CE Assignments TE

UNIT IV: RESOURCES IN TEACHING AND LEARNING OF ARABIC LANGUAGE

	Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1.	Familiarizes with ways of	Teaching Learning Materials(TLM):	Introductory Lecture	• CE
	developing different teaching aids and applying in classroom	Psychological Bases Teaching aids, its design and development:	Discussion	Workshop productsObservation
	teaching	Audio, video, audio-video, Graphic and improvised aids, Projected and non projected	Group Discussion	Reportscollections
2.	Acquire the ability to apply suitable Teaching Aids in classroom teaching	 aids Animated and digital aids, Language Lab, Multi media aids 	Observation Narration	• TE

Other resources: Supplementary Readers, Local Text, Zero Test, Live Text, Static Text etc.		Local Text, Zero Test, Live Text, Static Text
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References:

- Al Muallim al Najih: Dr. Abdullah al Amiri, Dar Usama li -nashir wa thouzeea'
- Thatweeru Adai -al Muallim; kifayathu thaaleem wa thahleel al muthawasila : Hashim Uwaidha, Dar al Ilm al Malayeen , Labanan
- Thuruqu thadrees al lugha al Arabiyya lil madaris al muthawassitha wa thanaiyya : Hasan Mulla Uthman ; Dar alam al Kuthub lithbaa wa nnashshr wa thouzeea, Riyadh, KSA
- Thaaleemu al lugha al arabiyya baina nadriyya wa thathbeeq: Dr Hasan Al Shahatha, Dar Misriyya wa llubnaniya
- Mushkilathu thaaleemu llughal Arbiyya: Abbas Mahmood ; Dar alsaqafa, Qatar
- Thareeqathu Thadreesi Wa strateejiyyathuhu: Dr Muhammed Mahmmod al Haila, Dar Al Kitab Al Jamia, Al ain, UAE
- Al Mawajjah Al Fanni LiMudarirsee al Lughal Al Arabiyya: Abdul Aleem Ibrahim; Dar al maarif, Al qahira
- Thaaleem al lugha al Arabiya lighairi al nathiqeena biha : Makthab al tharbiyya al Arabi liduwal al Khaleej
- Ilmu al lugha; Muqadhima llil qaria al Arabi: Dr. Mahmood Al Saaran, Dar al- N ahda al Arabiyya
- Thaqnolojiya al Thaaleem; Al wasail al thaaleemiyya wa thaqniyyath al thaaluum: Dr. Muhammed Assam Tharbay , Dar Hammurabi lilnashri wa thouzeea
- Asaleeb Wa Thuruqu al-Thadrees al Hadeesa: Dr. Muhammed Assam Tharbaya; Dar Hammurabi lilnashri wa thouzeea
- Providing teachers effective strategies for using technology techtrends: Brown B& Henscheid
- Istheeratheejiyyath wa Maharah al Tharees :Kamal al Jundi; Dar al Jumhooriya lilthibaa
- Wasaail al Ithisal wa thaknologiya fithaaleem :Dr Abd al hafiz muhammed salama ,Dar al Fjkar

- Al thadrees wa Iadad al Muallim: Dr.S Abdulrahman qindeel Dar al Nashr al Duwali
- Murshid al Muallim: Richard D. C; Aalam al Kutub al Qahira
- Al Thadrees Ahdafuhu wa usasuhu wa Asaleebuhu Thaqweemu Nathaijuhu wa Thathbeegathuhu: Dr Fikri Hasan Rayan, Aalm al kutub, al qahira
- Madkhal Ila Tharbiya al muthamayyizeena wal Mauhoobeen, Dar al fikar lial thibaa wa Nashr
- Thaqniyyath al thaaleem(Mafhoomuha wa douruha fi thahseeni amaliyyath al thaaleem wa thaallum: Badar Salih
- Kuthub al Mudariseen lil madaris al thanawiyya: Majli al wilaya lilbuhuzu thabaviyya wathadreeb
- Al tharbiya wa thuruqu thadrees: Salih abdul Azeez& Abdul Azeez Abdul Majeed; Dar al Maarif, Al Qahira
- Kaifa Thulqi Darsak: Yabhasu fi usooli al tharbiyath wa thadrees, Dar al Ilm lil Malayeen, Bairut.
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- Taxonomy of Educational Objectives: Bloom, B.S. et al (1968) Handbook, D.Mc, New York
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- Teaching Strategies: A guide to better instructions, HMCo. New York

EDU- 04.6 : THEORETICAL BASE OF TAMIL EDUCATION

(Theoretical Discourses- 60 & CE – 30 hours)

Objectives:

The student teacher:

- 1. Familiarizes with the nature and purpose of language teaching.
- 2. Grasps problems related to learning a Second Language.
- 3. Draws implications of different theories of learning for Second Language instruction.
- 4. Gets an awareness of Approaches, Methods and Instructional Strategies for teaching Tamil.

Contents:

Unit 1 :General Introduction to Tamil Language Teaching and Learning

Unit 2 :Nature and Development of Tamil Language
Unit 3 :Aims and Objectives of Teaching Tamil
Unit 4 : Methods and Strategies of Teaching Tamil

Unit 1: General Introduction to Tamil Language Teaching and Learning (25 hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 Student teacher familiarizes with functional plane of teaching and learning and the divergent roles expected to be played as Language Teacher Grasps the current status of Tamil and its importance 	 Significance in the Global context Tamil – Classical Language Tamil as a skill subject Teaching Tamil as a First Language [L1] 	Makes student recall qualities of teachers whom they admire/remember Narration, anecdotes of lives of teachers who served as role models Views films related to	 Contribution in debate on need of Tamil as an Classical Language Performance in classroom discussions regarding teacher role Entry recorded in Reflective journal

l as a Link Language uage teacher competencies s and Responsibilities of Tamil Teacher- or, facilitator, scaffolder, reflective itioner teachers/teaching Reads stories about lives of great teachers Web-based resources

Unit 2:Nature and Development of Tamil Language (20 hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
Gathers knowledge about meaning, nature and characteristics of language and select theories of language teaching and learning	Language and media(print and digital)	Brain storming Seminar Presentations Quiz Peer Tutorial Discussion Invited Talks	 Examine level of participation Role performance analysis Evaluation based on documentation

Unit 3:Aims and Objectives of Teaching Tamil (20 hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
Develops an understanding of the principles of language teaching	 Utilitarian aim, Socio-cultural aims Objectives of Teaching Tamil Principles of Language Learning Ideology of teaching Tamil in classrooms; Addressing learner sensibilities and learner abilities in language learning; Developing communicative competence 	Discussion	 Examine level of participation Evaluation based on documentation Examine student report Address the level of pupil involvement in Group Discussion

Unit 4:Methods and Strategies of Teaching Tamil (25 hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 Familiarizes with traditional approaches and methods of language teaching Updates Knowledge of current approaches and methods Develops the ability to choose the most suitable method for a given content or group of learners 	 Teaching Methods –Grammar, Prose, Poetry Student Centered Method and Teacher Centered Method 	Demonstration of steps followed in different methods Watching video recordings Accessing Online input on the topic Co-relating class room activities	 Evaluate the competence to compare and contrast Monitor the ability to distinguish between similar concepts, phases

References (for EDU – 04, 05, 09, 10, 13 & 15)

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EDU- 05.6 : Pedagogic Content Knowledge Analysis : Tamil.

(Theoretical discourses -60 & CE - 30 hours)

Objectives:

The student teacher:

- Familiarizes with the different dimensions of Pedagogic Content Knowledge.
- Develops an understanding of objectives and specifications for teaching Tamil as a Second Language.
- Familiarizes the procedure and steps for planning different kinds of lesson.
- Analyzes Secondary Course Books and identifies suitable strategies for transacting content.
- Explores ways of designing appropriate learning aids.
- Identifies suitable strategies for assessment.

Contents;

Unit I: Introduction to Pedagogic Content Knowledge (PCK)

Unit II: Planning and Designing of Lesson Templates Unit III: Essential Requirements for Teaching of Tamil Unit IV: Resources in Teaching and Learning of Tamil

Unit 1: Introduction to Pedagogic Content Knowledge (PCK)- 25 hours.

	Learning Outcome		Major concepts	Strategies & Approaches	Assessment
•	Develops an understanding of	•		Direct instruction	Participation in task.
	pedagogy and its principles		Objectives	Engaging in Group	• Peer
•	Familiarizes with Taxonomy of	•	Pedagogic Content Knowledge- Scope in	discussion	• assessment of
	Educational Objectives		teaching and learning		 presentations
•	Develops an understanding of	•	-Objective-based Instruction - Bloom's	Individual and	
	types of thinking		Taxonomy: Specifications,	collaborative tasks	
•	Familiarizes with the nature of a Course Book		-Process skills & Thinking Skills (Critical	Critique of different	

Content Analysis - Themes, Language elements, Sequencing of content, Deficiency in content-Discourses- slogans, placards, notices, reports, diary entry, messages script of a speech, letter, posters, advertisement, write up, conversation, profile etc.	and Creative), Problem Solving	Course Books	
	elements, Sequencing of content, Deficiency in content-Discourses- slogans, placards, notices, reports, diary entry, messages script of a speech, letter, posters, advertisement,		

Unit 2: Planning and design of lesson templates (25 hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 Familiarizes the procedure and steps for planning different kinds of lesson. Analyzes Secondary Course Books and identifies suitable strategies for transacting content. 	 Plan-Unit Plan - Lesson Templates Components and Strategies for teaching: Prose- Intensive and Extensive reading; Skimming and Scanning 	Workshop mode to identify Objectives, Specifications and appropriate testing mechanisms Critiquing Syllabus Grids in Course Book Intro. lectures on thinking skills Demo. by expert Preparation of Group Lesson Plan/Teaching Manual Practice under	 Ability to develop suitable Lesson Plan/ Teaching Manual for different content Phased monitoring Performance in Workshop Checking ability to frame appropriate Objectives and Specifications

	supervised guidance	
	Task-directed discussion and Applied exercises	

Unit 3: Essential requirements for teaching of Tamil (20 hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
Familiarizes with different teaching skills	 Analysis and Practice of Language Skills-LSRW Identification and Practice of Language Elements - structure, vocabulary etc. Core Skills of Teaching- -Introduction Illustrating with examples Explaining Questioning Stimulus Variation- Reinforcement Using Blackboard- Using teaching aids Response Management-Classroom Management Reading -Recitation -ICT skills Micro Teaching-Concept, Phases and Cycle 	Peer observation using Schedule Videography for reflection Supervised guidance	 Use of Observation schedule *Reflection write- up submitted following viewing of video recording of own teaching

Unit 4: Resources in teaching and learning of Tamil (20 hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 Familiarizes with ways of employing different aids for teaching different content Explores ways of designing appropriate learning aids. 	-Learning support resources -Pictures-Charts-Flash Card-Models- News	Display of specimen aids Guidance for preparation of aids for different content in workshop mode	Peer commentGuided supervision

EDU- 04.7: THEORETICAL BASE OF MATHEMATICS EDUCATION.

(Theoretical Discourses-60 hours & CE – 30 hours)

Objectives:

- To make the novice student teachers understand the scope and nature of Mathematics teaching at different levels of learning
- To introduce Mathematics teacher with a futuristic perspective as an agent of social change
- To acquire the fundamentals of theory and practice of principles and procedures of teaching and learning of Mathematics
- To develop an understanding of different methods, strategies and techniques possible in teaching and learning of Mathematics

Contents:

- O Unit I: Introduction to teaching and learning
- **o** Unit II: Nature, Scope and Development of Mathematics
- **Out of the Contract of State of Teaching Mathematics**
- O Unit IV: Methods and strategies of teaching

Unit I: Introduction to teaching and Learning (10 hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To understand the various roles of Mathematics teacher To familiarize and develop general and specific competencies To generate a knowledge of phases of teaching To understand the qualities of a good mathematics teacher To acquaint with the concept of classroom without walls 	 Teacher Role-*Knowledge manager Facilitator Scaffolder Mentor Social Engineer Reflective practitioner Competencies-Professional competencies of a Mathematics teacher Qualities of a good teacher Teaching 	 Meaningful Verbal Explanation Group Discussion Peer tutoring Power point presentation Assignments 	 Performance assessment in group discussion Tests Peer evaluation Evaluation of assignments

• Phases of teaching (Pre-active, Interactive	
and Post- active teaching)	
• Maxims of Teaching /Learning	
• Teacher behaviour and Learning	
• Class Room	
• Concept of Virtual Learning Environment	
(Class room without wall)	

Unit II: Nature, Scope and Development of Mathematics (13 hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To familiarize with various definitions of Mathematics To understand the nature and scope and characteristics of Mathematics To acquaint with development of Mathematics To inquire into the Contributions of great Mathematicians To understand the values of learning Mathematics To identify different types of correlation of Mathematics 	 Meaning and Definition of Mathematics Nature and scope of Mathematics Characteristics of Mathematics Language of Mathematics Role intuition inductive and inductive reasoning Development of Mathematics Human needs as the basis of growth of Mathematics as a structured science-undefined terms, postulates, axioms and theorems pure and applied mathematics Euclidian and non-Euclidean Geometry Contributions of great Mathematicians- -Pythagoras, -Rene Descartes, -C.F.Gauss, Aryabhatta, -Bhaskaracharya, -Brahmagupta, and -Sreenivasa Ramanujam Values of learning Mathematics: 	Meaningful Verbal Explanation Group Discussion Peer tutoring reflective dairy Collaborative Interaction and Role Play Power point presentation Assignments Brain storming	 Analysis of students Performance Peer Evaluation Poster Presentation Evaluation of reflective dairy Questioning Class tests

Utilitarian, Disciplinary, Cultural,	Group discussions
Aesthetic, Social, Moral, International etc.	
• Correlation of Mathematics with life, other	Seminar
subjects and different branches of the same	
subject	

Unit III: Aims and Objectives of Teaching Mathematics (20 hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To understand the aims and objectives of teaching mathematics To introduce the Blooms taxonomy of educational objectives under three domains To familiarize with the revised version of Bloom's taxonomy of educational objectives To compare and contrast the objectives of teaching mathematics listed in NCF and KCF 	 Aims of teaching Mathematics Meaning of objectives. Instructional objectives and Specifications Concept of Objective based instruction Blooms taxonomy of educational objectives Cognitive domain, Affective domain, and Psychomotor domain A conceptual overview of revised Bloom's taxonomy of objectives of teaching/ learning (Anderson and Krawthwohl),1990. A conceptual overview of Technology Integrated Taxonomy, Peck and Wilson,1999 Objectives of teaching mathematics as enumerated by NCF(2005) and KCF(2007) 	Meaningful verbal presentation Power point presentations Illustrations Seminars Role play Collaborative and Cooperative learning strategies	 Performance analysis in group discussions Observation Participation in the Seminar sessions Examples cited in their lecture note Questioning Summative evaluation Participation in the Seminar sessions

Unit IV: Methods and strategies of teaching Mathematics (17 hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To understand various methods and approaches, useful for effective transaction of mathematics To familiarize with various techniques useful for individualizing Mathematics instruction 	Methods and approaches Procedure, merits & demerits of: Lecture method Inductive Deductive method Analytic -Synthetic method Laboratory method Project method Problem solving method Heuristic approach Concept of Questioning, -Features of good questions and Good questioning Techniques for individualizing instruction Assignments Homogeneous grouping Supervised study Drill work Dalton plan	Group discussions Role play Meaningful verbal presentation Collaborative and Cooperative learning Strategies Power point presentations	 Participant observation Performance assessment in classroom activities Individual work and in Group work. Summative evaluation

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EDU 05.7: PEDAGOGIC CONTENT KNOWLEDGE ANALYSIS: MATEMATICS

(Theoretical Discourses-60 hours & CE – 30 hours)

Objectives:

- To develop practical field based skill and experience in resource development and learning experience designing while transacting the mathematics curriculum
- To infuse an attitude for undertaking the contextual challenges as a Mathematics Education Professional
- To enrich the capabilities of Mathematics teachers during and after the pre service education
- To inculcate the theoretical and practical wisdom of mathematics classroom and its associated units' design, management and innovation

Contents:

Unit 1: Introduction to Pedagogic Content Knowledge

Unit 2: Planning and Designing of Lesson Templates

Unit 3: Essential Requirements of Teaching Mathematics

Unit 4: Resources in Teaching and Learning Mathematics

Unit I: Introduction to Pedagogic Content Knowledge (10 hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To provide knowledge on Pedagogic Analysis To identify the requirements for Pedagogic Analysis To develop ability to analyze the content for locating Objectives, Curricular objectives, learning outcomes, pre-requisites, resources, teaching strategies, 	 Concepts and principles of pedagogic Analysis Content Analysis of Standard 8,9 & 10 texts Books listing of Objectives, Curricular objectives, learning outcomes, pre-requisites, resources, teaching strategies, learning activities and judgment strategies 	Lecturing Collaborative/Cooper ative Learning session Group discussion Seminars Narrative Expression	 Performance analysis in group discussions _ Observation _ Participation in the Seminar sessions _ Assessment of assignment

learning activities and evaluation	Assignment	
strategies		

Unit II: Planning and Designing of Lesson Templates (25 hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To understand need, importance and stages of planning instructions in mathematics To develop the ability to plan and design year, unit and lesson plans 	 Planning instruction Need and Importance of planning, Stages of planning -Year plan, Unit plan and Lesson plan Transition of behaviouristic approach to constructivist approach in lesson planning Preparation of lesson templates in Behaviourist and Constructivist formats 	Meaningful verbal Presentation Collaboration/Cooper ative Learning session, Group discussion Reviewing previous lesson plans	 Questioning Performance analysis in group discussions Assessment of practical records on Discussion, demonstration, criticism lessons. Practicals Discussion lessons Observation of video lessons o Demonstration lessons

Unit III: Essential Requirements for Teaching Mathematics(15 hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1. To understand the basic skills	Mathematical Skills	Meaningful	Assessment of reflective diary
needed for effective teaching o	Arithmetic skills: role of speed and accuracy	verbal	• Performance analysis while
develop the ability to make use of	Geometric Skills		practising Microteaching skill
teaching skills by the practice of	Drawing and interpreting graphs and charts	presentation	 discussions
microteaching	HOT skills	Group discussion	 Observation
	Teaching Skills	are of the second	• Practicals

2. To understand and practice digital skills.	 Microteaching Skills (set induction, questioning, reinforcement, stimulus variation, using black board, explanation etc) Microteaching lessons- Planning and preparation of Microteaching lesson plans Practicing Microteaching skills Digital skills identify and practice digital skills for teaching 	Brain storming Illustration of skills Simulation Video clippings/video lessons
	teaching	lessons

Unit IV: Resources in Teaching and Learning Mathematics (10 hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To understand different methods for concretizing abstract ideas To understand the need, importance and different types of learning aids in mathematics To provide hands on experience on modern learning supporting gadgets for each student 	 concretization of abstract ideas in mathematics, Different types of learning aids, Improvised aids modern learning supporting gadgets like PPT, Interactive white Board etc Hands on experience on the modern learning supporting gadgets. 	Meaningful verbal presentation Group activities Sessions in small or medium groups -Video clippings You tube resource tapping Drill and Practice Lab sessions	 _ Performance analysis in individual and in group discussions/tasks _ Questioning _ Practical tests

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EDU- 04.8: THEORETICAL BASE OF PHYSICAL SCIENCE EDUCATION

(Theoretical Discourse - 60 hrs, CE - 30 hrs)

Objectives:

- To make the novice student teachers understand the scope and nature of Physical Science teaching at different levels of learning
- To introduce the challenging career of Science teacher with a futuristic perspective as an agent of social change
- To acquire the fundamentals of theory and practice of principles and procedures of teaching and learning of Physical Science
- To develop an understanding of different methods, strategies and techniques possible in teaching and learning of Physical Science

Contents:

- Unit 1: Introduction to Teaching and learning
- Unit 2: Nature and Development of Science Education
- Unit 3: Aims and Objectives of Teaching Physical Science
- Unit 4: Methods and Strategies in Physical science Teaching

Unit I: Introduction to Teaching and Learning (10+5=15 hours)

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Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To acquaint student teachers with the process of teaching learning in the changing scenario To familiarize with the maxims of teaching To understand the concept of learning given by behaviourists, cognitivists and constructivists To familiarize with the changing classroom environment To develop understanding in Continuing Professional 	 Learning - definitions based on behaviourism, cognitivism and constructivism. Interdependence of teaching and learning. Basic teaching model of Glaser. Changing concept of classroom environment. Science teacher - qualities duties and 	Meaningful verbal expression Group discussion Narrative expression sessions in small or medium groups Seminar	 Analysis in group discussion Participant observation Debate Reflective journal Tests

	Development	engineer and reflective practitioner.	Video streaming
6.	To acquaint with the qualities,	• Professional growth of science teacher	
	duties and responsibilities of	Continuing Professional Development (CPD)	
	science teacher		
7.	To understand the changing roles		
	of teacher in the present scenario		

Unit 2: Nature and Development of Science Education (10+5=15 hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To understand the nature and scope of science To familiarize with the evolution of scientific achievements. To identify and highlight the contributions of scientists in India and abroad To appreciate the contributions given by the Indian women scientists To familiarize with the evolution of teaching of science To identify the role of science for sustainable development 	 process) Scope of science-Values (intellectual, social, practical, disciplinary, recreational, moral, aesthetic) Development of science in ancient, medieval and modern periods. Contributions of scientists- Einstein, Newton, Lavosier, Mendeleev, Rutherford, C.V. Raman, M.N. Saha. P.C.Ray, APJ Abdul Kalam, G. Madhavan nair, ECG Sudarshan, Kalpana Chawla, Sunitha Williams, Tessy 	Group discussion Seminar Personality profile presentation Creative blog	 Document analysis Posters Online assessment Quiz programme

Unit 3: Aims and Objectives of Teaching Physical Science (20+4=24 hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To acquaint with the aims and objectives of teaching physical science To understand the different taxonomies of instructional objectives To understand the aims and objectives of NCF and KCF 	objectives, Specific objectives, learning experience, Evaluation	Meaningful verbal expression Narrative expression sessions in small or medium groups Seminar Digital presentation Blog searching Reflective practices Peer tutoring	 Questioning Participation in group discussions Participant observation Tests Blog posting

Unit 4: Methods and Strategies in Physical science Teaching (20+6=26 hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
To understand methods, strategies and techniques of teaching Physical Science	 Teacher centred methods- Lecture method, Lecture demonstration method, Historical method. Learner centred methods- Laboratory method, assignment method, Heuristic method, Developmental method, Project method, Dalton Plan, Inductive method, Deductive method, Problem Solving method, Guided discovery method, Supervised Study Scientific Method- Steps, Elements- Logical and Technical aspects, Mill's Canon of Induction, Transfer of training Techniques of teaching Physical Science-Debate, Seminar, Symposium, Discussion, Buzz section, Brain storming, Simulation, Role play. 	Meaningful verbal expression Group discussion Peer instruction Brain storming Explicit teaching	 Analysis in group discussion. Participant observation. MCQ based discussion. Graphic Organizer Designing.

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EDU - 05.8: PEDAGOGIC CONTENT KNOWLEDGE ANALYSIS: PHYSICAL SCIENCE

(Theoretical discourses - 60 hrs, CE - 30 hrs)

Objectives:

- To develop practical field based skill and experience in resource development and learning experience designing while transacting the science curriculum
- To infuse an attitude for undertaking the contextual challenges as a Science Education Professional
- To enrich the capabilities of prospective science teachers during and after the pre service education
- To inculcate the theoretical and practical wisdom of science classroom and its associated units' design, management and innovation

Contents:

- Unit 1: Introduction to Pedagogic Content Knowledge
- Unit 2: Planning and Designing of Lesson Templates
- Unit 3: Essential Requirements of Teaching Physical Science
- Unit 4: Resources in Teaching and Learning of Physical science

Unit 1: Introduction to Pedagogic Content Knowledge (20+10=30 hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To understand pedagogic content knowledge (PCK) and find its scope in teaching and learning To understand the steps involved in PCK analysis To apply the principles of pedagogic analysis. 	 Pedagogic Content Knowledge (PCK)-Meaning and Scope. Content analysis- Meaning, Purpose and steps. PCK Analysis - Content Analysis, Learning outcomes, Pre requisites, Inputs that enrich learning(Teaching-learning resources, Environmental inputs), Community resources, Enrichment Activities, Assessment techniques, Assignments. 	Meaningful verbal expression Group discussion Turn around K-W-L charting Document writing	 Analysis in group discussion Assessment of optional notebook entries Open forum Peer evaluation

•	PCK Analysis of Physical science content	Net surfing	
	from secondary school syllabus prescribed by		
	SCERT		

Unit 2: Planning and Designing of Lesson Templates (20+15=35 hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1. To acquaint with the planning of instruction	Planning- Need and Importance.Different types of planning- Purposes and	Meaningful verbal expression	Performance assessment in group discussion
 To develop understanding of different types of planning To design lesson templates based on different formats 	steps-Year Plan, Unit Plan, Resource Unit, Lesson Plan- Herbartian steps Behaviourist and Constructivist formats	Group discussion Explicit teaching Peer tutoring	Assessment of optional notebook entries

Unit 3: Essential Requirements of Teaching Physical Science (25+25=50 hours)

	Learning Outcome	Major concepts	Strategies & Approaches	Assessment
2.	To identify competencies required for a teacher to be professional. To develop understanding of various teaching skills To understand microteaching and its relevance in the development of teaching skills To design, practice and document micro lessons in physical science	 Teacher Competencies-Subject competencies, Pedagogical competencies, Technological competencies. Teaching skills Microteaching - Definitions and meaning, principles, steps, microteaching cycle Development of selected teaching skills- Set induction, Reinforcement, Explaining, Illustrating with examples, Probing questions, Using chalk board, Stimulus 	Meaningful verbal expression Group discussion Document analysis and Peer evaluation Video observation Reflective practices	 Analysis in group discussion Lesson segment preparation Observation schedule designing Think, Pair and Share sessions

variation, Using audio-visual aids, discussion, promoting pupil participation,	
Classroom management. Link Practice	

Unit 4: Resources in Teaching and Learning of Physical science (15+10=35 hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To understand the importance of learning aids and improvised aids in learning Physical Science To acquire hands-on experience in designing and developing suitable learning aids for classroom instruction To develop understanding in resource mapping 	 Importance in science learning Text book- Qualities, Vogel's Criteria, Fog Index Hand book, Source book, Work book, Reference book, Supplementary reading materials 	Narrative expression sessions in small or medium groups Document analysis You tube resource tapping Drill and Practice Lab sessions	

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EDU – 04.9: THEORETICAL BASE OF NATURAL SCIENCE EDUCATION

(Theoretical Discourses-50 Marks/60 hours & CE-25 Marks /30 hours)

OBJECTIVES:

Enable the student teacher to

- understand the scope and nature of Natural Science Teaching at different levels of learning.
- acquire the fundamentals of theory and practice of principles and procedures of Teaching and Learning of Natural Science.
- understand the concept of teaching- learning process.
- identify roles and competencies essential for a Natural science teacher.
- understand and develop skill in selecting appropriate aims and objectives for teaching Natural Science.
- familiarize and apply the instructional management strategies of teaching Natural Science.

CONTENTS

- Unit I: General introduction to teaching and learning for novice -Concept of Teaching and Learning- Its interdependence. Changing concept of classroom environment, Teacher as a professional
- Unit II: Science –a conceptual analysis The nature and development of science.
- Unit III: Aims and objectives of teaching Natural Science -Broad aims of teaching Natural Science ,Aims and objectives of teaching Natural science with respect to NCF and KCF and different Taxonomies of Instructional Objectives-
- Unit IV: Methods and strategies for teaching Natural Science-Teacher and Student initiated methods, Approaches, Techniques.

UNIT: I GENERAL INTRODUCTION TO TEACHING AND LEARNING FOR NOVICE (Theory hours-10)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1. To understand classroom as an	1.1Classroom as an organization-Teacher	Group discussion.	• Participation in group discussion.
organization 2. To acquaint student teachers with	and Learner, Definitions of learning from different point of view (behavioristic,		Questioning.
the process of teaching learning in	cognitive and constructivist),	sessions in small or	 On-task behavior in class.
the changing scenario.	• Teaching-Learning process. Maxims of teaching.	medium groups.	• Tests.

3. To understand the concept of	o Changing concept of classroom		Science diary.
learning according to	environment- classroom climate- An	Brain storming.	Deile veffentier insmal
behaviouristic, cognitive and	introduction to conducive, learner friendly,		Daily reflective journal
constructivist theories.	inclusive and Virtual learning environment	Seminar.	Participant observation
4. To understand the changing	(VLE).		1
concept of classroom environment	 Teacher as a professional 	Reflective practices.	
in ^{21 st} century.	 Teacher qualities, competencies 		
5. To familiarize the maxims of	• Role of Teacher as manager, leader,	Debate.	
teaching.	knowledge worker, guide, supervisor,		
6. To familiarize the virtual learning	mentor, scaffolder, social engineer, reflective	PBL.	
environment.	practitioner in teaching-learning process.	N 10' 1' 1	
7. To identify the qualities and	 Continuing professional development (CPD)- 	Multimedia approach.	
competencies required for a	conceptual Analysis.		
science teacher.	• 1.4 An introduction to Child With Special		
8. To understand the changing roles	Needs (CWSN).		
of teacher in teaching-learning			
process.			
9. To familiarize the concept of			
Continuing professional			
development.			

UNIT.II SCIENCE -A CONCEPTUAL ANALYSIS NATURE AND DEVELOPMENT (Theory hours-8)

	Learning Outcome		Major concepts	Strategies & Approaches	Assessment
1.	To understand the nature of	• 2.	.1Nature of science-The three fold nature		Online assessment
	science.		of science- Science as process (Scientific method, Process skills) and products (Terms,	Group discussion	Participation in group discussion.
2.	To familiarize and appreciate the		Tacts, Concepts, Principles, Process,	Seminar	• Questioning.
	development of science in India	T	Theories, Laws, and Generalizations).	Schina	• On-task behavior.
	and Contributions of scientists in		scientific attitude.	Personality	 student's portfolio.
	India and abroad.		Development of science education in India.		•
		• A	An introduction to National Scientific Policy		• Posters

	3. To familiarize the development of science in India.	Resolution of 1958, Indian Parliamentary and Scientific Committee & Role of NCERT in	profile presentation	
	4. To design different strategies to develop scientific Attitude.	 science education. Path breaking discoveries of Loius Pasteur, Har Gobind Khorana ,Charles Darwin, M.S. 	Reflective practices.	
-	5. To familiarize the emerging branches of Science	 Swaminathan, and Gregor Johhan Mendal. An introduction to Emerging branches of science: Biotechnology, Nanotechnology, Bioinformatics, Geo informatics. 	PBL Multimedia and interdisciplinary approach. Team teaching.	
			Peer tutoring	

UNIT-III AIMS AND OBJECTIVES OF TEACHING NATURAL SCIENCE (Theory hours-21)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To identify the values of science and its transactional potentiality. To understand the aims and objectives of teaching Natural Science. To understand the aims and objectives of NCF and KCF. To understand the different taxonomy of instructional objectives. 	 3.1Broad aims of teaching Natural Science: Awareness about the millennium development goals with special reference to developing scientific literacy(Practical, Civic and Cultural), Effecting social changes(promoting health and hygiene, Population control, Eradication of diseases, Better nutrition(Eradicate extreme poverty & hunger), 	Meaningful verbal expression. Group discussion. Narrative expression sessions in small or medium groups. Brain storming.	discussion. Questioning. On-task behavior in class. Tests. Science dairy.

5. To understand the concept of	Removal of superstitions, Raising the	
Objective based Instruction.	standard of living: bringing science to home	Seminar.
6. To understand triangular	and community (longevity of life, decreasing	
relationship between the	infant mortality rate,	Reflective practices.
instructional objectives, Learning	• Improve maternal health, health index, better	DDI
experiences and evaluation.	irving conditions, role and functioning of	PBL.
	community health centers),	Multimedia and inter-
	• Self-sufficiency in food,	disciplinary
	Modern agricultural practices- Agricultural	approach.
	management,	approach.
	• Modern techniques of cultivation,	Team teaching.
	Conservation of natural resources,	
	• Environmental awareness and Ensure	Peer tutoring
	environmental sustainability.	
	o 3.2. An introduction to aims & Objectives	
	of teaching Natural Science with respect to NCF and KCF.	
	Relevant sections of NCF-Section 3.3	
	Science- basic criteria of validity of a science	
	curriculum, Section 3.3.1 The curriculum at	
	different stages. Section 3.3.2 Outlook.	
	Relevant sections of KCF-Section 5.2.2 &	
	Section 5.2.4 aims of science education.	
	• 3.3Taxonomy of Instructional Objectives-	
	Origin, Bloom's Taxonomy of Instructional	
	Objectives (1956) , Classification by	
	NCERT, Mc Cormack and Yagar's	
	classification, Technology Integrated	
	Taxonomy –Peck & Wilson (1999), Revised	
	Blooms Taxonomy by Anderson and	
	Krathwohl (2001).	
	Objective based Instruction.	

UNIT IV METHODS AND STRATEGIES FOR TEACHING NATURAL SCIENCE (Theory hours-21)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To understand appropriate methods, techniques and strategies of teaching Natural science. To develop skill in selecting appropriate methods, techniques and strategies of teaching Natural science. 	 Teacher initiated methods- Lecture method, Lecture cum Demonstration and Biographical method. Student initiated methods- Problem solving, Project method, Guided discovery, Experimental and heuristic method. Approaches- Inductive-Deductive, Multimedia, Interdisciplinary and Constructivist approaches. Techniques- Seminar, Group discussion, Debate, Brain storming, peer tutoring, team teaching, concept mapping. 	Meaningful verbal expression Group discussion Peer instruction Narrative expression sessions. Brain storming. Seminar. Reflective practices. PBL. Modular approach. Multimedia and interdisciplinary approach. Peer tutoring	 Participation in group discussion. Questioning. On-task behavior in class. Tests. Science diary. Daily reflective journal Participant observation.

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EDU- 05.9: PEDAGOGIC CONTENT KNOWLEDGE ANALYSIS - NATURAL SCIENCE

(Theoretical discourses-50 Marks/60 hours & CE-25 Marks/30 hours)

OBJECTIVES:

Enable the student teachers to:

- comprehend the dimensions of pedagogical analysis.
- critically analyze the Secondary School Biology Syllabus based on pedagogical Content Knowledge.
- understand and apply the different skills for teaching Natural Science.
- understand and prepare teaching manuals based on different instructional strategies.
- understand the different teaching learning resources for teaching Natural Science.
- prepare and use suitable learning aids for Natural Science teaching.

CONTENTS

Unit I : Pedagogic content knowledge and pedagogic analysis of Secondary School Biology Syllabus

Unit II: Types of planning instruction, different approaches of designing lesson plans.

Unit III: Teaching skills and its development.

Unit IV : Design and development of teaching learning resources for enhancing science learning-visual, projected, non-projected and activity aids

UNIT I -PEDAGOGICAL ANALYSIS OF TEACHING NATURAL SCIENCE (Theory hours -15)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To generate a knowledge of terminologies and the interdependence of teaching and learning. To familiarize and develop general and specific teacher competencies in analyzing content. 	 1.1.Pedagogic Content Knowledge (PCK) - Meaning, objectives, scope, principles and dimensions. 1.2. Pedagogic content analysis of secondary school syllabus prescribed by SCERT. 	Meaningful verbal expression Group discussion Narrative expression sessions in small or medium groups	 Performance assessment in group discussion Assessment of Optional Note Book entries Questioning Tests Peer evaluation

3. To make Pedagogic content		Student's portfolio
knowledge analysis of secondary	Text Book analysis	•
school Biology syllabus.	and peer instruction	

UNIT II - INSTRUCTIONAL PLANNING FOR TEACHING NATURAL SCIENCE (Theory hours-20)

	Learning Outcome		Learning Outcome Major concepts		Strategies & Approaches		Assessment
1.	To understand different types of	0	2.1 Meaning and importance of planning,	Discussions in small	•	Performance assessment in	
	planning.		Types of planning - Year plan, Unit plan,	or medium groups		group discussion	
2	To develop skill in designing		lesson plan and Resource Unit	Seminar.	•	Questioning	
	lesson plans based on different	•	2.2 Designing lesson plans based on	Reflective practices.	•	Tests	
	approaches.		Herbartian Approach& Constructivist	Debate.	•	Peer evaluation	
			Approach.	PBL.	•	Lesson Plan	

UNIT III - TEACHING SKILLS AND ITS DEVELOPMENT:

SCIENCE TEACHING SKILLS/ ESSENTIAL REQUIREMENTS OF TEACHING NATURAL SCIENCE (Theory hours 15)

Learning Outcome	Major concepts Strategies & Approaches	Assessment
1. To understand the different types	o Teaching skills –Definition, Core teaching Discussions in small	Performance assessment in
of teaching skills.	skills, Components of teaching skills, or medium group	s. group discussion
2. To develop the teaching skills	Teaching skills specially required for Biology	Assessment of performance in
relevant to Biological science.	teacher. Reflective practice	brain storming,

 To familiarize the different phases of micro teaching. To develop skill in designing micro lessons. To develop skill in practicing micro lesson. 	 Micro-teaching: Objectives, Micro-teaching cycle - its relevance in teacher training programme. Importance of Link practice. 3 .4 Design and development of micro lessons- practice and documentation with appraisal format to elicit feedback. 	Multimedia and interdisciplinary approach. Team teaching. Peer tutoring Group discussion.	 Symposium. Questio+ning Tests Peer evaluation Assessing micro lessons Assessing micro teaching.
		Group discussion.	
		Narrative expressions	

UNIT IV - RESOURCES IN TEACHING AND LEARNING OF NATURAL SCIENCE (Theory hours-10)

	Learning Outcome	Major concepts Strategies & Approaches	Assessment
1.	To understand the meaning and	4.1 Design and development of materials	Performance assessment in group
	definition of audio-visual aids	for effective science learning Discussions in small	discussion, debate etc.
2.	To identify and comprehend the	4.2 Audiovisual aids or medium groups.	Assessment of assignments
	different types of audiovisual aids	Significance of audio visual aids in science Seminar.	Questioning.
	in teaching Natural Science.	learning.	• Tests
3.	To develop skill in improvisation.	Designing, developing and documenting Reflective practices.	Peer evaluation
4.	To apply multimedia in teaching	minimum of one item for - improvised, PBL.	Student's portfolio
	Natural Science.	Visual and graphic aids (Charts, Models,	Evaluating the audio visual aids

5. To design and develop the teaching learning aids for Natural Science.	•	Diagrams, Pictures, Posters). Projected and non- projected aids-OHP, LCD, Bulletin Board, Flannel Board,	Multimedia and interdisciplinary	prepared by student teachers.
	•	Interactive Board etc. Activity aids -Aquarium, Terrarium, and Nature Calendar. 4.3 Collection and preservation of specimens.	approach. Peer tutoring.	
		•		

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EDU – 04.10 – THEORETICAL BASE OF SOCIAL SCIENCE EDUCATION

(Theoretical discourses-60 hours & CE – 30 hours)

Objectives:

- To familiarize with the conceptualized version of components required to enter in teaching profession
- To mould the prospective teacher educators to uphold the professional spirit
- To equip with varied dimensions of Social Science education
- To identify and analyse the aims and objectives of teaching Social Science
- To gain an outlook of approaches in behaviorism, constructivism and cognitivism in Social Science education
- To analyze the unique features of different instructional methods suited for teaching Social Science
- To identify and select most appropriate teaching- learning methods and strategies in varied context and content.

Contents:

Unit: 1 Introduction to Teaching and Learning

Unit: 2 Nature, Scope and Development of Social Science Education

Unit: 3 Aims and objectives of Teaching Social Science

Unit: 4 Instructional Methods, Techniques and strategies in Social Science Teaching

Unit: 1 Introduction to Teaching and Learning

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
. To familiarize with the	Teaching - profession and service, Principles Me	Meaningful verbal	• Report writing and verification
conceptualized version of	and Maxims of teaching, Instruction, Factors pre-	presentation	• Case analysis presentation
components required to enter in	determine effective instruction, classroom Br	Brain storming	
teaching profession	Interactions, Learner, Learning, Learning Ca	Case analysis of 2/3	
	environment, classroom as a social far	amous teachers	

2.	To mould the prospective teacher		laboratory.	Buzz session to	
	educators to uphold the	•	Teacher, Teacher as professional; Continuing	generate varied roles	
	professional spirit in diverse angles		Professional Development (CPD), Qualities	of an ideal teacher	
			and competencies of Social Science		
			Teachers, Teacher responsibilities;		
			multifarious roles: knowledge worker,		
			facilitator, scaffolder, mentor, social		
			engineer, counselor, reflective practitioner		
			and digital migrant.		

- http://www.wikihow.com/Be-a-Professional-Teacher
- http://www.edpolicythoughts.com
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- Bining, A.C & Bining, D.H. (1952) Teaching Social Studies in Secondary Schools. New York: McGraw Hill

Unit: 2 Nature, Scope and Development of Social Science Education. (10 Hrs + 4 Hrs)

	Learning Outcome		Major concepts	Strategies & Approaches		Assessment
1.	To acquaint with the basic	•	Conceptual background of Social Science,	Meaningful verbal	•	Preparation of report on teacher
	concepts of Social Science as a		Meaning and Scope, Need and significance	learning		Presentation
	discipline	•	Content organization treatment of Social	Participatory		
	T :1 4:6 1: 4 4		Science- Fusion, Integration and Correlation	approach		
2.	To identify subject matter		within Social Science- Understanding about			

	organization process in Social		Primary, Secondary and Higher Secondary	Co- operative	
	Science- Fusion, Integration &		levels (Social Studies, Social Science and	learning	
	Correlation		Humanities)	Discussion	
3.	To analyze the relationship of Social Science with other subjects	•	Correlation of Social science with other subjects- Language & Science		

- www.empoweringvision.org
- http://serc.carleton.edu
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UNIT: 3 Aims and objectives of Teaching Social Science

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1. To identify and analyze the	, ,	General discussion	• Comparison chart on Basic
aims and objectives of teaching Social Science	Social Science	Analytical study	concepts of Behaviorism, constructivism and cognitivism
	• Individual, Social, Cultural, National and		S .

	e	International considerations of Social	Focus group		and its analysis
significance of Taxonomy instructional objectives Social Science education 3. To gain an outlook approaches in behavioris constructivism cognitivism in Social Science education	n of n, d	Bloom's taxonomy of Instructional objectives (Revised)- Instructional objectives and specifications. Behaviorism, Cognitivism and Constructivism- approach & practice in classroom- Comparison Learning objectives and Learning Outcomes	discussion Prepare a seminar paper with PPT support on the psychological implications in the pedagogical practices of Social Science.	•	Seminar with Slide presentation (CE item for Edu. 04) Test (CE Edu.4)

- http://www.unco.edu/cetl/sir/stating outcome/document
- http://ci484-learning-technologies.wikispaces.com/Behavioris.
- Chauhan, S.S (2006) Advanced Educational Psychology, New Delhi
- Mangal.S.K(2007) Human Development and Learning, Crow.L.D &Crow Alice(2008)
- Entwistle, N.J. (1987). Understanding Classroom Learning. London: John Wiley
- Freire, Paulo. (1998). Pedagogy of the Oppressed. USA: Continuum Pub. Co.
- Gardner, H. (1983). Frames of Mind: The Theory of Multiple Intelligences. New York: Basic Books
- Goleman, D. (1995). Emotional Intelligence. New York: McGraw Hill.
- Kincheloe, J. (2008). Critical Pedagogy (2nd Edn.) New York: Peter Lang.
- NCF(2005), KCF(2007)
- N.C.E.R.T. (1989). Instructional objectives of school subjects. New Delhi: N.C.E.R.T
- Bining, A.C & Bining, D.H. (1952) Teaching Social Studies in Secondary Schools. New York: McGraw Hill
- Clark, L.H.(1973). Teaching Social Studies in Secondary Schools.(2nd Ed.)New York:McMillan.
- Aggarwal, J.C. (2003). Teaching of Social Studies: A Practical Approach.
- Ehman & Patrick (1974). Towards Effective Instruction in Social Studies. USA: Houghton Miffn.
- Dash, B. N.(1998). Content cum Methods of Teaching Social Studies. Ludhiana: Kalyani Publishers.
- Edigar, M. & Rao, B. (2003). Teaching Social Studies Successfully. New Delhi: Discovery Pub. House.
- Kumar, S.P.K & Noushad, P.P. (2009). Social Studies in the Classroom: Trends and Methods.

- Bloom, B. S. (956). Taxonomy of Educational Objectives: Cognitive Domain. New York: David Mckay Co.
- Gronlund, N.E(1970) Stating Behavioural objectives for class room instruction. London: MacMillan
- Krathwohl.et.al, Taxonomy of Educational Objectives, Hand Book II: Affective Domain. McKay: New York.
- Anderson, W,L and Krathwohl, D,R, A Taxonomy for Learning, Teaching, and Assessing: A Revision of Bloom's Taxonomy of Educational Objectives.
 Allyn & Bacon: Boston.

UNIT 4: Instructional Methods, Techniques and Strategies

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To analyze the unique features of different instructional methods suited for teaching Social Science To proficient in select most appropriate teaching methods in varied context and content. 	 strategies for teaching Social Science. Differentiate method, technique and strategy Methods- Lecture storytelling Discussion 	Seminar Debate Project	• Report presentation & verification

- www.books.google.co.in
- www.flipkart.com
- http://www.celt.iastate.edu/creativity/techniques.html
- Aggarwal, J.C. (1996) A Practical Approach. New Delhi: Vikas Publishing House Pvt. Ltd.
- Alexey Semenov, UNESCO, (2005): Information and Communication Technologies in Schools: A Handbook for Teachers.
- Kumar, S.P.K & Noushad, P.P. (2009). Social Studies in the Classroom: Trends and Methods.
- Roblyer, M.D. (2008). Integrating educational technology into teaching. New Delhi: Pearson.
- Fitchman & Silva (2003). The Reflective Educators' Guide to Classroom Research. California: Corwin Press, Inc.

- Dash, B. N.(1998). Content cum Methods of Teaching Social Studies. Ludhiana: Kalyani Publishers.
- Ehman & Patrick (1974). Towards Effective Instruction in Social Studies. USA: Houghton Miffn.
- Edigar, M. & Rao, B. (2003). Teaching Social Studies Successfully. New Delhi: Discovery Pub. House.
- Atkins N.J and Atkins J.N, Practical Guide to Audio Visual Technique in Education
- Hoole H.S. Ratnajeevan & Hoole Dushyanthi. (2005). Information and communication technology. New Delhi: Foundation Books PVT. LTD.
- Entwistle, N.J. (1981). Style of learning and teaching. London: John Wiley & Sons Fosnot, C. (1996). Constructivism: theory, perspectives and practice. Newyork: Teachers College Press

EDU – 05.10: PEDAGOGIC CONTENT KNOWLEDGE ANALYSIS – SOCIAL SCIENCE.

(Theoretical discourses – 60 hours & CE – 30 hours)

Objectives

- To understand the key aspects involved in systematic PCK analysis
- To develop skill in analyzing the content of secondary level Social Science text book
- To justify the importance and phases of instructional planning in Social Science
- To equip prospective teacher educands in developing teaching skills through micro teaching practices
- To conscientize the inevitable role of various instructional support in effective instructional practices.
- To become competent in developing suitable testing mechanisms.

Contents

Unit 1	Introduction to Pedagogical content knowledge analysis
Unit 2	Instructional Planning and Designing Lesson Templates
Unit 3	Essential Requirements for Teaching Social Science Education
Unit 4	Instructional Resources in Teaching and Learning of Social Science

Unit: 1 Nature and Scope of Pedagogical content knowledge analysis

	Learning Outcome	Major concep	ente	egies & roaches		Assess	ment	
1.	To understand the key aspects	Pedagogical content kn	nowledge analysis Narrative	expression	•	Content analysi	s presentat	ion
	involved in systematic PCK	(PCK) -Meaning, Scope,	e, Features of PCK session		•	Brief report	on text	book
2	analysis To establish relationship between	analysis, significance of Social Science.	f PCK analysis in Text boo	c analysis		analysis		
2.	pedagogic knowledge with content analysis	Relationship between p with content analysis C	learning					

3.	To develop skill in analyzing the		Procedure, facts, concepts, principles.	content analysis of	
	content of secondary level Social Science text books	•	Content analysis of secondary Social Science text books-(History, Geography, Political Science, Economics, Sociology areas)	two units by each student teacher after	

- http://www.csun.edu/science/ref/pedagogy/pck/
- http://en.wikipedia.org/wiki/Technological Pedagogical
- Aggarwal, J.C. (1996) A Practical Approach. New Delhi: Vikas Publishing House Pvt. Ltd.
- Kumar, S.P.K & Noushad, P.P. (2009). Social Studies in the Classroom: Trends and Methods.
- Kochhar, S.K. (2002). The Teaching of Social Studies. New Delhi: Sterling.
- Dash, B. N.(1998). Content cum Methods of Teaching Social Studies. Ludhiana: Kalyani Publishers.
- Pathak R.P.(2012). Teaching of social studies. Pearson, Delhi
- Edigar, M. & Rao, B. (2003). Teaching Social Studies Successfully. New Delhi: Discovery Pub. House
- Social Science text book of standard 8,9 & 10 of Kerala
- Teachers' Hand book in Social Science for standard 8,9 &10
- Varma, O. P. & Vedanayagam, E. G. (1993). Geography Teaching. N. Delhi: Sterling.
- Cornwell, R. D. (1985). World History in the Twentieth Century. England: Longman.
- Joshi, P. S., Gholkar S.V. (1983). History of Modern India. N. Delhi: S.Chand & Company Ltd.
- Kaur, Dhian & Chandana, R. C. (ed.) (2006). The Earth: Ludhiana: Kalyani Publishers.
- Singh R. L., Singh, Rana, P. B. (2002). Elements of Practical Geography. N. Delhi: Kalyan Publishers.

Unit: 2 Instructional Planning and Designing Lesson Transcripts

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To justify the importance and phases of instructional planning in Social Science discipline To capacitate systematic planning and designs lesson transcripts To develop skills in preparing lesson transcripts 	 Instructional planning –Importance, Phases, Types - Year plan, Unit plan, Lesson plan Procedure for the Preparation of year plan, unit plan and lesson plan Designing Lesson Transcripts 	Group discussion Co-operative learning Meaningful verbal learning Prepare model year plan, Unit plan & lesson transcripts. Video/ Demo lesson observation	 Discussion lessons -5 Demonstration lessons -3 Criticism lessons -5 (Practical evaluation) Video lesson observation and reporting (CE- Edu.05)

- http://answers.yahoo.com/question/
- http://www.ierg.net/lessonplans/unit plans.php
- Green, G.H. (1987). Planning the Lesson. London: Longman
- http://en.wikipedia.org/wiki/Wiki
- Kumar, S.P.K & Noushad, P.P. (2009). Social Studies in the Classroom: Trends and
- Methods.
- Bining, A.C & Bining, D.H. (1952) Teaching Social Studies in Secondary Schools.
- New York: McGraw Hill
- Clark, L.H.(1973). Teaching Social Studies in Secondary Schools.(2nd Ed.)New York:
- McMillan.
- Green, G.H. (1987). Planning the Lesson. London: Longman
- http://en.wikipedia.org/wiki/Wiki

Unit: 3 Essential Requirements of Teaching Social Science Education

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To equip prospective teacher educands in developing teaching skills through micro teaching practices To generate skill orientation among prospective teacher educands through practical experiences 	 Essential requirements – Teaching Competencies and Skills. Micro teaching - Meaning, Phases, steps. Micro teaching skills – (minimum 10 skills) Micro teaching – Lesson templates, Practice and assessment mechanisms. Skills in using ICT Link practice 	Experiential learning Demonstration Reflective practices General discussion Demonstration method Analysis of video performance	 Micro teaching lesson notes/plans (Ten skills/ 2 skills per student) Performance in skill presentation (Practical evaluation)

- http://www.scribd.com/doc/24590843/Micro-Teaching-Skills
- Allen,D & Ryan, K (1969). Micro teaching. London: Adison Wesley
- Aggarwal, J.C. (1996) A Practical Approach. New Delhi: Vikas Publishing House Pvt. Ltd.
- Dave, Pushkin (2001) Teacher Training. Californio : ABC CLIO
- Kochhar, S.K. (1985). Methods and Techniques of Teaching. New Delhi: Sterling Publishers Pvt. Ltd.,
- Cooper, James M(1990) Classroom teaching skills.US: DC Health & Co

Unit: 4 Instructional Resources in Teaching and Learning of Social Science

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To conscientize the inevitable role of various instructional support in effective instructional practices. To acquire skills in constructing and using different instructional aids. 	 Instructional Resources: textbook, workbook, handbook, source book. Resource Mapping Instructional aids: Importance, educational values, classification of learning aids: projected, Non-projected and activity aids. Hands on experience: Computer, LCD Projector, Interactive white board and multi media 	General discussion Workshop Displays Prepare resource map for effective utilization in Social Science	 Handling of various instructional aids. Social Science club activity- Workshop to prepare a source book or innovative instructional aid/ Resource map (CE-Edu.05)

- Skinner, B. F. (1968). The Technology of Teaching. New Jersey: Prentice Hall.
- Kilpatrick, W. H. (1969). The Project Method. New York: Teachers' College Press
- Aggarwal, J.C. (2003). Teaching of Social Studies: A Practical Approach. Mumbai:
- Vikas Publishing House.
- Kumar, S.P.K & Noushad, P.P. (2009). Social Studies in the Classroom: Trends and
- Methods.
- Pathak R.P.(2012). Teaching of social studies. Pearson, Delhi
- Entwistle, N.J. (1987). Understanding Classroom Learning. London: John Wiley
- Skinner, B. F. (1968). The Technology of Teaching. New Jersey: Prentice Hall.
- http://religionmanuals.tpub.com/14229/css/14229 322.htm.
- http://en.wikipedia.org/wiki/Wiki

EDU – 04.11: Theoretical Base of Geography Education

Hours of interaction: 60 (instruction) +30 (activities / processes)

Objectives:

- To familiarize with the conceptualized version of components require to enter in teaching profession
- To mould the prospective teacher educators to uphold the professional spirit
- To acquaint with the nature, scope and modern concepts of Geography
- To understand the new perspectives of Geography along with its correlative and nationalistic views
- To identify and analyze the aims objectives and values of teaching Geography
- To identify the need of objective based instruction
- To analyze the unique features of different instructional methods, suited for teaching Geography instruction
- To identify and select the most appropriate teaching- learning methods and strategies in varied context and content.

Contents:

- Unit 1: Introduction to Teaching and Learning of Geography
- Unit 2: Nature, Scope and Development of Geography Education
- Unit 3: Aims and Objectives of Teaching Geography
- Unit 4: Methods and Strategies in Geography instruction

Unit. 1 Introduction to Teaching and Learning of Geography (16 hours + 6 hours)

	Learning Outcome		Major concepts	Strategies & Approaches		Assessment
1.	To familiarize with the	•	Teaching – nature, significance, principles	Meaningful verbal	•	Report writing and verification
	conceptualized version of components required to enter in teaching profession	•	Learning – as a process, features, laws and learning environment Students in a class- nature, role and mind set	presentation Brain storming Case analysis of 2 or	•	Case analysis Identification and presentation

2.	To mould the prospective teacher		of learners	3 famous teachers	•	Assessment and reflection
	educators to uphold the	•	Constructivist teaching and learning	Buzz session to		
	professional spirit	•	Geography Teacher	generate varied role		
3.	To develop professionalism and	•	Personal qualities and different roles	of an ideal teacher		
	professional ethics among	•	Professional qualities and competencies	Lecture		
	Geography teachers.	•	Professional ethics	Discussion		
		•	Programmes for improving professional	Online learning		
			efficiency	Internet access		
		•	As Continuing Professional Development			
			(CPD) and reflective practitioner and digital			
			migrant			

- http://www.wikihow.com/Be-a Professional Teacher
- http://www.ed.policythoughts.com
- Edigar, M and Rao. B (2003). Teaching Social studies successfully. New Delhi: Discovery Publishing House
- Arora M.L (1979) Teaching of Geography, Prakash Brothers, Ludhiana
- Gopill G.H (1966) Teaching of Geography, Macmillaa, London
- Verma O.P , Vedanayagam E.G (1987) Teaching of Geography, Sterling Publishers Pvt Ltd. New Delhi
- Gardner.H (1983) Frames of Mind. The Theory of Multiple Intelligences. New York. Basic Books
- Kincheloe. J (2008) Critical Pedagogy. 2nd Edition. New York Peter lang.
- Fosnot. C(1996) Constructvism; Theory perspectives and Practices. New York; Teachers college Press
- Roblyer. M.D. (2008) Integrating Educational Technology into Teaching: New Delhi; Pearson.
- Elizabeth Perrot (1982), Effective Teaching Singapore: Longman
- Donald. P.K & Paul D.E (2007) Learning and Teaching USA: Pearson Education

Unit. 2 Nature, Scope and Development of Geography Education (11 Hours + 6 Hours)

	Learning Outcome	Major concepts	Strategies & Approaches	Assessment
2.	To acquaint with the meaning, nature, scope and modern concepts of Geography To identify the subject matter organization process in social science	 Meaning, definition, nature and scope of Geography Need, significance and modern concepts of Geography Geography as a fused, integrated and correlated discipline Correlation of Geography with other social sciences, sciences, languages and life 	Meaningful verbal learning Participatory approach Co-operative learning	 Preparation of report on teacher presentation Internal tests for Unit 1& 2 (CE-1) Assessment /reflection
3.	To analyze the correlation of Geography with other subjects	 situations Geography and, National Integration and International Understanding 	Discussion Proin storming	
4.	To understand the new perspectives of Geography and its nationalistic views	 New perspectives in Geography Systematic/ scientific Geography Earth science/ Environmental science Science of Aerial / Spatial / Regional differentiation 	Brain storming Lecture Web search Online learning	

- www. empowering vision.org
- http://serc.carleton.edu
- http://www.ecosensorium.org
- AroraM.L (1979) Teaching of Geography, Prakash Brothers, Ludhiana
- Gopill G.H (1966) Teaching of Geography, Macmillan, London
- Garnett, Olive (1967) Fundamentals in school Geography. Harrap and Company, London
- VermaO.P, and Vedanayagam. E.G (1987) Teaching of Geography, Sterling Publishers Private Limited, New Delhi

- UNESCO Source Book for Geography Teaching (1982), London. Logman's Green and Company
- Prasad Jagdish (1982), Teaching of Geography, Vinod Pustak Mandir, Agra
- Singh H.W (1985) Teaching of Geography, Vinod Pustak Mandir, Agra
- Secondary and Higher Secondary Textbooks of SCERT/ NCERT

Unit. 3 Aims and Objectives of Teaching Geography (18 Hours + 9 Hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To identify and analyze the aims objectives and values of teaching Geography To identify the need of objectives based instruction To familiarize with the taxonomy of instructional objectives in Geography Education To gain an outlook of constructivist, and behaviourist approaches in Geography Educations 	 Aims, objectives, values- definition and meaning Objectives based instruction and its need Learning objectives and learning outcomes Aims, objectives and values of teaching Geography Bloom's Taxonomy of Educational objectives old and revised patternsinstructional objectives and specifications Behaviourism cognitivism and constructivism Implications of theories of Piaget, Bruner, Vygotsky and Howard Gardner in Geography teaching and learning 	Meaningful verbal learning Discussion Brainstorming Analytical study Group investigation Present Assignments and prepare notes Lecture Web search Internet access	 Report presentation and verification Assessment/ reflection

- http://www.unco.edu/cetl/sir//statingoutcome/document
- Bloom, B.S (1956), "Taxonomy of Educational objectives" Cognitive Domain. New York: David Mckay. Co.
- Krathwohl.et.al., Taxonomy of Educational objectives, Hand book II: Affective Domain: Mckay: New York
- Anderson, W.L and Krathwohl., D, R, A Taxonomy for Learning, Teaching and Assessing: A Revision of Bloom's Taxonomy of Educational objectives, Allyn & Bacon: Boston.
- Gronlund, N.E (1970). Stating Behavioural Objectives for classroom instruction. London: MacMillan
- NCERT (1989). Instructional objectives of school subjects. New Delhi: NCERT
- Aggarwal. J.C (1996) Teaching of Social Science A practical Approach: New Delhi, Vikas Publishing house Pvt. Ltd.
- Chauhan.S.S. (2006) Advanced Educational Psychology, New Delhi
- Mangal S.K (2007) Human Development and Learning Crow. L.D and Crow Alice
- Entwistle N.J (1987) Understanding classrrom Learning London: John Wiley
- Freire, Paulo (1998) Pedagogy of the oppressed, USA: continuum pub. Com
- Gardner.H (1983) Frame of Mind: The Theory of Multiple Intelligence. New York: Basic Books
- Goleman, D (1995) Emotional Intelligence. New York: Mcgraw Hill
- Kincheloe.J (2008) Critical Pedagogy (2nd Edition) New York: Peter Lang
- NCF (2005), KCF (2007)

Unit 4 Methods and Strategies in Geography Instruction (16 hours + 8 Hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To analyze the unique features of different methods suited for Geography instruction To develop proficiency in selecting suited methods and strategies in varied contest and content in Geography education 	 Methods of teaching Geography Need, significance, importance Lecture. Discussion/ Project, Source, storytelling, Regional method Debate, seminar Instructional strategies in Geography Meaning, purpose characteristics Strategies based on NCF/ KCF Various techniques of instruction in 	Discussion Seminar Buzz session Verbal learning Debate Collaborative learning Comparing different method & strategies • Group	 Report presentation and verification Seminar preparation presentation and report CE.2 Assessment/ reflection

3. To differentiate methods strategies	Geography	discussion and
and techniques of Geography	Observation/ Narration/ Dramatization	prepare notes Present assignments
instruction	 Co-operative/ collaborative learning Brainstorming and Peer- tutoring 	Present assignments Internet access Web search

- www. books google.co.in
- www.flipkart.com
- http://www.celt.iastate:edu/creativity/techniques.html
- Alexey Semenov, UNESCO (2005) Information and Communication Technologies in Schools: A hand book for Teachers.
- Roblyer M.D (2008) Integrating Educational Technology into Teaching. New Delhi: Pearson
- Fitchman & Silva (2003) The Reflective Educator's Guide to classroom Research. California: corwin Press, Inc
- Entwistle N.J (1981) Style of Learning and Teaching London: John Wiley and sors
- Fosnot. C (1998) Constructivism: Theory Perspective and Practice. New York: Teacher's college Press

EDU – 05.11: Pedagogical Content Knowledge Analysis- Geography

/Hours of Interaction -60 (Instructional) +30 (activities/Process)

Objectives:

- To understand the key aspects involved in systematic PCK analysis
- To develop skills in analyzing the content of Secondary level Geographic content materials
- To justify the importance and phases of instructional planning in Geography
- To equip prospective teacher educands in developing teaching skills through micro- teaching practices
- To conscientize the inevitable role of various instructional support in effective instructional practices.
- To become competent in developing suitable testing mechanisms

CONTENTS:

• Unit 1 : Introduction to Pedagogic Content Knowledge Analysis

• Unit 2 : Instructional Planning and Designing Lesson Templates

• Unit 3 : Essential Requirements for Teaching Geography

• Unit 4 : Instructional Resources in Teaching and Learning of Geography

Unit 1. Introduction to Pedagogic Content Knowledge Analysis (16 Hours + 7 Hours)

	Learning Outcome		Major concepts	Strategies & Approaches		Assessment
2.	To understand the key aspect involved in systematic PCK analysis To establish relationship between Pedagogic knowledge with content analysis	•	Pedagogic content Knowledge (PCK) analysis – Meaning, definition, objectives scope, Significance and dimensions Relationship between PCK and Content analysis identifying facts, concepts, principles etc.	Narrative expression Assignment Meaningful verbal learning Textbook analysis Collaborative	• • •	Assessment of learning process and reflections Brief report on text book analysis Content analysis presentation
3.	To develop skill in analyzing the	•	Content analysis of secondary level	learning		

content of secondary level	Geography and Economic content materials	Group discussion	
Geography and Economics content		Prepare content	
materials		analysis of a unit by	
		each student after	
		discussion	
		Web search	
		Internet access	

- www. Moodle.org
- http://www.csun.edu/Science/ref/pedagogy/pck
- http://en.wikipedia.org/wiki/technological pedagogical
- Barnard.H.C (1963) Principles and Practices of Teaching Geography, Bihar Hind Grandh Academy, Patna
- Prasad Jagdish (1982). Teaching of Geography, Vinod Pustak Mandir, Agra
- Singh.H.W (1985). Teaching of Geography, Vinod Pustak Mandir, Agra
- Robin Alexander (2008) Essay on Pedagogy.USA: Routledge
- Arora M.L (1970). Teaching of Geography, Prakash Brothers, Ludhiana
- Social science II textbook of std. 8, 9 & 10 of Kerala
- Kaur, Dhian & Chandana; P.C (2006). The Earth: Ludhiana: Kalyani Publishers
- Singh R.L, Singh, Rana, P.B (2002). Elements of Practical Geography. New Delhi: Kalyan Publishers
- Philp. M Anderson (2009) Pedagogy. New York: Peter Lang Publishing, Inc.

Unit 2. Instructional Planning and Designing Lesson Templates (19 Hours + 8 Hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To justify the importance and phases of Instructional Planning in Geography To capacitate systematic planning and designs of lesson templates To develop skills in preparing lesson templates 	 Planning for instruction – need and importance Types of plan – Year Plan, unit plan/ Syllabus grid, Resource Plan- their need, significance steps and procedure for preparation Lesson templates/ Teaching Manuals – Need characteristics, principles, values and advantages Designing / format and steps in criticism 	Group discussion Co- operative learning Meaningful verbal learning Prepare model year plan/ unit plan Prepare script for video lesson Prepare ICT enabled lesson Video lesson / demonstration classes -observation Online learning Web search	 Discussion lesson Videos observation Script for video lesson ICT enabled lesson plans Demonstration lesson Criticism lesson (practical evaluation) Internal Test (Unit 1 & 2) CE-1

- http://answers . yahoo.com/question
- http://www.ierg.net/lessonplans/unit plans.php Geography textbook of standard 8-10th of Kerala state /Teachers Hand book in Geography for standards 8, 9 & 10
- Green. G.H (1978) Planning the lesson, London; Longman
- http://en.wikipedia.org/wiki/wiki
- Sigh. R.L, Singh, Rana, P.B (2002) Elements of Practical Geography: New Delhi, Kalyan Publications NCERT: Standard 11th 12th Geography textbook

- NCERT: Geography practical text book
- Verma. P.O and Vedanayagam, E.G. (1987), Teaching of Geography Sterling publishers private limited, New Delhi

Unit 3. Essential Requirements for Teaching Geography (14 Hours + 6 Hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To equip prospective teacher educators in developing teaching skills through micro- teaching practices To generate skill orientation among prospective teacher educands through practical experiences To familiarise with the basic requirements for learning 	 Requirements for learning –process skills and pre- requisites Student skills and student efforts in learning Teaching- learning skills and competencies Skills in using ICT Micro- teaching Meaning, concepts, principles Phases, steps, skills Link practices Lesson templates, practice and assessment mechanisms 	Demonstration Reflective practices General discussion Analysis of video performance Experimental learning Web search Online learning	 Micro- teaching lesson notes/ plans (Ten skills) one skill per student Performance in skill presentation (practical evaluation) Assignments

- http://www.scribd.com/doc/24590843/micro-teaching skills
- Allen, D and Ryan. K(1969) Micro teaching. London. Adison Wesley
- Kochhar. S.K (1985). Methods and Techniques of Teaching New Delhi: Sterling publishers PVt. Ltd
- Varma. O.P & Vedanayagam E.G, (1993), Geography teaching, New Delhi, sterling Publishers
- Edgar. M & Rao. B (2003) Teaching social studies successfully, New Delhi: Discovery Publishing House
- Dave, Pushkin (2001). Teacher Training California: ABC CL 10
- Cooper, James. M (1990). Classroom Teaching Skills. US: DC Health. Co

Unit 4. Instructional Resources in Teaching and Learning of Geography (14 Hours + 6 Hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To conscientize the inevitable role of various instructional support in effective instructional practices To acquire skills in constructing and using different instructional aids To familiarize with the basic resources for teaching Geography 	 Instructional Resources- need, significance, values and types Local resources and its importance in Geography Text book – importance, characteristics and criterion for selection Hand books, Sourcebooks, Workbooks, Reference books Graphic aids – charts graphs, picture, maps, atlas 3D- aids –globe, models, relics Audio/ A V aids- Radio, TV, film, computers Display boards- chalkboard, bulletin boards, Interactive board Projected aids- OHP, LCD, Video Activity aids – Excursion, field trips 	Demonstration Illustration General discussion Workshop Displays Lecture Observation Preparing assignments Internet access Web search	 Handling of various instructional aids Seminar (preparation presentation and report) CE-2 Observe and practice usage of learning aids during school induction programme and practice teaching Working for preparation of innovative learning aids/instructional resources

- http://e.wikipedia.org/wiki/wiki Anora. M.L (1979) Teaching of Geography, Prakash Brothers, Ludhiana
- Gopill. G.H (1966) Teaching of Geography, Macmillan, London
- Varma O.P & Vedanayagam, E.G (1993 Geography Teaching, New Delhi, Sterling Publishers
- UNESCO Source book in Geography Teaching (1982), London, Longman's Green and company
- Barnard. H.C. (1963), Principles and Practices of Teaching Geography Bihar Hindi. Grandh Academy, Patna
- Singh. EW (1985) Teaching of Geography, Vinod Pustak Mandir, Agra
- Skinner, B.F (1998). The Technology of Teaching New Jerse, Prentice Hall
- Entwistle. N.J (1982) Understanding classroom learning London: John Wiley

EDU- 04.12 - THEORETICAL BASE OF COMMERCE EDUCATION

(Theoretical discourses - 60 Hrs + CE- 30 Hours)

Objectives

- To familiarize with the conceptualized version of components required to enter in teaching profession
- To mould the prospective teacher educators to uphold the professional spirit in diverse angles
- To equip with varied dimensions of commerce education strands
- To compete with constructs aims and objectives of teaching commerce
- To gain an outlook of key ideology in the psychological bases in commerce education
- To analyze the unique features of different instructional methods suited for teaching commerce
- To proficient in select most appropriate teaching methods in varied context and content
- To opt and practice apposite techniques to extract process and product in commerce teaching
- To interlock 'strategies in teaching' in effective instructional practices of commerce education
- Contents:
- Unit: 1 Introduction to Teaching and Learning
- Unit: 2 Nature, Scope and Development of Commerce Education
- Unit: 3 Aims and objectives of teaching Commerce
- Unit: 4 Instructional Methods, Techniques and strategies in Commerce Teaching

Unit: 1 Introduction to Teaching and Learning (14 Hrs + 6 Hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1. To familiarize with the	• Teaching - profession and service, Principles	Meaningful verbal	• Idea generating exercises
conceptualized version of	and Maxims of teaching, Instruction, Factors	presentation	• Case analysis presentation
components required to enter in	determine effective instruction, classroom	Brain storming	
teaching profession	Interactions, Learner, Learning, Learning	Case analysis of 2/3	
	environment, classroom as a social	famous teachers	
	laboratory.	Buzz session to	

2.	To mould the prospective teacher	•	Teacher, Teacher as professional; Continuing	generate varied roles	
	educators to uphold the		Professional Development (CPD), Teacher	of an ideal teacher	
	professional spirit in diverse angles		responsibilities; multifarious roles:		
			knowledge worker, facilitator, scaffolder,		
			mentor, social engineer, counselor, reflective		
			practitioner and digital migrant.		

Unit: 2 Nature, Scope and Development of Commerce Education. (12 Hrs + 7 Hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To acquaint with the basic concepts of commerce as a discipline To equip with varied dimensions of commerce education strands. To integrate essential inter disciplinary attributes in commerce education. 	 Commerce as a distinctive discipline, Scope of commerce in nation's prosperity, Modernization of commerce through technological advancement and LPG. Commerce education: Meaning, Definitions and Nature – Academic and Vocational. Significance and Historical development of Commerce education. Values attained through commerce education. Interdisciplinary approach in Commerce Education Correlation of Commerce education with other subjects – Geography, Mathematics, Economics, and Statistics. 	Meaningful verbal learning Participatory approach Open forum discussion Co- operative learning Discussion	 Preparation of report on teacher Presentation Comparison grid preparation - Correlation of Commerce education with other subjects

UNIT: 3 Aims and objectives of Teaching Commerce (14 Hrs + 10 Hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To compete with constructs aims and objectives of teaching commerce To endow with the significance of Taxonomy of instructional objectives in commerce education. 	 Bloom's taxonomy of Instructional objectives (Revised) Objectives –NCERT Curricular objectives and Principles of 	General discussion Analytical study Group investigation Focus group	Comparative analysis - Bloom's taxonomy of Instructional objectives traditional with Revised one
-	framing curricular objectives.	discussion	

UNIT 4: Instructional Methods, Techniques and Strategies (20 Hrs + 7 Hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment		
1. To analyze the unique features of different instructional methods	appropriate instructional methods, Lecture	Seminar Debate	• Report presentation & verification		
suited for teaching commerceTo proficient in select most appropriate teaching methods in	Method, Project method, socialized methods - Group discussion, seminar, debate, symposia, workshop, Problem solving method, Case study, Source method,	Buzz session Quiz session			
varied context and content. 3. To opt and practice apposite techniques to extract process and		Problem solving method			
product in commerce teaching	 storming, Role play, Review, Dramatization, Buzz session, simulation, Quiz session. Instructional strategies - Co operative learning strategies, Collaborative learning strategies, Scaffolding strategies. 	Project method			

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EDU – 05.12: PEDAGOGIC CONTENT KNOWLEDGE ANALYSIS – COMMERCE

(Theoretical discourses- 60 Hrs + CE- 30 Hrs)

Objectives

- To understand the key aspects involved in systematic PCK analysis
- To develop skill and competencies in analyzing the content of higher secondary commerce text book
- To justify the importance and phases of instructional planning in commerce discipline
- To analyze the essential pre requisites/requirements for teaching commerce education
- To capacitate systematic planning and to develop skills in designing lesson templates
- To equip prospective teacher educands in developing teaching skills through micro teaching practices
- To conscientize the inevitable role of various instructional resources in effective instructional practices.

Contents:

Unit 1	Introduction to Pedagogical content knowledge analysis
Unit 2	Instructional Planning and Designing Lesson Templates
Unit 3	Essential Requirements for Teaching Commerce Education
Unit 4	Instructional Resources in Teaching and Learning of Commerce

Unit: 1 Nature and Scope of Pedagogical content knowledge analysis (11 Hrs + 6 Hrs)

Learning Outcome		Major concepts		Strategies & Approaches	Assessment			
1.	To understand the key aspects	Pedagogical	content knowledge a	analysis	Narrative expression	•	Pedagogic Content Kno	wledge
	involved in systematic PCK	(PCK) -Mean	ning, Scope, Features of	of PCK	session		analysis presentation	
2	analysis To be capable of establishing	analysis, sign commerce dis	nificance of PCK analyscipline.	lysis in	Text book analysis	•	Brief report on secondary text book and	higher alysis
2.	relationship between pedagogic with content analysis	Relationship content ana	1 00		Collaborative			
			learning					
		Procedure,	facts, concepts, prin	ncipies,	Discussion			

3. To develop skill in analyzing the			process, rules, equations.	Self directed learning	
	content of higher secondary	•	Content analysis of higher secondary		
	commerce text book		business studies and accountancy text book.		

Unit: 2 Instructional Planning and Designing Lesson Templates (20 Hrs + 12 Hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To justify the importance and phases of instructional planning in commerce discipline To capacitate systematic planning and designs lesson templates To develop skills in preparing lesson plan 	 Instructional planning –Importance, Phases, Types - Year plan, Unit plan, Lesson plan, Resource unit Procedure for the Preparation of year plan, unit plan and lesson plan Designing Lesson Templates – Business Studies and Accountancy. 	Descriptive method Group discussion Demonstration method Co-operative learning Meaningful verbal learning	 Discussion lessons (5 Nos) Video observation (2 Nos) Script for video lesson(1 No) ICT enabled lesson plan(1 No) Demonstration lessons(3 Nos) Criticism lessons(5 Nos)

Unit: 3 Essential Requirements of Teaching Commerce Education (16 Hrs + 6 Hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
To equip prospective teacher educands in developing teaching skills through micro teaching practices	 Essential requirements – Teaching Competencies and Skills. Micro teaching - Meaning, Phases, steps. Micro teaching – Lesson templates, Practice 	Experiential learning Demonstration Reflective practices	 Micro teaching lesson notes/plans (Ten skills/1 skill per student) Performance in skill presentation

2.	To generate skill orientation	and assessment mechanisms.	General discussion	
	among prospective teacher educands through practical	Skills in using ICT	Demonstration	
	experiences	• Link practice.	method	
		r	Analysis of video	
			records	

Unit: 4 Instructional Resources in Teaching and Learning of Commerce (13 Hrs + 6 Hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To conscientize the inevitable role of various instructional support in effective instructional practices. To acquire skills in constructing and using different instructional aids. 	 Instructional Resources: textbook, workbook, handbook, source book. Resource Mapping Instructional aids: Importance, educational values, classification of learning aids: projected, Non-projected and activity aids. Hands on experience: Computer, LCD Projector, Interactive white board and multi media 	Illustration Demonstration General discussion Workshop Displays Demonstration	 Text book analysis Workbook preparation Handling of various instructional aids

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- http://en.wikipedia.org/wiki/Wiki
- http://www.ierg.net/lessonplans/unit_plans.php
- http://www.csun.edu/science/ref/pedagogy/pck/
- http://en.wikipedia.org/wiki/Technological_Pedagogical

EDU - 04.13 :THEORETICAL BASE OF HOME SCIENCE EDUCATION

(Theoretical discourses - 60 hrs, CE - 30 hrs)

Objectives:

- To make the prospective teachers understand the scope and nature of Home Science teaching at different levels of learning
- To get acquainted with the aims and objectives of teaching and learning Home Science
- To acquire the fundamentals of theory and practice of principles and procedures of teaching and learning of Home Science
- To develop an understanding of different methods, strategies and techniques possible in teaching and learning of Home Science

Contents:

- Unit 1: General Introduction to Teaching and learning
- Unit 2: Home Science A conceptual Analysis
- Unit 3: Aims and Objectives of Teaching Home Science
- Unit 4: Methods and Strategies for Teaching Home science

Unit I: General Introduction to Teaching and Learning (10+5=15 hours)

	Learning Outcome	Major concepts		Strategies & Approaches		Assessment	
1.	To acquaint student teachers with	•	Classroom as an organization-Teacher and	Meaningful verbal	•	Performance Assessment in	
	the process of teaching learning in		Learner, Definitions of learning from	expression		group discussion	
	the changing scenario		different point of view (behaviouristic,	Group discussion	•	Tests	
2.	To familiarize with the maxims of		cognitive and constructivist),	Narrative expression	•	Peer evaluation	
	teaching		Interdependence of Teaching-Learning	sessions in small or			
3.	To understand the concept of		process.	medium groups			
	learning given by behaviourists,	•	Changing concept of classroom	PBL			
	cognitivists and constructivists		environment- classroom climate- An	Video streaming			
4.	To familiarize with the changing		introduction to conducive, learner friendly,				
	classroom environment		inclusive, Virtual learning environment				
			(VLE) and Classroom without walls				

5.	To develop understanding in		(CWW).
	Continuing Professional	•	Teacher as a professional- Teacher qualities,
	Development		competencies and responsibilities. Role of
6.	To acquaint with the qualities,		Teacher as manager, leader, knowledge
	duties and responsibilities of		worker, guide, supervisor, mentor,
	science teacher		scaffolder, social engineer, reflective
7.	To understand the changing roles		practitioner in teaching-learning process.
	of teacher in the present scenario	•	Maxims of teaching.
		•	Continuing professional development
			(CPD)-conceptual Analysis.

Unit 2: Home Science – A conceptual Analysis (10+5=15 hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1. To comprehend the nature and	Nature of Home science- Home Science-	Group discussion	Document analysis
scope of Home Science	Science as well as art, Areas of Home	Seminar	Online assessment
2. To identify concepts in Home Science related to science and art	scienceSignificance of Home Science education in	Workshop symposium	Quiz programme
3. To familiarize the development of science in India4. To familiarize the related branches	 school curriculum. Development of science education in India. 	symposium	
4. To familiarize the related branches of Home science	An introduction to National Scientific Policy Resolution of 1958, Indian Parliamentary and Scientific Committee & Role of NCERT		
	in science education.		
	Related Branches of Home science- Physiology, Microbiology, Biochemistry, Information Technology.		

Unit 3: Aims and Objectives of Teaching Home Science (25+4=29 hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To acquaint with the aims and objectives of teaching Home science To understand the different taxonomies of instructional objectives To identify the importance of objective based instruction 	T op whaten control	Meaningful verbal expression Narrative expression sessions in small or medium groups Lecture cum discussion -Digital presentation Blog searching Reflective practices Assignment	 Questioning Participation in group discussions Participant observation Tests Blog posting

Unit 4: Methods and Strategies for Home Science Teaching (25+6=31 hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To understand methods, strategies and techniques of teaching Home Science To distinguish between teacher initiated and learner initiated methods To identify and comprehend the different strategies, methods and approaches and techniques in teaching Home Science 	Strategies, Methods, Techniques and Approaches Teacher initiated methods- Lecture method and Lecture demonstration method. Learner initiated methods- Laboratory method, assignment method, Project method, Inductive method, Problem Solving	Meaningful verbal expression Group discussion Peer instruction Brain storming Debate Symposium Small group projects Explicit teaching	 Analysis in group discussion. Participant observation. MCQ based discussion. Project evaluation

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EDU- 05. 13: PEDAGOGIC CONTENT KNOWLEDGE ANALYSIS - HOME SCIENCE

(Theoretical discourses - 60 hrs, CE - 30 hrs,)

Objectives:

- To develop practical field based skill and experience in resource development and learning experience designing while transacting the Home Science curriculum
- To comprehend the dimensions of pedagogic analysis
- To analyze the Higher Secondary / Vocational Higher Secondary School Home Science Syllabus based on pedagogical Content Knowledge.
- To identify and develop teaching skills specially required for teaching Home Science
- To understand and prepare teaching manuals based on different instructional strategies.
- To prepare and use suitable learning aids for Home Science teaching.
- To enrich the capabilities of prospective Home Science teachers during and after the pre service education

Contents:

- O Unit 1: Introduction to Pedagogic Content Knowledge
- o Unit 2: Instructional Planning for teaching Home science
- o Unit 3: Essential Requirements of Teaching Home Science
- o Unit 4: Resources in Teaching and Learning of Home Science

Unit 1: Introduction to Pedagogic Content Knowledge (14+7=21 hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment	
1. To understand pedagogic content	• Pedagogic Content Knowledge (PCK)-	Meaningful verbal	 Analysis in group discussion 	
knowledge (PCK) and find its scope in teaching and learning 2. To understand the steps involved in PCK analysis	 Meaning and Scope. Content analysis- Meaning, Purpose and steps. PCK Analysis - Content Analysis, Learning outcomes, Pre requisites, Inputs that enrich 	Group discussion	 Report on Higher Secondary / Vocational Higher Secondary text book analysis Peer evaluation 	

3.	То	apply	the	principles	of	learning(Teaching-learning resources,	, workshop
	pe	dagogic an	alysis			Environmental inputs), Community	
						resources, Enrichment Activities,	, Net surfing
						Assessment techniques, Assignments.	
						• PCK Analysis of Home Science content	t
						from Higher Secondary/Vocational Higher	r
						Secondary school syllabus prescribed by	
						SCERT	

Unit 2: Instructional Planning for Teaching Home science (14+8=22 hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment	
 To acquaint with the planning of instruction To develop understanding of different types of planning To design lesson templates based on different formats 	Different types of planning- Purposes and steps-Year Plan, Unit Plan, Resource Unit, Lesson Plan- Herbartian steps Behaviourist	Meaningful verbal expression Group discussion Explicit teaching seminar co-operative learning	 Performance assessment in group discussion Assessment of optional notebook entries Discussion lesson template preparation (5) Observation and analysis of video of sample classes (2) Demonstration lessons (3) Blog creation 	

Unit 3: Essential Requirements of Teaching Home Science (18+10=28 hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To identify competencies required for a teacher to be professional. To develop understanding of various teaching skills To understand microteaching and its relevance in the development of teaching skills To design, practice and document micro lessons in Home Science 	 Teacher Competencies-Subject competencies, Pedagogical competencies, Technological competencies. Teaching skills- definition, core teaching skills, components of teaching skills Microteaching - Definitions and meaning, objectives, principles, steps, microteaching cycle Development of selected teaching skills- Set induction, Reinforcement, Explaining, Illustrating with examples, Probing questions, Using chalk board, Stimulus variation, Using audio-visual aids, discussion, promoting pupil participation, Classroom management. Link Practice 	Meaningful verbal expression Group discussion Document analysis and Peer evaluation Document analysis Video observation Reflective practices	 Analysis in group discussion Lesson segment preparation Observation schedule designing Think, Pair and Share sessions Recording and evaluation of Micro Teaching Lessons (10 skills / one skill per student) Criticism lessons (5)

Unit 4: Resources in Teaching and Learning of Home Science (12+7=19 hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1. To understand the importance of	• Design and development of Learning aids	Narrative expression	• Participant observation
learning aids and improvised aids	and improvised aids for effective learning,	sessions in small or	 Analysis in group discussion
in learning Home Science	significance of audio-visual aids in teaching	medium groups	• Class test
	learning of home science.		• Material Development Circles

2.	To acquire hands-on experience in	•	Text book- Qualities, how to evaluate a good	Document analysis	•	Practicals
3.	designing and developing suitable learning aids for classroom instruction To develop understanding in resource mapping		text book in Home Science Hand book, Source book, Work book, Reference book, Supplementary reading materials Resource Mapping	You tube resource tapping Drill and Practice Lab sessions	•	Involvement in subject association activity

- Julie Gess- Newsome & Norman G. Lederman(1999): Examining Pedagogical Content Knowledge: Netherlands, Kluwer Academic Publishers.
- JessyMathews., (2008). Teaching of Natural Science Theory, Perspectives and Practices. Methodology of teaching life sciences
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EDU – 101.2 : Yoga, Health and Physical Education

(2 credits – 60 hours & 50 marks)

Objectives

- To get acquainted with the meaning, aims and objectives of Physical Education
- To understand the concept of Physical fitness and chalk out physical fitness workout plans
- To get acquainted with type of exercises and understand the health benefits of physical exercises
- To get acquaint with the Yoga techniques (Pranayamas)
- To understand the Holistic and curative aspects of yoga
- To practice of Yoga & recreational activities

Contents

- Unit 1 Physical Education-def, meaning, aims and objectives
- Unit 2 Physical Fitness definition, components, activities
- Unit 3 Types of Exercises Health benefits, effect on physiological systems
- Unit- 4 Concept, principles and practice of Yoga.

Unit – 1: Physical Education-def, meaning, aims and objectives

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1. To get acquainted with the meaning, aim and objectives of	 Physical Education – 8 hours Definition 	Verbal Expression	1. Written test
Physical Education	 Meaning, need and importance Aims and objectives 		
	• Dimensions		
	General health of Students		

Unit – 2: Physical Fitness – definition, components, activities

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1. To familiarize the physical fitness components and the modes of developing them.	 Physical Fitness – 12 hours Definition Components of Physical Fitness Health related Physical Fitness Activities for developing Physical Fitness components Practice 	Theoretical orientation Fitness centre work out sessions Group activity	Projects(work out plans)Performance analysis

Unit – 3: Types of Exercises – Health benefits, effect on physiological systems

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 Provide knowledge and understanding regarding the scientific basis and benefits of Physical activity. To have a practical knowledge on physical workout plans 	 Types of Exercises – 15 hours Aerobic and Anaerobic Exercises Isotonic ,Isometric and Isokinetic Exercises Health benefits of Physical Exercises Effect of exercise on Circulatory, Respiratory and Muscular Systems Practice of exercises 	Theoretical orientation Fitness centre work out sessions Group activity	AssignmentsGroup projects

Unit- 4: Concept, principles and practice of Yoga.

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To get acquaint with the concept and techniques of Yoga (Pranayamas). Holistic and curative aspects of Yoga. Practice of Yoga 	 Yoga – 25 hours Meaning, Concept, history, need and importance of yoga. -Principles of Yoga -Elements of Yoga -Holistic and curative aspects of Yoga Science of Yoga - Yoga and memory -Components that improve memory; Asanas, Pranayama, Meditation. -Pranayama (breathing techniques) -Relaxation techniques: Asanas(steps to follow and benefits)practice of yoga. Padmasana Siddhasana Vajrasana Dhanurasana Bhujangasana Halasana Shalbhasana Yogamudra Naukasan 	Theoretical presentation Demonstration Group activity Partner practice forms.	 Group assessment Participation Practicing yoga Demonstration Partner assessment Individual assessment

Guidelines for Practical Work

Prepare a personal health chart - 5 marks
Practice of Yoga - 10 marks
Initiative, effort and participation in games - 10 marks

EDU – 101.3: ART AND AESTHETICS EDUCATION.

(Credit – 1, carries 25 marks/30 hours)

Contents:

Introduction to Art and Culture.

- Importance of art and art forms in Educational context.
- The need of aesthetic sense for teacher and learner

Fine arts.

• Knowledge and familiarization of Visual arts-painting, drawing, pencil drawing, charcoal and crayon.

Art and culture.

Cultural depiction in Monuments of India and Kerala, ritual arts, Folk arts, Regional arts forms in Kerala.

Practicals:

- Making of geometrical shapes, greeting cards, fabric painting, glass painting, models, charts etc -5 nos. (10 marks)
- Visit to any monument of cultural importance (local) and prepare a report (not exceeding 10 pages) on its artistic and cultural relevance (5 marks)
- Write up on any one art form or culture of India/ Kerala -presentation not exceeding 15 pages. (10 marks)

SEMESTER – II

Instructional hours per Subject: 90 (Theoretical Discourses – 60 & CE – 30 hours)

Perspectives in Education/Core Subjects:

EDU-06: Education in Indian Society.

EDU-07: Perspectives of Learning and Teaching.

EDU-08: Assessment in Education.

Curriculum and Pedagogic courses/Optional subjects:

EDU-09. 1-13: Curriculum and Resources in Digital Era:Education.

EDU-10. 1-13: Techno-Pedagogic Content Knowledge Analysis:

EDU - 06: EDUCATION IN INDIAN SOCIETY

Hours to transact: 90 hrs (Theoretical Discourses – 60 & CE-30)

Objectives

• To Develop an understanding of the evolution of education in Indian society

• To identify the role education in national development

• To recognize initiatives in modern Indian education

• To analyse the challenges in Indian education and the role of teacher in the changing scenario

• To familiarise with the emerging trends of education

Contents:

UNIT 1: MILESTONES IN INDIAN EDUCATION (35hrs)

UNIT II EDUCATION FOR ECONOMIC AND NATIONAL DEVELOPMENT (10hrs)

UNIT III: INITIATIVES IN INDIAN EDUCATION (20hrs)

UNIT 1V: CHALLENGES AND TRENDS IN INDIAN EDUCATION (25 hrs)

UNIT 1: MILESTONES IN INDIAN EDUCATION (35 hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To develop an understanding of the evolution of education in Indian society To acquaint with existing educational policies and commissions in India To understand changes of education system in Kerala 	 Dravidian education- social structure-literature-Institutions for scholastic, recreational and legal functions- role of 'salai 'in higher education Vedic education-characteristics and curriculum- significance of Upanishad in maintaining world peace and sustainable development - vidya and vaidya, two pillars of a civilized society. Buddhist education- aim of education and curriculum- 	Historical method Integrating ICT Lecture-discussion e- learning Document analysis Historical method	 Role Performance Analysis in group Discussion Involvement in Debates Seminar Presentations Assignments Internal Test
	 Significance of non violence and attitude 	Tristorical filetilou	

against materialistic life style. • A brief account on history of Indian education during British period • Education in post independent India: Radhakrishnan Commission (1948) Secondary Education Commission (1952-54) Kothari Commission report (1964-66) New Education Policy 1986 • Evolution of education in Kerala (Ancient to modern period)	ı:
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- Naik, J.P. (1998). The Education Commission and After. New Delhi: Publishing Corporation.
- Sripati, V. and Thiruvengadam, A.K. (2004), "India: Constitutional Amendment Making The Right to Education a Fundamental Right", *International Journal of Constitutional Law*, 2 (1): 148–158, Oxford University Press
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- Govt. of India (1992). Programme of Action (NPE). Min of HRD.
- National Curricular Framework-2005, 2009
- Right to Education Act -2009
- Knowledge Commission reports 2006, 2007, 2009
- UNESCO reports on Teacher education
- .Learning without Burden, Report of the National Advisory Committee. Education Act. Ministry of HRD, Department of Education, October, 2004.
- http://www.gktoday.in/rashtriya-ucchatar-shiksha-abhiyan
- UNESCO reports on Teacher education
- Learning without Burden, Report of the National Advisory Committee. Education Act. Ministry of HRD, Department of Education, October, 2004.
- http://www.gktoday.in/rashtriya-ucchatar-shiksha-abhiyan

UNIT 2: EDUCATION FOR ECONOMIC AND NATIONAL DEVELOPMENT (10hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To identify the relationship between education and national development To understand the role of IPR in national development 	 Social Indices of National Development Education as an investment- Share of GDP to Education 'Educated unemployment'- Causes and Remedies Education an instrument for intellectual property and inventions and discoveries for the welfare of the society- (IPR)-Industrial property rights- copy rights and related rights 	Meaningful verbal expression Document analysis Panel Discussion Debates Seminar	 Role Performance Analysis in group Discussion Extent of awareness on contemporary educational events

- Amirish Kumar Ahuja. (2007). Economics of education. Authors Press
- Jagannath Mohanty (1998). Modern Trends in Indian Education. New Delhi: Deep and Deep publications
- Humayun Kabir (1951). Education in New India. London: George Allen and Unwin Ltd.
- Subash Chandra Roy.(2009) Lecture on Intellectual property law. Chandighar National university, Patna
- Sharma. R.A. (2007). Economics of education. Surya Publication
- http://knowledgecommission.gov.in/

UNIT 3: INITIATIVES IN INDIAN EDUCATION(20 hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1. To familiarize with the functions of state and central Apex bodies of education to familiarize constitutional goals pertaining to education	 Programmes and Schemes -DPEP, SSA, RMSA, RUSA Apex bodies- CABE,NCERT,SCERT, DIET, UGC, NCTE, NAAC, NUEPA, NKC Constitutional Goals - Articles of Indian Constitution Pertaining to Education – 	Debates Lecture discussion Documentation and discussion	 Performance in debates Seminar presentations An extension activity related to the field of reference may be conducted

• Article 21 A, Article 14, Article 15, ,Article 30,Article 45, Article 46, Article 41, Article 51 A, Article 350A, Article 351 • Right to Education Act 2009		41, Article 51 A, Article 350A, Article 351			
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- Entwistle, N.(1990). Hand book of educational ideas and practices. London: Roputledge
- Mukopadhyaya et.al.(2008). Globalization and challenges for education. NIEPA. Shipra Publication
- Kohli, V.K. (1987). Indian Education and Its Problems. Haryana: Vivek Publishers.
- NCERT (1986). School Education in India Present Status and Future Needs, New Delhi.
- Knowledge Commission reports 2006, 2007, 2009

UNIT 1V: CHALLENGES AND TRENDS IN EDUCATION (25 hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To analyze the challenges of Indian Education To synthesis the significance of human rights education and peace education To keep awareness on futurology of education 	 Current Problems of Indian education – Primary- secondary- higher education Population Education – Need, Trends in Demography, Population explosion and adverse effects Human Rights education- Meaning and significance Peaceful coexistence and need for peace education Inclusive class room –challenges with special reference to child in need and care of protection and child in conflict law. Futurology of education 	Brain storming Debates Lecture- discussion ICT	 Analysis in group Discussion Extent of awareness on contemporary educational events

- Agarwal. J.C. (2006). Education for values, Environment and Human Rights. Shipra publications . New Delhi
- Dyakara Reddy. D. & Rau.(2007). Value education. Discovery publishing House. New delhi
- Dhananjaya Joshi.(2006). Value education in global perspectives, Lotus Press
- Yogendra Singh.(2007). Modernisation of Indian tradition. Rawat publication. New Delhi

EDU - 07: Perspectives of Learning and Teaching

(Theoretical Discourses – 60 & CE – 30 hours)

Objectives: To enable the student teacher to:

- 1. To understand the concept, nature and factors influencing learning
- 2. To gain an insight into the mental processes involved in learning
- 3. To develop an understanding of the process of learning through various theoretical perspectives
- 4. To familiarise the cognitive functions of learning
- **5.** To conceptualise the basics of neuroscience
- 6. To understand motivation and its educational significance
- 7. To develop an understanding of the concept and areas of Individual difference.
- 8. To explain the concept and types of 'exceptional children'.
- 9. To conceptualise Learning Disability and inclusive education
- 10. To develop skills to educate students with special needs.

Contents:

- UNIT I NATURE OF LEARNING
- UNIT II COGNITIVE PROCESSES IN LEARNING
- UNIT III THOERIES OF LEARNING
- UNIT IV INDIVIDUAL DIFFERENCES IN LEARNING

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UNIT I NATURE OF LEARNING 20hours (15T+5P)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To understand the concept, nature and factors influencing learning. To develop an understanding of the process of learning To familiarise the concept of memory and forgetting To conceptualise the role of motivation in learning 	 Meaning, Definition & Characteristics of learning, Factors affecting learning - learner, Method and Task variables, Learning curve, Plateau in learning, Study habits- Concept and methods, Transfer of Learning. Motivation- Concept, Types, strategies & educational Implications. Theory of 	Group discussion on factors affecting learning Brainstorming on method and task	 Test paper Assignments Practicum Presentation in seminars Performance based assessment

5.	To familiarise the concept of	motivation- Abraham Maslow,	variables of learning	
	achievement motivation	Achievement motivation		
			Field study on	
			intrinsic and extrinsic	
			motivation	
			Construction of	
			learning curve	

- Gates, A.S and Jersild, A.T (1970) Educational Psychology, New York: Macmillian.
- Aggarwal, J.C (1994) Essentials of Educational Psychology New Delhi :Vikas Publishing House
- Dandapani, S. (2007), A Text Book of Advanced Educational Psychology; New Delhi: Anmol Publications Pvt. Ltd.

UNIT II COGNITIVE PROCESSES IN LEARNING 20hours (15 T+ 5 P)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To familiarise the cognitive processes To conceptualise cognitive capacities To understand the relevance of cognitive skills in learning To familiarise the basic concepts of cognitive neuroscience 	 Sensation and Perception- factors, laws, Concept formation, Illusion cognitive functions -Thinking, Reasoning- Problem solving and Metacognition Memory- Concept; Types & Strategies to develop memory, Forgetting- causes and problems Cognitive neuroscience- basic concepts and relevance in learning 	Lectures Preparation of a Concept map Group discussion on strategies for improving Memory, Reasoning and Problem solving Memory test	 Test paper Performance based assessment Practical work

	Seminars	
	Discussion on the relevance of cognitive neuroscience	

- Hughes, A.G & Hughes, E.H(2005) Learning and Teaching, New Delhi, Sonali Publications
- Hunt, R. Reed & Ellis, Henry C.(2007) Fundamentals of Cognitive Psychology, New Delhi, Tata McGraw-Hill Publishing Company
- Skinner .E.C(2003) Educational Psychology, New Delhi, Prentice Hall of India Pvt.Ltd.

UNIT III THEORIES OF LEARNING 25 hours (15T+10P)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To develop an understanding of the process of learning through various theoretical perspectives To familiarise behaviouristic, constructivist and information processing approaches in learning To compare the different approaches in learning To develop learning strategies based on different perspectives 	 Behaviourist approach- Thorndike, Pavlov and Skinner. Cognitive approach- Gestalt, Kurt Lewin, Constructivist approach- Individual and Social- Piaget, Bruner &, Vygotsky. Social learning theory- Albert Bandura Gagne's hierarchy of learning. Expository learning- Ausubel Information processing approach to learning- Atkinson and Shiffrin 	Lectures Critical evaluation of different approaches - Use peer tutoring technique- List suitable learning activities based on constructivist approach Cooperative and	 Performance in activities Test paper Group discussion Assignments

	Collaborative Learning activities	
	Debate on Behaviourism vs constructivism	
	Psychology lab experiments (any two)	

- Mathur.S.S(2007) Educational Psychology, Agra-2, VinodPustakMandir
- Schunk, D.H (2011); Learning Theories: An Educational Perspective, India: Pearson
- Sternberg, R.J.(2006), Cognitive Psychology (4th ed.) U.K.: Thomson Wardsworth

UNIT IV INDIVIDUAL DIFFERENCES IN LEARNING 30 Hours (20 T+ 10P)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To develop an understanding of the concept and areas of Individual difference. To equip the teacher for understanding the learner in the context of their socio cultural and educational background To familiarize the specific factors leading to individual difference. To develop skills to educate students with special needs. 	 Concept of Individual Differences- Areas of individual Differences - Interest, Attitude and Aptitude Persons with disability- Types of disability - congenital, acquired, physical, mental and sub-categories: developmental delays, degenerating conditions, sensory, neural, orthopaedic, multiple disabilities. Models of Education for children with special needs: Special Schools, 	Lectures Field visits Institutional survey Identification of exceptional categories Design of learning	 Test paper Assignments Practical activities Field visit reports Performance assessment Observation reports Intervention activities Practicum

6.	To familiarise inclusive education To gain experiential learning in dealing special categories of students	•	Integrated Education, Inclusive Education. Understanding the educational needs of Exceptional learners - Gifted and Slow Learners, Underachiever, Mentally Challenged, ADHD, Learning Disability-Dyslexia, Dysgraphia, Dyscalculia and Dyspraxia, Autism, Deafness, Blindness, Deaf-blindness. Understanding accommodations, accessibility, Assistive technology in the educational environment. Inclusive education- National Policy and Acts RCI(1992),PWD (1995), NTA (1999), RTE (2012)	strategies for exceptional categories Seminars/ Discussions First hand experience with exceptional learners and learning disabled children Direct experience in special schools Screening of movies that have first hand educational experiences.	
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- Ker. C (1998) Exceptional Children, New Delhi, Sterling Publishers.
- Rao KS, Rao DB (2005) Gifted and Talented Education, Sonali, New Delhi
- Sharma P.L (1988), A Teachers Hand Book on IED Helping Children with Special Needs NCERT, New Delhi.
- Balsara, Maitreya (2011) Inclusive Education for Special Children: New Delhi: Kanishka Publishers and distributors
- Allport, G.W, (1960). Personality: A psychological Interpretation .NewYork: Henry Holt and Company .
- Anastasia, Anne (1982). Psychological Testing NewYork: Mc Millan Publishing Company.
- Baron, Robert A, (2003). Social psychology (10th ed). New Delhi :Prentice Hall of India

- Baron, Robert A, (2003). Psychological (3rd ed). New Delhi, 110092 :Prentice Hall of India.
- Benjamin, W.B., (1985). Hand book of Human Intelligence: Theories, Measurement and Application John, London: Wiley of Sons Inc.
- Beveridge, WIB, (1980). Seeds of Creativity London: Heinemann Educational Book Ltd.
- Carroll, H.A (1984) Mental Hygeine New York, Prentica Hall Publishing Co.
- Crow, L.A and Crow A Educational Psychology (1973) New Delhi: Eurasia Publishing House.
- Duric, L (1990)Educational Psychology New Delhi : Sterling Publishers.
- Entwistle, N.J. (1990). Handbook of educational ideas and practices. London: Routledge
- Ewen, R.B (1980)An Introduction to theories of Personality New York: Academic Press.
- Fisher, Ronald j. (1982). Social Psychology, An Applied Approach. New York: St. Martins Press.
- Hartney, Elizabeth (2008): Stress Management for teachers; U.K.: Continuum
- Jangira, N.K., etal (1991). Functional Assessment Guide. New Delhi : NCERT.
- Kinchelore, J.L., & Horn, R.A (Eds.) (2007) The Praeger Handbook of Education and Psychology; India: Praeger (vol. 1,2,3,&4)
- Kochar, S.K (1993), Educational and Vocational Guidance in Secondary Schools. New York: Sterling Publishers.
- Kuppuswami, B. (1967). An Introduction to Social Psychology. Bombay: AsiaPublishing House.
- Martin, garry and Pear, Joseph (2003) .Behaviourmodification: what it is and How to do it (7th Ed.). New Delhi: Prentice Hall of India . 110 092.
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- Reilly, P.R & Levis, E (1983) Educational Psychology New York: Macmillian Publishing Co Ltd.
- Sindhu, I.S., (2013); Educational Psychology: India
- Umadevi, M.R., (2009) Educational Psychology: Theories and Strategies for Learning and Instruction, Bangalore, Sathkruthi Publications

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- http://www.libraries.psu.edu/
- http://www.teacher.net
- www.moodle.org
- http://teamwork.sg/teamwork/schoolportal.aspx
- http://www.enhancelearning.co.in/SitePages/Index.aspx
- http://www.e-learningforkids.org/courses.html
- http://en.wikipedia.org/wiki/Wiki
- http://www.webopedia.com/welcomead/
- http://www.filehippo.com/
- http://www.padtube.com/Windows

EDU - 08 : ASSESSMENT IN EDUCATION.

(Theoretical Discourses – 60 & CE – 30 hours0

Objectives:

The student teachers will be able to:

- Understand the concept and nature of Assessment and Evaluation in education
- Understand the role of Assessment and Evaluation in teaching-learning process
- Examine the contextual roles of different forms of assessment in schools
- Acquaint with the new evaluation practices in education
- Realize different dimensions of learning
- Familiarize with various assessment procedures, tools and techniques
- Develop an investigatory attitude through a proper understanding of the paradigms of research
- Develop the capability for research embedded instruction
- Integrate action research practices in the teaching-learning context
- Develop ability in analyzing and interpreting assessment data
- Understand the methods of finding important statistical measures and representing data using graphs

Contents

UNIT I: Perspectives on Assessment and Evaluation (25 hrs)

UNIT II: Tools and Techniques to assess Learner's performance (20 hrs)

UNIT III: Basic Statistics for Analysis and Interpretation of Assessment data (25 hrs)

UNIT IV: Introduction to Research in Education (20 hrs)

UNIT I: Perspectives on Assessment and Evaluation (25 hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1. To Distinguish clearly between	Assessment and Evaluation in Education -	ICT enabled group	Document Analysis
assessment and evaluation	Purposes of Evaluation	discussion Lecture-	Field visit reports
2. To state the purposes of evaluation	Types of evaluation-Formative and	discussion	Class test
and to enlist various types of evaluation	Summative, Outcome Evaluation, Process	Group Discussion	Role Performance
3. To acquaint the students with	Evaluation, Self Evaluation, Peer Evaluation,	Meaningful verbal	Analysis in group
taxonomy of instructional	Product Evaluation, External Evaluation, Internal Evaluation and Objective based	Expression	Discussion
objectives	Evaluation Evaluation	Lapression	Seminar Presentations
4. To identify the factors to be	Brief introduction to Instructional objectives	Collaborative	
considered for successful	as the basis of scientific evaluation-Bloom's	interaction	
assessment	taxonomy of educational objectives;		
5. To familiar with the Current	Domains of learning – cognitive, affective	Lecture and	
practices in evaluation	and Psycho motor.	Discussion	
	Factors to be considered for successful		
	assessment		
	Current practices in assessment and		
	evaluation –CCE- concept, need and		
	relevance, Grading system- concept, types-		
	absolute grading, direct grading and relative		
	grading, merits and demerits. Grade Point		
	Average, Cumulative Grade Point Average,		
	Weighted average and weighted score/point.		
	Classification of learners according to their level of performance in Grading system (By		
	giving letter grades such as: A+, A, B+,B		
	etc.)		

UNIT II: Tools and Techniques to assess Learner's Performance (20 hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1. To understand different techniques of assessment like interview, self-reporting and testing and their applications in the field of education.	 General Techniques of Assessment- Observation, projects, assignments, worksheets, practical work, seminars and reports, Interview, Self reporting. Tools of Assessment- tests, checklist, rating 	Lecture Cooperative Learning Discussion	 Initiation nd performance in dramatization Role Performance Analysis in group Discussion Involvement in Debates
2. To familiarize with various tools of assessment and develops skill in applying in the field of research	scale, cumulative record, questionnaire, inventory, schedule, anecdotal record-concept, merits, demerits - relevance in the	Collaborative Interaction in Debates	Seminar PresentationsClass test(Practicum-Development)
3. To understand the qualities of a good evaluation tool4. To understand Norm Referenced and Criterion referenced	 field of research Characteristics of a good evaluation toolvalidity, reliability, objectivity and practicability 	Working on online Resources Group discussion and Presentation	of any one Evaluation tool)
Evaluation 5. To develop the ability to construct the tools such as Diagnostic Test and Achievement Test	 Norm-referenced tests and Criterion-referenced tests. Diagnostic Test and Achievement Test- 	Discussion& Presentation	
6. To familiarize with the relevance of online Examination, portfolio and rubric assessment	Concept, Purpose and Distinction between the two tests, Steps involved in the construction of an Achievement test and Diagnostic test, Types of items-Objective type, Short answer type and Essay type, Item analysis-concept, Teacher made and Standardized Achievement tests.		
	Online examination/Computer based Examination, Portfolio assessment and Evaluation based on Rubrics		

UNIT III: Basic Statistics for Analysis and Interpretation of Assessment data (25 Hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1. To understand the need,	• Role and importance of statistics in analyzing	Narrative expression	Evaluation based on
importance and meaning of	assessment data, Population and Sample	in small group	documentation.
Statistics	• Data, Types of Data- Primary & Secondary,	G D:	Role performance analysis in
2. To familiarize the relevance of	Quantitative & Qualitative	Group Discussion	group discussion
statistics in analyzing data 3. To understand the meaning and	Classification of Data, Frequency Table	Meaningful verbal	Participant observation
nature of data	(Grouped & Ungrouped)	Expression	(Practicum - on Graphical
4. To tabulate the data in a	Graphical Representation of Data- need and Graphical Representation of Data- need and Data- need	Active learning	Representation of any Data)
meaningful and systematic way	importance, Representing data using Bar Diagram and Pie Diagram, Histogram,	process,	
5. To appreciate the importance of the	Frequency Polygon, Frequency Curve and	process,	
organization of data	Ogives, Interpretation of graphical	Advance organizer	
6. To understand the advantages of	representations.	Approach	
graphical representation of data	•		
7. To represent data using appropriate		Techno- lab activities	
graphic representation and interpre	t	& Individual	
accordingly		assignments	
8. To find out different measures of	Descriptive Statistical Measures : Measures	Active learning	Evaluating the product and
central tendency	of Central Tendency- Mean, Median, Mode-	Process	• process
9. To select the most appropriate measures of central tendency for	concept and methods of finding each measure and when to use each measure. Measures of	Computation	
the treatment of data	Variability/Dispersion- Range, Mean	Mathematical	
10. To find out different measures of	Deviation, Quartile Deviation, Standard	problem solving	
Dispersion	Deviation, Quartic Beviation, Standard Deviation-concepts and methods of finding	Class wise discussion	
11. To select the most appropriate	each measure and When to use each measure.	through Lecture.	
measures of dispersion for the	Correlation-meaning and importance,	Presentation	
treatment of data	Concept of Coefficient of correlation, Types	Narrative expression	
12. To familiarize with the use of	of Correlation- Positive, Negative, Zero and	*	
correlation for data analysis	Perfect Correlation, Rank Difference Method	in small group	
13. To understand the method of	of calculating Coefficient of correlation,	Problem solving	
calculating correlation coefficient	interpretation of correlation.		
using rank difference method			

UNIT IV: Introduction to Research in Education (20 hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To understand the need and importance of research in general and educational research in particular To realize the relevance of hypothesis formation and the skill to form different forms of hypothesis To understand the nature of different types of research and their applications To familiarize with various types of research and their applications To get acquainted with planning and developing of action research To understand how to carry out action researches and prepare the reports To familiarize with planning and developing projects To understand how to carry out Projects and prepare the reports 	 Research- meaning, characteristics, functions of research, characteristics of a good researcher, Teacher as a researcher, need and importance of Educational research. Hypothesis- meaning, relevance/role/functions, forms of hypothesis-null form, prediction form, question form and statement form Types of research (based on purpose only)- basic/fundamental research, applied research and action research. Action research- Need, scope, characteristics, Steps involved:- Problem identification, Defining and Analyzing the problem, Formulating and Testing action hypotheses and Preparing the report - and Advantages and Limitations of action research, Integrating action research practices -need and scope, Preparation of Action research reports. Research Projects - Definition of a project, Steps involved:- Initiation (Providing/creating situations), Selection/Choosing, Planning/Designing, Execution, Evaluation and Recording/Reporting. Preparation of Project reports 	Lecture-discussion ICT enabled class wise discussion Collaborative interaction Group Discussion Critical evaluation of need for educational research Lectures Group discussion Meaningful verbal Discourse Lectures Group discussion Collaborative Interaction	 Role Performance Analysis in group Discussion Class test Seminar Presentations Analysis in group Discussion Class test

• Adamu S, O and Johnson. T.C.(1975); Statistics for Beginners, Onibonoje Press.

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- www.springer.com/education+%26+language/journal/11092
- www.researchphilosophy.blogspot.com/
- www.katho3.people.wm.edu/
- www.adprima.com/measurement.htm
- www.cmu.edu/teaching/designteach/teach/rubrics.html.

EDU – 09.1: Curriculum and Resources in Digital Era: Malayalam Education.

(theoretical Discourses – 60 hours & CE – 30 Hours)

Objectives:

- To get acquainted with principles/concepts of curriculum construction, different types of curriculum.
- To get acquainted with National/Kerala curriculum framework,
- different types of curriculum etc.
- To understand concepts related community based teaching and learning
- To incorporate e- resources in the pedagogic content knowledge analysis of Malayalam
- To understand the basic theories/concepts/perspectives of language acquisition, Chomsky's conceptions on language, the whole language approach etc.

Contents:

Unit – 1: Curriculum Design in Malayalam Education.

Unit -2: Community Based Teaching and Learning of-Malayalam.
Unit -3: E-Resources in Teaching & Learning of - Malayalam -

Unit – 4: Research Inputs Malayalam Learning -

Unit – 5: Researches in language and Language Learning -

Unit 1: Curriculum Design in Malayalam Education

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1. To get acquainted with principles/concepts of curriculum construction, National/Kerala curriculum framework, different types of curriculum etc.	 Principles of curriculum construction Curriculum and Syllabus General Approach on language learning in National/Kerala curriculum framework Different concepts in curriculum construction: Activity oriented, Issue based, Problem based curricula. 	Open discussion on the suitability of present day school curriculum Preparation of an essay on general approach on language learning in	 Participation in discussion/Relevance of ideas Essay

	National/Kerala	
	curriculum	
	frameworks	

Unit 2 Community Based Teaching and Learning of-Malayalam

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
To understand concepts related community based teaching and learning	 Library – as a community resource centre Importance -Different types School/Class/Subject libraries – ways for effective organization. Importance of agencies like Kerala Sahitya Academi, Kerala Bhasha Institute etc. Major Malayalam Book stores and publishers - DC Books, NBS, Mathrubhoomi etc. Local text Co operative and collaborative learning/teaching Language labs 	Assignments Prepration of short notes Seminar presentations Design and development of language lab activities	 Assignment papers Appropriateness of presentations Variety and suitability

Unit 3 E-Resources in Teaching & Learning of - Malayalam

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To get familiarized with the e- resources for teaching/learning Malayalam To incorporate e-resources in the pedagogic content knowledge analysis of Malayalam 	 Applications for writing Malayalam - Google input tool etc. Commercial typing software for Malayalam: ISM, iLEAp etc. Design and development of Malayalam blogs. Major useful sites for teaching and learning Malayalam. Use of Social Networking sites in teaching and learning Malayalam language and literature E- resources for teaching and learning Prose, Poetry and Grammar 	Familiarisation session on applications/software/ sites suitable for Malayalam teaching and learning Design and development of a blog for Malayalam class (group activity) Practicum	 Participation of students innovative ideas Comprehensiveness

Unit 4 Research Inputs Malayalam Learning

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
To understand the basic theories/concepts/perspectives of language acquisition, Chomsky's conceptions on language, the whole language approach etc.	 Recent researches in Malayalam Language and Literature Action Research Researches in language and Language Learning – New Perspectives Language a biological triggered behavior Language acquisition vs. Language learning. 	Seminar on conventional and new perspectives in learning language Preparation of short notes on LAD,	 Seminar paper/participation Correctness of notes Student participation

•	Language acquisition and cognitive development The parameters of LAD and Universal Grammar Chomsky on Language and thought	universal Grammar Discussion on supplied reading materials.	
•	The whole Language Approach		

Reference

• Anveshanangalkkuorukaippusthakam;

EDU- 10.1: Techno Pedagogic Content Knowledge Analysis-Malayalam.

(Theoretical Discourses – 60 hours & CE – 30 hours)

Objectives:

- To get familiarized with TPCK and Personalisd instructional strategies
- To get acquainted with the concept 'teacher as a techno pedagogue'
- To get familiarized with the concepts of networking in Malayalam Learning
- To understand concept of 'models of teaching' and to practice various models
- To get familiarized with the new global trends in Malayalam education.

Contents:

Unit – 1: TPCK and Self Instructional Strategies (Teacher as a Techno-Pedagogue) - Personalised Instruction

Unit − 2: Networking in Malayalam Learning.

Unit – 3: Models of Teaching.

Unit – 4: Global Trends in Malayalam Education.

Unit 1 TPCK and Self Instructional Strategies (Teacher as a Techno-Pedagogue)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
To get familiarized with TPCK and Personalisd instructional strategies	 Techno Pedagogic Content Knowledge Analysis Effective use of technology in the transaction of content Personalised Instruction Programmed Instruction : Linear, Branched Instructional Modules Computer Assisted Instruction - CAI, Computer Managed Instruction-CMI 	Discussion on reading materials given. Preparation of modules Workshop for the familiarization of CAI, CMI	 Participation Completeness and clarity Involvement in the workshop CE - Test

Unit 2 Networking in Malayalam Learning

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
To get acquainted with the concepts of networking in Malayalam Learning	 Major Malayalam blogs, face book pages etc. for Malayalam Teaching and Learning Community extension activities Use of Malayalam Wikipedia- content generation. Use of Social networking sites in developing academic networks among teacher and students. Uses of YouTube 	Active participation of students Opportunity to contribute innovative ideas Practical sessions based on blogs and other networking sources	 Participation Innovative ideas and suggestions Relating to the content-different ways practiced CE - Practicals (Two items)

Unit3 Models of Teaching

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
To understand concept of 'models of teaching' and to practice various models	 Basic concepts Concept attainment model. Synectics Model Role Play Model Advance Organiser 	Preparation of lesson plans based on models of teaching Demonstrations on models of teaching Practice sessions based on models	 Lesson plans Performance of the students CE - Subject Associated Activities

Unit 4 Global Trends in Malayalam Education

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
To get familiarized with the new global trends in Malayalam education.	 Global advancement of web Malayalam Online Libraries Online periodicals Online publications Mass Media 	Familiarisation online publications Discussion about online periodicals/ publications. Preparation of a list of online libraries Assignment/ Debate on mass media	 Performance of the students Discussions Assignment paper/Participation and performance in debates

Reference

Prof. MK Prasad	Kerala Shaasthrasaahitya Parishad	
Bhashapadanavum Bhodhana shaastravum	Dr.SreeVrinda Nair N	DC Books Kottayam
Bhashapadanavum Sidhaanthangalum	Dr.SreeVrinda Nair N	DC Books Kottayam
Divaswapna	GijubhaiBhadeka	National Book Trust
EnganeMalayalattilBlogam	Baburaj PM	DC Books, Kottayam
Gadyarachana	Dr.CK Chandrasekharan Nair	Kerala Bhasha Institute
Gadyashilpam	CV VasudevaBhattathiri	Kerala Bhasha Institute
Kerala Panineeyam	AR RajarajaVarma	DC Books, Kottayam
KuttikalePadanathilSahayikkam	PK Abdul Hammed Karassery	DC Books, Kottayam
MalayalaBhashaBodhanam	CV VasudevaBhattathiri	Kerala Bhasha Institute
MalayalaBhashadyapanam	Dr.KSivarajan	Calicut University
MalayalaKavithapadhanamgal	K Sachidanandan	Mathrubhoomi Books
MalayalaSahithyaCharithram	Dr. KalpattaBlakrishnan	Kerala Bhasha Institute
MalayalaSahithyaCharithram	PK Parameswaran Nair	Sahithya Academy
MalayalaSahithyaNiroopanam	Dr. PanmanaRamachandran Nair	Current Books, Kottayam

MalayalaSahithyaVimarshanam

Dr. SukumarAzheekkode

Mathrubhashabhodhanam:

Micro teaching Allen,D& Ryan, K MumbilullaJeevitham J Krishnamoorthi

Nalla Malayalam CV VasudevaBhattathiri NammudeBhasha EMS Namboothiripad Padyapadhathi sidhaantham Dr. Ravisankhar S. Nair PariyarthanonmughaVidhyabhyabyasamGuru NithyachaithanyaYathi

PravanathakalumReethikalum. Bindhu,C.M PrayogikaVyakaranam Irinjayam Ravi PurogamanaVidyabhyaasachinthakal PV Purushothaman

Thettillatta Malayalam Prof. PanmanaRamachandran Nair

TirakkadhaRachana – KalayumSidhanthvum Jose K Manuel Toto Chan TetsukoKoriyoNagi

ShaasthrasaahityaParishad

Tuition to Intuition Dr. KN Anandan

Ucharanamnannavan Dr.VRPrabodhachandran

VidhyabhyasathilViplavam Osho

Vidyabhyaasachinthakal AsisTharuvana

VidyabhyasaParivarthanattinoruAmugham

VyakaranaMitham SheshsgiriPrabhu

Online Resources

http://ml.wikipedia.org

https://www.facebook.com/groups/144983732246185

https://www.facebook.com/groups/paribhasha

http://www.keralasahityaakademi.org/ http://malayalambloghelp.blogspot.com/ http://www.topsite.com/best/malayalam

http://malayalam.kerala.gov.in/index.php

http://malayalaaikyavedi.blogspot.in/2015/04/blog-post 61.html

http://www.facebook.com/pages/മലയാളപഠന്ബോധന-സഹായി/628705850559130?ref=hl

http://bloghelpline.cyberjalakam.com/

http://blogsahayi.blogspot.in/

DC Books, Kottayam

Adison Wesley, London DC Books, Kottayam DC Books, Kottayam Kerala Bhasha Institute Kerala Bhasha Institute NarayanaGurukulam, Varkala

Scorpio, Calicut

Kerala ShaasthrasaahityaParishad

DC Books, Kottayam Current Books, Kottayam National Book Trust, Kerala

Transcend, Malappuram Kerala Bhasha Institute Silence, Kozhikkode Olive, Kozhikkode

Kerala ShaasthrasaahityaParishad

EDU - 09.2: Curriculum and Resources in Digital Era: English Education.

(Theoretical Discourses – 60 & CE – 30 hours)

Objectives:

- To familiarize with concepts related to Curriculum and Syllabus.
- To develop an understanding of the need and scope of
- school-community linkage.
- To identify and critique different types of Course Books.
- To explore possibilities of collaborative and cooperative learning.
- To sensitize with ways of engaging classes in inclusive settings.
- To evoke a need to regularly update research in the field of ELT

Contents:

Unit I Curriculum Designing in English Education

Unit II: Community Based Teaching and Learning of English
Unit III: E-Resources in Teaching & Learning of English

Unit IV: Research Inputs in English Learning

Unit I: Curriculum Designing in English Education (Duration :25 hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 Familiarize student teacher with the principles of curriculum construction and organization Grasp the relationship between curriculum and Syllabus 	 Principles of Curriculum construction and organization NCF 2005, 2009, KCF 2007 Critical Pedagogy Issue-based curriculum Social constructivism Curriculum and Syllabus, Curriculum-Types Language Curriculum Philosophical and Sociological 	Direct instruction Intro talk on the different Frame work available Verbal interaction Preparation of Check list and group	Evaluation of entry made in Reflective Journal

perspectives, Psychological and Linguistic Foundations	analysis of CB	
 Criteria for Selection of content 		
 Course book, Sourcebook 		

Unit II: Community Based Teaching and Learning of English (Duration :20 hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
Acquaint with teaching and learning resources available in formal and informal contexts	 Teaching and learning resources Formal & Informal learning contexts Role of Language Institutes and Local Library for learning English Society as Language Lab – Film Theatre Literary clubs, Language forums Interview and Talk by experts Exposure to events of national importance Inclusive Education- Concept, Need and significance; Ways of dealing with learners with LD/ Children with Special needs 	Field visit Hands-on experience Group discussion Sharing of learning experience	 Surveying Checklist Presentation of Field visit reports

Unit III: E-Resources in Teaching & Learning of English (Duration :25 hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
To analyze instructional materials in print and digital form for effective transaction	 Educational Websites Virtual Classrooms On line language games- vocabulary, grammar, spelling etc. E-Library E-resources for Prose Film adaptations - literature and social issues Audio podcasts Speeches Pronunciation and Conversation practice Online E-resources for Poems Critique of poems on websites Exploring text types Online Descriptive - Narrative- Expository-Argumentative Recitation 	Presentation of specimen digital resources followed by critique on effectiveness Individual /Pair work Exploring online resources and preparing report	 Performance evaluation Participant observation

Unit IV: Research Inputs in English Learning (Duration: 20 hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
To enable student teachers to promote student effort in learning	 Research in English Language Education and Second Language Pedagogy Identifying and locating significant concerns related to language learning 	Intro lecture Enquiry centred discussion	 Style of presentation Performance Examine communicative competence

•	Action Research Investigating any one learner issue	Group tasks by assigning specific	
	Review of Recent Research Studies in English Language Place of English in Inter disciplinary	roles	
	studies-Current trends		

Reference

Books:

- Aggrawal, J.C. (2002). Educational Research An Introduction. New Delhi, Arya Book Depot.
- Borg, Simon and Hugo Santiago Sanchez. (2015). International Perspectives on Teacher Research. Palgrave. ISBN 9781137376206.
- Burns, Anne. (1999). Collaborative Action Research for English Language Teachers. Cambridge University Press.
- Ellis, Rod. (2011). Language Teaching Research and Language Pedagogy. Wiley-Blackwell ISBN: 978-1-4443-3610-8
- Howatt, A.(1984) A History Of English Language Teaching. Oxford University Press.

Journals:

- Interdisciplinary Strategies for English and Social Studie http://apcentral.collegeboard.com/apc/public/repository/ap04_preap_1_inter_st_35891.pdf
- Issue Theme: Interdisciplinary Synergy: Teaching and Learning in Collaboration. English Journal, Vol 103.No. 3 January 2014 http://www.ncte.org/journals/ej/issues/v103-3
- The sociology of language teaching and learning.Ravi Bhushan, Theory and Practice in Language Studies, Vol. 1, No. 3, pp. 309-311, March 2011.

Select Online resources:

• Characteristics of a virtual classroom http://www.learndash.com/characteristics-of-a-virtual-classroom/

Curriculum

- http://www.preservearticles.com/2012010920286/the-main-principles-of-curriculum-construction-may-be-mentioned-as-under.html
- http://www.differencebetween.info/difference-between-syllabus-and-curriculum

How to Critique Poetry

- http://www.wikihow.com/Critique-Poetry
- http://www.writingroom.com/viewwriting/wr_how_to/How-To-Critique-A-Poem
- Four Types of Writing: http://hunbbel-meer.hubpages.com/hub/Four-Types-of-Writing
- Free-ENGLISH.com: http://www.free-english.com/english/Home.aspx

Film adaptations

- Adaptation- novel to film: http://www.pbs.org/wgbh/masterpiece/learningresources/fic adaptation.html
- Adaptation: From novel to film: http://d2buyft38glmwk.cloudfront.net/media/cms page media/11/FITC Adaptation 1.pdf
- Masterpiece theatre: http://www.pbs.org/wgbh/masterpiece/learningresources/fic_about.html
- Inclusive education: http://nvpie.org/inclusive.html
- Internet TESL Journal, The http://iteslj.org/

Language forums

- http://www.usingenglish.com/forum/
- http://how-to-learn-any-language.com/forum/
- Learning Disabilities in the ESL Classroom: http://elt-connect.com/learning-disabilities-esl-classroom/

Online Language Games

- Games zone: http://www.english-online.org.uk/games/gamezone2.htm
- Quia: http://www.quia.com/pages/havefun.html
- Vocabulary games: http://www.vocabulary.co.il/

Mobile learning

- A beginner's guide to mobile learning in ELT: http://englishagenda.britishcouncil.org/seminars/beginners-guide-mobile-learning-elt
- Mobile Learning in ELT: Survey 2013: http://nikpeachey.blogspot.in/2012/12/mobile-learning-in-elt-survey-2013.html
- Online forums: http://www.studentpulse.com/articles/414/3/using-online-forums-in-language-learning-and-education
- English Conversation Exercise Trip to FL American English Pronunciation: https://www.youtube.com/watch?v=4ogrBNpHPos

Pronunciation practice online

- 14 English pronunciation practice ESL Spoken English lessons Pronunciation common mistakes: https://www.youtube.com/watch?v=Xm2RIcGEVPw
- Pronunciation
- English Speaking Online: http://www.englishspeakingonline.com/
- Pronunciation tips: http://www.bbc.co.uk/worldservice/learningenglish/grammar/pron/
- Speaking & Pronunciation Practice: http://esl-writingtutor.com/practice/speaking-pronunciation.html

Podcasts

- Speaking skills for advanced learners of English: http://splendidspeaking.podomatic.com/
- The English we speak: http://www.bbc.co.uk/podcasts/series/tae
- Listen to English: http://www.listen-to-english.com/

ELT Research

- Action research: https://www.teachingenglish.org.uk/article/action-research
- Directory of UK ELT Research 2005-12: https://www.teachingenglish.org.uk/elt-research
- Nellie's English Projects: http://www.nelliemuller.com/Action Research Projects.htm

- The State of ELT Research in the UK: http://resig.weebly.com/uploads/8/1/4/0/8140071/panel_discussion_report_part_1_-the_state_of_uk_elt_research.pdf
- Online research: http://tewt.org/index.php/research
- National Curriculum Framework 2005: http://www.ncert.nic.in/rightside/links/pdf/framework/english/nf2005.pdf
- The Speech Site: http://thespeechsite.com/en/index.shtml
- Tips on Reciting: http://www.poetryoutloud.org/poems-and-performance/tips-on-reciting
- 8 Current trends in teaching and learning EFL/ESL: http://blog.tesol.org/8-current-trends-in-teaching-and-learning-eflesl/

Useful sites

- Best Websites for teaching and learning 2014: http://www.ala.org/aasl/standards-guidelines/best-websites/2014
- Cambridge ELT: http://uk.cambridge.org/elt/
- CILT (Centre for Information on Language Teaching and Research): http://www.cilt.org.uk/infos/index.htm

e-Library

- Hathi Trust's digital library: http://www.hathitrust.org/
- Open eBooks Directory: http://e-library.net/
- ProQuest eLibrary: http://www.proquest.com/products-services/elibrary.html

e-Resources for prose

- Early English Prose Fiction (ProQuest): https://library.rice.edu/collections/eresources/early-english-prose-fiction-proquest
- e-Resources for poem: http://www.poetryfoundation.org/learning/resources
- New E-Resources: http://hul.harvard.edu/ois/news/2014/html/2014-12-01_1049_system.html
- Resources for English and American Literature: http://www.lib.cam.ac.uk/eresources/subjectresources.php?subjectId=36
- Education sites: http://www.topedusites.com/
- ESLflow: http://www.eslflow.com/
- Learn English Central (British Council): http://www.learnenglish.org.uk/
- One Stop English Magazine: http://www.onestopenglish.com/
- TEFL.NET: http://www.tefl.net/index.html

EDU - 10.2 : Techno Pedagogic Content Knowledge Analysis: English

HOURS OF INTERACTIONS: 60 (Instructions) + 30(Activities/Processes) = 90 Hrs

Objectives

- To familiarize with concept of teacher as a Techno-pedagogue.
- Identity ways of networking both for knowledge enrichment and instruction.
- Familiarize with the scope and possibilities of Models of teaching as an instructional design.
- Develops an awareness of global trends in English Language education.

Contents

Unit I: TPCK and Self Instructional Strategies (Duration : 25 hrs)
Unit II: Networking in language learning (Duration :20 hrs)
Unit III: Models of Teaching in Language Practice (Duration :25 hrs)
Unit IV: Global Trends in English Language Education (Duration : 20 hrs)

Unit I:TPCK and Self Instructional Strategies (Duration: 25 hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 Familiarizes with the concept of teacher as Techno-pedagogue Identifies the inter-relationship between Content Knowledge, Pedagogic Knowledge and Technological Knowledge 	 Techno-Pedagogy Content Knowledge Pedagogic Knowledge Technology Knowledge Teacher as a Techno-Pedagogue Nature and scope of Self instructional Strategies Programmed Instruction - Linear-Branching Self Instructional modules Computer Assisted Instruction(CAI) Computer Based Instruction (CBI) Computer Assisted Language Learning (CALL) 	Comparison of same content available in different digital formats Group task to identify effectiveness of different digital content in realizing proposed learning objectives. Demonstration of teaching content with	Preparation of computer- based instructional material

	computer as aid and	
	exclusively using	
	computer	
	Pair and group work	
	to prepare computer-	
	based instructional	
	materials	

Unit II: Networking in language learning (Duration :20 hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 Familiarizes with ways of exploiting Internet resources for both knowledge enrichment and instruction Develops necessary skills for transmission of information and content using websites 	 Networking: Teacher –Teacher; Teacher-Institution; Teacher-Student Forum, Wiki, Blog Video Conferencing Professional communities -English Teacher Blogs Teacher Tube ESL Café LinkedIn Content writing Copy Writing Outsourcing Transcription Learning Management System Scope Storage Collaboration 	Introductory talk Demo in Smart Classroom Pair-share Collaborative tasks	 Group presentation Monitoring of activities in virtual world Checking Popularity on Web

Unit III: Models of Teaching in Language Practice (Duration :25 hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1. Familiarizes with Models of Teaching as an instructional design and identifies ways of employing them for teaching Prose, Poetry, Vocabulary and Grammar	 *Dimensions of a Model- Syntax, Social System, Principles of Reaction, Support System Instructional and nurturant effects -Direct Instruction Model -Concept Attainment Model -Advance Organizer Model -Synectics Model -Role Play Model 	Distribution of Specimen Lessons based on specific Models Group tasks for preparing lessons based on specific Models Assimilation and accommodation	 Ability to transact the content/ realize objectives in the plans prepared Checking effectiveness of Lesson Plans based on specific Models for chosen content

Unit IV: Global Trends in English Language Education (Duration: 20 hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 Familiarizes with global trends in Language education Familiarizes with aspects related to translation Gets an awareness of digital resources for Online tutoring 	 Exercises and pedagogic practices in countries where English is treated as L₁ Exercises and pedagogic practices in Asian countries as ESL Literary Translation as an exercise-poetry, fiction, prose, world classics from India, translation from Malayalam Literature, critical essays etc. Journal Clubs – Review and discussion of studies and articles in Journals 	Lecture-cum- discussion on different pedagogical practices. Close reading of literary texts followed by group translation	 Prepares samples Peer evaluation Performance in tests

Production of digital resources for	Comparison of
Online tutoring	articles in journals
	and magazines to
	identify form and
	style required for
	journal articles
	followed by critique
	of articles written by
	peers
	Critique of specimen digital resources followed by design and preparation of digital resources for Online tutoring

References

Books:

- Lesley, Farrel (etal.) Eds.) English Language Education in South Asia: From Policy to Pedagogy. Cambridge University Press.
- Joyce, Bruce and Marsha Weil. (1972) Models of Teaching. Prentice Hall Inc.; Englewood Cliffs.
- Lockwood, Fred. (1998). The Design and Production of Self-instructional Materials. Psychology Press.
- Sperling, Dave. (1997). The Internet Guide for English Language Teachers Prentice-Hall Regents. (1998 edition also available).
- Warschauer, Mark (etal.) (2000) **Internet for English Teaching TESOL**.

Journals:

- *Information & Communication Technologies in ELT*. Abdul Mahmoud Idrees, Ibrahim, Journal of Language Teaching and Research. Vol. 1, No. 3, pp. 211-214, May 2010 © 2010 Academy Publisher ISSN 1798-4769
- *Models of Teaching: A solution to the teaching style/learning style dilemma*. Susan S. Ellis Educational Leadership. January 1979.P274-77. **Online references:**
- *CALL* (computer assisted language learning): https://www.llas.ac.uk/resources/gpg/61
- *Collaborating with Wikis:* http://tewt.org/index.php/discussion-collaboration/wikis

- *Content Based Instruction in EFL Contexts.* Stephen Davies, : The Internet TESL Journal, Vol. IX, No. 2, February 2003. http://iteslj.org/Articles/Davies-CBI.html
- *Critical ELT Practices in Asia Key Issues, Practices, and Possibilities*. : Kiwan Sung and Rod Pederson (Eds.) Transgressions: Cultural Studies and Education Volume 82. Sense Publishers https://www.sensepublishers.com/media/209-critical-elt-practices-in-asia.pdf
- *Educational Blogging:* http://tewt.org/index.php/discussion-collaboration/blogs
- E-tivities with a Wiki: Innovative Teaching of English as a Foreign Language: http://eunis.dk/papers/p87.pdf
- How to Write and Publish an Academic Research Paper:

http://www.journalprep.com/FILES/How to Write and Publish an Academic Research Paper.pdf

Online reading material

- http://www.gutenberg.org/wiki/Main_Page
- http://onlinebooks.library.upenn.edu/archives.html

Online tutoring platforms

- https://buddyschool.com/
- http://www.tutorvista.co.in/index.php
- https://www.smarthinking.com/services-and-subjects/services/live-online-tutoring/

Quick guide to LMS: http://edudemic.com/2012/10/a-quick-guide-to-learning-management-systems/

- Rubrics for Web Lessons: http://webquest.sdsu.edu/rubrics/weblessons.htm
- Select Podcasting Sites: English as a Second Language Podcast: http://www.eslpod.com
- Specimen Linear Programme for teaching Grammar: http://programmedinstruction.tiddlyspot.com/#Nouns-17
- Teaching English in the Digital Age: http://digitalenglish.weebly.com/
- Translation activities in the language classroom: https://www.teachingenglish.org.uk/article/translation-activities-language-classroom
- Using computers in language teaching: http://esl.fis.edu/teachers/support/teach.htm
- Using Videoconferencing to Facilitate Various Perspectives on the Teaching and Learning Process Farren, M. (2002) http://www.computing.dcu.ie/~mfarren/perspectives.htm

What is technological pedagogical content knowledge?: Koehler, M. J., & Mishra, P. (2009), Contemporary Issues in Technology

- and Teacher Education. 9(1), 60-70. http://www.citejournal.org/articles/v9i1general1.pdf
- Writing a journal article review: https://academicskills.anu.edu.au/resources/handouts/writing-journal-article-review
- 12 Content-writing secrets of professional writer The Advanced Content Marketing Guide. Neil Patel and Kathryn Aragon. http://www.quicksprout.com/the-advanced-guide-to-content-marketing-chapter-5/

EDU - 09.3. : CURRICULUM AND RESOURCES IN DIGITAL ERA: HINDI EDUCATION

HOURS OF INTERACTIONS: 60 (Theoretical Discourses) + 30(Activities/Processes) = 90 Hrs

Objectives

- To be conversant with modern principles and trends in the construction and transaction of Hindi curriculum
- To develop experience to systematically correlate instructional practices with the community
- To attain proficiency in transacting the Hindi curriculum from a digital migrant outlook
- To generate a broad perspectives of e-resources in instructional practices and to develop skill in retrieving and transacting Hindi curriculum through e-resources
- To develop a positive attitude towards research to develop inquiry skills and scientific investigation

CONTENTS:

- **Unit 1 Curriculum Designing in Hindi Education**
- Unit 2 School and Community Based Instructional Resources in Teaching Hindi
- Unit 3 E-Resources in Teaching and Learning of Hindi
- **Unit 4 Research Trends in Hindi Education**

Unit 1: Curriculum Designing in Hindi Education (16 Hours + 7 Hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
Get acquaint with the modern principles and trends in curriculum construction and designing of instructional materials for curriculum transaction	 Curriculum – Concepts and principles of curriculum construction Approaches, types of curriculum Curriculum and Syllabus. Preparation and designing of curriculum transaction material for Hindi language instruction: Designing of student-teacher generated Digital texts, adapting free downloadable digital resource in Hindi, Familiarising with the use of basic tools and software in Hindi -Google transliteration (for Hindi typing), Hindi online dictionaries – 	Analytical approach Seminar Lecture Co-operative learning Workshop Library works Utilisation of web resources	 Group investigation summary reports Authenticating the trustworthiness of the networking resources – by peers and mentor

www.shabdkosh.com, Collection of Hindi sites - http://dir.hinkhoj.com,	
Searching Wikis for collecting materials	
for classroom instruction	

Unit 2: School and Community Based Instructional Resources in Teaching Hindi (18 Hrs + 7 Hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 Develop a desire to take active involvement in social and community affairs and develop skills in public relation Acquaint with teaching and learning resources available in formal and informal contexts Equip to systematically correlate instructional practices with the society 	 School and community based instructional resources, school to the community and community to the school, social and community involvement activities Formal and Informal learning contexts Role of PTA. MPTA Society as language lab: Film, Theatre Field visit, visit to central Govt institutions, interaction with native Hindi speakers, visiting institutions that promote Hindi language namely Kerala Hindi Prachar sabha, Dakshin Bharat Hindi Prachar Sabha, Regional Hindi Directorates etc., visit to SCERT, NCERT Organizing co-curricular activities: language forums, Hindi literary clubs and day celebrations Need and importance of library in Hindi education, developing library skills 	Discussion Field visit Hands-on experience Project method Visit to institutions	 Prepare a list of community resources- discuss and present the ways to utilize the community resources Report on field study Surveying

Unit 3: E-Resources in Teaching and Learning of Hindi (12 Hrs + 8 Hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 Analyze Hindi e-resources in instructional practices Familiarize with on- line resources, softwares and social networking Explore and practice infotainment activities in language 	 E-resources: utilization of e- resources, web resources, need for Hindi e-resource pooling and development of e-portfolio, M-learning as a pervasive method for effective Hindi instruction, e-learning, web based learning. Learning management system (LMS) in teaching learning of Hindi education—Familiarize with transliteration software for Hindi typing and editing, Formation of Hindi Net groups/online communities, e-content in Hindi for enhancing students language attainment- social networking, developing Blogs and posts in blogs, e-journals, pod casting, IT enabled instructional resources: On line resources, videos, YouTube resources, animations, film clippings, online Hindi lessons (HINDI PAAD) 	Online learning Demonstration Individual/ group work Web search	 Assessing the preparation of e-learning material Preparing report on online resources

Unit 4 Research Trends in Hindi Education (14 Hrs+ 8 Hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 Grasp the need and scope of research in Hindi instruction Develop research aptitude, and inquiry skills 	 An introduction to Research in Education- Need and scope of research in teaching-learning Hindi, need for developing innovative techniques and strategies 	Group Discussion Prepare a note/paper (utilizing internet) on the latest research findings on	 Evaluation of seminar presentation skill Performance assessment Examine communicative competence

Hindi teacher as a researcherAnalysis of Research outcomes in Hindi	pedagogical aspects in Hindi
education with respect to teaching and learning	Group Seminar
Action Research	Action Research
	Project

EDU- 10.3: TECHNO PEDAGOGIC CONTENT KNOWLEDGE ANALYSIS - HINDI

HOURS OF INTERACTIONS: 60(Theoretical Discourses) + 30 (Activities/Processes) = 90 Hrs

Objectives

- To prepare the prospective teachers to be techno- pedagogue and become aware of the concept TPCK
- To develop the skill of inculcating technology assisted Hindi learning
- To familiarize with the networking system for institutional and professional growth
- To empower in surfing digital resources for Hindi instruction
- To get acquainted with the importance of learning Hindi in a global perspective.

Contents:

- Unit 1 Techno Pedagogic Content Knowledge Analysis (TPCK) and Self Instructional Strategies
- Unit 2 Networking in Hindi Learning
- **Unit 3** Models of Teaching in Hindi
- **Unit 4** Global Trends in Education

Unit 1 Techno Pedagogic Content Knowledge Analysis (TPCK) and Self Instructional Strategies (18 Hrs+7 Hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 Acquire the concept of teacher as techno- pedagogue and become aware of the concept TPCKA Become conversant with technology enhanced learning Get acquainted with the self instructional strategies and need of creating e-mail and blogs for pedagogical analysis 	 Inter relationship between Technology, Pedagogy and Content, Teacher as Techno-Pedagogue Scope of Techno-Pedagogic Content Knowledge Analysis TPCK based content analysis of text books in Hindi from std V11 to X11 Creating technology enhanced learning environment, 21st century skills Collections of links to websites in Hindi, e-Newspapers and e-journals 	TPCK based content analysis through peer discussion and teacher intervention Demonstration On line and off line learning Group discussion	 Prepare a self explanatory note on 'Teacher as a Techno-Pedagogue' Document analysis

Self instructional strategies: Digital portfolio,online collaboration,use of multi media,web-portal,e-learning, technology integrated Problem Solving Learning, Computer Assisted Learning Packages, preparation of self instructional modules, creation of e-mail ID and blogs, preparation of PowerPoint presentations	Power point presentation	
• · · · ·		

Unit 2 Networking in Hindi Learning (12 Hrs+ 6 Hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 Develop the ability to acquaint with the various modes of networking for effective language instruction Equip to generate avenues for networking as a means to enhance Hindi language learning 	 Professional and Institutional growth: student and institution networking e-twinning Collaboration with any institution's online portal for institutional and professional growth Online learning: concept and system of online learning, virtual learning, creating social online groups for promoting teaching-learning of Hindi, Hindi language translation sites and softwares-Translation Buddy.com/Hindi Applications of Social Networking systems, online reflection using blogs, online forums and Hindi communities, communication 	Utilising e-learning resources Virtual tour to digital learning platforms Downloading / pooling competency enhancement packages/ resources Workshop Postings in blogs	 Performance assessment and feedback Evaluation of Online Assignments

sites, preparation of online notes	
• Awareness of student safety on the Internet,	
Copyright Issues and International Copyright	
laws regarding computer technology and	
Internet	

Unit 3 Models of Teaching (14 Hrs + 9 Hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
Familiarizes with different types of Models of Teaching as an instructional design	 Models of Teaching – Introduction and definition, dimensions of a model, classification of models, types and families Designing of effective Models for Hindi language learning – Concept Attainment Model, Role-Play Model, , Inductive – Deductive Thinking Model, Advance Organizer Model, Synectics Model – theory and classroom practices, preparation of lesson templates for each model 	Demonstration of models of teaching Preparation of lessons based on models of teaching Simulation	 Experience sharing Assessment of lesson plans using different models of teaching Peer assessment Examine the level of participation

Unit 4 Global Trends in Hindi Education (16 Hrs + 8 Hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 Familiarizes with global trends in language education Analyze the scope of Hindi language in the global context 	 Importance of Hindi as link language in the global context Hindi education and job opportunities in the global context Global trends in Hindi education Hindi language education in India and Gulf countries 	 Discussion Brain storming Problem solving Concept maps Online learning Assignment Report 	 Presentation Assessment of assignment/report

EDU - 09.4 : CURRICULUM AND RESOURCES IN DIGITAL ERA: SANSKRIT EDUCATION.

[THEORETICAL DISCOURSES - 60HOURS+ CE -30HOURS]

OBJECTIVES:

- To understand and analyse the curriculum and text books of Sanskrit from std 7-12 prepared by SCERT based on the theoretical principles of curriculum construction.
- To identify and to understand the Community based teaching learning resources in Sanskrit.
- To familiarize and practice e-resources in teaching and learning of Sanskrit.
- To conduct action researches based on classroom practices.

CONTENTS:

UNIT -1 CURRICULUM DESIGNING IN SANSKRIT EDUCATION

UNIT II- COMMUNITY BASED TEACHING AND LEARNING OF SANSKRIT E- RESOURCES IN TEACHING AND LEARNING OF SANSKRIT

UNIT IV- RESEARCH INPUT IN SANSKRIT LEARNING

Unit-1 curriculum designing in Sanskrit education[15HOURS+6HOURS]

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1. To understand and analyse the curriculum and text books of Sanskrit from std 7-12 prepared by SCERT based on the theoretical principles of curriculum construction.	organization- General principles of curriculum constructionConcentric and spiral approaches. Psychological and logical approaches. Modern trends in curriculum. Review of NCF2005,2009,KCF 2007, Theoretical base of kerala Curriculum framework critical pedagogy, issue based – curriculum-social constructivism-Outcome based Learning. curriculum- and Syllabus - Curriculum-Types -Importance of	Discussion. Lecture method. Meaningful verbal expression. Review. Presentation. Brain storming.	 Optional level focused group discussion. Participant observation- Observation. Examine the level of participation Participant observation. Participation. Observation. Observation and Criticism. Test-5Marks.

syllabus design-First language –second language- issue based Inclusion of classical and vedic literature-treatment of grammar alenkara and vretta. Time allotted to various stages Critical study of Sanskrit syllabus.	Discussion lessons- Designing templates and recording-5-and models of teaching-3 out of 515 marks.	
	Demonstration [observation and recording]-2. Criticism- performance,observat ion,and recording-5 and models of teaching-3 out of 5.	
	Critical analysis.	

UNIT- II: COMMUNITY BASED TEACHING AND LEARNING OF SANSKRIT[13HOURS+7HOURS]

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
To identify and to understand the Community based teaching learning resources in Sanskrit.	• Teaching and Learning resources. School, Library, Literary clubs, Language lab, Community- Formal and Informal Learning. Role of Language Institutes and Local Library for Learning Sanskrit. Society as Language Lab. –Film Theatre- Language Forums-Interview and talks by experts. Exposure to events of national importance. Samskritotsava-Sanskrit day celebrations-	Discussion. School induction programme.	 Role performance. Based on report and participant observation. Participant observation. Analysis and mapping. Observation. Analysis the group discussion. Participant observation. Practicum-10 Marks.

Observation of kalidasa and vyasa jayanthi. Visit to various historical places and importyance of sanskrit - archeology museum, mural paintings, Sanskrit universities, kalamandalams, panmana asramam, Rashtreeya samskrita samstan puranattukara etc. Inclusive Education-Concept, Need and Significance, Ways of dealing with learners with LD/Children with special needs.	Narrative expression session in small or medium groups. Community living camps. Visits.
	Interview.

UNIT-III-E-RESOURCES IN TEACHING AND LEARNING OF SANSKRIT[18HOURS+10HOURS]

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
To familiarize and practice e- resources in teaching and learning of Sanskrit.	Definition-Identification of e-resources. M- Learning in SLT-Sanskrit related Websites.—Virtual Classrooms- E-Library. E-Resources for Prose and Poems.	Demonstration and lecturing. Assaigments for preparing lessonplans based on E resources. Meaning full verbal expression. Video script-Developing, enacting,	 Observation. Participant observation. Role performance. Participant observation.

recordin	ng and
uploadi	ng-1- 10
marks.	
Or	
ICT bas	sed Lesson
designi	
	ng in Blog-1
Present	ation.

UNIT IV- RESEARCH INPUTS IN SANSKRIT LEARNING[14 HOURS+7HOURS]

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
To Conduct action researches based on classroom practices.	The importance of Research-Scope- Identifying and locating significant concerns related to the learning of the Sanskrit language learning-Action Research- Meaning and scope of action research. Investigating any one learner issue-Review of recent Research studies in Sanskrit language. Current trends.	Lecture cum discussion. Demonstration. Lecture method. Group discussion. Data collection .Preparation of tools. Report writing. Document analysis and Presentation.	 Observation. Written test. Valuation of reports. Role performance. Evaluation of daily reflective journals. Participant observation. Seminar/Presentation5-Marks.

EDU – 10.4: TECHNO PEDAGOGIC CONTENT KNOWLEDGE ANALYSIS: SANSKRIT.

[Transactional hours -60+ CE – 30 hours]

OBJECTIVES:

- To develop teacher as a Techno- pedagogue
- To familiarize with the concept of teacher as a techno-pedagogue.
- Identifies ways of professionalizing Language education in a techno-pedagogic scenario.
- To practice networking activities and related resources
- To understand the Global trends in Sanskrit Education.

CONTENTS:

UNIT-I TPCK AND SELF INSTRUCTIONAL STRATEGIES.
UNIT-II NET WORKING IN LANGUAGE LEARNING.

UNIT-III MODELS OF TEACHING IN LANGUAGE PRACTICE.

UNIT IV GLOBAL TRENDS IN SANSKRIT LANGUAGE EDUCATION.

UNIT I - TPCK AND SELF INSTRUCTIONAL STRATEGIES.[15HOURS+8HOURS]

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
To develop teacher as a Technopedagogue.	Techno-Pedagogy, Content knowledge, Pedagogic Knowledge, Technological Knowledge-Teacher as a Techno-Pedagogue, Nature and scope of self instructional strategies. Programmed instruction-Linear- Branching-Self instructional Modules- Computer Assisted instruction CAI- Computer based instruction CBI-Computer Assisted Language Learning CALL.	Lecture cum Demonstration. ICT based Lesson Template. Group discussions. Preparation of programmed instructional materials.	 Participant observation. Discussion and Participant observation. Analysis the role performance. Performance. Role performance. Test- 5 Marks.

Presentatio	n.
School indeprograme f week15 n	or one
Observation lessons-2 reporting dischool indumarks.	nos-and uring

UNIT II - NETWORKING IN LANGUAGE LEARNING[13HOURS+7HOURS]

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
To practice networking activities and related resources.	Net Working:-Teacher-Teacher; Teacher- Institution; Teacher-Student. Forum-Wiki- Blog-Video Conferencing. Professional Communities-Sanskrit teacher Blogs-Teacher Tube Content Writing-Copy Writing-Out sourcing-Transcription. Learning Management system-Scope-Storage- Collaboration.	Lecturing and Demonstration. Group discussion about the possibilities of Net working in language learning. Presentation.	 Observation. Role performance. Participant observation. Performance. Association activity-5Marks.

UNIT III MODELS OF TEACHING IN LANGUAGE PRACTICE.[18HOURS+8HOURS]

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
To prepare different types of Models of Teaching.	Dimension of a Model-Syntax, Social System, Principles of Reaction, Support system, Instructional and Nurturant effects Concept attaintment model, Enquiry Training Model, Advance Organizer Model, Synectics Model, Role play Model	Lecture cum Demonstration. Group discussion. Narrative expression. Lesson plan and demonstration class. Criticism Lessons. Presentation.	 Observation. Role performance. Participant observation. Role performance. Performance observation and recordings. Performance.

UNIT IV - GLOBAL TRENDS IN SANSKRIT LANGUAGE EDUCATION[14HOURS+7HOURS]

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
To understand the Global trends in Sanskrit Education.	Significance. Learning of Sanskrit in different Countries-Switzerland, Germany Austreliya, Arjentina, Britain, Thailand, United States, France, Japan, Nepal . Curriculum of Sanskrit in different Countries [-School-Higher Education-Research. Non formal way of Learning Sanskrit in these countries-Spiritual learning in	Demonstration. Group discussion. References/Internet. Collect resources. Collection of	 Observation. Role performance. Individual assessment. Presentation. Presentation. Participant observation. Assignment. Role performance. Peer instruction.
	schools.Practice of Yogasanas, Pranayama,		

	Dhyana etc.Influvence of Sanskrit literature on spirituality and existing spiritual practices like Art of living,IshaYoga,Sahajamargam ,Reiki etc.Daily reading of Ramayana,Bhagavadgita,Bhagavata .Stotrautras.Daily prayers of all religions. Spiritual leaders contribution to Sanskrit-Chattambiswamikal, Sreenarayanaguru,Sankaracharya. Swami Vivekananda. Influence of Sanskrit to various cultures-Thailand,Indonesia,etc. Comparative Education as a new Subject-Comparison with other languages[English ,Malayalam ,Hindi] Contribution of Sanskrit other deciplines, Medicine, Ayurveda, Music, Agriculture, Law etc.	knowledge. Group Discussion. Collect resources. Discussions. Meaning full verbal expressions. Presentation.	Performance. Practicals-10- Marks.
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EDU. 09.5: CURRICULUM AND RESOURCES IN DIGITAL ERA – Arabic Education

[Transactional hours -60+ CE - 30 hours]

Objectives:

On completion of the course the student teacher will be able to:

- Familiarize with the principles of curriculum construction and organization
- Acquaint with teaching and learning resources available in the formal and informal contexts
- Develop the ability to prepare instructional materials in various forms for effective transaction
- Explore and practice infotainment activities in language
- Enable to promote student effort in learning
- Equip to manage diverse learner needs in language classes
- Develop interest in innovative practices in the field of Arabic Language Teaching and learning

Contents

UNIT 1: CURRICULUM DESIGNING IN ARABIC LANGUAGE EDUCATION

UNIT II: COMMUNITY BASED TEACHING & LEARNING OF ARABIC LANGUAGE UNITIII: E-RESOURCES IN TEACHING & LEARNING OF ARABIC LANGUAGE

UNIT IV: RESEARCH INPUTS IN ARABIC LANGUAGE LEARNING

UNIT I: CURRICULUM DESIGNING IN ARABIC LANGUAGE EDUCATION URRICULUM

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 Familiarizes with the principles of curriculum construction and organization Acquaints with various trends in modern language curriculum 	 Curriculum: Meaning, Definition & Principles Approaches to curriculum construction Curriculum and syllabus, Types of Curriculum, language curriculum Criteria for selecting curriculum content Modern Trends in Curriculum Construction: Life Centered- Learner Centered,- Activity 	Introductory Lecture Discussion Group Discussion	 CE Assignments Discussion reports Debate Class test TE

Centered, Issue Based, Problem Pausing,		
Process Oriented		
• NCF(2005), KCF(2007)	Observation	
A critical review of Arabic Curriculum of state schools of Kerala	Narration	

UNIT II: COMMUNITY BASED TEACHING & LEARNING OF ARABIC LANGUAGE

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 Acquaints with teaching and learning resources available in the formal and informal contexts Develops the skill of applying community based learning resources in teaching and learning 	 Community Based Teaching and Learning Resources: Formal & Informal learning contexts Role of University Departments, Arabic Colleges, Dars system, Religious madrasas Society as Language Lab Role of films and Theatres, Newspapers, Magazines& Electronic Medias etc. Language forums, Interview & Talks by Experts, Exposure to events of National Importance; Celebration of International Arabic Day 	Introductory Lecture Discussion Group Discussion Observation Narration	 CE Observation Discussion report Assignments TE

UNITIII: E-RESOURCES IN TEACHING & LEARNING OF ARABIC LANGUAGE

	Learning Outcome		Major concepts	Strategies & Approaches		Assessment
 2. 	Explores and practice infotainment activities in language teaching Develops interest in innovative practices in the field of Arabic	•	E- learning and E teaching: Digital text books/E-book, Digital library & other online resources Designing of Digital text books, e-books and	Introductory Lecture Discussion	•	CE Workshop report Discussion report Observation

Language Teaching and learning	its application	Group Discussion	• TE
	 Adopting down loaded resources for 		
	teaching Arabic	Observation	
	 M-learning: Smart phones as Learning Devices and its scope 	Narration	

UNIT IV: RESEARCH INPUTS IN ARABIC LANGUAGE LEARNING

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To review and disseminate the recent researches in the field of Arabic language Equips to manage diverse learner needs by conducting actions Research in Arabic Language Education 	 Researches in Arabic Language Education and Second Language Pedagogy Identifying and locating significant concerns related to Arabic language learning Action Research –Investigating learner issues Review of Recent Research Studies in Arabic Language Education Place of Arabic language as a source of knowledge 	Introductory Lecture Discussion Group Discussion Observation Narration	CEReportsAssignmentsTE

References:

- Thatweeru Adai -al Muallim; kifayathu thaaleem wa thahleel al muthawasila: Hashim Uwaidha, Dar al Ilm al Malayeen, Labanan
- Thaaleemu al lugha al arabiyya baina nadriyya wa thathbeeq: Dr Hasan Al Shahatha, Dar Misriyya wa llubnaniya
- Thareeqathu Thadreesi Wa strateejiyyathuhu: Dr Muhammed Mahmmod al Haila, Dar Al Kitab Al Jamia, Al ain, UAE
- Thaaleem al lugha al Arabiya lighairi al nathiqeena biha : Makthab al tharbiyya al Arabi liduwal al Khaleej
- Thuruqu thadrees al lugha al Arabiyya lil madaris al muthawassitha wa thanaiyya : Hasan Mulla Uthman ; Dar alam al Kuthub lithbaa wa nnashshr wa thouzeea, Riyadh, KSA
- Thaqnolojiya al Thaaleem; Al wasail al thaaleemiyya wa thaqniyyath al thaaluum: Dr. Muhammed Assam Tharbay , Dar Hammurabi lilnashri wa thouzeea
- Asaleeb Wa Thuruqu al-Thadrees al Hadeesa : Dr. Muhammed Assam Tharbaya; Dar Hammurabi lilnashri wa thouzeea
- Providing teachers effective strategies for using technology techtrends: Brown B& Henscheid
- The systematic Design for Instruction: Dick,W& L(1990)

- Istheeratheejiyyath wa Maharah al Tharees :Kamal al Jundi; Dar al Jumhooriya lilthibaa
- Wasaail al Ithisal wa thaknologiya fithaaleem :Dr Abd al hafiz muhammed salama ,Dar al Fjkar
- Al thadrees wa Iadad al Muallim: Dr.S Abdulrahman qindeel Dar al Nashr al Duwali
- Murshid al Muallim: Richard D. C; Aalam al Kutub al Qahira
- Al Thadrees Ahdafuhu wa usasuhu wa Asaleebuhu Thaqweemu Nathaijuhu wa Thathbeeqathuhu: Dr Fikri Hasan Rayan, Aalm al kutub, al qahira
- Madkhal Ila Tharbiya al muthamayyizeena wal Mauhoobeen, Dar al fikar lial thibaa wa Nashr
- Kuthub al Mudariseen lil madaris al thanawiyya: Majli al wilaya lilbuhuzu thabaviyya wathadreeb
- Al tharbiya wa thuruqu thadrees: Salih abdul Azeez& Abdul Azeez Abdul Majeed; Dar al Maarif, Al Qahira
- Kaifa Thulqi Darsak: Yabhasu fi usooli al tharbiyath wa thadrees, Dar al Ilm lil Malayeen, Bairut.
- Al Muwajjah al Amali li Mudarrisee al Lugha Al Arabiyya: Abid Thoufeeq al Hashmi; Al Risala publishing House, Bairoot
- National Curriculum Frame work 2005, NCERT, New Delhi
- Teaching Strategies: A guide to better instructions, HMCo. New York
- Research in Education; Best J W, & Kahn J.V, prentice hall India Pvt Ltd.

EDU. 10.5: TECHNO- PEDAGOGIC CONTENT KNOWLEDGE ANALYSIS – ARABIC

(Theoretical Discourses - 60 hours & CE - 30 hours)

Objectives:

On completion of the course the student teacher will be able to:

- Develop an understanding of techno- pedagogy and its principles
- Familiarize with the ways and importance of networking for professional and institutional growth
- Develop the ability and acquires the teaching skills by practicing complex skills of classroom teaching
- Develop the skill of enhancing web based resources in teaching
- Familiarize with basic concept of models of teaching and apply in class room teaching
- Acquire the ability to design lesson templates based on selected Models of teaching
- Familiarize with the global trends and developments in pedagogic practices of Arabic language Education

Contents

UNIT I: TPCK AND SELF INSTUCTIONAL STRATEGIES
UNIT II: NETWORKING IN ARABIC LANGUAGE LEARNING

UNIT III: MODELS OF TEACHING IN PRACTICE

UNIT IV: GLOBAL TRENDS IN ARABIC LANGUAGE EDUCATION

MODULE: UNIT I: TPCK AND SELF INSTUCTIONAL STRATEGIES

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 Develop an understanding of Techno- pedagogic content knowledge Analysis Develops the ability and acquires the teaching skills by practicing complex skills of classroom teaching 	 Techno Pedagogic Content Knowledge Analysis (TCPKA) Inter relationship of Content Knowledge, Pedagogical Knowledge & Technological Knowledge Scope and challenges of TPCKA in Arabic language Teaching Teacher as a Techno Pedagogue 	Introductory Lecture Discussion Group Discussion Observation	CEReportWorkshop- productsTE

Knowledge generation/ production Use of web based resources of TPCK TPCK based content Analysis of selected units of TB of Secondary schools Programmed Instruction and Self instructional modules	Narration	
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UNIT II: NETWORKING IN ARABIC LANGUAGE LEARNING

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
Familiarize with the ways and importance of networking for professional and individual growth	 Networking in Teaching and learning Networking for professional growth Professional communities: E-twinning for institutional & professional growth Forming forum of online learning: Emails, blogs, teacher tube, for promoting teaching and learning of Arabic Learning Management System – MOODLE 	Introductory Lecture Discussion Group Discussion Observation Narration	 CE Observation Online- Assignments TE

UNITIII: MODELS OF TEACHING IN PRACTICE

	Learning Outcome	Major concepts Strategies & Approaches	Assessment
1.	Familiarize with basic concept of	 Models of Teaching: Introductory Lecture 	• CE
	models of teaching ways of	Basic Concepts and Properties:	 Assignments
	employing it teaching	 Syntax, Social System, support system, Discussion	Discussion report
2.	Acquire the ability to design lesson	principles of reaction ,Instructional &	• TE
	templates based of selected models	nurturant effects	

and apply in classroom teaching	Designs based on selected models of	Group Discussion
	teaching: Concept Attainment Model, Advance Organizer Model, Synatics Model	Observation Narration

UNITIV: GLOBAL TRENDS IN ARABIC LANGUAGE EDUCATION

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
Familiarizes with the global trends and developments in pedagogic practices of Arabic language education	 Position of Arabic Language in the Modern World Arabic language education in Kerala Pedagogic practices of Arabic Language in speaking / non speaking countries Critical Analysis of teaching and learning of Arabic Language in Kerala 	Introductory Lecture Discussion Group Discussion Observation Narration	 CE Discussion Seminar reports TE

References:

- Models of Teaching: Bruce Joyce & Marsha weil
- Thareeqathu Thadreesi Wa strateejiyyathuhu: Dr Muhammed Mahmmod al Haila, Dar Al Kitab Al Jamia, Al ain, UAE
- Al Mawajjah Al Fanni Li Mudarirsee al Lughal Al Arabiyya: Abdul Aleem Ibrahim; Dar al maarif, Al qahira
- Thaaleem al lugha al Arabiya lighairi al nathiqeena biha : Makthab al tharbiyya al Arabi liduwal al Khaleej
- Thuruqu thadrees al lugha al Arabiyya lil madaris al muthawassitha wa thanaiyya : Hasan Mulla Uthman ; Dar alam al Kuthub lithbaa wa nnashshr wa thouzeea, Riyadh, KSA
- Thaqnolojiya al Thaaleem; Al wasail al thaaleemiyya wa thaqniyyath al thaaluum: Dr. Muhammed Assam Tharbay , Dar Hammurabi lilnashri wa thouzeea
- Asaleeb Wa Thuruqu al-Thadrees al Hadeesa: Dr. Muhammed Assam Tharbaya; Dar Hammurabi lilnashri wa thouzeea

- Providing teachers effective strategies for using technology techtrends: Brown B& Henscheid
- Istheeratheejiyyath wa Maharah al Tharees :Kamal al Jundi; Dar al Jumhooriya lilthibaa
- Wasaail al Ithisal wa thaknologiya fithaaleem :Dr Abd al hafiz muhammed salama ,Dar al Fjkar
- Murshid al Muallim: Richard D. C; Aalam al Kutub al Qahira
- Al Thadrees Ahdafuhu wa usasuhu wa Asaleebuhu Thaqweemu Nathaijuhu wa Thathbeeqathuhu: Dr Fikri Hasan Rayan, Aalm al kutub, al qahira
- Thaqniyyath al thaaleem(Mafhoomuha wa douruha fi thahseeni amaliyyath al thaaleem wa thaallum: Badar Salih
- Kithab al Muallim : Majlis al wilaya lilbuhuzu thabaviyya wathadreeb (SCERT)
- Al tharbiya wa thuruqu thadrees: Salih abdul Azeez& Abdul Azeez Abdul Majeed; Dar al Maarif, Al Qahira
- Kaifa Thulqi Darsak: Yabhasu fi usooli al tharbiyath wa thadrees, Dar al Ilm lil Malayeen, Bairut.
- Al Muwajjah al Amali li Mudarrisee al Lugha Al Arabiyya: Abid Thoufeeq al Hashmi; Al Risala publishing House, Bairoot

EDU- 09.6 : Curriculum and Resources in Digital Era: Tamil Education

(Theoretical Discourses – 60 & CE – 30 hours)

Objectives:

- To familiarize with concepts related to Curriculum and Syllabus.
- To develop an understanding of the need and scope of
- school-community linkage.
- To identify and critique different types of Course Books.
- To explore possibilities of collaborative and cooperative learning.
- *To sensitize with ways of engaging classes in inclusive settings.
- To evoke a need to regularly update research in the field of TLT

Contents

Unit I Curriculum Designing in Tamil Education

Unit II: Community Based Teaching and Learning of Tamil
Unit III: E-Resources in Teaching & Learning of Tamil

Unit IV: Research Inputs in Tamil Learning

Unit I: Curriculum Designing in Tamil Education (25 hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
Familiarize student teacher with the principles of curriculum construction and organization Grasp the relationship between curriculum and Syllabus	 Principles of Curriculum construction and organization NCF 2005, 2009, KCF 2007 Critical Pedagogy Issue-based curriculum Social constructivism Curriculum and Syllabus, Curriculum-Types Language Curriculum 	Direct instruction Intro talk on the different Frame work available Verbal interaction Preparation of Check	III I COITCOUT (C

 Philosophical and Sociological perspectives, Psychological and Linguistic Foundations Criteria for Selection of content Course book, Sourcebook 	list and group analysis of CB	

Unit II: Community Based Teaching and Learning of Tamil (20 hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
Acquaint with teaching and learning resources available in formal and informal contexts	 Teaching and learning resources Formal & Informal learning contexts Role of Language Institutes and Local Library for learning Tamil Society as Language Lab - Film Theatre Literary clubs, Language forums Interview and Talk by experts Exposure to events of national importance Inclusive Education- Concept, Need and significance; Ways of dealing with learners with LD/ Children with Special needs 	Field visit Hands-on experience Group discussion Sharing of learning experience	 Surveying Checklist Presentation of Field visit reports

Unit III: E-Resources in Teaching & Learning of Tamil (25 hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To analyze instructional materials in print and digital form for effective transaction To explore and practice infotainment activities in language 	 Educational Websites Tamil Virtual University Virtual Classrooms Online language games- vocabulary, grammar, spelling etc. 	Presentation of specimen digital resources followed by critique on effectiveness	

	 E-Library E-resources for Prose Film adaptations - literature and social issues Audio podcasts Speeches E-resources for Poems Critique of poems on websites Recitation 	Individual /Pair work Exploring online resources and preparing report	
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Unit IV: Research Inputs in Tamil Learning (20 hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
To enable student teachers to promote student effort in learning	 Research in Tamil Language Education and Second Language Pedagogy Identifying and locating significant concerns related to language learning Action Research Investigating any one learner issue Review of Recent Research Studies in Tamil Language Place of Tamil in Inter disciplinary studies Current trends 	Intro lecture Enquiry centred discussion Group tasks by assigning specific roles	 Style of presentation Performance Examine communicative competence

EDU -10.6 : Techno Pedagogic Content Knowledge Analysis : Tamil.

(Theoretical Discourses – 60 & CE – 30 hours)

Objectives:

- To familiarize with the concept of teacher as a Techno-pedagogue.
- Identify ways of networking both for knowledge enrichment and instruction. Familiarize with the scope and possibilities of Models of teaching as an instructional design.
- Develops an awareness of global trends in Tamil Language education.

Contents:

Unit I: TPCK and Self Instructional Strategies.
Unit II Networking in Language Learning.
Unit III: Models of Teaching in Language Practice.

Unit III: Models of Teaching in Language Practice.
Unit IV: Global Trends in Tamil Language Education

Unit I:TPCK and Self Instructional Strategies (25 hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 Familiarizes with the concept of teacher as Techno-pedagogue Identifies the inter-relationship between Content Knowledge, Pedagogic Knowledge and Technological Knowledge 	 TCPK. Techno-Pedagogy Content Knowledge Pedagogic Knowledge Technology Knowledge Teacher as a Techno-Pedagogue Nature and scope of Self instructional Strategies Programmed Instruction - Linear- Branching Self Instructional modules Computer Assisted Instruction(CAI) Computer Based Instruction (CBI) 	Comparison of same content available in different digital formats Group task to identify effectiveness of different digital content in realizing proposed learning objectives. Demonstration of	Preparation of computer-based instructional material

Computer Assisted Language Learning (CALL)	teaching content with computer as aid and exclusively using computer
	Pair and group work to prepare computer- based instructional materials

Unit II: Networking in language learning (20 hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 Familiarizes with ways of exploiting Internet resources for both knowledge enrichment and instruction Develops necessary skills for transmission of information and content using websites 	 Networking:-Teacher – Teacher; Teacher-Institution; Teacher-Student Forum-Wiki- Blog-Video Conferencing Professional communities -Tamil Teacher Blogs-Teacher Tube -TSL -LinkedIn Content writing-Copy Writing- Outsourcing-Transcription 	Introductory talk Demo in Smart Classroom Pair-share Collaborative tasks	 Group presentation Monitoring of activities in virtual world Checking Popularity on Web

Unit III: Models of Teaching in Language Practice (25 hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1. Familiarizes with Models of Teaching as an instructional design and identifies ways of employing them for teaching Prose, Poetry, Vocabulary and Grammar	 Dimensions of a Model- Syntax, Social System, Principles of Reaction, Support System Instructional and nurturing effects Direct Instruction Model Concept Attainment Model Advance Organizer Model Synectics Model 	Distribution of Specimen Lessons based on specific Models Group tasks for preparing lessons based on specific	 Ability to transact the content/ realize objectives in the plans prepared Checking effectiveness of Lesson Plans based on specific Models for chosen content

Role Play Model	Models
	Assimilation and
	accommodation

Unit IV: Global Trends in Tamil Language Education (20 hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1. Familiarizes with global trends in Language education 2. Familiarizes with aspects related to translation 3. Gets an awareness of digital resources for Online tutoring	 Advanced Trends in Tamil Language Education Exercises and pedagogic practices in Tamil language Literary Translation as an exercise- poetry, fiction, prose, world classics from India, translation from English Literature, critical essays etc. Journal Clubs – Review and discussion of studies and articles in Journals Advanced Production of digital resources for Online tutoring 	Approaches Lecture-cum- discussion on different pedagogical practices. Close reading of literary texts followed by group translation Comparison of articles in journals and magazines to identify form and style required for journal articles followed by critique of articles written by peers Critique of specimen digital resources followed by design and preparation of	• Prepares samples • Peer evaluation • Performance in tests
		digital resources for Online tutoring	

EDU – 09.7: CURRICULUM AND RESOURCES IN THE DIGITAL ERA: MATHEMATICS EDUCATION

(Theoretical Discourses – 60 hours & CE – 30 hours)

Objectives:

- To strengthen the experience of the promising student teachers as Mathematics curriculum designers, transmitters and assessors
- To develop a neo humanistic attitude among the student teachers in the light of Mathematics-Technology-Society-Environment paradigm
- To undertake a self empowerment initiative in transacting the Mathematics Curriculum from a digital outlook
- To provide the required research based Mathematics learning experiences so as to undertake a habit of self development through inquiry and investigation

Contents:

Unit 1: Curriculum Designing in Mathematics Education

Unit 2: Community Based Teaching and Learning Resources in Mathematics

Unit3i: E- Resources in Teaching and Learning Mathematics

Unit 4: Research Trends in Mathematics Education

Unit I: Curriculum Designing in Mathematics Education (20 hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To understand curriculum and modern approaches in curriculum construction To understand the modern trends in curriculum construction To familiarise with the principles of Curriculum organisation, To familiarise various curriculum study groups in India and abroad 	 Concept of Curriculum New approaches to curriculum Construction Critical Pedagogy, Problem Based Learning, Constructivist Learning Reflective learning Experiential learning Modern trends in curriculum construction objective based child centred correlation 	Meaningful verbal expression Buzz session PBL Peer instruction Seminar Web Streaming Blog reading	 Performance analysis in group discussions Observation Seminar reports Participation in the Seminar sessions Assessment of daily reflections /Assignment

a hala fambiahan advaatian	
help for higher education	
Reflect as a unified discipline, flexible,	
practicable etc	
Principles of Curriculum organisation –	
Topical and Spiral,	
Logical and Psychological,	
Correlation_	
Curriculum Study Groups - SMP SMSG,	
NMP, NCERT and SCERT	

Unit II: COMMUNITY BASED TEACHING AND LEARNING RESOURCES IN MATHEMATICS(15 hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To make the student teachers understand the need and importance of community based resources in the present scenario To understand the man made resources in the present context To make familiarise with informal learning contexts 	 Concept of community based resources Human resources Natural resources- Mathematical aspects found in Environmental phenomena (congruence, similarity, ratio and proportion, geometric shapes, symmetry etc.) Man made resources Mathematics laboratory Mathematics library Mathematics Club * Informal learning contexts such as Mathematics exhibitions, Fair, Field Trip etc. 	Group discussions Meaningful verbal Presentation Power point presentations Assignments Seminar Field trip Community resource mobilization / Contextual analysis	 Performance analysis in group discussions Observation Seminar reports Participation in the Seminar

Unit III: E- RESOURCES IN TEACHING AND LEARNING MATHEMATICS (15 hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
To familiarise with the role of modern technology in the teaching and learning of Mathematics	 Digital resources-CD, DVD, Websites, digital text books Learning management systems- definition and Significance Identification of E-resources(Web 2.0 tools: - Hot Potatoes, Teacher Tube, Edublog, m-learning-Nature and scope Online Resources 	PowerPoint Presentations Extension talks On line learning Web Streaming Explicit teaching Peer instruction	 Documentation Assessment of individual performance Think Aloud Sessions

Unit IV: RESEARCH TRENDS IN MATHEMATICS EDUCATION (10 hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To understand the need and importance of research in Mathematics education To familiarise the different types of research To identify major thrust areas of research in Mathematics Education 	 Research in Mathematics Education- Need and importance Types of Research Qualitative & Quantitative Historical, Fundamental and Action Research Thrust areas of researches in mathematics education 	Net surfing Blog reading Action research Invited lectures	Blog postingProject reportDocumentation

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EDU – 10.7 : TECHNO- PEDAGOGIC CONTENT KNOWLEDGE ANALYSIS: MATHEMATICS.

(Theoretical Discourses -60 hours & CE -30 hours)

Objectives:

- To undertake a self empowerment initiative in transacting the Mathematics curriculum from a Techno-Pedagogical Content Knowledge perspective
- To get acquainted with different aspects of collaborative use of information communication technology
- To gain a perspective of basic theories and guiding plans for effective transaction of Mathematics.
- To understand the nature and importance of Mathematics from a global perspective

Contents:

Unit 1: Techno-Pedagogic Content Knowledge and Self Instructional Strategies

Unit 2: Networking in Mathematics Learning

Unit 3: Models of Teaching in Practice

Unit 4: Global Trends in Mathematics Education

Unit 1: Techno-Pedagogic Content Knowledge and Self Instructional Strategies(15 hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To acquaint with the concept, meaning and scope of technopedagogic Content knowledge To understand the role of the teacher as a technopedagogue To enable the student teacher to generate and transact TPCK based content analysis of Secondary school text books and CD resources To help students to practice self-instructional strategies 	 Techno-Pedagogy: Techno-pedagogue-Concept, meaning and scope Role of teacher as a techno-pedagogue Concept of TPCK Interrelationship of Content knowledge, pedagogic knowledge and technological knowledge Scope and challenges of TPCK Generation and transaction of TPCK based content analysis of secondary school text books and CD sources 	Group discussions Seminars Meaningful verbal presentation Power point presentations	 Summative evaluation Performance analysis in group discussions Observation Participation in the Seminar Sessions Examples cited in their lecture note dramatisation

Self Instructional Strategies Programmed Instruction (Linear, branching) Modular Instruction and CMI	Illustrations Online assignment	
	Using the	
	possibilities of blogs	
	in networking	
	Video clippings	

Unit II: Networking in Mathematics Learning (15 hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To familiarise the student teachers with net working as a means of personal and professional growth of teachers To provide hands on experience in online learning 	 Networking in learning Mathematics Networking - Meaning and scope Concept of E-twinning for institutional/professional growth Creation of personal e-mail ID and BLOGS with a minimum of 5 posts for promoting the teaching and learning of Mathematics 	Demonstrations Illustrations Video clippings Debating Web based illustrations Power point presentations	 Document analysis Student reports Digital document analysis Blog posting (Practicals) Creation of blog and posting

Unit III: Models of Teaching in Practice (20 hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To understand models of teaching To understand the application of major psychological theories 	 Models of teaching- meaning and Concept Components of a teaching model Families of teaching models Detailed study and practice on Concept Attainment Model, Inquiry Training Model, Constructivist Model, Discovery Model. 	Meaningful verbal expression Group discussion Peer tutoring Observation Brain storming Video analysis	 Performance analysis in group discussion Class test Observation assessment lesson templates using Models of Teaching (Discussion, Demonstration & criticism lessons)

Unit IV: Global Trends in Mathematics Education(10 hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To compare mathematics education across the world To identify recent projects in teaching of Mathematics in India 	 Comparison of Mathematics Education in World Wide Mathematics teaching in developed countries-Japan, USA and UK *Mathematics teaching in developing countries-, India, Pakistan Srilanka Recent projects in Mathematics teaching in India- IT@school, OFSET, GURU. 	Web streaming Documentation Invited lectures Seminar	Document analysisBlog posting

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EDU- 09.8: CURRICULUM AND RESOURCES IN DIGITAL ERA: PHYSICAL SCIENCE EDUCATION

(Theoretical discourses - 60 hrs, CE - 30 hrs)

Objectives:

- To strengthen the experience of the promising student teachers as Science curriculum designers, transmitters and assessors
- To develop a neo humanistic attitude among the student teachers in the light of Science-Technology-Society-Environment paradigm
- To undertake a self empowerment initiative in transacting the Physical Science Curriculum from a digital migrant outlook
- To provide the required research based science learning experiences so as to undertake a habit of self development through inquiry and investigation

Contents:

Unit 1: Curriculum Designing in Physical Science Education

Unit 2: Community Based Teaching and Learning of Physical Science

Unit 3: E-Resources in Teaching and Learning of Physical Science

Unit 4: Research inputs in Physical Science Education

Unit 1: Curriculum Designing in Physical Science Education (20+2=22 hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To acquaint with the concepts of curriculum and syllabus To understand and apply the principles of curriculum construction To familiarize with the curriculum organization To familiarize with the recent trends in curriculum construction in state, national and international level To understand correlation of Physical Science within the subject as well as with other subjects. 	 Curriculum and syllabus-Meaning. Hidden curriculum. Principles of curriculum construction. Types of curriculum-subject centred, activity centred, core curriculum, Approaches to curriculum organisation-Concentric approach, Spiral approach, Type study, Topical approach, Historical approach, Nature study, Nature rambling, General science and disciplinary approach Critical analysis of secondary school curriculum in Physical Science prescribed by SCERT. Trends in curriculum construction-SCERT 	Meaningful verbal expression Buzz session PBL Peer instruction Seminar Web Streaming Blog reading	 Questioning Role performance analysis in Buzz discussion Concept mapping Open book analysis

and NCERT curriculum, Critical Pedagogy,	
Issue based curriculum, Problem Based	
Learning- Main features.	
• Science-A Process Approach (SAPA),	
Cognitive Acceleration Through Science	
Education (CASE) / 'Let's Think through	
Science'	
 Correlation- Incidental and systematic, 	
Correlation within the subject, Correlation of	
Physical science with other subjects such as	
biology, mathematics, language, geography,	
history, earth science, music, art and craft,	
life and environment	

Unit 2: Community Based Teaching and Learning of Physical Science (20+10=30 hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To acquaint with the concept and significance of community based resources To familiarize various formal and informal learning contexts To identify the contributions of human resources in local community To identify governmental and nongovernmental movements for popularizing science 	 Community based resources- Meaning, need and significance Formal science learning contexts Science library-importance and organisation, web resources Science laboratory- Importance and organisation, Registers, Rules, Accidents and First aid Field trips and excursions- Need and importance Science fairs and exhibition-Significance, organisation and evaluation Science club-Significance, organisation and activities Informal learning contexts: Science Park, museum, historical 	Narrative expression sessions in small or medium groups Assignment Seminar Field trip Community resource mobilization / Contextual analysis	 Performance analysis Quiz programme K-W-L charting Profile presentation Blog posting

monuments, play grounds, music room, planetarium, ANERT,	
Human resources-Scientists and eminent personalities in local community	
Governmental and non-governmental movements and organisations for	
popularising science-Science Talent Search	
Programme, Science Olympiad, KVPY, Sasthraposhini scheme	

Unit 3: E-Resources in Teaching and Learning of Physical Science (15+5=20 hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To identify various digital resources in learning of Physical Science To understand the significance of Learning Management System To familiarize various e-resources To understand nature and scope of m-learning To identify the challenges and means of rescue a teacher should possess in this digital era 	 Digital resources-CD, DVD, Websites Learning Management System (LMS)-definition and significance. Identification of E-resources: Web 2.0 tools: - Hot Potatoes, Ptadle (Dynamic periodic table), Go!animate, Jing, Edmodo, Teacher Tube, Edjudo, Edublog, Chem Collective E-learning-Nature and scope Today's teacher – a digital migrant – challenges and means of rescue 	Web Streaming Explicit teaching Peer instruction	 Documentation Assessment of individual performance Think Aloud Sessions

Unit 4: Research inputs in Physical Science Education (5+3=8 hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1. To understand the concept and scope of research inputs in science	 Research inputs - meaning and scope Science teacher as a researcher 	Net surfing	Blog posting Braiget report
education	 Science teacher as a researcher Thrust areas of research in Physical Science 	Blog reading	 Project report Documentation
2. To identify the role of science teacher as a researcher		Action research	
3. To identify major thrust areas of research in Physical Science		Invited lectures	

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EDU – 10.8: TECHNO-PEDAGOGIC CONTENT KNOWLEDGE ANALYSIS – PHYSICAL SCIENCE

(Theoretical Discourses - 60 hrs, CE - 30 hours)

Objectives:

- To undertake a self empowerment initiative in transacting the Physical Science curriculum from a Techno-Pedagogical Content Knowledge perspective
- To get acquainted with different aspects of collaborative use of information communication technology
- To gain a perspective of basic theories and guiding plans for effective transaction of physical science
- To understand the nature and importance of physical science from a global perspective

Contents:

Unit 1: Techno-Pedagogic Content Knowledge and Self Instructional Strategies

Unit 2: Networking in Physical Science Learning

Unit 3: Models of Teaching in Practice

Unit 4: Global Trends in Physical Science Education

Unit 1: Techno-Pedagogic Content Knowledge and Self Instructional Strategies (15 + 8 = 23 hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To conceptualize the basic principles of Techno-Pedagogic Content Knowledge Analysis in Physical Science Teaching and Learning To identify the role of science teacher as a techno-pedagogue To understand various Self Instructional Strategies 	 Techno-Pedagogic Content Knowledge Paradigm-Interrelationship of Content Knowledge, Pedagogic Knowledge and Technological Knowledge, TPCK based content analysis of selected units of the secondary readers in Physical Science. Science teacher as a techno-pedagogue. Techno-pedagogic competencies, Self Instructional Strategies- Meaning, Types- Programmed Instruction (Linear, branching), Modular Instruction, Personalized System of Instruction, CAI and CMI 	Small group discussion Documentation Web searching Self-study Power Point Presentations Seminar Didactic Questioning	 Participant observation Document analysis On-task behaviour in class Reflective journal

Unit 2: Networking in Physical Science Learning (14 +10 = 24 hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To understand the role and purposes of networking in learning physical science To acquaint with the concept of etwinning. 	 Networking - Meaning and scope Networking in learning of Physical Science-Purposes Types- Technical, Personal and Institutional e-twinning for institutional or professional growth in learning of Physical Science 	Net surfing Blog reading Invited lectures Digital Modular Expositions	 Digital document analysis Blog posting Debate Online test

Unit 3: Models of Teaching in Practice (25 + 20 = 45 hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1. To understand the application of major psychological theories	Psychological theories for learning science- Piaget, Bruner, Gagne, Vygotsky and	Meaningful verbal expression	Analysis in group discussionClass test
2. To familiarize with various thinking skills	Ausubel, Gardener's Multiple Intelligence Theory	Group discussion	
3. To understand models of teaching	Thinking skills - critical thinking, creative	Peer tutoring	
	thinking, reflective thinkingModels of teaching-Concept Attainment	Observation	
	Model, Inquiry Training Model, Advance	Brain storming	
	Organiser Model, Constructivist and 5E model	Video analysis	

Unit 4: Global Trends in Physical Science Education (18 +10 = 28hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1. To compare science education	Comparative Science Education World	Web streaming	• Document analysis
across the world	Wide-Science teaching in developed		 Blog posting
2. To identify recent projects in	countries-Australia, Canada-Science teaching	Documentation	
science teaching in India	in developing countries-Indonesia, Srilanka		
	• Recent projects in science teaching in India-	Invited lectures	
	it@school, OFSET, GURU		

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EDU - 09 . 9 : CURRICULUM AND RESOURCES IN DIGITAL ERA : NATURAL SCIENCE EDUCATION

(Theoretical discourses -50 Marks/60 hours & CE-25 Marks/30 hours)

OBJECTIVES: To enable the student teachers to:

- Understand the different types of resources for teaching Natural Science.
- Locate different reference materials related with Biological Science.
- Identify the school and community resources for better Biological Science learning.
- Familiarize and understand the natural resources, man-made resources in teaching Natural Science.
- Familiarize the different club activities related with Natural Science.
- Understand the steps of organizing field trip, excursion, science fair & exhibition.
- Understand the different approaches of organizing Biological Science curriculum.
- Familiarize the modern trends in curriculum movements in India and abroad.
- Familiarize and understand the e-learning resources for teaching Natural Science.
- Identify research inputs in genetic engineering, medical field & environmental issues.

CONTENTS:

Unit I : Resource for Natural Science Curriculum Transaction.

Unit II : Curriculum Trends in Biological Science.

Unit III : E – Resources in teaching Learning Natural Science.
Unit IV : An Introduction to Research Inputs in Biology.

UNIT-I-RESOURCE FOR NATURAL SCIENCE CURRICULUM TRANSACTION (Theory hours-20)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To understand different types of resources. To understand the relevance & scope of different types of resources. To understand, and utilize school based resources in formal and informal learning. 	 1.1 Different types of resources. 1.2 Relevance & scope of different types of resources. 1.3 School based Resources For Science Learning. 1.3.1 Library –School and Class library-importance and its organization, Types of resources for accessing information-book, 	Group discussion Seminar PBL Multimedia and interdisciplinary approach.	 Quiz programme. Participation in group discussion. Questioning. On-task behavior Field trip report. Assignments Seminar presentation.

4.	To develop skill in designing a		non book and web resources.	Team teaching.
	high school biology laboratory.	•	1.3.2 Science laboratory- significance and	
5.	To organize different extra-		organization –Designing a high school	Peer tutoring.
	curricular activities related to		biology laboratory.	Meaningful verbal
	science teaching.	•	1.3.4 Club activities - Science club, Science	expression.
6.	To identify, and utilize different		fair, Exhibition, Manuscript magazine, Field	Organizing &
	community resources for science		trip & Excursion, Community awareness	designing science
	learning.		programme and Living corners- Pisciculture,	library, science
			different types of garden(Vegetable,	laboratory.
			ornamental and Herbal).	
		•	1.3.5Text books- qualities of good science	
			text book, Text book analysis. Supplementary	
			reader.	
		•	1.3.6 Hand book for teachers and Work book for learner.	
			1.3.7 Reference material-encyclopedia,	
		•	newsletters, magazines, journals.	
			1.4 Community Based Resources For	
			effective Science Learning	
		•	1.4.1 Community resources for science	
			learning- relevance and scope.	
		•	1.4.2 Identification of Community resources	
			for better science teaching and learning.	
		•	1.4.3 Human resources- e.g. Resource	
			persons/ eminent teachers/ personalities/	
			scientists in the local community.	
		•	1.4.4 Natural Resources- e.gpond	
			/lake/river/sea/ forest/ wet land/ sacred	
			grooves etc.	
		•	1.1.5 Man made Resources- e.g. Museum/	
			Zoo/ Botanical garden/ Agrifarms / hospital,	
			Krishi Vignjan Kendrum /Research centers	
			under State & Central government.	

UNIT II .CURRICULUM TRENDS IN BIOLOGICAL SCIENCE (Theory hours-18)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To understand the Meaning-functions and Principles of curriculum construction. To familiarize different types of curriculum. To understand and apply the principles of curriculum construction. To understand and compare the curricular movements in national and international level. To understand the types of correlation in the teaching learning process. To understand the importance of correlation in the teaching learning process. To make a Critical analysis of the prevailing secondary school biology syllabus. 	 2.1Curriculum-Meaning-functions and, Principles of curriculum construction, Types of curriculum- subject centered, activity centered, integrated and hidden curriculum. 2.2Approaches to curriculum organization-Topical, Subject, Concentric, Spiral and Integrated/ Correlation approach (Incidental & Systematic correlation). 2.3 Factors affecting curriculum organization. 2.4 Criteria of a good Natural science curriculum. 2.5 Critical analysis of the prevailing secondary school biology syllabus. 2.6 Curriculum reforms in India (NCERT) & abroad (BSCS). 	Meaningful verbal expression Group discussion Small group sessions Peer instruction Narrative expression sessions in small or medium groups. Brain storming. Seminar. PBL. Modular approach. Multimedia and interdisciplinary approach. Team teaching. Peer tutoring	 Participation in group discussion. Questioning. On-task behavior in class. Tests. Science dairy. Daily reflective journal. Participant observation.

UNIT III E-RESOURCES IN TEACHING LEARNING OF NATURAL SCIENCE (ICT Materials) (Theory hours-11)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To understand and compare the Educational CDs developed by SIET, NCERT, IT@ school for the learning of biology at secondary level. To familiarize you tube resources related with HS Biology. To familiarize e-journals, e-books related with Biology. To understand about the use of e-resources. To develop a skill in using e-resources. To understand the meaning-relevance & scope of virtual laboratory & virtual dissection. To identify & use virtual laboratory & virtual dissection related with HS Biology. 	 3.1 An introduction to the contribution of elearning materials developed by SIET, NCERT & IT@ school for the learning of biology at secondary level. 3.2 You tube resources related with HS Biology. 3.3 An introduction to e-journals, e-books related with Biology 3.4 An introduction to websites devoted for science teaching & learning. 3.5 Meaning-relevance & scope of virtual laboratory & virtual dissection. 	Modular approach. Multimedia and inter disciplinary approach. Team teaching. Peer tutoring Meaningful verbal expression Group discussion Using internet effectively for collecting information.	 Participation in group discussion. Questioning. On-task behavior Report of video analysis. Involvement in using e-journals, e-books related with Biology. Involvement in using virtual laboratory & virtual dissection.

UNIT-IV AN INTRODUCTION TO RESEARCH INPUTS IN BIOLOGY(Theory hours-11,)

	Learning Outcome		Major concepts	Strategies & Approaches		Assessment
1	. To understand research inputs in genetic engineering, medical sciences & Environmental issues.	•	4.1 Research inputs in genetic engineering (Give brief introduction about Human	Multimedia and inter disciplinary	•	Peer tutoring Meaningful verbal expression
2	To understand the emerging challenges related with organ	•	Genome Project, Tissue culture). 4.2 Research inputs in medical sciences	approach. Team teaching.	•	Group discussion Assignment

transplantation. 3. To get an idea about the importance of family farming. 4. To get an idea about the existing waste disposal measures in a scientific way. 5. To suggest innovative measures to waste disposal. (Meaning and scope of Organ transplantation- a new hope for life, Nanotechnological applications in medical field) 4.3 Research inputs in Environmental issues (Family farming, waste disposal).	Peer tutoring Meaningful verbal expression Group discussion Assignment Seminar
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EDU – 10. 9: TECHNO-PEDAGOGIC CONTENT KNOWLEDGE ANALYSIS -NATURAL SCIENCE.

(Theoretical Discourses -50 Marks/60 hours & CE-25 Marks/30 hours)

OBJECTIVES: To enable the student teacher to:

- develop Understanding And Application Of Techno-Pedagogic Content Knowledge Analysis
- develop Skill In Preparation And Practice Of Technology Enhanced Learning Materials.
- understand And Apply Online Assessment And Competency Enhancement Avenues.
- identify Net Working As A Means Of Personal And Professional Growth
- understand Classroom Management Principles Essential For Effective Pedagogic Transaction.
- get An Idea About Global Trends In Science Education.
- familiarize The Modern Trends In Science Education At Global Level.
- get An Idea About Self Instructional Strategies.
- understand About Self Instructional Strategies.

CONTENTS:

Unit – I: Technological Pedagogical Analysis Of Content Knowledge (TPACK).

Unit – II : Net working in Science Learning.

Unit – III: Models of teaching & Self-instructional Strategies.

Unit – IV: Global trends in Natural science Education.

UNIT.I TECHNOLOGICAL PEDAGOGICAL ANALYSIS OF CONTENT KNOWLEDGE (TPACK)-A CONCEPTUAL ANALYSIS. (Hours-22)

	Learning Outcome		Major concepts	Strategies & Approaches		Assessment
1.	To understand about the conceptual	•	1.1Technological Pedagogical Analysis of	Meaningful verbal	•	Participation in group discussion.
	analysis of Technological		Content Knowledge (TPACK)-meaning and	expression.	•	Questioning.
	Pedagogical Content Knowledge		scope. Different knowledge areas of TPACK-	Group discussion.	•	On-task behavior in class.
	(TPCK)	•	Content Knowledge (CK),	_	•	Tests.
2.	To understand and find inter	•	Pedagogical Knowledge (PK),	Narrative expression		Science dairy.
	relationships of different areas of	•	Technology Knowledge (TK)	sessions in small or	•	Daily reflective journal
	TPACK	•	Pedagogical Content Knowledge (PCK),	medium groups.	•	Participant observation
3.	To develop skill in Technological	•	Technological Content Knowledge (TCK),	Multimedia and	•	Report of Technological
	Pedagogical Analysis of Content		Technological Pedagogical Knowledge	interdisciplinary		Pedagogical Content Knowledge

Knowledge (TPACK) of	(TPK), and	approach.	Analysis of Secondary School
Secondary School Biology.	Technological Pedagogical Content Knowledge (TPCK).	Team teaching.	Biology.
	• Interrelationships of different areas of TPACK	Peer tutoring	
	1.2 Technological Pedagogical Content Knowledge Analysis of Secondary School Biology.		

UNIT-II NETWORKING IN SCIENCE LEANING (Hours-18)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To understand the meaning & scope of networking in science teaching. To develop skill in Networking through different ways. To develop skill in the preparation and practice of ICT and Multimedia based materials in the teaching learning process of 	 Networking- meaning and scope of Net working in science learning. Development of one Blog for Natural science class and 5 postings by each student for promoting teaching learning/social issues/challenges etc. e-twinning- means for institutional and professional growth. 2.4 ICT and Multimedia as technology 	Group discussion Seminar Personality profile presentation Reflective practices. PBL Multimedia and	 Online assessment Quiz programme. Participation in group discussion. Questioning. On-task behavior. Student's portfolio. Blog posting Net working e-twinning
 science 4. To develop skill in the preparation and practice of online assessment tools in science teaching learning process. 5. To understand different competitive examinations for teachers. 6. To understand the Educational entrepreneurship - Career possibilities for trained graduate 	enhanced communication devises in the teaching of life science- Collection/ Preparation of e-materials for pedagogic transaction of secondary school biology syllabus including environmental issues affecting local community(Power points, video clippings, pictures, instructional materials) 2.3 Online Assessment And Competency Enhancement avenues.	interdisciplinary approach. Team teaching. Peer tutoring Net working e-twinning Blog posting	 Preparation of e-materials Online Assessment
and post graduate science students	• 2.3.1Online assessmentmeaning and scope, Down load an Online quiz maker and		

	 use it during practice teaching. 2.3.2 Competitive examinations for secondary school students – Science Talent Search Scheme, Science Olympiad, Google science fair. 2.3.3 Competitive Examinations for teachers - KTET, NTET, TET. 2.3.4 Educational entrepreneurship - Career possibilities for trained graduate and post graduate science students. 			
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UNIT-III MODELS OF TEACHING & SELF INSTRUCTIONAL STRATEGIES (Hours-15)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To understand the basic elements in the models of teaching To develop skill in selecting suitable models of teaching for transacting pedagogy. To develop and design lesson plans based on Concept Attainment Model(CAM), Inquiry Training Model(ITM), 5E Model of BSCS, Inductive Thinking Model &Role play model. To develop skill in selecting suitable self-instructional strategies for transacting pedagogy. To understand about Computer Assisted Instruction (CAI).Its advantages & disadvantages. To understand &prepare Modules. 	 3.1Models of teaching: Introduction, Elements and Families of models of teaching. Concept Attainment Model(CAM), Inquiry Training Model(ITM), 5E Model of BSCS, Inductive Thinking Model, Role play model 3.3 Self Instructional Strategies- An overview about Self Instructional Strategies, advantages & disadvantages. 3.4 An introduction to Computer Assisted Instruction (CAI), its advantages & disadvantages & disadvantages. 3.5 Modules, its advantages & disadvantages. 	Meaningful verbal expression Group discussion Small group sessions Peer instruction Narrative expression sessions in small or medium groups. Brain storming. PBL. Modular approach. Multimedia and interdisciplinary approach.	 Participation in group discussion. Questioning. On-task behavior in class. Tests. Science dairy. Daily reflective journal Lesson plans based on models of teaching. Module preparation

	Concept Attainment Model(CAM)	
	Inquiry Training Model(ITM)	
	5E Model of BSCS	
	Inductive Thinking Model	
	Role play model.	

UNIT-IV GLOBAL TRENDS IN SCIENCE EDUCATION. Hours-5)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
To familiarize & understand about the global trends in education.	 4.1An introduction to global trends in education 4.1.1University & career readiness 4.1.2 Longitudinal perspectives 4.1.3 Digital content 4.1.4 Individualized learning 	Narrative expression sessions in small or medium groups. Meaningful verbal expression Multimedia approach Discussion	ι ι

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- Senan, Divya C., J.V, Asha., (2012), Science Pedagogy through Constructivist Multimedia Learning Material: Design of a Strategy, Germany, Lambert Academic Publishing.
- BybeeR.W., The BSCS 5E instructional model and 21st century skills. Paper prepared for the Workshop on Exploring the Intersection of Science Education and the Development of 21st Century Skills, National Research Council. 2009. Available:
- Radha Mohan, (2007).Innovative Science Teaching for Physical Science teachers(3rded) PHL learning, New Delhi
- Jessy Mathews, (2008). Teaching of Natural Science Theory, Perspectives and Practices, Methodology of Teaching Life Sciences.
- Narendera Vaidhya, (2006). Science Teaching in School for the 21st Century, deep and deep publications PVT, New Delhi.
- Mujibul Hassan Siddiqui.,(1991)Models of Teaching, Ashish publishing house, Newdelhi.
- Senan, Divya C., J.V, Asha., (2012), Science Pedagogy through Constructivist Multimedia Learning Material: Design of a Strategy, Germany, Lambert Academic Publishing.
- Radha Mohan, (2007).Innovative Science Teaching for Physical Science teachers(3rded) PHL learning, New Delhi
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- Mujibul Hassan Siddiqui.,(1991)Models of Teaching, Ashish publishing house, Newdelhi.
- Clark, R.C. and R.E. Mayer., (2002). E. Learning and Science of instruction, Pfeiffer, San Francisco.
- R.A. Sharma ., (2009). *Information and Communication Technology in Teaching*, Lall Book Depot, Meerat.
- JahithaBegum ,Natesan, G,Sampath, (2011). ICT in Teaching Learning ,Balaji offset, Delhi.
- Krishna Sagar, (2005). *ITCs and Teacher Training*, Tarunoffset, Delhi.
- Hussain M. (2012). E.Learning, Srikrishna offset Pvt, Delhi
- Anshulkaushik., (2007). Computer security insiders view to Network forensics, Khana book publishing company, Delhi
- Carl simmons, Claire Hawkins (2009). Teaching ICT-Developing as a Reflective Secondary Teacher, Sage South Asia education, New Delhi
- Chao, Lee (ed.) (2012) *Cloud Computing for Teaching and Learning: Strategies for Design and Implementation*: Hershey, PA, IGI Global.
- Frank Rennie& Tara Morrison (2013): E- Learning and Social Networking Handbook (Second Edition): New York, Routledge.
- Frank Rennie, Tara Morrison (2013): e-Learning and Social Networking Handbook: Resources for Higher Education: New York, Taylor& Francis
- Janie Gross Stein, Richard Stein (Ed.) (2001): *Network of Knowledge: Collaborative Innovation in International Learning:* Toronto, Canada, University of Toronto Press Incorporated
- Mangal S. K. & Uma Mangal (2009): Essentials of Educational Technology: New Delhi, PHI Learning Pvt Ltd.
- Rena M. Palloff& Keith Pratt (2009): Assessing the Online Learner: San Francisco, Jossey-Bass.
- Tony Ghaye (2011): Teaching and Learning Through Reflective Practice (Second Edition): New York, Rutledge.

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- http://www7.nationalacademies.org/bose/21CentSKillUploads.html
- www.BuildingClassroomDiscipline.com

- http://www.theteachersatrisk.com/2010/07/18/most-popular-blog-about-classroom-management/
- http://www.theteachers guide.com/ClassMagement.htm
- http://www7.nationalacademies.org/bose/21CentSKillUploads.html
- http://www.theteachersatrisk.com/2010/07/18/most popular blog about classroom management.
- http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.91....
- http://en.wikipedia.org/wiki/Technological_Pedagogical_Conte...
- http://www.amazon.com/books/dp/0805863567
- http://ictevangelist.com/technological-pedagogical-and-conte

EDU - 09.10 : CURRICULUM AND RESOURCES IN DIGITAL ERA: SOCIAL SCIENCE EDUCATION

(Theoretical Discourses -50 Marks/60 hours & CE-25 Marks/30 hours)

Objectives:

- To get acquaint with modern principles and trends in the construction and organization of Social Science curriculum
- To become equipped in retrieving suitable teaching learning resources
- To attain proficiency in IT enabled instructional resources and to become talented in applying innovative strategies and approaches for instructional effectiveness.
- To generate a broad perspectives of e-resources in instructional practices and to develop skill in retrieving and transacting Social Science curriculum through e-resources.
- To develop a positive attitude towards research for curriculum development and to adopt& develop innovative teaching learning strategies.

Contents:

Unit 1	Curriculum Designing in Social Science Education
Unit 2	School and Community Based Instructional Resources in Teaching Social Science
Unit 3	E- Resources in Teaching and Learning of Social Science.
Unit 4	Research Trends in Social Science Education

Unit 1: Curriculum Designing in Social Science Education (7 Hours + 4 Hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To get acquaint with modern principles and trends in the construction and organization of Social Science curriculum To become conversant with NCF and KCF to develop approaches to Social Science Education 	 Curriculum – Concept, Principles of designing Social Science curriculum Approaches, types of curriculum, Modern trends in designing Social Science curriculum. Brief outline about NCF (2005) KCF (2007) and its approaches in Social science curriculum formation. 	Analytical approach Seminar Co-operative learning Prepare a paper on NCF and KCF and its approaches to Social Science curriculum.	• Seminar with slide presentation (CE- Edu. 09)

- http://www.ncert.nic.in/html/pdf/schoolcurriculum/framework
- http://www.ssamis.com/web/downloads/KCF 2007.pdf
- http://www.case.edu/artsci/engl/emmons/writing/pedagogy
- Rao, Bhaskara (2005) Curriculum for Learning to Live Together. New Delhi: Discovery Publishing House.
- Aggarwal, J.C. (1996) A Practical Approach. New Delhi: Vikas Publishing House Pvt. Ltd.
- Singh and Gopal (2004) Teaching Strategies. New Delhi: APH Publishing Corporation.
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- Kumar, S.P.K & Noushad, P.P. (2009). Social Studies in the Classroom: Trends and Methods.
- Pathak R.P.(2012). Teaching of social studies. Pearson, Delhi
- Ehman & Patrick (1974). Towards Effective Instruction in Social Studies. USA: Houghton Miffn.
- Dash, B. N.(1998). Content cum Methods of Teaching Social Studies. Ludhiana: KalyaniPublishers.
- Edigar, M. & Rao, B. (2003). Teaching Social Studies Successfully. New Delhi: Discovery Pub. House.
- NCF (2005) and KCF (2007)

Unit 2: School and Community Based Instructional Resources in Teaching Social Science (8 Hrs + 4 Hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
To identify and to utilize community resources for the effective transaction of Social Science Curriculum	 Community Resources- meaning, nature, need and scope in Social Science. School to community and community to school- The need and role of Social Science clubs in community related curricular programmes Resources- Historical- Palace, museum, caves, forts, archives etc, Geographical-Planetorium, Mountains, seashore, rift valley etc, Political- Gramasabha, Panchayat, Legislative assembly, memorials etc, Economical- market, bank, stores etc. 	Discussion Prepare a list of community recourses- discuss and present the ways to utilize the community recourses Visit to any one of the community resources.	Field trip to any one site with action plan and report (Practical Sem.2)

- http://cricap.org
- http://www.ehow.com/
- Aggarwal, J.C. (1996) A Practical Approach. New Delhi: Vikas Publishing House Pvt. Ltd.
- Singh and Gopal (2004) Teaching Strategies. New Delhi: APH Publishing Corporation.
- Raj, Rani Bansal (1999). Models of teaching and concepts of learning. New Delhi: Anmol Publications.
- Aggarwal, J.C. (2003). Teaching of Social Studies: A Practical Approach. Mumbai: Vikas Publishing House.
- Kumar, S.P.K & Noushad, P.P. (2009). Social Studies in the Classroom: Trends and Methods.
- Pathak R.P.(2012). Teaching of social studies. Pearson, Delhi
- Ehman & Patrick (1974). Towards Effective Instruction in Social Studies. USA: Houghton Miffn.
- Dash, B. N.(1998). Content cum Methods of Teaching Social Studies. Ludhiana: Kalyani Publishers.
- Edigar, M. & Rao, B. (2003). Teaching Social Studies Successfully. New Delhi: Discovery Pub. House. http://en.wikipedia.org/wiki/Wiki

Unit 3: e- Resources in Teaching and Learning of Social Science

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To generate a broad perspectives of e-resources in instructional practices To develop skill in retrieving and transacting Social Science curriculum through e-resources 	 Concept of e- resources, Web resources, social networking, Educational blogs, e-journals, e-learning, m- learning, web based learning. Learning Management System (LMS) in the teaching- learning of Social science. IT enabled instructional resources: On line resources, videos, YouTube resources, animations, film clippings. 	Online learning Web search Blogging and submission of online assignment	 Use e-resources to prepare any 4 learning materials Test for units 1,2 & 3 (CE-Edu. 09)

- http://www.bbk.ac.uk/linkinglondon/resources/
- http://en.wikipedia.org/wiki/Learni management_systemhttps://www.itschool.gov.in
- www.youtube.com/user/itsvicters
- en.wikipedia.org/wiki/IT@School Project

- **victers**.itschool.gov.in/
- www.youtube.com/user/itsvicters
- Alexey Semenov, UNESCO, (2005): Information and Communication Technologies in Schools: A Handbook for Teachers.
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- Prasad Janardan, (2007). Audio Visual education. Teaching innovative technique. New Delhi: Kanishka Publishers.
- Rejesekaran S. (2007) Computer Education and Educational Computing, New Delhi: Neel Kamal Publishing Pvt. Ltd.
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- Sagar Krishna, (2005). ICT Teacher training. New Delhi : Global Network
- Kumar, S.P.K & Noushad, P.P. (2009). Social Studies in the Classroom: Trends and Methods.
- http://blog.efrontlearning.net
- http://www.e-learningforkids.org/courses.html
- http://www.teacher.ne

Unit 4 Research Trends in Social Science Education

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1. To develop a positive attitude towards research in the curriculum development process and to utilize the research findings in the teaching learning process.	 An introduction to Research in Social science Education- Need and importance Teacher as a researcher in Social science Analysis of Research outcomes in the teaching and learning of Social Science education. 	Group Discussion Prepare a paper (utilizing internet) on the latest research findings on pedagogical aspects in Social science education and conduct a seminar.	Observe the participation of student teachers in the learning process

- http://www.edu.plymouth.ac.uk/resined/actionresearch/arhome.htm
- Best, John.W & Kahn, James.V. (1999). *Research in Education*. Boston: Allyn and Bacon.
- Leary, Zina O((2010). Doing your research project. New Delhi. SAGE
- Aggarwal, J.C. (2003). Teaching of Social Studies: A Practical Approach. Mumbai:
- Vikas Publishing House.
- Kumar, S.P.K & Noushad, P.P. (2009). Social Studies in the Classroom: Trends and
- Methods.
- Pathak R.P.(2012). Teaching of social studies. Pearson, Delhi
- Dhand, H. (1991). Research in Teaching Social Studies. New delhi: Ashish
- Publishing House
- Crowder, N.A. (1959). Action Research to Improve School Practices. New York: Columbia
- University.
- http://en.wikipedia.org/wiki/Wiki
- www.moodle.org
- http://www.ncert.nic.in
- http://www.ciet.nic.in/

EDU – 10.10: TECHNO PEDAGOGIC CONTENT KNOWLEDGE ANALYSIS – SOCIAL SCIENCE

(Theoretical Discourses -50 Marks/60 hours & CE-25 Marks/30 hours)

Objectives

- To conscientize the prospective teachers become a techno- pedagogue and become aware of the concept TPCK
- To grow to be competitive in designing digital texts and e-content in Social Science
- To familiarize with the networking system for institutional and professional growth.
- To get acquainted with the need of creating e-mail and blogs for pedagogical analysis.
- To prepare the prospective teachers as reflective practitioners

Contents:

- Unit 1 Techno Pedagogic Content Knowledge Analysis (TPCK) and Self Instructional Strategies
- Unit 2 Networking in Social Science Learning
- Unit 3 Models of Teaching in Social Science.
- Unit 4 Global Trends in Social Science Education

Unit 1 Techno Pedagogic Content Knowledge Analysis (TPCK) and Self Instructional Strategies

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To conscientize the prospective teachers become a technopedagogue To become aware of the concept TPCK To become capable of analyzing content based on technology To get aware on self instructional strategies. 	 Inter relationship between Technology, Pedagogy and Content. Teacher as Techno-Pedagogue in Social Science Scope and purpose of Techno-Pedagogic Content Knowledge Analysis. Self Instructional Strategies: Importance Programmed instruction CAI and CMI Instructional modules 	Meaningful verbal learning On line learning Group discussion TPCK based content analysis (Selected units of secondary/ higher secondary text books)	 Prepare a self explanatory note on 'Teacher as a Techno-Pedagogue' TPCK based Content analysis on any one unit. Video script developing & recording & uploading (CE-Edu.10)

- http://en.wikipedia.org/wiki/Technological_Pedagogical_Content
- Refernces:
- Alexey Semenov, UNESCO, (2005): Information and Communication Technologies in Schools: A Handbook for Teachers.
- Atkins N.J and Atkins J.N, Practical Guide to Audio Visual Technique in Education,
- Battachaarjee Shymali, (2007). Media and Mass communication. An introduction. New Delhi: Kanishka Publishers.
- Hoole H.S. Ratnajeevan & Hoole Dushyanthi. (2005). Information and communication technology. New Delhi: Foundation Books PVT. LTD.
- Khan, BoH (1977) Web-based Instruction. Englewood Cliffs: Educational Technology Publications.
- Madhukumar Indira. (2005). Internet based distance learning. New Delhi: Global Network.
- Mayer Richard E(2001); Multimedia Learning, Cambridge University Press, UK. McDonald &Evans Ltd. 1975
- Social Science text book of standard 8,9 & 10 of Kerala
- Teachers' Hand book in Social Science for standard 8,9 &10
- Varma, O. P. & Vedanayagam, E. G. (1993). Geography Teaching. N. Delhi: Sterling.
- Cornwell, R. D. (1985). World History in the Twentieth Century. England: Longman.
- Joshi, P. S., Gholkar S.V. (1983). History of Modern India. N. Delhi: S.Chand & Company Ltd.
- Kaur, Dhian & Chandana, R. C. (ed.) (2006). The Earth: Ludhiana: Kalyani Publishers.
- Singh R. L., Singh, Rana, P. B. (2002). Elements of Practical Geography. N. Delhi: Kalyan Publishers.

Unit 2 Networking in Social Science Learning

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To grow to be competitive in designing digital texts and econtent in Social science. To become empower in surfing digital resource for transacting Social science curriculum. 	 Professional and Institutional growth: Through network-twining Student and Institution Networking Online learning: Concept and system of online learning, virtual learning. Creation of e-mail ID and blogs Applications of Social Networking systems 	Discussion Online learning Demonstration Workshop	ObservationReport verification

- http://teachinghistory.org/issues-and-research/roundtable
- www.5learn.co/e-content-development
- www.aptaracorp.com/digital-content-production/econtent-development
- www.ntu.edu.sg/home/sfoo/publications/2002/02ecdl_fmt.pdf
- www.net-security.org
- blog.ebayclassifieds.com
- cybercoyote.org/security/safe-web.html
- Alexey Semenov, UNESCO, (2005): Information and Communication Technologies in Schools: A Handbook for Teachers.
- Atkins N.J and Atkins J.N, Practical Guide to Audio Visual Technique in Education,
- Battachaarjee Shymali, (2007). Media and Mass communication. An introduction. New Delhi: Kanishka Publishers.
- Hoole H.S. Ratnajeevan & Hoole Dushyanthi. (2005). Information and communication technology. New Delhi: Foundation Books PVT. LTD.
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- Madhukumar Indira. (2005). Internet based distance learning. New Delhi: Global Network.
- Mayer Richard E(2001); Multimedia Learning, Cambridge University Press, UK. McDonald &Evans Ltd. 1975

Unit 3 Models of Teaching

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To acquaint with the concept, families and selected items of Models of Teaching To acquaint with practice of developing lesson transcripts based on selected Models of Teaching. 	 Models of teaching – Introduction, Operational Heart, Different families Concept Attainment Model with lesson transcripts Advance Organizer Model with lesson transcripts Group Investigation Model with lesson transcripts. Jurisprudential model & Inquiry Training Model 	Scaffolding strategies Demonstration Simulation Online learning	 Discussion lesson-5(ICT-1, activity based-1, Models-3) Demonstration- 2 (Models) Criticism (5) (Practicals – sem-2)

- http://www.guardian.co.uk/higher-education-network/
- Kumar, S.P.K & Noushad, P.P. (2009). Social Studies in the Classroom: Trends and Methods.
- Joyce, B & Weil, M. (2003). *Models of Teaching* (5th Ed.) New Delhi: Prentice Hall Aggarwal, J.C. (2003). *Teaching of Social Studies: A Practical Approach*.

Unit 4 Global Trends in Social Science Education

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
To help the prospective teachers for comparative study of social science education in a global perspective.	 Global trends in Social Science education Social Science education in other states and other Nations. Comparison of Social Science curriculum, textbook and transactional modalities with other countries. 	Discussion – Web searching. Seminar- compare SS curriculum & Text books of SCERT, NCERT and any one advanced nations.	Assignment & seminar report

- http://en.wikipedia.org/wiki/Reflective_practice
- http://tep.uoregon.edu/showcase/crmodel/strategies
- Borich, Gary D (2012). Effective teaching methods: Research based practice. New Delhi: Pearson Education
- Social Science text book of standard 8,9 & 10 of Kerala
- Teachers' Hand book in Social Science for standard 8,9 &10 -- NCERT Text Books.

EDU- 09.11: CURRICULUM AND RESOURCES IN DIGITAL ERA - GEOGRAPHY EDUCATION

Hours of interaction: 60 (Instructional) +30 (Activities / Processes)

Objectives:

- To get acquaint with modern principles and trends in the construction and organization of Geography curriculum
- To become equipped in retrieving suitable teaching learning resources
- To attain proficiency in IT enabled instructional resources and to become talented in applying innovative strategies and approaches for instructional effectiveness
- To generate a broad perspectives of e- resources in instructional practices and to develop skill in retrieving and transacting Geography Curriculum through- e- resources
- To develop a positive attitude towards research for curriculum development and to adopt and develop innovative teaching-learning strategies

CONTENTS:

Unit 1 : Curriculum Designing in Geography Education

Unit 2 : School and Community Based instructional Resources in Teaching Geography

Unit 3 : e- Resources in Teaching and Learning of Geography

Unit 4: Research Trends in Geography Education

Unit 1 Curriculum Designing in Geography Education (16 hours + 6 hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To get acquaint with concepts, principles and modern trends in the constriction and organisation of Geography Curriculum To become conversant with NCF and KCF to develop approaches to Geography Education 	 Importance and place of Geography in the curriculum Curriculum – concepts determinants, patterns types, principles and modern trends Curriculum organisational approaches – spiral /concentric/ topical An outline of trends, patterns and approaches as suggested in NCF (2005) and KCF (2007) in Geography curriculum formation Critical analysis of existing HS/HSS Geography curriculum 	Analytical approach Debate Seminar Co-operative learning Web Search Lecture cum discussion	 Assessment of learning process and reflections Prepare a brief sketch of NCF and KCF on Geography curriculum Seminars Assignments

	Prepare reports on NCF/ KCF	

- http://www.ncert.nic.in/html/pdf/schoolcurriculum/framework
- heep://www.ssamis.com/web/downloads/KCF 2007.pdf
- http://www.case.edu/artsci/engl/emmons/writing/pedagogy
- Rao, Bhaskara (2005) Curriculum for Learning to Live Together New Delhi: Discover, Publishing House
- Singh and Gopal (2004) Teaching Strategies. New Delhi: APH Publishing corporation
- Sue, Cowley (2006) A-Z of Teaching. New York: Briji basi Art Press Ltd.
- VermaO.P, and Vedanayagam. E.G (1987) Teaching of Geography, Sterling Publishers Private Limited, New Delhi
- AroraM.L (1979) Teaching of Geography, Prakash Brothers, Ludhiane

Unit 2: School and Community Based Instructional Resources in Teaching Geography (18 Hrs + 8 Hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To identify and to utilize community resources for the effective transaction of Geography curriculum To develop an understanding about the significance of Geography room, library, club, museum, excursion and field visits 	 Community resources- meaning nature need significance and methods of utilization Natural and man- made resources in Geography Relationship between school and community-bringing them together Features significance and way of organizing Geography room, library, club, museum Exhibition hairs Exhibitions/ Fairs Excursion /field visits 	Lecture cum discussion Meaningful Verbal learning Online learning Visit to any one of the community resource centres Planetarium Archaeological sites CESS, IMD, SOI, Land USE/ Soil	 Field visit /study report Assignments on utilisation of community resources in teaching- learning of Geography

Survey Departments
etc
Prepare a list of community resources
Discuss and present the ways to utilize the community
resources

- http:///wikipedia. Wikipedia. Org/wiki/wiki
- http://cricap.org
- http://www.ehow.com
- singh and Gopal (2004) Teaching Strategies. New Delhi: APtt Publishing Corporation
- Raj, Rani Bansal (1999) Models of teaching and concepts of learning. New Delhi: Anmol Publications
- AroraM.L (1979) Teaching of Geography, Prakash Brothers, Ludhiane
- Gopill G.H (1966) Teaching of Geography, Macmillan, London
- VermaO.P, and Vedanayagam. E.G (1987) Teaching of Geography, Sterling Publishers Private Limited, New Delhi

Unit 3: E- resources in Teaching and Learning of Geography (16 hours + 6 Hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To generate a broad perspective of e- resources in Geography instructional practices To develop skill in- retrieving and 	• Concept and importance of e- resources, web resources, social networking, Blogs, e- learning, m- learning and web- based learning in Geography	Online learning Demonstration	 Use of 4 e-resource to prepare for learning materials Internal test for units, 1, 2 and 3 CE-I, EDU-09
transacting Geography curriculum through e- resources 3. To identify the use of ICT in the teaching- learning of Geography	 Learning Management systems (LMS virtual library Virtual library Application of IT enables instructional resources in Geography online resources, Internet resources video conferencing etc 	Narrative expression Web search Internet access Blogging and submission of online assignments	

- http://www.e- learningfokids.org/courses.html
- http://www.bbk.aciuk/linkinglondon/tesources
- http://en.wikipedia.org/wiki/learning management system
- https://www.itschool.gov.in
- www.youtude.cpm/user/itsvicters
- victors.itschool.gov.in
- Roblyer, M.D (2008) Integrating Educational Technology into Teaching. New Delhi. Pearson Publications
- Rajasekharan.S (2007) computer Education. New Delhi: Neel Kamal Publishers Pvt. Ltd
- En-wikipedia.org/wiki/IT@School-Project
- Alexey Semenov, UNESCO(2005), Information and Communication Technologies in Schools: A Handbook for Teachers
- Atkins. N.J and Atkins. J.N Practical Guide to AV Technologies in Education
- Khan (1977) web based Instruction. Englewood Cliffs: Educational Technology publications
- Madhukumar, Indira (2005). Internet based distance learning. New Delhi: Global Network
- Sagar Krishna (2005). ICT Teacher Training. New Delhi: Global Network

Unit 4: Research Trends in Geography Education (10 Hrs + 5 Hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1. To develop a positive attitude towards research in the curriculum development process and to utilize the research findings in the teaching learning of Geography	 Need and significance of research in teaching learning of Geography Need for developing innovative techniques and strategies in pedagogy and evaluation in Geography Teacher as a researcher in geography Action research in Geography need and significance 	Group discussion Online learning Group discussion Prepare a paper on research in pedagogical aspects Conduct seminar	 Online assignment (Practical evaluation) Assignment preparation Reflections

- http://en. Wikipedia.org/wiki/wiki
- http://www.edn.playmonth .ac.uk/resined/action research/arhome.htm
- Best, John.w. and Kahn, James. V(1999) Research in Education. Boston: Allyn and Bacon
- Leary/ Zina.O (2010) Doing Your Research Report New Delhi: SAGE Publications
- Crowder N.A (1959) Action Research to Improve School Practices. New York: Columbia
- Alan Holmeister & Margaret Lake (1990) Research into Practice USA: Allyn & Bacon
- AroraM.L (1979) Teaching of Geography, Prakash Brothers, Ludhiane
- Gopill G.H (1966) Teaching of Geography, Macmillan, London
- VermaO.P, and Vedanayagam. E.G (1987) Teaching of Geography, Sterling Publishers Private Limited, New Delhi
- www. Moodle/org
- http://www.cet.nic.in/
- http://www.ncert.nic.in

EDU - 10.11: Techno Pedagogic Content Knowledge Analysis – Geography

Hours of interactions- 60 (instruction) +30 (Activities /Process)

Objectives

- To conscientize the prospective teachers become a techno pedagogue and become aware of the concept TPCK
- To grow to be competitive in designing digital texts and e-content in Geography
- To familiarise with the networking system for intuitional and professional growth
- To get acquainted with the need of creating e- mail and blogs for pedagogical analysis
- To prepare the prospective teachers as reflective practitioners

Contents:

- Unit 1 Techno- Pedagogic content Knowledge Analysis (TPCK) and self- Instructional Strategies
- Unit 2 Net working in Geography Learning
- Unit 3 Models of Teaching in Geography
- Unit 4 Global Trends in Geography Education

Unit I. Techno-Pedagogic Content knowledge Analysis (TPCK) and self instructional strategies. (16 Hrs +8 Hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To conscientize the prospective teachers become a techno pedagogue To become aware of the concept of TPCK To become capable of analysing contents based on technology To get an awareness on self – instructional strategies 	 TPCK- concept, scope, challenges Inter- relationship with content, pedagogic and technological knowledge Technological knowledge required for a Geography teachers Self- instructional strategies Need & Importance CAI & Modular approach 	Meaningful verbal learning On-line learning Group discussion TPCK based content analysis Internet access	 Preparing notes Analysing content based on TPCK Assignments Video script developing and uploading

- http://en.wikipedia.org/wiki/Technological Pedagogical content
- Alexey Semenov, UNESCO, (2005) Information and Communication Technologies in schools: A Hand book for teachers
- Atkins N.J and Atkins. J.S Practical guide to Audio Visual Technologies in Education
- Battacharjee shymali (2007) Media and Mass communication: An introduction. New Delhi: Kanishka publishers
- Khan, (1997) Web Based instruction, Englewood Cliffs Educational Technology publications
- Madhukumar, Indira (2005) Internet based learning. New Delhi: global Network
- Mayer Richard (2001) Multimedia learning Cambridge University press, UK
- Social Science II text books a std. VIII, IX & X of Kerala
- Techer's Handbook of Std VIII, IX & X Kerala
- Verma O.P., and Vedanayagam. E.G (1987) Teaching of Geography, Sterling Publishers Private Limited, New Delhi
- Arora M.L (1979) Teaching of Geography, Prakash Brothers, Ludhiana

Unit 2 Networking in Geography Education (12 Hrs + 6 Hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To be aware of designing digital texts and e-content in Geography To familiarise with networking system for institutional & Professional growth 	 Institutional networking and professional growth Current high-tech classroom techniques Creation of email ID/Blogs Concept of on-line learning and virtual learning E- twinning 	Discussion Online learning Demonstration Internet access Workshop	 Observation Report verification Internal test for units 1 and 2 (EC- EDU.10) ICT based lesson and uploading as practical works Internal test for units 1 & 2 (CE-EDU.10)

- http:// teaching history.org/issues-and research/round table
- www.aptara corp.com/digital-content-problem/e-content development
- www.net.security.org
- cybercoyote.org/security/sage-web.html
- http://en.wikipedia.org/wiki/Technological Pedagogical content

- Alexey Semenov, UNESCO, (2005) Information and Communication Technologies in schools: A Hand book for teachers
- Atkins N.J and Atkins. J.S Practical guide to Audio Visual Technologies in Education
- Battacharjee shymali (2007) Media and Mass communication: An introduction. New Delhi: Kanishka publishers
- Khan, (1997) Web Based instruction, Englewood Cliffs Educational Technology publications
- Madhukumar, Indira (2005) Internet based learning. New Delhi: global Network
- Mayer Richard (2001) Multimedia learning Cambridge University press, UK
- Social Science II text books a std. VIII, IX & X of Kerala
- Techer's Handbook of Std VIII, IX & X Kerala
- Verma O.P., and Vedanayagam. E.G (1987) Teaching of Geography, Sterling Publishers Private Limited, New Delhi
- Arora M.L (1979) Teaching of Geography, Prakash Brothers, Ludhiana

Unit 3 Models of Teaching in Geography (16 Hrs +8 Hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To acquaint with the concept, families and selected items of models of teaching To acquaint with developing lesson transcripts based on selected models of teaching 	 Models of teaching- definition, concept, significance, essential elements Families of models of teaching Ausubel's meaningful verbal learning Advance organiser, Inquiry training, Jurisprudential and role playing models 	Demonstration Online learning Simulation Scaffolding strategies Lesson transcript preparation Web search	 Discussion lesson Demonstration lesson Criticism (Any 3 lessons on models of teaching) Practical Assignments

- http://www.guardian.c.ul/higher-education-network/
- Joyce,B& weil,M.(2003) Models of teaching (5th Edition) New Delhi: Pentice Hall
- http:// tep uoregon.edu/showcase/crmodel/strategies
- Arora M.L (1979) Teaching of Geography, Prakash Brothers, Ludhiana

Unit 4 Global Trends in Geography Education (17 Hrs + 7 Hrs)

Learning O	utcome	Major concepts	Strategies & Approaches	Assessment
 To help the prospe for comparative stu Geography educati perspective To be aware the ter education for child needs 	ndy of on in a global chniques of	 Geography Education global trends in the 21st century in the developed and developing countries in south –East Asia Quantitative revolution in Geography Geography education for children with special needs gifted/ slow learners/culturally-deprived- nature, characteristics and activities 	Discussion Web searching Seminars Internet access NCERT Text books Online learning	SeminarsReportingAssignment

- http/tep.Uorgegon.edu/Showcase/crmodel/strategies
- borich, gary.D(2012).Effective teaching methods: Research based practice. New Delhi Pearson Education
- NCERT Testbooks
- Teachers handbook in social science for Std.VIII, IX & X of Kerala

EDU - 09.12 : CURRICULUM AND RESOURCES IN DIGITAL ERA: COMMERCE EDUCATION

(Theoretical discourses - 60 Hrs + CE - 30 Hrs)

Objectives

- To get acquaint with modern principles and trends in the construction and organization of commerce curriculum
- To become systematically correlate instructional practices with life of the community to develop better public relations.
- To become equipped in retrieving suitable teaching learning resources
- To attain proficiency in IT enabled instructional resources for preparing text book, work book, handbook, source book etc in commerce.
- To become talented in applying innovative strategies and approaches for instructional effectiveness.
- To develop capability in managing heterogeneous learning set up.
- To generate a broad perspectives of e-resources in instructional practices and to develop skill in retrieving and transacting commerce curriculum through e-resources
- To develop a positive attitude towards research to develop inquiry skills and scientific investigation

Contents:

Unit 1	Curriculum	Designing in	Commerce Education
Omit 1	Culliculum	Designing in	Commerce Education

- Unit 2 School and Community Based Instructional Resources in Teaching Commerce
- **Unit 3** E- Resources in Teaching and Learning of Commerce
- **Unit 4** Research Trends in Commerce Education

Unit 1: Curriculum Designing in Commerce Education (15 Hrs + 6 Hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To get acquaint with modern principles in the construction and designing of commerce curriculum To become conversant with NCF and KCF 	 Curriculum – Concept, Principles of designing commerce curriculum Approaches, types of curriculum, Modern trends in designing commerce curriculum. Brief outline about NCF (2005) KCF (2007) and its relevance in vocational education. 	Analytical approach Debate Seminar Co-operative learning	 Group investigation summary reports Prepare a brief sketch of NCF and KCF

Unit 2: School and Community Based Instructional Resources in Teaching Commerce (13 Hrs + 7 Hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To develop a desire to take active involvement in community affairs To become systematically correlate instructional practices with life of the community; thereby develop better public relations. 	 School and community based teaching – learning resources: school to the community and community to the school. Co-curricular activities-school bank, commerce club, commerce library, commerce room etc. 	Discussion Project method Visit to commercial institutions/ industries	 Prepare a list of community recourses- discuss and present the ways to utilize the community recourses Conduct a field study to any one of the resource centers.

Unit 3: e- Resources in Teaching and Learning of Commerce (18 Hrs + 10 Hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To generate a broad perspectives of e-resources in instructional practices To develop skill in retrieving and transacting commerce curriculum through e-resources 	 Concept of e- resources, Web resources, social networking, Educational blogs, e-journals, pod casting, e-learning, m- learning, web based learning. Learning management system (LMS) in teaching learning of commerce education. IT enabled instructional resources: On line resources, videos, YouTube resources, animations, film clippings. 	Online learning Demonstration Narrative expression Web search	Use any e-resources to prepare any 4 learning materials

Unit 4 Research Trends in Commerce Education (14 Hrs +7 Hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To develop a positive attitude towards research To develop inquiry skills and scientific investigation 	 An introduction to Research in Commerce Education- Need and importance Commerce Teacher as a researcher Analysis of Research outcomes in Commerce education both teaching and learning. 	Group Discussion Brain storming Education Journal analysis	Prepare a paper (utilizing internet) on the latest research findings on pedagogical aspects in Commerce and conduct a seminar.

- Aggarwal, J.C. (1996) A Practical Approach. New Delhi: Vikas Publishing House Pvt. Ltd.
- Best, John.W & Kahn, James.V. (1999). Research in Education. Boston: Allyn and Bacon.
- Borich, Gary D (2012). Effective teaching methods: Research based practice. New Delhi: Pearson Education
- Leary, Zina O((2010). Doing your research project. New Delhi. SAGE
- Obul, Reddy D. (2000). Re-designing of commerce education in India in the context of changing business environment, The Journal of Commerce; Vol. 36(3).
- Raj, Rani Bansal (1999). Models of teaching and concepts of learning. New Delhi: Anmol Publications.
- Rao, Bhaskara (2005) Curriculum for Learning to Live Together. New Delhi: Discovery Publishing House.
- Seema Rao (1995). Teaching of Commerce. New Delhi: Anmol Publications.
- Singh and Gopal (2004) Teaching Strategies. New Delhi: APH Publishing Corporation.
- Singh, Y.K. (2007). Teaching of Commerce. New Delhi: APH Publishing Corporation.
- Sue, Cowley (2006) A Z of Teaching. New York: Brij basi Art Press Ltd. Raj, Rani Bansal (1999). New trends in teaching of Commerce: Models of teaching and concepts of learning. New Delhi: Anmol Publications.
- http://www.bbk.ac.uk/linkinglondon/resources/
- http://en.wikipedia.org/wiki/Learni management_systemhttps://www.itschool.gov.in
- www.youtube.com/user/itsvicters
- **victers**.itschool.gov.in/
- http://www.edu.plymouth.ac.uk/resined/actionresearch/arhome.html
- http://www.ssamis.com/web/downloads/KCF 2007.pdf

- en.wikipedia.org/wiki/IT@School Project
- www.youtube.com/user/itsvicters
- http://www.ncert.nic.in/html/pdf/schoolcurriculum/framework
- http://www.case.edu/artsci/engl/emmons/writing/pedagogy

EDU – 10.12: TECHNO- PEDAGOGIC CONTENT KNOWLEDGE ANALYSIS – COMMERCE

(Theoretical discourses - 60 Hrs + CE -30 Hrs)

Objectives:

- To conscientize the prospective teachers become a techno- pedagogue and become aware of the concept TPCK
- To grow to be competitive in designing digital texts and e-content in commerce disciplines
- To become empower in surfing digital resource for transacting commerce curriculum.
- To familiarize with the networking system for institutional and professional growth.
- To get acquainted with the need of creating e-mail and blogs for pedagogical analysis.
- To prepare the prospective teachers as reflective practitioner
- To get acquaint with the principles and designing of assessment mechanisms and capable of implement it.
- To generate a professional aspiration among young world by preparing for competitive / placement exams
- To inculcate a broad perspectives of individualized institution

CONTENTS:

- Unit 1 Techno Pedagogic Content Knowledge Analysis (TPCK) and Self Instructional Strategies
- **Unit 2** Networking in Commerce Learning
- **Unit 3** Models of Teaching in Commerce
- **Unit 4** Global Trends in Commerce Education.

Unit 1 Techno Pedagogic Content Knowledge Analysis (TPCK) and Self Instructional Strategies (15 Hrs + 8 Hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1. To conscientize the prospective teachers become a technopedagogue	Inter relationship between Technology, Pedagogy and Content, Teacher as Techno- Pedagogue.	Meaningful verbal learning	Prepare a self explanatory note on 'Teacher as a Techno- Pedagogue'
 To become aware of the concept TPCK To become capable of analyzing content based on technology 	 Scope and purpose of Techno-Pedagogic Content Knowledge Analysis. TPCK based content analysis (Selected units 	Demonstration On line learning	TPCK based Content analysis on any one unit.

of higher secondary commerce text book)	Group discussion	
• Self Instructional Strategies : Importance		
 Programmed instruction 		
• CAI,CMI, CML, Instructional modules		

Unit 2 Networking in Commerce Learning (13 Hrs + 7 Hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To become competent to analyze the ways in which Professional and Institutional growth established through network twinning. To become skillful while creating e-mail ID and blogs. 	 Professional and Institutional growth: Through network-twining Student and Institution Networking Online learning: Concept and system of online learning, virtual learning. Creation of e-mail ID and blogs Applications of Social Networking systems 	Discussion Online learning Demonstration Workshop Group investigation	 Concept maps Observation Product presentation Report verification

Unit 3 Models of Teaching ($18\ Hrs + 8\ Hrs$)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To interlock 'models of teaching' in effective instructional practices of commerce education. To categorize, analyzes and applied the varied instructional models in commerce discipline. 	 Models of teaching – Introduction, Operational Heart, Different families Concept Attainment Model with lesson templates Inquiry Training Model with lesson templates Group Investigation Model Cognitive Apprenticeship Model 5 E model with lesson templates 	Demonstration Group discussion Co-operative learning	 Discussion lesson (5- three out of five should be Models of Teaching) Demonstration (2) Criticism (5/ 3models of teaching)

Unit 4 Global Trends in Commerce Education (14 Hrs + 7 Hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To analyze the global trends in commerce education through comparison between India with other countries. To evaluate the significance of Entrepreneurship Education, Business Education and Accounting Education in modern era. 	 Global trends in commerce education Commerce education with India and USA Entrepreneurship Education – India V/S Japan Business Education in India and Bangladesh Accounting Education – Comparison with India and Australia 	Discussion Brain storming Inductive strategies Thinking strategies	 Idea presentation grid Assignment and seminar reports

- Raj, Rani Bansal (1999). New trends in teaching of Commerce: Models of teaching and concepts of learning. New Delhi: Anmol Publications.
- http://tep.uoregon.edu/showcase/crmodel/strategies
- http://en.wikipedia.org/wiki/**Entrepreneurship**_education
- http://www.guardian.co.uk/higher-education-network
- http://en.wikipedia.org/wiki/Technological Pedagogical Content
- http://teachinghistory.org/issues-and-research/roundtable
- www.net-security.org
- http://www.bbk.ac.uk/linkinglondon/resources/
- www.youtube.com/user/itsvicters
- en.wikipedia.org/wiki/**IT@School_**Project
- victers.itschool.gov.in/

EDU-0 9.13: CURRICULUM AND RESOURCES IN DIGITAL ERA-HOME SCIENCE EDUCATION

(Theoretical discourses - 60 hrs, CE - 30 hrs)

Objectives:

- To strengthen the experience of the promising student teachers as curriculum designers, transmitters and assessors
- To attain proficiency in IT enabled instructional resources for preparing teaching learning materials in Home Science.
- To generate a broad perspectives of e-resources in instructional practices and to develop skill in retrieving and transacting Home Science curriculum through e-resources
- To undertake a self empowerment initiative in transacting the Home Science Curriculum from a digital migrant outlook
- To provide the required research based science learning experiences so as to undertake a habit of self development through inquiry and investigation

Contents:

Unit 1: Curriculum Designing in Home Science Education

Unit 2: School and Community Based Teaching and Learning of Home Science

Unit 3: E-Resources in Teaching and Learning of Home Science

Unit 4: Research Trends in Home Science Education

Unit 1: Curriculum Designing in Home Science Education (20+4=24 hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To acquaint with the concepts of curriculum and syllabus To understand and apply the principles of curriculum construction To familiarize with the curriculum organization To familiarize with the recent trends in curriculum construction in state, national and international level 	 Curriculum and syllabus-Meaning, Definition, Nature Principles of curriculum construction. Types of curriculum-subject centred, activity centred, core curriculum, hidden curriculum Approaches to curriculum organisation- Concentric approach, Spiral approach, Topical approach, General science and disciplinary approach Critical analysis of Higher Secondary /Vocational Higher Secondary school curriculum in Home Science prescribed by 	Meaningful verbal expression Buzz session PBL Co-operative learning Seminar	 Questioning Role performance analysis in Buzz discussion Concept mapping Open book analysis

5.	To understand correlation of Home		SCERT.	Group discussion	
	Science within the subject as well as with other subjects.	•	Trends in curriculum construction-SCERT	Web Streaming	
	as with other subjects.		and curriculum, Critical Pedagogy, Issue based curriculum, Problem Based Learning-	web streaming	
			Main features.	Blog reading	
		•	Correlation- Incidental and systematic,		
			Correlation within the subject, Correlation of		
			Home Science with other subjects such as		
			Biology, Physiology, History, Chemistry,		
			Economics, Commerce, Management		
			studies, and Environmental Education.		

- Higher secondary Home Science text book (Plus 1 & Plus 2) prescribed by SCERT, KERALA
- Teacher's source book of Clothing and embroidery text book (Vocational Higher Secondary-Fist & Second year). SCERT, KERALA
- Bunnie Othanel Smith (1950): Fundamentals of Curriculum Development: California, World Book Company.
- Rao, Bhaskara (2005) Curriculum for Learning to Live Together. New Delhi: Discovery Publishing House.
- Singh and Gopal (2004) Teaching Strategies. New Delhi: APH Publishing Corporation.
- Nibedita, D. (2004). Teaching of Home Science. Dominant publishers and Distributors
- http://www.ncert.nic.in/html/pdf/schoolcurriculum/framework
- http://www.ssamis.com/web/downloads/KCF 2007.pdf
- http://www.case.edu/artsci/engl/emmons/writing/pedagogy

Unit 2: School and Community Based Teaching and Learning of Home Science (22+10=32 hours)

Lear	ning Outcome		Major concepts	Strategies & Approaches		Assessment
significance resources 2. To familiar	t with the concept and e of community based rize various formal and arning contexts	•	Community based resources- Meaning, need and significance Human Resources- resource persons/eminent persons and teachers from different fields of Home Science	Narrative expression sessions in small or medium groups	•	Performance analysis in varius participatory activities. Quiz programme presentation Blog posting

human resources in local community 4. To identify the material supports in learning Home Science • Con cont welf Balv Inst: Reh scal • Mat bool mat Jour • Fiel imp • Hon Sigr • Hon	made resources- Home science Library- rtance and organisation, web resources, e Science laboratory- Importance and hisation, Registers munity Resources/ Informal learning atts- Food Processing Units, Social hire department, ICDS- hadi/Anganwadi, Creche and preschool, hution for special education, hilitation centres, Textile units, Small hindustries and cottage industries. handbook, source book reader, work handbook, source book, Reference hials- Encyclopaedia, Newsletters, hals, Learning module htrips and excursions- Need and hard excursions- Need and hard excursions and evaluation he Science club-Significance, hisation and activities Assignment Project Seminar Field trip Organization of Home science Expo Community resource mobilization / Contextual analysis	• Field trip
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- Yadav,S.(1994) *Teaching of Home Science*, New Delhi: Anmol Publications
- Begum, F.(2004) *Modern Teaching of Home Science*. New Delhi: Anmol Publications
- Nibedita, D. (2004). Teaching of Home Science. Dominant publishers and Distributors
- Singh and Gopal (2004) *Teaching Strategies*. New Delhi: APH Publishing Corporation.

Unit 3: E-Resources in Teaching and Learning of Home Science (15+7=22 hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To generate a broad perspectives of e-resources in instructional practices To develop skill in retrieving and transacting Home Science curriculum through e-resources 	 Concept of e- resources, Web resources, social networking, Educational blogs, e-journals, pod casting, e-learning, m- learning, and web based learning. Learning management system (LMS) in teaching learning of Home Science education. IT enabled instructional resources: On line resources, videos, YouTube resources, animations, film clippings. 	Web Streaming Explicit teaching On line learning	 Documentation Assessment of individual performance Use of e-resources in preparing learning materials

- http://www.bbk.ac.uk/linkinglondon/resources/
- http://en.wikipedia.org/wiki/Learni management systemhttps://www.itschool.gov.in
- www.youtube.com/user/itsvicters
- en.wikipedia.org/wiki/IT@School_Project
- victers.itschool.gov.in/
- www.youtube.com/user/itsvicters

Unit 4: Research Trends in Home Science Education (8+4=12 hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To develop a positive attitude towards research To develop inquiry skills and scientific investigation To understand the wide scope of employability of Home science learning 	 An introduction to Research in Home Science Education- Need and importance Home Science Teacher as a researcher Analysis of Research outcomes in Home Science education both teaching and learning. 	Group discussion on current researches in Home science education Action research	Performance assessmentOn line assignment

	Seminar	

- Bunnie Othanel Smith (1950): Fundamentals of Curriculum Development: California, World Book Company.
- Dimitris Psillos& Hans Niedderer (2002): Teaching and Learning in the Science Laboratory: Netherlands, Kluwer Academic Publishers.
- Funda Ornek, Issa M. Saleh (Eds.) (2012): Contemporary Science Teaching Approaches: Promoting Conceptual Understanding in Science: USA, Information Age Publishing Group.
- Jeffrey Michael Reyes, Duncan Andrade, Ernest Morrell (2008): The Art of Critical Pedagogy: Possibilities for Moving from Theory to Practice: New York, Peterlang Publishing Inc.
- John Wallace, William Louden (2002): Dilemmas of Science Teaching [electronic resource]: perspectives on problems of practice: New York, Routledge.
- NCSECA (1995): National Science Education Standards USA, National Academic Press.
- Radha Mohan(2007): Innovative Science Teaching: New Delhi, Prentice Hall of India Pvt Ltd
- Yadav,S.(1994) *Teaching of Home Science*, New Delhi: Anmol Publications
- Begum, F.(2004) *Modern Teaching of Home Science*. New Delhi: Anmol Publications
- Nibedita, D. (2004). Teaching of Home Science. Dominant publishers and Distributors
- Singh and Gopal (2004) *Teaching Strategies*. New Delhi: APH Publishing Corporation.
- Harms N. & Yager R. (1981): What Research Says to the Science Teacher (Vol. 3): USA, National Science Teachers Association.

EDU- 10.13: TECHNO-PEDAGOGIC CONTENT KNOWLEDGE ANALYSIS – HOME SCIENCE

(Theoretical discourses - 60 hrs, CE - 30 hrs)

Objectives:

- To undertake a self empowerment initiative in transacting the Home Science curriculum from a Techno-Pedagogical Content Knowledge perspective
- To get acquainted with different aspects of collaborative use of information and communication technology
- To gain a perspective of basic theories and guiding plans for effective transaction of Home Science
- To understand the nature and importance of Home Science from a global perspective

Contents:

Unit 1: Techno-Pedagogic Content Knowledge and Self Instructional Strategies

Unit 2: Networking in Home Science Learning

Unit 3: Models of Teaching in Home Science

Unit 4: Global Trends in Home Science Education

Unit 1: Techno-Pedagogic Content Knowledge and Self Instructional Strategies (11 +6 =17 hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To conceptualize the basic principles of Techno-Pedagogic Content Knowledge Analysis in Home Science Teaching and Learning To identify the role of science teacher as a techno-pedagogue To understand various Self Instructional Strategies 	 Techno-Pedagogic Content Knowledge Paradigm-Interrelationship of Content Knowledge, Pedagogic Knowledge and Technological Knowledge, scope and purpose TPCKA based content analysis- Higher Secondary /Vocational Higher Secondary Home Science text book Science teacher as a techno-pedagogue. Techno-pedagogic competencies, Self Instructional Strategies- Meaning, Types- Programmed Instruction ,Modular Instruction, Personalized System of Instruction, CAI and CMI 	Small group discussion Web searching demonstration Power Point Presentations Seminar On line learning	 Participant observation Development of video script On-task behaviour in class Reflective journal (Technological skill practice in classrooms)

- AACTE Committee (2008): Handbook of Technological Pedagogical Content Knowledge (TPCK) for Educators: Washington, DC, Rutledge/Taylor & Francis
- Mangal S. K. & Uma Mangal (2009): Essentials of Educational Technology: New Delhi, PHI Learning Pvt Ltd.
- http://en.wikipedia.org/wiki/Technological Pedagogical Content

Unit 2: Networking in Home Science Learning (15+11 = 26 hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To grow to be competitive in designing digital texts and e-content in Home science Education To become empower in surfing digital resource for transacting Home Science curriculum. 	 Professional and Institutional growth: Through network-twining Student and Institution Networking Online learning: Concept and system of online learning, virtual learning. Creation of blogs. Applications of Social Networking systems 	Discussion Online learning Demonstration Workshop Group investigation	 Digital document analysis Blog posting Debate Online test ICT based lesson designing and uploading in blog (1)

- http://teachinghistory.org/issues-and-research/roundtable
- www.5learn.co/e-content-development
- $\bullet \qquad \text{www.aptaracorp.com/digital-} \textbf{content-} \textbf{production/} \textbf{econtent-} \textbf{development}$
- www.ntu.edu.sg/home/sfoo/publications/2002/02ecdl_fmt.pdf
- www.net-security.org

Unit 3: Models of Teaching in Home Science (18 +10 =28 hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To understand the application of major psychological theories in learning. To understand various models of teaching and their practice. 	 Psychological theories for learning science-A brief introduction of Piaget, Bruner, Gagne, Vygotsky and Ausubel, Gardener's Multiple Intelligence Theory Models of teaching – Introduction, definition, elements and families of models of teaching Concept attainment model Inquiry training model Constructivist learning model Advance organizer model Group investigation model 	Meaningful verbal expression Group discussion Peer tutoring Observation Brain storming Video analysis	 Analysis in group discussion Class test Discussion lessons (5, Three lessons out of five based on models of teaching) Demonstration lessons (2) Criticism lessons (5, Three lessons out of five based on models of teaching) - Performance, observation and recording

- Bhattacharya S. P. (1994): Models of Teaching: New Delhi, Regency Publications.
- Bruce R. Joyce, Marsha Weil and Emily Calhoun (2011): Models of Teaching (7th Ed.): USA, Pearson Education

Unit 4: Global Trends in Home Science Education (12 +8 = 20hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
To understand Global trends in relation to House Science Education	 Home Science education in the global scenario Home Science towards community Science-women entrepreneurships, Gender equality, extension and communication management system of selected developed and developing countries (USA,China, Japan) with special reference to 	Web streaming Documentation Invited lectures	 Document analysis Blog posting Involvement in subject association activity Video script: Development, enacting, recording and uploading)

Brief history, approaches, organizational	Script writing for radio talk on a
structure, linkage to research extension	topic in home Science
methods used and its comparative analysis	
with Indian system.	

- http://jit.sagepub.com/tips/cross.dt
- www.sagepub.com/journalsindex.nav
- www.librarything.com/tag/clothing-cached
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EDU – 201.2 : Health and Physical education

(2 credits – 60 hours & 50 marks)

Objectives:

- To acquire knowledge about the Track and Field events.
- To become familiar with major and minor games and to develop interest in sports and games
- To understand the ability to organize and conduct sports and games
- To understand the importance and values of recreational activities in the modern society
- To understanding of the psychological, sociological, and physiological significance of play & recreation.

Contents

- Unit 1 Track & Field or Athletic events general awareness, rules and regulations, organization.
- Unit -2 Major and minor games types, rules and regulations
- Unit 3 Tournaments knock out and league, fixtures for tournaments
- Unit 4 Play & Recreation need and importance, leisure time management, practice.
- Unit 5 Mental Health meaning, problems and techniques.
- Unit 6 Practice of yoga-surya namaskar.

Unit – 1: Track & Field or Athletic events – general awareness, rules and regulations, organization.

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1. Acquire knowledge about the track	Track and field or Athletic events 8 hours	Oral presentation	 Group assessment
and Field events	General awareness on athletics	Group activity	Organizing sports meet
	Rules and regulations of any one event in	Participation	• Participation
	detail	Participation	

Unit – 2: Major and minor games – types, rules and regulations

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
Become familiar with major and minor games and to develop interest in sports and games	 Major and Minor games – 8 hours Understanding major and minor games rules and regulations of any one major game in detail 	Theoretical orientation Virtual learning platforms	 Group assessment Intramural competitions

Unit – 3: Tournaments – knock out and league, fixtures for tournaments

	Learning Outcome	Major concepts	Strategies & Approaches	Assessment
-	Understand the ability to organize and participate in the conduct of sports and games	 Tournaments – 6 hours Knock out, league and combination tournaments Method of drawing fixtures under knock out and league tournaments 	Meaningful verbal expression Group activity sessions in small and medium group	 Group assessment Assignments
4	2. To familiarize the ways and measures to draw a standard athletic track.	Track and field marking – 8 hours • standard 400 mts/200 mts Track marking • Field marking	Verbal presentation Group activity Field work	Field analysis through group performance.

Unit – 4: Play & Recreation – need and importance, leisure time management, practice.

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 Understand the importance and values of recreational activities in the modern society Understanding of the psychological, sociological, and physiological significance of play & recreation Practice recreational games 	 Play & Recreation – 10 hours Need & Importance of Play & Recreation Play theories Values associated with practice of play & Recreation Leisure time Management Recreational Games Practice of Recreational activities 	Theoretical orientation Demonstration Group activity	Group assessment

 $Unit-5:\ Mental\ Health-meaning,\ problems\ and\ techniques.$

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1. Understanding the importance of	Mental Health – 8 hours	Narrative expressions	
mental health and normal mental health problems to be addressed in general population 2. Get acquaint with the relaxation techniques to overcome mental health problems	 Introduction and overview of mental health Mental health problems Techniques to improve mental health 	Demonstration Practical sessions	

Unit – 6: Practice of yoga-surya namaskar.

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
Understands the importance of surya namaskar as an exercise and practices.	 Practice of Yoga 12 hours. Surya Namaskar – Sun Salutation for mental, emotional, physical and spiritual well beingsignificance in education. Meaning – Steps of Surya Namaskar. Pranamasan Hasta uttanasana Pada hasthasana Ashwa-sanchalan-asana Parvatasana Ashtanga namaskar Bhujangasana Parvathasana Ashwa-sanchalan-asana Parvathasana Hasta uttanasana Pada hastasana Hasta uttanasana Pranamasan. 	Narrative expressions Demonstration Practical sessions	 Practice. Individual performance assessment.

Guidelines for Practical work

•	Physical Education Record	- 10 marks
•	Winning prizes in sports and games	- 5 marks
•	Participation in sports and Games	- 10 marks
•	Initiative and Effort in organizing sports and games	- 5 marks
•	Internal written examination	- 10 marks
•	Practice of Yoga	- 10 marks

EDU – 201.3: ART EDUCATION AND THEATRE PRACTICE

(Credit – 1, carries 25 marks/30 hours)

Contents:

Theatre practice in curriculum transaction-

- Workshop to develop simple drama/ skit -Discussion about script writing on selected topic in the optional subject-theatre practice.
- Puppetry –types use in classroom transaction demonstration/video presentation.
- Role plays/ Mono act for transaction of different subjects-discussion and presentation.

Practicals:

- Prepare report on the importance of theatre practice in Education with selected examples. (maximum 15 pages) 10 marks.
- Writing of script for a small drama/ skit by selecting a topic in your subject (individual/group) 15 marks.

SEMESTER – III

Instructional hours per Subject: 90 hours (Theoretical Discourses – 60 & CE – 30 hours)

Perspectives in Education/Core Subjects:

 $\label{eq:entropy} \textbf{EDU - 11: Developmental Perspectives of Education.}$

EDU - 12 : Learner in the Educational Perspective.

Curriculum and Pedagogic courses/Optional subjects:

EDU - 13. 1-13: Emerging Trends and Practices inEducation.

EDU - 11: Developmental Perspectives in Education.

(Educational Management, Environmental Education, Health Education and Entrepreneurship Education)

(Theoretical discourse 60 and CE - 30 hrs)

Objectives:

- To develop an understanding of the concept of Management and Educational management.
- To discuss the contribution which management theory can make to understanding management practices
- To explain the meaning of the terms: management and leadership in education
- To develop an understanding of how to apply knowledge, skills and attitudes in educational management to enable more effective resource planning, organization and co-ordination of school programmes and activities, and directing, controlling and evaluating of the teaching and learning processes in school.
- To familiarize with the Total Quality Management in Education
- To develop entrepreneur interests and skills in students enabling them to explore career prospects.
- To develop an understanding of Environmental Education
- To create an awareness of environmental movements, laws and rights and to practice eco friendly life style.
- To sensitize towards disaster management
- To sensitize towards the concept of sustainable development.
- To develop knowledge of the fundamentals of Health, Health Education and Physical fitness.
- To Guide the next generation to live with social commitment and obligations.

Contents:

- A. Educational management and Entrepreneur education
 - **Unit 1: Introduction to Educational management (10hrs)**
 - Unit 2: Aspects of school management (15 hrs)
- B. Environmental and Health Education
 - Unit 3: Environmental awareness and importance of Environmental Education (14 hrs)
 - Unit 4: Disaster management (6hrs)
 - Unit 5: Health Education (15 hrs)

Unit 1: Introduction to Educational Management (10 hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To familiarize with the concept, meaning and characteristics of management. To enable the student teacher to understand the functions of management To familiarize with modern theories of management To acquaint with concept, principles, importance and components of educational management To enable the student to understand the structure of management at different levels 	 Concept, Meaning and Characteristics of Management. Functions of Management. Theories of Management (Taylor's Theory, Fayol's Theory and Peter Drucker's Theory) Concept, Scope, Principles and Importance of Educational Management Components of management of Educational system. Structure of Educational management in Kerala at Central, State and Local level 	Verbal discourse Group discussion Narrative expression in small groups Brain storming Collaborative interaction Meaningful verbal Learning Verbal interaction	 Reflection Oral questions Role performance assessment Quizzes Observation of involvement in interaction Journal writing

Unit 2 Aspects of school management (15 hrs)

	Learning Outcome		Major concepts	Strategies & Approaches		Assessment
1. To l	know about the importance and	•	Institutional Planning- Concept, Importance,	School visit and	•	Report writing
	cept of institutional planning		Steps and role of HM in institutional	Collaborative	•	Participant observation
and	make the students realise the		planning.	discussion	•	Performance assessment

- role of HM in the planning
- 2. To acquaint with various resource management at school
- 3. To familiarize with importance and types of time table and understand the principles of framing it.
- 4. To develop the skill in organizing a school plant and maintaining the school records and registers
- 5. To develop a clear perception about the human resources and their duties
- 6. To understand the concept of leadership and various styles of leadership.
- 7. To get a clear idea about the roles and responsibilities of the head of the institution
- 8. To gain an overview on the roles of teacher as learning facilitator and classroom manager
- 9. To explore the importance of entrepreneurship education its phases and the major entrepreneurship skills that can be developed in a learner
- 10. To reinforce entrepreneurial education for teacher trainers
- 11. To explore the avenues as

- Resource Management
- Time Management- concept of time management.
- Timetable- Importance, Principles of framing Time Table and Types of Time Table
- Material Resource Management
- Organization of School Plant- school site, building, infrastructure
- School records and registers- Types and maintenance
- Human Resource Management
- **Headmaster-** Qualities, Roles, Duties and responsibilities, Concept of Leadership, Styles of leadership.
- **Teacher** Qualities and Roles of Teacher as learning facilitator and classroom manager planning and providing learner friendly learning experiences and innovative learning strategies, meeting the needs of heterogeneous learners.
- Learner- Education for trained manpower -Entrepreneurship Education, Concept, functions, need and importance and Process of entrepreneurship
- Phases of entrepreneurship- sensitizing, training, qualification and coaching.
- Entrepreneurial skills-Goal setting, Planning, Creative thinking, Research, Decision

Active class room learning

Practical experience

During school induction and practice teaching

Discussion in small groups

Peer tutoring

Seminar and discussion

Reflective practices

Visit to institutions

Interactive session

Discussion

Role play

Workshops

Project method

Participant observation

Student led enquiry and discovery

Active learner centered learning activities

- Document reporting
- Preparation of learning materials
- Observation of involvement
- Analysis of reports
- Tests
- Assessment of tour report
- Observation of involvement in interactions.
- Performance Assessment
- Performance Assessment
- Assessment of reports
- Discussion
- Observing the interactions
- Tests
- Rubrics
- Assessment of learner involvement and creativity
- Assignment assessment
- Evaluation of project
- Teacher observation
- Performance assessment in group discussion
- Peer evaluation
- CE
- Evaluation based on
- umentation

entrepreneurs in educational field	making, Risk bearing, problem solving.
12. To acquaint with various academic	• Evolving career prospects of teachers-
supports in school management	• Content writers, e-content development
activities	content editors, translators, educa
13. To familiarize the importance of	software developers, publishers, o
PTA ,Staff Council and Student	counselors ,education journalists, sta
Council	initiatives etc.
To realize the importance of co-	Academic support systems
curricular activities in the	• Library (school information sys
personality development of a	Laboratory, Museum.
learner	• PTA, Staff Council, student co
14. To develop an awareness about the	organizational structure and functions
need of professional growth of	Co-scholastic activities- organizing
teachers and familiarizing different	curricular activities, Morning Asse
programmes and organizations to	various clubs-science mathematics

attain professional development

Quality Management and Quality

16. To acquaint with the concept and

applications of SWOC analysis

15. To get a clear idea about Total

Indicators

- observation developers, Collaborative lators, educational discussion publishers, career **Projects** ournalists, start up Seminar Participant observation formation system), Participation in student councilschool activities Involvement in - organizing coactivities Morning Assembly, Small group various clubs-science, mathematics and discussion literary club, Sports and Games, Celebrations Brain storming of days of national importance, Field trips. Professional growth of teachers-need, Institutional visit Participation in Total Quality Management- Concept and school activities importance, Quality Indicators, SWOC
- Library reference and Assignment evaluation **Evaluation of Practicum**

programmes, and organizations

analysis-concepts and steps

Unit 3 Environmental awareness and importance of Environmental Education (14 hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1. To understand the concept and	• Concept and components of Environment,	Observation	Report writing
components of environment 2. To identify the types of	Natural and Manmade Environment • Environmental resources- types,	Video Presentation	Work book analysisProject analysis
environmental resources 3. To realize the significance the	Biodiversity-types and significance • Environmental education-concept and	Hands on experience	Participation of studentsAssignments
biodiversity in protecting the	importance	Field study	Diary writing
environment 4. To understand the concept, and	Need of incorporating EE at various levels- Primary, Secondary and Tertiary level	Project method	PracticumPerformance based assessment
importance of environmental	Objectives and Principles of EE	Group tasks	Role assessment
education. 5. To understand the importance of studying environmental education at various levels	Human interventions , its impact on Environment and measures of Environmental protection	Small group discussion	Analysis of problem solvingAssessment of innovative ideasClass Test
6. To realize the impact of human interventions on environment	 Deforestation, Quarrying and Mining, Destruction of mangroves, sacred groves and wetlands, Population Explosion, Pollution- 	Field trip and observation	Individual assessment
7. To realize the consequences of human actions on the environment	types, causes and effects. Depletion of	Project method	
8. To acquaint with various types of pollution	Biodiversity, Extinction of species-Climate change, water scarcity, loss of arable	Workshops	
9. To develop a positive attitude	soil, global warming, ozone depletion, greenhouse effect.	Poster presentation	
towards the need for reducing	Waste management, wildlife and forest	Action research	
global warming and related consequences 10. To practice environment protection	conservation, water conservation, green culture, alternative sources of energy, organic farming, vermi composting.	Individual and group projects	
measures in personal life. 11. To conduct conscientization	• 3. B) Education for sustainable	Problem bases	

programme on reducing the development- Concept and significance	e learning
 programme on reducing the environmental pollution 12. To gain knowledge about the various environmental laws and rights 13. To familiarise with the constitutional provisions regarding the environmental protection 14. To apply the environmental laws and principles when need arises 15. To familiarise with the international efforts on environmental protection development- Concept and significance (6 hrs) Sustainable practices and role of students Role of Governmental agencies and No in environmental laws and rights- Air Water act, Wildlife Protection act, For Conservation act, Articles 48 A, 51 International Protocols- Earth Summit, Kontreal Protocol, Stock Conference. 	Work shops GO s Projects act, Lecture method lorest A(g), Eyoto The project of

Unit 4 Disaster management (6hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1. To familiarise the concept of	Meaning and concept of disaster management	Small group	Participation in discussion
disaster management	• Phases of disaster management – Steps and	discussion	Role assessment
 To familiarize with the phases of disaster management To familiarise with the mentioned disasters To prepare an action plan for disaster prevention and preparedness 	 brief description only Prevention and preparedness for Flood, Land slide, Fire and Earthquake 	Action plan preparation Expert talk Role play Power point presentation	Documentation analysis

Unit 5 Health Education (15 hrs)

	Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1.	Acquire knowledge of the fundamentals of Health, Health Education and Physical fitness.	 Health & Health Education Meaning, importance and factors affecting Health Significance, scope ,aims and objectives of Health Education 	Meaningful verbal presentation	• Test
3.	Develop right attitudes and habits for a healthy living in personal and community life. Guiding the next generation to live with social commitment and obligations.	 Hygiene & Health Hazards Personal and Community Hygiene Smoking ,Alcoholism and Abuse of drugs 	Dramatization Presentations in small/medium groups	 Evaluation of daily reflective behavior Test
5.	To impart knowledge regarding food and nutrition, first aid and the importance of posture. Develop awareness about various lifestyle diseases and their prevention.	 Understanding Nutrition Macro and Micro Nutrients Carbo hydrates, Protein, Fat, Vitamins (Fat soluble and water soluble), Minerals, Water & Fibre Balanced diet Vitamin deficiency diseases Malnutrition Diseases - Lifestyle diseases and it's management (Obesity, Hypertension , Diabetes and Osteoporosis) Common communicable diseases – Symptoms , causes and prevention 	Narrative expressions Group activity Personal profiles Verbal orientation Demonstration Group activity Verbal presentation Preparation of database	 Debating and discussions Test Survey reports Group presentation Posture assessment Grid

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ounds, Sprain, Strain, Cramp, Fainting,	
urns, etc.	
osture	
ongenital and acquired postural deformities	
emedial measures for acquired postural	
oblems	

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EDU – 12: Learner in the Educational Perspective.

(Theoretical Discourses – 60 hours & CE – 30 hours)

Objectives: To enable the student teacher:

- To integrate the values among learners
- To synthesis the role of learning for meaningful existence
- To understand rights and duties of an Indian citizen
- To develop an attitude to eliminate gender bias in educational institutions and society
- To develop strategies to empower girl students
- To familiarise the life skills among the learners
- To practice and enhance the mental and physical strength among students
- To acquaint with the guidance and counselling procedures
- To educate the trends and practices of classroom management.
- To equip student teachers professionally competent for inclusive classrooms.
- To analyze human behaviour and communication through Transactional Analysis

Contents:

UNIT I: LEARNER AND MEANINGFUL EXISTENCE

UNIT II: GENDER, SCHOOL AND SOCIETY

UNIT III: DEVELOPING AN INTEGRATED LEARNER

UNIT IV INTEGRATING PROFESSIONAL COMPETENCYFOR INCLUSIVE CLASSROOM

UNIT I: LEARNER AND MEANINGFUL EXISTENCE 20hours (15T+5P)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To inculcate values in the changing social scenario To integrate learner with learning in a holistic manner To understand Duties and Rights of Indian Citizens 	UNESCO • Citizenship Training- Duties and Rights of Indian Citizens	Lecture discussion Silent sitting visual experiences Anecdotes The Stage Specific Focus Group activities Organised discussion and reflective exercises Workshop Debates Role plays, Stories Symposium	 Response analysis Extension activity with a motive of Value inculcation and Performance based assessment Unit Test

- Agarwal. J.C (2006). Education for values, Environment and Human Rights. Shipra publications . New Delhi
- Yogendra Singh.(2007). Modernisation of Indian tradition. Rawat publication. New Delhi
- Dyakara Reddy D. & Rau.(2007). Value education. Discovery publishing House. New delhi
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- by <u>Tony Grundy</u> (Author), <u>Laura Brown</u> (Author)

UNIT II: GENDER, SCHOOL AND SOCIETY (25Hrs 15 T+10 P)

	Learning Outcome		Major concepts	Strategies & Approaches		Assessment
1. 2.	To analyse the historical perspectives of gender bias To adopt strategies to address gender issues in education	•	Major concepts Gender bias in India- Historical and Sociocultural perspectives and gender specific roles- Gender equity and significant role of women during Dravidian and Vedic culture Situations of gender differences – Educational, Social, Political, Economical, Gender bias in educational institutions- in the development of curriculum and textbooks- in the management of the school Strategies for addressing gender issues in education Empowerment of girls as empowerment of society and role of teacher to develop attitude of equity- policy and management-women's action groups	Approaches Lecture discussion	•	Assessment Response analysis Extension activity with a motive of Value inculcation.
		•	Gandhian views on women empowerment- A synthesis of pragmatism and idealism			

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- http://www.isical.ac.in/~wemp/Papers/PaperItismitaMohanty.pdf
- http://www.legalservicesindia.com/article/article/the-role-of-education-sector-in-removing-gender-inequality-

UNIT III: DEVELOPING AN INTEGRATED LEARNER 20 hours (15T+5 P)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To familiarise the life skills among the learners To practice and enhance the mental and physical strength among students To acquaint with the guidance and counselling procedures To nurture mental health and mental Hygeine among learners To promote healthy behaviour and healthy relations . 	 Meaning and scope of Life skills education-WHO classification of life skills. Strategies for applying life skills for capacity development Guidance and counselling – Meaning, scope, types, procedure and, organisation of guidance cell- Application in inclusive classrooms. Counselling - meaning and nature of Counselling skills- adolescent issues and their management-Sexual harassment, Substance abuse - Impact of media/ Internet/ mobile - Depression and suicide- causes and remedies. Counselling skills and procedure Mental Health and Hygiene – Characteristics, Role of Home and School 	Interview Puppetry Life skill Camps Prepare activities based on life skills Prepare sample script for role play Develop an activities to foster life skills in the classroom Design of Strategies for promoting emotional stability Conduct mock counselling sessions	 Field visit Role Play Practical work Assignments Seminar presentation Test paper Performance based assessment

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- IGNOU(2011) Life Skill develoment, SOE . New Delhi, IGNOU.
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- Teele, Sue (2000), Rainbow of Intelligence: Exploring how students Learn, California: Corwin Press Inc.

UNIT IV:INTEGRATING PROFESSIONAL COMPETENCY FOR INCLUSIVE CLASSROOMS 25 hours(15T+10P)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To familiarise the trends and practices of classroom management. To practice and enhance the behavior management strategies. To acquaint with the behavioural changes occur within a social group or between social groups. To analyse human behaviour and communication .through Transactional Analysis To equip student teachers professionally competent. 	 Classroom management –trends, practices and strategies, Behaviour management Group Dynamics- Sociometry and types of leadership Forces operating within a group in social interaction Transactional Analysis –Ego states, Egogram- significance in education Professional competency for inclusive classroom by incorporating the above aspects 	Open meeting of Parents Construction of sociometry in a group Interviews Group discussion Prepare activities based on Leadership skills Self evaluation by Egogram	 Field visit Role Play Practical work Assignments Seminar presentation Test paper Performance based assessment

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- World Health organisation (WHO) .1997. Life Skill Education in Schools .
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- http://www.educationalnetworking.com/
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- www.transactional-analysis.org/teachers.htm<u>www.unicef.org/crc/.</u>
- http://en.wikipedia.org/wiki/Education for all.

EDU – 13.1: Emerging Trends and Practices in Malayalam Education

(theoretical discourses – 60 & CE – 30 hours)

Objectives:

- To get familiarized with self-instructional strategies and integrated approach in teaching Malayalam
- To get acquainted with assessment strategies of Malayalam Education
- To understand and practice the concept Material Design for Curriculum Transaction in e-platform
- To comprehend the concepts and practices related to 'reflective practice.'

Contents:

- Modern Instructional Strategies in Malayalam Education .
- Integrated Approach in Teaching Malayalam.
- Strategies of Assessment in Malayalam Education.
- Material Design for Curriculum Transaction in e-platform.
- Teacher as a Reflective Practitioner.

Unit 1 Modern Instructional Strategies in Malayalam Education

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
To get familiarized with self- instructional strategies and integrated approach in teaching Malayalam	 Workshop, Seminar, Symposia, Debates Video content generation e-learning, M -learning, Virtual Learning e-tutoring, Online Courses Integrated Approach in Teaching Malayalam Significance Different types Interdisciplinary Approach 	Discussion on given reading materials. Preparation of modules Workshop for the familiarization of CAI, CMI	 Participation Completeness Involvement in the workshop Comprehensiveness CE - Test

Unit 2 Strategies of Assessment in Malayalam Education

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
To get acquainted with assessment strategies of Malayalam Education	 Different Types Continuous and comprehensive Evaluation-CCE Evaluation criterion for different learning activities Importance of Rubrics Evidence based performance assessment through 'Portfolios' Construction and administration of achievement test and diagnostic test Significance of grading system in schools 	Discussion on various assessment strategies. Practical sessions for creating rubrics Preparation of portfolios, Collection of evidences Practice sessions for test construction Debate on grading system prevailing in school education	 CE - Innovative Work Participation in discussion Manner of presentation Preparation of rubrics

Unit3 Material Design for Curriculum Transaction in e-platform

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
To understand and practice the concept - Material Design for Curriculum Transaction in e-platform	 Significance in language teaching E-content design and development Copy Writing 	Discussions on the significance of Material Design for Curriculum Transaction in eplatform practice sessions on E-content design and development Assignments	 Participation of students Performance of students in the practical sessions compliance

Unit 4 Teacher as a Reflective Practitioner

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
To comprehend the concepts and practices related to 'reflective practice.'	 Teacher as a professional – concept of CPD (Continuous Professional Development) Feedback Reflective practices Video Lesson Reflective Journal 	Discussions on the role of teacher as a reflective Practitioner Preparation of video lessons Demonstration on	 CE - Peer Evaluation of 10 classes Participation of students Performance in practical sessions Practicability of the journals

	the preparation of reflective journals	
	Preparation of reflective journal	

Reference

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CV VasudevaBhattathiri Nalla Malayalam DC Books, Kottayam NammudeBhasha EMS Namboothiripad Kerala Bhasha Institute Padyapadhathi sidhaantham Dr. Ravisankhar S. Nair Kerala Bhasha Institute

ParivarthanonmughaVidhyabhyabyasamGuru NithyachaithanyaYathi NarayanaGurukulam, Varkala PravanathakalumReethikalum. Bindhu,C.M Scorpio, Calicut

PrayogikaVyakaranam Irinjayam Ravi

PurogamanaVidyabhyaasachinthakal PV Purushothaman Kerala ShaasthrasaahityaParishad

Thettillatta Malayalam Prof. PanmanaRamachandran Nair DC Books, Kottayam

Toto Chan Tetsuko Koriyo Nagi National Book Trust, Kerala

ShaasthrasaahityaParishad

Tuition to IntuitionDr. KN AnandanTranscend, MalappuramUcharanamnannavanDr. VRPrabodhachandranKerala Bhasha InstituteVidhyabhyasathilViplavamOshoSilence, Kozhikkode

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VidyabhyasaParivarthanattinoruAmugham

Kerala ShaasthrasaahityaParishad

VyakaranaMitham SheshsgiriPrabhu

Online Resources

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- https://www.facebook.com/groups/144983732246185
- https://www.facebook.com/groups/paribhasha
- http://www.keralasahityaakademi.org/
- http://malayalambloghelp.blogspot.com/
- http://www.topsite.com/best/malayalam
- http://malayalam.kerala.gov.in/index.php
- http://malayalaaikyavedi.blogspot.in/2015/04/blog-post 61.html
- http://www.facebook.com/pages/മലയാളപഠനബോധന-സഹായി/628705850559130?ref=hl
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EDU 0.13: Emerging Trends and Practices in English Language Education

(Theoretical discourses – 60 & CE – 30 hours)

Objectives of the Paper:

- To familiarize with emerging trends in English language education
- Develop an awareness of strategies for assessment in English
- Explore possibilities of ICT- based material design for curriculum transaction.
- Identify ways of professionalizing Language Education in a
- Techno-pedagogic scenario.

Content

Unit I: Modern Instructional Strategies in English Education

Unit II: Strategies of Assessment in English Education

Unit III: Material Design for Curriculum Transaction in e-platform

Unit IV: Reflective Practices

Unit 1: Modern Instructional strategies in English education

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1. Student teacher familiarizes with	Collaborative Learning and Co-operative	Tasks involving	• Completion and submission of
evolving instructional strategies	Learning	cooperation and	tasks
2. Familiarizes with teacher role,	• Connectivism-learning through Aggregation,	collaboration	Sharing/recreating resources
Learner role, Instructional	Remixing, Repurposing and Feeding forward	Va avelada a analessia	Improvement in performance
material and assessment practices	Metacognitive strategies in language learning	Knowledge analysis	Compilation of knowledge
in e-learning	Webminars	Re-creation	garnered from Internet
	Video conferencing		• Trainee created digital aids for
	• e-learning, Blended Learning, Virtual	Textual reading and	online teaching

Learning • e-tutoring, Massive Open Online Courses (MOOC) • Learning on the Cloud platform • Lesson Planning for modern instructional strategies	Online access and participation	Participation in online learning Submission of Lesson Plans that fulfils essential criteria
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Unit II: Strategies of Assessment in English Education

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1. Student teachers are introduced to	Self-Reflection and Peer-Evaluation	Construction of test	Course Book content-based test
assessment techniques and	Continuous and Comprehensive Evaluation	types	construction
practices	(CCE)	Duamanation of	
	Common Core Standards-European	Preparation of	

Framework	Question Paper	
Different types of tests-Purpose and mechanism	Group and Pair work	
Criteria of a good test in English		
Question forms- LOT & HOT questions		
Test types for LSRW		
Construction and administration of:-		
Achievement & Diagnostic Tests		
Remedial Teaching		
Formative and Summative Assessment		
ICT integrated Assessment practices;		
Assessment Rubrics in language testing;e-		
Portfolio		

Unit III: Material Design for Curriculum Transaction in e-platform

	Learning Outcome		Major concepts	Strategies & Approaches			Asse	ssment	
1.	Student teachers familiarizes with	•	e-content design and development	Intro lecture-cum	•	Rubrics	to	check	e-learning
	design and development of e-	•	e-content authoring	demonstration on		materials	proc	luced	
	content materials	•	e-Padasala and Brihaspathi	Creation of e-content					
		•	NMEICT	Creation of e-content					
		•	Short Learning Objects (SLOs) and Reusable						
			Learning Objects (RLOs)						

Unit IV: Reflective practices

	Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1.	Student teacher familiarizes with	-Teacher Performance Standards	Intro lecture on	Pre and Post test during Practice
	ways of improving performance	• -Rubrics for self assessment	standards of	Teaching aimed at improving
	through reflection	-Self reflection	achievement and	performance based on standards
2.	Develop ability to apply TQM strategies	Total Quality Management for Language	performance	
	strategies	Teachers	Self assessment	
			Reflects on own	
			ability and skills	
			Preparation of plan of	
			action for improving	
			own performance	

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- Continuous and Comprehensive Evaluation: Manual for teachers-Classes IX and X.(2010) CBSE, Delhi.
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- Richards, Jack C. & David Bohlke. (2011)Creating Effective Language Lessons. Cambridge University Press. New York.
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- http://jolt.merlot.org/vol9no2/milligan 0613.pdf
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 Connecting Practice and Research: Metacognition Guide: http://www.edugains.ca/resourcesLIT/CoreResources/MetaGuide-June4%202009.pdf
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- Planning Guide for Online and Blended Learning: Creating Models for Student Success. Michigan Virtual University
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- Successful Video Conferencing Guide: http://www.desales.edu/docs/default-source/deit_documents/guide_to_videoconferenceing.pdf?sfvrsn=8
- Virtual Learning Program Rubric. Northeast Comprehensive Center.: http://www.doe.mass.edu/odl/standards/VLPrubric.pdf
- Useful sites for teachers:
- 55 Cloud Based eLearning Authoring Tools: http://elearningindustry.com/the-ultimate-list-of-cloud-based-authoring-tools
- The MOOC Guide: https://sites.google.com/site/themoocguide/

EDU – 13.3: EMERGING TRENDS AND PRACTICES IN HINDI EDUCATION

HOURS OF INTERACTIONS: 60(Theoretical discourses) + 30 (Activities/Processes) = 90 Hrs

Objectives

- To make the prospective teachers competent in understanding and applying various instructional strategies
- To get acquaint with the principles and practices of developing suitable testing mechanisms and feedback mechanisms
- To understand the diverse aspects of digital texts and e-content for transacting Hindi
- To become capable of designing and implementing online assessment tools and techniques
- To prepare the prospective teachers as reflective practitioner
- To generate a professional aspiration among prospective teachers by preparing for competitive / placement exams

CONTENTS:

Unit 1: Modern Instructional Strategies in Hindi Education

Unit 2: Strategies of Assessment in Hindi Education

Unit 3: Material Design for curriculum Transaction in E-platform

Unit 4: Teacher as a reflective practitioner

Unit 1 Modern Instructional Strategies in Hindi Education(16Hrs + 8 Hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1. Evolve modern instructional	• Evolving instructional strategies for	Collaborative	Assessment of learning process
strategies	collaborative& co-operative learning in small	learning	and reflections
2. Evolve and utilize appropriate	and medium groups, peer tutoring, innovative	Co-operative learning	Assessment of students' progress
instructional strategies to satisfy the needs of different categories	techniques, experiential learning, blended learning, self study, teaching thinking skills,	Constructivist	• Assessment of learning materials prepared for differently abled
3. Equip Student teachers to address the special needs of differently	• Meta cognitive strategies, Webminars, Learning on the cloud platform	approach of knowledge	students

abled children in Hindi language classroom	 Evolving instructional strategies for High,Average and Low achievers in the heterogeneous classroom Instructional strategies and teaching learning materials to address the special needs of differently abled children(CSWN-Children with special needs) in the language classroom 	generation Comparative & critical study on various methods and strategies Online learning Narrative expression Web search Adopting different strategies according to the level of students Developing different strategies for differently abled students
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Unit 2 Strategies of Assessment in Hindi Education (18 Hrs + 7 Hrs)

	Learning Outcome		Major concepts	Strategies & Approaches		Assessment
1.	Get acquaint with different types of	•	Quantitative V/S Qualitative Assessment	Brain storming	•	Quiz session
	evaluation and assessment	•	Formative and Summative Evaluation,	Maaninaful varhal	•	Portfolio Assessment
	techniques		Scheme of Grading, Continuous and	Meaningful verbal	•	Rubrics

2.	Become capable of designing and	Ī
	implementing various performance	I
	tests	I
3.	Familiarize with online assessment	I
	tools and techniques	I
4.	Get acquaint with the practices of	
	feedback mechanisms	
5.	Develop a professional aspiration	I
	for competitive / placement exams	١

- Comprehensive Evaluation, different types of tests---Norm referenced test, Criterion referenced test
- Diagnostic test, Achievement test: Design of the test/Blue Print
- Performance test: assessment based on process indicators like listening comprehension, pronunciation, vocabulary test, reading test, handwriting assessment, creative writing, communication skill assessment
- Online assessments, projects and their outputs
- Techniques to reduce language errors: Language editing and summarization
- Translation: Hindi to English, English to Hindi, Hindi to Malayalam, Malayalam to Hindi
- Portfolio Assessment, Rubrics
- Self reflection, Peer evaluation
- Assessing student performance as feedback for Students progress --- Teacher's proficiency --- Parents
- Opportunity for self reflection---Self Evaluation, Peer Evaluation and Teacher Evaluation of classroom practices,
- preparation and application of context based data sheets
- Competitive exams- Basic ideas of NET,

expression

Activities for the development of language skills, communication skills

Drill and Practise

Projects

Online learning

Construction of test types

Preparation of Question Paper

- Self reflection
- Peer evaluation
- Preparation of achievement and diagnostic test
- Preparation of different types of tests
- Diagnostic Test & Achievement test

SET, K-TET, Proficiency courses offered by	
Kerala Hindi Prachara Sabha and Dakshin	
Bharath Hindi Prachara Sabha ,Translation	
courses in Hindi	

Unit 3 Material Design for Curriculum Transaction in E- Platform (12 Hrs + 8 Hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1. Generate curriculum transaction modes in teaching Hindi 2. Familiarizes with ways of designing digital texts and econtent 3. Develop skills in using websites, digital basic tools and softwares for modern instructional practices in Hindi	 Curriculum transaction: meaning and modes Face to face mode and ICT enabled mode Experience with curriculum designs-designing of student-teacher generated digital texts, and e-content Adapting free downloadable digital resources in Hindi Use of basic tools and softwares in Hindi - Google transliteration (for Hindi typing), using Hindi online dictionaries – www.shabdkosh.com, collection of Hindi sites - http://dir.hinkhoj.com , searching 	Approaches Discussion Demonstration Self study Supervised study Self evaluation Observation Use of web-resources Creating Digital	 Analysis of performance Evaluation of various curriculum designs Assessment of e-content script in Hindi
	Wikis for collecting materials for classroom instruction	learning platforms	

Unit 4 Teacher as a reflective practitioner (14 Hrs+ 6 Hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 Capacitate the concept of teacher as a reflective practitioner Become competent in practicing reflective strategies in instructional process 	 Teacher as a reflective practitioner – conceptmodes and means of reflective practices in Hindi- designing and developing tools for reflection in Hindi Reflective strategies – concept map, brain storming, portfolio writing, problem solving, blogs, online forums, Rubrics for self assessment, Self reflection , Total Quality Management for Language Teachers 	Brain storming Self Assessment Online learning Group investigation Problem solving	 Pre and post tests of practice teaching Online assessment Concept maps Portfolio writing Rubrics for self assessment

EDU – 13.4: EMERGING TRENDS AND PRACTICES IN SANSKRIT EDUCATION.

[Theoretical discourses -60 hours+ CE - 30hours]

Objectives:

- To familiarize and apply vocationally with Modern Instructional strategies in Sanskrit education
- To apply suitable strategies of assessment in Sanskrit Learning
- To design the material for curriculum transaction in E-platform
- To develop CPD

CONTENTS:

- UNIT I: MODERN INSTRUCTIONAL STRATEGIES IN SANSKRIT EDUCATION.
- UNIT II STRATEGIES OF ASSESMENT IN SANSKRIT EDUCATION.
- UNIT III MATERIAL DESIGN FOR CURRICULAM TRANSACTION IN E-PLATFORM.
- UNIT IV CPD AND REFLECTIVE PRACTICES

UNIT I: MODERN INSTRUCTIONAL STRATEGIES IN SANSKRIT EDUCATION.[15HOURS+7HOURS]

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
To familiarize and apply vocationally with Modern Instructional strategies in Sanskrit education.	 -Collaborative learning and co-operative learning. Connectivism-Learning through Aggregation, Remixing, Repurposing, and feeding forward. Metacognitive strategies in language learning. Web seminars. Video conferencing. E-learning, Blended learning, Virtual learning. E-tutoring, Massive Open online courses[MOOC] Learning on the Cloud Platform. Lesson 	Demonstration. Lecture method. Group discussions. Debate. Demonstration.	 Observation. Observation. Role performance. Participant observation. Observation. Performance.
	planning for the modern instructional strategies.		

UNIT II STRATEGIES OF ASSESMENT IN SANSKRIT EDUCATION[14HOURS+9HOURS]

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
To apply suitable strategies of assessment in Sanskrit Learning.	 Self-Reflection and Peer-Evaluation. Continuous and comprehensive Evaluation. CCE. Different types of tests- Purpose and mechanism. Criteria of a good test in Sanskrit. Question forms: - LOT and HOT question s. Test types of LSRW. Construction and Administration of : Achievement and Diagnostic Tests. Remedial teaching. Formative and summative assessment.ICT Integrated Assessment Practices: Assessment Rubrics in language testing. E-Portfolio. 	Demonstration. Lecture method. Discussions. Narrative expressions. Meaningful verbal expressions. Achievement test. Diagnostic test. Lecture method. Peer evaluation of classes.[five] Discussions. School internship-phase-1-10weeks.	 Observation. Individual Performance. Observation and analysis. Discuss and construct and finally evaluate. Listening. Observation. Participant observation. Individual assessment.

UNIT III MATERIAL DESIGN FOR CURRICULUM TRANSACTION IN E-PLATFORM.[18HOURS+8HOURS]

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1. To design the material for	• E-content design and development. E-content	Meaningful verbal	Participant observation.
curriculum transaction in E-	authoring. E-Padasala and Brihaspathi.	expressions.	Observation.
platform.	NMEICT. Short learning Objects [SLOs] and Reusable Learning Objects[RLOs]	Peer instruction.	

UNIT IV: CPD AND REFLECTIVE PRACTICES[13HOURS+6HOURS]

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1. To develop CPD.	• Continuing Professional development[CPD].	Lecture cum	Observation.
	Teacher performance standards. Rubrics for	Discussion.	Participant observation.
	self assessment. Self reflection. Total quality	Demonstration	Individual assessment.
	management for Language Teachers.	Demonstration.	• Test -5 marks.
		Discussions.	
		Presentation.	

EDU 13.5 EMERGING TRENDS AND PRACTICES IN ARABIC EDUCATION

(Theoretical Discourses. 60 hours. CE 30 hours)

Objectives

On completion of the course the student teacher will be able to:

- Familiarize with the practices in modern instructional strategies
- Acquaint with the modern Assessment and evaluation strategies
- Acquire the ability to develop various assessment tools and apply it
- Explore the practices of curriculum transaction by applying e platforms
- Familiarizes with the modern trends and developments in Arabic language Education
- Equip and develop interest in teaching profession

Contents

UNIT I. MODERN INSTRUCTIONAL STRATEGIES IN ARBIC LANGUAG EDUCATION

UNITII: STRATEGIES OF ASSESSMENT IN ARABIC LANGUAGE EDUCATION

UNIT III: MATERIAL DESIGN FOR CURRICULUM TRANSACTION IN E-PLATFORM

UNIT IV: TEACHER AS A REFLECTIVE PRACTITIONER

UNIT I. MODERN INSTRUCTIONAL STRATEGIES IN ARBIC LANGUAG EDUCATION

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1. Familiarizes with the practices in	Modern Strategies in language teaching &	Introductory Lecture	• CE
Modern instructional strategies	learning: Collaborative Learning & Co-operative	Discussion	AssignmentSeminar report
	Learning Workshop, Seminar, Symposia, Debate,	Group Discussion	Class testTE
	Video conferencing,e-learning, Blended Learning, Virtual	Observation	

Learning,	Narration	
• e-tutoring, Discourse based teaching and		
learning.		
• Addressing Individual differences in teaching		
and learning:		
• Multiple level learning, Learning disabilities		
• Inclusive education : concept, need &		
importance		
• CWSN(Children With Special Needs),		
Strategies of Teaching CWSN		

UNITII: STRATEGIES OF ASSESSMENT IN ARABIC LANGUAGE EDUCATION

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1. Acquaints with modern	• Assessment / evaluation in teaching and	Introductory Lecture	• CE
Assessment and evaluation	learning:	Discussion	Class Test
strategies	• Assessment of learner achievements	Discussion	Assignments
2. Acquire the ability to develop	• Objectives of assessment, Tools& Types;	Group Discussion	Reports
various assessment tools and apply	formative and summative evaluation		• TE
it	• Continuous Evaluation, comprehensives	Observation	
	evaluation, Continuous and comprehensive evaluation	Narration	
	• Construction and administration of		
	achievement tests		
	Diagnostic tests and Remedial teaching		
	Marking and grading, Grading indicators		

Assessment using ICT	
• Development of online tests	
• Preparation and use online tests and its	
application	
• Student evaluation: Self evaluation, Peer	
evaluation	
• Preparation of scoring indicators for CE and	
CCE	
• Assessment Rubrics	

UNIT III: MATERIAL DESIGN FOR CURRICULUM TRANSACTION IN E-PLATFORM

	Learning Outcome		Major concepts	Strategies & Approaches	Assessment
1.	Explores the practices of	•	ICT enabled Language Teaching:	Introductory Lecture	• CE
	curriculum transaction by applying	•	E-content design and development	Discussion	• Reports
	e -platforms	•	E-content authoring	Discussion	 Workshop products
		•	Online language teaching and learning	Group Discussion	• Assignment:
		•	Online Language learning materials: language games, Online vocabulary games	Observation	Soft copyTE
		•	Online grammar games	Narration	
		•	Audio-podeasting		

UNIT IV: TEACHER AS A REFLECTIVE PRACTITIONER

Learning Outcome		Major concepts	Strategies & Approaches	Assessment
1. Equips the teacher and develop	•	Teacher; Teaching Profession:	Introductory Lecture	• CE
interest in teaching profession	•	Professional Traits and competencies,	Discussion	Assignment
	•	Professional Ethics.	Discussion	• Reports
	•	Arabic Language Teacher: His varying roles,	Group Discussion	• TE
		Qualities & qualifications	01	
	•	Humanistic teacher attributes:	Observation	
	•	Temperance, Empathy, Academic	Narration	
		Aristocracy, Commitment, Humor, Ethics,		
		Reflection		
	•	Knowledge worker, Facilitator, Mentor,		
		Social Engineer, & guide		
	•	Reflective Practitioner,		
	•	Teacher Development, Professional		
		Development,		
	•	Continuing professional Development		
	•	Teacher Accountability		
	•	Rubrics for self assessment		

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- Thuruqu thadrees al lugha al Arabiyya lil madaris al muthawassitha wa thanaiyya : Hasan Mulla Uthman ; Dar alam al Kuthub lithbaa wa nnashshr wa thouzeea, Riyadh, KSA
- Thaqnolojiya al Thaaleem; Al wasail al thaaleemiyya wa thaqniyyath al thaaluum: Dr. Muhammed Assam Tharbay , Dar Hammurabi lilnashri wa thouzeea

- Asaleeb Wa Thuruqu al-Thadrees al Hadeesa: Dr. Muhammed Assam Tharbaya; Dar Hammurabi lilnashri wa thouzeea
- Providing teachers effective strategies for using technology techtrends: Brown B& Henscheid
- Istheeratheejiyyath wa Maharah al Tharees :Kamal al Jundi; Dar al Jumhooriya lilthibaa
- Wasaail al Ithisal wa thaknologiya fithaaleem :Dr Abd al hafiz muhammed salama ,Dar al Fikar
- Al thadrees wa Iadad al Muallim: Dr.S Abdulrahman qindeel Dar al Nashr al Duwali
- Murshid al Muallim: Richard D. C; Aalam al Kutub al Qahira
- Al Thadrees Ahdafuhu wa usasuhu wa Asaleebuhu Thaqweemu Nathaijuhu wa Thathbeeqathuhu: Dr Fikri Hasan Rayan, Aalm al kutub, al qahira
- Madkhal Ila Tharbiya al muthamayyizeena wal Mauhoobeen, Dar al fikar lial thibaa wa Nashr
- Thaqniyyath al thaaleem(Mafhoomuha wa douruha fi thahseeni amaliyyath al thaaleem wa thaallum: Badar Salih
- Al tharbiya wa thuruqu thadrees: Salih abdul Azeez& Abdul Azeez Abdul Majeed; Dar al Maarif, Al Qahira
- Kaifa Thulqi Darsak: Yabhasu fi usooli al tharbiyath wa thadrees, Dar al Ilm lil Malayeen, Bairut.
- Al Muwajjah al Amali li Mudarrisee al Lugha Al Arabiyya: Abid Thoufeeq al Hashmi; Al Risala publishing House, Bairut
- Journal of Teacher Education, NCTE
- Open and Distance Learning-Global Challenge: Taloesera Hemalatha, New Delhi
- Computer Based Instruction; Methods & Development & Stanly R; Prentice Hall
- Introduction to Educational Technology: Kulkarni S

EDU – 13.6: Emerging Trends and Practices in Tamil Education.

(Theoretical Discourses – 60 & CE – 30 hours)

Objectives:

- To familiarize with emerging trends in Tamil language education
- Develop an awareness of strategies for assessment in Tamil
- Explore possibilities of ICT- based material design for curriculum transaction.
- Identify ways of professionalizing Language Education in a Techno-pedagogic scenario.

Contents:

Unit I: Modern Instructional Strategies in Tamil Education

Unit II: Strategies of Assessment in Tamil Education

Unit III: Material Design for Curriculum Transaction in e-platform

Unit IV: Reflective Practices

Unit 1: Modern Instructional strategies in Tamil education (25 hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
Student teacher familiarizes with evolving instructional strategies	Collaborative Learning and Co-operative Learning	Tasks involving cooperation and	• Completion and submission of tasks
Familiarizes with teacher role, Learner role, Instructional material and assessment practices in e- learning	 Connectivism -learning through Aggregation, Remixing, Repurposing and Feeding forward Metacognitive strategies in language learning Webinars Video conferencing 	collaboration Knowledge analysis Re-creation Textual reading and reflection	 Sharing/recreating resources Improvement in performance Compilation of knowledge garnered from Internet Trainee created digital aids for online teaching Participation in online learning

• e-learning, Blended Learning, Virtual	Online access and	Submission of Lesson Plans that
Learning Biolided Bearining, Virtual	participation	fulfils essential criteria
e-tutoring, Massive Open Online Courses		
(MOOC)	Explores online	
Lesson Planning for modern instructional	sources	
strategies		
	Identification/prepara	
	tion and use of digital	
	resources for online	
	learning	
	Task completion	
	Reflection and	
	collaboration with	
	peers	
	Specimen Lesson	
	Plan writing	

Unit II: Strategies of Assessment in Tamil Education (20 hours)

	Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1	. Student teachers are introduced to	Self-Reflection and Peer-Evaluation	Construction of test	Course Book content-based test
	assessment techniques and	Continuous and Comprehensive Evaluation	types	construction
	practices	(CCE)		
		• Different types of tests-Purpose and	-Preparation of	
		mechanism	Question Paper	

-Criteria of a good test in Tamil	-Group and Pair work	
 -Question forms- LOT & HOT questions 		
 Test types for LSRW 		
• -Construction and administration of:-		
Achievement & Diagnostic Tests		
 Remedial Teaching 		
 -Formative and Summative Assessment 		
• ICT integrated Assessment practices;		

Unit III - Material Design for Curriculum Transaction in E- Platform (25 hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 Generate curriculum transaction modes in teaching Tamil. Familiarizes with ways of designing digital texts and econtent Develop skills in using websites, digital basic tools and softwares for modern instructional practices in Tamil. Student teachers familiarizes with design and development of econtent materials 	 Curriculum transaction: meaning and modes Face to face mode and ICT enabled mode Experience with curriculum designs-designing of student-teacher generated digital texts, and e-content Adapting free downloadable digital resources in Tamil Use of basic tools and softwares in Tamil - Google transliteration, using Tamil online dictionaries –searching Wikis for collecting materials for classroom instruction e-content design and development e-content authoring e-Padasala and Brihaspathi NMEICT 	Discussion Demonstration Self study Supervised study Self evaluation Observation Use of web-resources Creating Digital learning platforms	 Analysis of performance Evaluation of various curriculum designs Assessment of e-content script in Hindi

Unit IV: Reflective practices (20 hours)

Learning Outco	me	Major concepts	Strategies & Approaches	Assessment
 Student teacher familia ways of improving per through reflection Develop ability to appostrategies 	formance y TQM	Teacher Performance Standards Rubrics for self assessment Self reflection Total Quality Management for Language Teachers	Intro lecture on standards of achievement and performance Self assessment Reflects on own ability and skills Preparation of plan of action for improving own performance	Pre and Post test during Practice Teaching aimed at improving performance based on standards

EDU – 13.7: EMERGING TRENDS AND PRACTICES IN MATHEMATICS EDUCATION

(Theoretical Discourses – 60 hours & CE – 30 hours)

Objectives:

- To strengthen the experience of adopting modern strategies and to undertake contextual challenges as a Mathematics Education professional
- To get a field based understanding of theories and principles of pupil assessment and evaluation
- To identify the Entrepreneurial opportunities of futuristic significance associated with the Mathematics Education.
- To enrich the vision and capabilities of prospective mathematics teachers as reflective practitioners during and after the pre-service education.

Contents:

- **Unit 1: Modern Instructional Strategies in Mathematics Education**
- **Unit 2: Strategies of Assessment in Mathematics Education**
- Unit 3: Material Design for Curriculum Transaction in e-platform
- Unit 4: Teacher as a Reflective Practitioner

Unit I: MODERN INSTRUCTIONAL STRATEGIES IN MATHEMATICS EDUCATION (15 hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1. To familiarize modern instructional	Modern Strategies for teaching Mathematics	Meaningful verbal	Questioning
approaches for classroom learning	Small group and large group activity method	expression	On-task behaviour in class
 To acquaint with the concept of online learning and blended learning To identify special education needs of slow learners, gifted and creative learners 	 cooperative learning and simulation Online learning, blended learning Brain based learning strategy Education for students with special education needs slow learners, deprived learners, gifted and creative learners 	Group discussion Brain storming Peer tutoring Seminar	Participant observation

Unit II: STRATEGIES OF ASSESSMENT IN MATHEMATICS EDUCATION (25 hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1. To make the learners aware of the importance of providing feedback 2. To acquaint with the competitive tests in Mathematics at various levels 3. To understand the construction of achievement and diagnostic test 4. To familiarize with continuous and comprehensive evaluation and grading system 5. To develop rubrics for CCE assessment, self reflection and peer evaluation 6. To understand the concept of self reflection and peer evaluation 7. To acquaint with online assessment and experience different practices	 Modern Assessment Strategies Concept of Self Reflection and peer evaluation Concept of CCE Concept of Educational Evaluation Different types of Evaluation Concepts of Placement, formative Vs summative, product vs process, internal Vs external, diagnosis, Objective based evaluation, Concept of Educational Diagnosis—Diagnostic test — Concept, steps of construction and Remedial teaching Type of test items — Objective type, short answer type and Essay type Concept of Achievement Test —, purpose, steps of construction Distinction between Achievement and Diagnostic Test - characteristics of a good evaluation tool 	S	Assessment Document analysis Student reports Questioning Class test Assessment of rubrics Participant observation Concept paper preparation
	 Rubrics for assessment of assignments, projects, debates, seminars, discussion Online assessment-meaning Practicing of online tools. 		

Unit III: MATERIAL DESIGN FOR CURRICULAUM TRANSACTION IN e-PLATFORM (14 hours)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To understand the concept of curriculum transaction material design To familiarize with various curriculum transaction materials using techno pedagogy To design and develop techno pedagogic curriculum transaction materials for learning Mathematics to understand and develop econtent for teaching various topics of Mathematics to explore the ways to develop an educational entrepreneurship 	 Techno Pedagogic curriculum transaction materials Digital texts-brief explanation-designing of student teacher generated digital text books by adapting free downloadable digital resources in mathematics based on the principles of curriculum construction E-content development-steps Development of e-content material on any topic in Mathematics Educational entrepreneurship-career possibilities for trained graduate and post graduate students 	Demonstrations Illustrations Video clippings Web based illustrations Power point Presentations Assigned readings of e-text	 Tests Questioning Participant observation Student reports Document analysis

Unit IV: TEACHER AS A REFLECTIVE PRACTITIONER (6 hours)

	Learning Outcome		Major concepts	Strategies & Approaches		Assessment
1.	To understand the meaning of	•	Reflective Practice	Narrative expression	•	Online Evaluation of postings
	reflective practices	•	Concept of reflective practices	in small or medium		in blogs
2.	To prepare tools for evaluation of	•	Teacher as a reflective Practitioner	groups	•	Reflective Journal Analysis
	reflective practices	•	Designing and development of tools for	Document analysis	•	Participant observation
			reflection by student teacher	Document analysis	•	Test

ſ	3. To make the students familiar with	• Posting of reflections during practice	Debate
	postings in blogs	teaching in Blogs.	Think Aloud

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- Ediger, M. & Rao, D. B. (2000). *Teaching Mathematics Successfully*. New Delhi: Discovery Publishing House.
- James, A.(2005). Teaching of Mathematics. New Delhi: Neelkamal Publications, Pvt. Ltd.
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- Siddiqui, M. H. (2007). *Teaching of Mathematics*. New Delhi: APH Publishing Corporation.
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EDU – 13.8: EMERGING TRENDS AND PRACTICES IN PHYSICAL SCIENCE EDUCATION

(Theory - 60 hrs, CE - 30 hrs)

Objectives:

- To strengthen the experience of adopting modern strategies and to undertake contextual challenges as a Science Education professional
- To get a field based understanding of theories and principles of pupil assessment and evaluation
- To identify the Entrepreneurial opportunities of futuristic significance associated with the Physical Science education.
- To enrich the vision and capabilities of prospective science teachers as reflective practitioners during and after the pre-service education.

Contents:

Unit 1: Modern Instructional Strategies in Physical Science Education

Unit 2: Strategies of Assessment in Physical Science Education

Unit 3: Material Design for Curriculum Transaction in e-platform

Unit 4: Teacher as a Reflective Practitioner

Unit 1: Modern Instructional Strategies in Physical Science (20 + 6= 26 hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To familiarize modern instructional approaches for classroom learning To acquaint with the concept of online learning and blended learning To identify special education needs of slow learners, fast learners, scientifically gifted and creative learners 	 Online learning, blended learning-Meaning and purpose Brain based learning strategy Experiential learning approach Modern instructional approaches for learning- Jigsaw technique, circle learning, concept mapping, think-pair and share Science education for students with special education needs- slow learners, fast learners, scientifically gifted and creative learners 	Meaningful verbal expression Group discussion Brain storming Peer tutoring Seminar	 Questioning On-task behaviour in class Participant observation

Unit 2: Strategies of Assessment in Physical Science Education (30 +6 =36hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To understand the construction of achievement and diagnostic test To familiarize with continuous and comprehensive evaluation and grading system To develop rubrics for CCE assessment, self reflection and peer evaluation To understand the concept of self reflection and peer evaluation To acquaint with online assessment and experience different practices 	 Continuous and Comprehensive Evaluation, Grading system Achievement test-construction Diagnostic test-construction, remedial instruction Assessment of thinking skills- critical and creative thinking- assessment of process skills in Physical Science Concept of self reflection and peer evaluation-development and practice of rubrics Rubrics for assessment of assignments, projects, debates, seminars, discussion Online assessment-meaning Practicing of online tools. Downloading of online tools-online quiz maker Competitive/ placement examinations-GATE, GRE, Science Talent Search, Olympiad, Intel Science Programme, Google Science fair, KTET 	Approaches Meaningful verbal expression Group discussion Preparation of rubrics Buzzer sessions Seminar	Questioning Class test Read Aloud Assessment of rubrics Participant observation Concept paper preparation

Unit 3: Material Design for Curriculum Transaction in e-platform (15 + 4 = 19hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To understand the concept curriculum transaction mate design To familiarize with various curriculum transaction mate using techno pedagogy To design and develop tech pedagogic curriculum trans 	 materials- Digital texts-brief explanated designing of digital texts E content development- steps Development of e-content material on topic in Physical Science Entrepreneurship possibilities for training 	Exposition Explicit teaching Collaborative designing sessions	Rubric based assessment of individual performance Think Aloud Sessions
materials for learning physiscience 4. To understand and develop content for teaching variou of physical science 5. To explore the ways to develucational entrepreneur in science education	opics		

Unit 4: Teacher as a Reflective Practitioner (15 + 4 = 19 hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1. To familiarize with reflective	Reflective practitioner-Meaning, modes and	Narrative expression	Reflective Journal Analysis
practices	means of reflective practices- Models of	in small or medium	Participant observation
2. To be a reflective practitioner	reflective practices – Schon and Kolb	groups	• Localised designing and
		Document analysis	development of tools of

Debate	reflection by the student teacher,
Think Alou	nd postings of reflection in blogs
	and forums

Reference:

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- Funda Ornek, Issa M. Saleh (Eds.) (2012): Contemporary Science Teaching Approaches: Promoting Conceptual Understanding in Science: USA, Information Age Publishing Group.
- Germaine L. Taggart (1998): Rubrics: A Handbook for Construction and Use: Virginia, Rowman & Littlefield Education.
- Habeshaw S., Gibbs G. & Habeshaw, T. (1993): 53 Interesting Ways to Assess your Students: Trowbridge Frederick M. Hess (2006): Educational Entrepreneurship: realities, challenges, possibilities: Harvard, Harvard Education Press.
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- Tony Ghaye (2011): Teaching and Learning Through Reflective Practice (Second Edition): New York, Rutledge. Brown G. (2001): Assessment: A Guide for Lecturers. Assessment Series:, York, LTSN.

EDU - 13.9: EMERGING TRENDS & PRACTICES IN NATURAL SCIENCE EDUCATION

(Theoretical Discourses -50 Marks/60 hours & `CE-25 Marks/30 hours)

OBJECTIVES:

Enable the student teacher to:

- Prepare different types of assessment and evaluation tools in classroom teaching
- Familiarize latest teaching-learning techniques like jig-saw learning, m-learning, circle learning, etc.
- Equip in using online resources in teaching learning process.
- Observe the various aspects associated with teaching-learning process
- Identify the learning facilities especially in the smart class room, in the school & its implementation
- Observe online resources in teaching learning process individually or in small groups
- Meet the student's digital need and their interest in learning through multi-media
- Swot analysis through self reflection, peer evaluation & supervising teacher about their performance.
- Reflect the different views about the curriculum transaction
- Understand about advantages & disadvantages of reflective learning.

CONTENTS

Unit 1: Modern instructional strategies in Natural Science Education

Unit 2: Strategies of assessment in Natural Science Education

Unit 3: Material design for curriculum transaction in e- platform

Unit 4: Teacher as a reflective practitioner

UNIT I - Modern instructional strategies in Natural Science Education. (Theory Hours-14)

	Learning Outcome		Major concepts	Strategies & Approaches		Assessment
1.	To understand various Modern	•	An introduction to Modern instructional	Meaningful verbal	•	Participation in group
	instructional approaches /		approaches / technique	Expression.	•	Discussion.
	technique for Cooperative and	•	Cooperative and Collaborative learning.	Group discussion.	•	Questioning.
	Collaborative learning.	•	Issue based learning	Narrative expression.	•	On-task behavior in class.

2. To understand about the	Problem based learning.	Discussion	• Tests.
3. Cooperative, Collaborative	Critical pedagogy	sessions in small or	Science dairy.
4. Strategies, Issue based learning,	• Conceptual analysis of Modern instructional	Medium groups.	Daily reflective journal
Problem based learning and	approaches / technique for Cooperative and	Brain storming.	Participant observation
Critical pedagogy.	Collaborative learning.	Seminar.	
5. To develop skill in selecting	Jigsaw Technique	Reflective practices	
appropriate instructional	Circle Learning		
strategies to transact the content.	• Think-Pair Share.		
	Blended Learning/ Hybrid learning.		
	Brain Based Learning.		

UNIT II ASSESMENT IN NATURAL SCIENCE EDUCATION (Theory hours-18)

	Learning Outcome	Major concepts	Strategies & Approaches	Assessment
	understand the different types	• 2.1 Objective based evaluation.	Meaningful verbal	• Performance assessment in
of	Evaluation and Assessment	• 2.2 Preparation and practice of Assessment	expression	group discussion
too		&Evaluation tools	Group discussion	Assessment of Optional Note
2. To	develop skill in the preparation	• 2.2.1Preparation of Question Bank with	Narrative expression	Book entries
	different types of schedules and	different types of test items (HOT, LOT	sessions in small or	Questioning
ma	atrix for assessing performance.	Questions),	medium groups	• Tests
3. To	prepare different types of test	• 2.2.2 Preparation & implementation of	Reflective practices.	Peer evaluation
iter		Achievement Test.	Multimedia and	Portfolio assessment.
	administer oral and open book	• 2.2.3Preparation & implementation of	interdisciplinary	Different types of Schedules and
	amination.	Diagnostic tests & Remedial Teaching.	approach.	matrix developed by student
	develop a skill in constructing	• 2.3 Modern Trends in Evaluation.	Peer tutoring	teachers for assessing
	d administering Achievement	• 2.3.1Continuous comprehensive evaluation.	Assignments	performance.
test	t & Diagnostic tests.	• 2.3.2 Rubrics for assessing of Assignments,	Rubrics designing.	Construction and administration

6. To familiarize & understand about	Projects, Debates, Seminars and Discussions. Ques	estion Bank. of Achievement test &
Modern Trends in Evaluation like	• 2.4 Reflection and feedback- Assessment of	Diagnostic tests.
Continuous comprehensive	student's performance.	Rubrics designing.
evaluation& Rubrics designing.		Question Bank.

UNIT III MATERIAL DESIGN FOR CURRICULUM TRANSACTION (Theory Hours-18)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To develop a digital skills in compiling of online resources like ppt, video, broadcast for transacting High School Biology. To equipping them in using online resources in teaching learning process. To keep abreast with online resources in teaching learning process. To develop a skill in script writing. To understand about steps for E content generation. 	 3.1 Compiling of online resources like ppt, video, broadcast for transacting High School Biology. 3.2.1An introduction to E content generation &Steps for E content generation. 3.2.2 E content generation for the select topics of high school Biology. 	Meaningful verbal expression Group discussion Narrative expression sessions in small or medium groups Reflective practices. Multimedia and interdisciplinary approach. Team teaching. Peer tutoring	 Performance assessment in group discussion Assessment of Optional Note Book entries Questioning Tests Peer evaluation Evaluating the script.

UNIT IV TEACHER AS A REFLECTIVE PRACTITIONER (Theory Hours-10)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To understand about definition & meaning of reflective practices in learning. To understand about modes and means of reflective learning. To suggest measures for modifying behaviours of student teachers To get a feedback through the analytical review of peer teaching. To understand about advantages & disadvantages of reflective learning. 	 4.1 Reflective practices – Definition & Meaning of reflective practices in learning. 4.2 Modes and means of reflective learning Reflective learning journals Peer &self-assessment/debriefing Critical incident diaries Field work diaries Personal development planners Portfolio development Collaborative inquiry Problem based learning 4.3 Advantages & disadvantages of reflective learning 	Meaningful verbal expression Group discussion Narrative expression sessions in small or medium groups Reflective practices. Debate. PBL. Multimedia and interdisciplinary approach. Peer tutoring	 Performance assessment in group discussion Assessment of Optional Note Book entries Questioning Tests Peer evaluation Portfolio assessment.

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- Sidhu. K.S, (2005). New Approaches to Measurement and Evaluation, Sterling Publishing, Delhi.
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EDU - 13.10: EMERGING TRENDS AND PRACTICES IN SOCIAL SCIENCE EDUCATION

(theoretical discourses-60 hours & CE – 30 hours)

Objectives:

- To identify and practice modern instructional strategies in Social Science.
- To get acquaint with the principles and practices of feedback mechanisms.
- To become capable of designing and implementing various performance tests.
- To inculcate a broad perspectives of individualized instruction
- To develop skills in preparing programmed instruction materials and modules
- To prepare the prospective teachers as reflective practitioner

CONTENTS:

Unit 1: Modern Instructional Strategies in Social Science Education

Unit 2: Strategies of Assessment in Social Science Education

Unit 3: Material Design for curriculum Transaction in e - platform

Unit 4: Teacher as a reflective practitioner

Unit 1 Modern Instructional Strategies in Social Science Education

Learning Outcome		Major concepts	Strategies & Approaches	Assessment
1. To identify and practice m	dern •	Peer tutoring, multimedia and multi	 Online learning 	• Use any e-resources to prepare
instructional strategies in S Science.	ocial •	methodology strategies, Critical pedagogy, metacognition. Experiential learning, blended learning, self	DemonstrationNarrative	any 4 learning materials
		study, contract learning, problem based learning, teaching thinking skills.	expressionWeb search	

- http://www.bbk.ac.uk/linkinglondon/resources/
- http://en.wikipedia.org/wiki/Learni-management-systemhttps://www.itschool.gov.in
- www.youtube.com/user/itsvicters
- en.wikipedia.org/wiki/IT@School_Project
- victers.itschool.gov.in/
- www.youtube.com/user/itsvicters
- Aggarwal, J.C. (2003). Teaching of Social Studies: A Practical Approach. Mumbai: Vikas Publishing House.
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- Goleman, D. (1995). Emotional Intelligence. New York: McGraw Hill.
- Freire, Paulo. (1998). Pedagogy of the Oppressed. USA: Continuum Pub. Co.
- Fitchman & Silva (2003). The Reflective Educators' Guide to Classroom Research. California: Corwin Press, Inc.

Unit 2 Strategies of Assessment in Social Science Education (8 Hrs + 4 Hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To get acquaint with the principles and practices of feedback mechanisms. To become capable of designing and implementing various performance tests. 	 Concept of Educational Evaluation Quantitative V/S Qualitative Assessment Diagnostic test &Achievement test. Portfolio Assessment, Rubrics Self reflection, Peer evaluation - Assessing student performance as feedback for - Students progress -Teacher's proficiency - Parental involvement. 	 Brain storming Meaningful verbal expression Online learning 	Peer evaluation during Practice teaching (CE- Edu.13)

- http://www.ero.govt.nz/National-Reports/The-Quality-of-Teach
- http://www.novisystems.com/**Assessment-**Software.aspx
- https://www.assessment.gatech.edu/wp-content/uploads/slides
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- Aggarwal, J.C. (2003). Teaching of Social Studies: A Practical Approach. Mumbai: Vikas Publishing House.
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Unit 3 Material Design for Curriculum Transaction in E- Platform (8 Hrs + 4 Hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To inculcate a broad perspectives of individualized instruction To develop skills in preparing programmed instruction materials and modules 	 Curriculum transaction: meaning and modes Face to face mode and ICT enabled mode Experience with curriculum designs-Design digital texts and e-content Adapting free downloadable digital resources in Social Science Websites surfing practices 	Discussion Develop a e learning module/ e lesson to transact any one of the curricular aspect of Social Science	Assessment of e lesson.

References

- http://www.airpower.au.af.mil/airchronicles/aureview/1975/se
- Differentiating instruction: Collaborative planning and teaching for universally designed learning. SAGE: Thousand Oaks.Pvt. Ltd.

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Unit 4 - Teacher as a reflective practitioner

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
To prepare the prospective teachers as reflective practitioner	 Social Science Teacher as a reflective practitioner – Concept Reflective strategies – concept map, brain storming, journaling, portfolio writing, problem solving. 	Brain storming Meaningful verbal expression Arrange a reflective session after teaching practice or field visit or Camp activities	Reflective Journal (Practical)Observing feedback session

- http://www.ero.govt.nz/National-Reports/The-Quality-of-Teach
- http://www.novisystems.com/Assessment-Software.aspx
- https://www.assessment.gatech.edu/wp-content/uploads/slides
- Fitchman & Silva (2003). The Reflective Educators' Guide to Classroom Research. California: Corwin Press, Inc.

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- Singh and Gopal (2004) Teaching Strategies. New Delhi: APH Publishing Corporation.
- Sue, Cowley (2006) A Z of Teaching. New York: Brij basi Art Press Ltd.
- Innovative work: (CE- Edu.13): Suggested programmes (Prepare any one):
- Develop a programmed learning material for learning any one of the units in Social Science
- Prepare a multimedia package comprising PPTs and video clippings including animations (downloadable from net), to transact any one unit in Social Science.
- Prepare a module to develop creativity and divergent thinking through the learning activities of a unit of your choice.
- Develop a script and prepare a short film on any one of the themes/ events selected from Social Science School curriculum.
- Reading and reflecting:(CE Edu.13)
- Read a book related to the teaching of Social Science in technological era and prepare a review.
- School internship: Phase 1- Practice teaching for 10 weeks (40 lessons)
- Suggested Readings
- Theodore Kaltsounis, (1979). Teaching Social Studies in Elementary School. USA: Prentice hall, Inc.
- Elizabeth Perrot, (1982). Effective Teaching. Singapore: Longman
- Alan Holmeister& Margaret Lukke, (1990). Research in to Practice. USA: Allyn and Bacon.
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- Helen L Burz& Kit Marshall. (1998). Performance based Curriculum for Social studies. California: Corwin Press.
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- Judith K. March & Karen H. Peters. (2008). Designing Instruction. California: Corwin Press.
- Robin Alexander. (2008). Essays on Pedagogy. USA: Routledge.
- Ian Philip. (2008). Teaching History. New Delhi: Sage Publications India Pvt. Ltd.

- Nicole Saginor. (2008). Diagnostic Classroom Observation. California: Corwin Press.
- Philip M. Anderson. (2009). Pedagogy. New York: Peter Lang Publishing, Inc.
- Arbind Kumar Jha. (2009). Constructivist Epistemology and Pedagogy. New Delhi: Atlantic.
- Don Skinner. (2010). Effective Teaching and Learning in Practice. London: Continuum International Publishing group.
- ValsaKoshy. (2011). Action Research. New Delhi: Sage Publications.
- Tony Ghaye. (2011). Teaching and Learning through Reflective Practice. London:Routledge.

EDU-13.11: Emerging Trends and Practices in Geography Education

(Theoretical discourses – 60 & CE - 30 hours)

Objectives:

- To identify and practice modern instructional strategies in Geography
- To get acquaint with the principles and practices of feed back mechanisms
- To aware of the designs and practical analysis of the modern evaluation techniques and strategies
- To inculcate a broad perspectives if individualised instructional skills and practices
- To prepare prospective teachers as reflective practitioners

Contents:

Unit I. Modern Instructional Strategies in Geography Education

Unit 2: Strategies of Assessment in Geography Education

Unit 3: Material Design for Curriculum transaction in e-platform

Unit 4: Teacher as a Reflective Practitioner

Unit I – Modern Instructional Strategies in Geography Education (14 hrs + 6 hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To identify and practice modern instructional strategies in Geography To identify various modern instructional strategies for Geography education 	 Problem solving- steps, skills strategies Problem based learning Guided discovery / inquiry Exploratory / Investigatory Inductive/ Deductive Multi-media/ Multi- methodology 	Discussion Demonstration Online learning Web search	 Use any e-resources to prepare four learning materials Learning materials Assignments Reflections
		Internet Access	

Reference

- http://www.bbk.ac.uk/inkinglondon/resurces/
- http//en.wikipedia.org/wiki/learning management systems

- http://www.itschool.gov.in
- en.wikipedia.org/wiki/IT@school-Project
- victersitschool.gov.in
- www.youtude.com/user/itsvicters.
- Fitchman & Silva (2003) The Reflective Educator's Guide to Classroom Research California
- AroraM.L (1979) Teaching of Geography, Prakash Brothers, Ludhiane
- VermaO.P, and Vedanayagam. E.G (1987) Teaching of Geography, Sterling Publishers Private Limited, New Delhi
- Singh and Gopal (2004) Teaching Strategies. New Delhi: APH Publishing corporation
- Gopill G.H (1966) Teaching of Geography, Macmillan, London
- Pathak.R.P (2012) Teaching of social studies. Pearson New Delhi
- Edigar.M & Rao.B (2003) Teaching social studies successfully. New Delhi: Discovery Publishing House

Unit 2 Strategies of Assessment in Geography Education (17 Hrs + 8 Hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To get acquaint with the principles and practices of feedback mechanisms To become capable of designing and implementing various performance tests To acquaint with modern evaluation techniques in geography 	 Evaluation- concept, purpose, techniques & tools Modern evaluation techniques CCE/ Grading Self- reflection & peer -evaluation and mental processes in learning Achievement test and Diagnostic test-characteristics purpose, steps in construction, analysis of results & remedial measures Qualities of a good test Types of Questions- merits/ demerits Assessing students performance - purpose & techniques Classroom assessment- principles of feed back 	Discussion Demonstration Online learning Brian storming Meaningful verbal learning Preparing achievement and diagnostic tests	 Analysis of diagnostic and achievement tests (practical) Peer evaluation (during practice teaching at least 10 lessons (CE-Edu.13)

- <u>http://www.ero.govt.nz/national Reports./</u> The quality of teaching
- http://www.novisystems.com/assessment-software aspx
- Singh & Gopal (2004) Teaching strategies. New Delhi: APH Publishing corporation
- Sue, Cowley (2006) A- Z of teachin. New York: Briji Basi Art Press ltd
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- Arora M.L (1979) Teaching of Geography, Prakash Brothers, Ludhiane
- Gopill G.H (1966) Teaching of Geography, Macmillan, London

Unit 3 Material Design for curriculum transaction in e- plat from (17 Hrs + 8 Hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1. To inculcate a broad perspective of	Curriculum transaction –meaning and various	Discussion	Assessment
individualised instruction 2. To develop skills in preparing instructional materials and modules	modes Curriculum design – Digital texts and econtent Virtual learning environment Adapting free down loadable digital resources in Geography	Online learning Develop a e- learning module or e-lesson in Geography Web search	• Internal test for units 1, 2, & 3 (CE.Edu.13)

Reference

- http://www.airpower.au.af.mil/airchronicles/aureview/1975/se.
- Singh & Gopal (2004) Teaching strategics. New Delhi : APH Publishing Corporation
- Ehman & Patrick (1974) Towards Effective Instruction in Social Studies. USA: Houghton Miffn.
- Differentiating instruction: Collaborative Planning and teaching for universally designed learning. SAGE: Thousand Oaks.Pvt.Ltd.

- Patricia.L, Smith & Tillman.J.Ragan,(1999) Instructional Design. Newyork: John wiley & Sons.Inc.
- George.W. Gagnon and Michelle colly (2001) Designing for Learning. California: Corwin Press.
- Susan Udelhofen (2005) Key to Curriculum mapping, California: Corwin Press.
- Verma O.P., and Vedanayagam. E.G (1987) Teaching of Geography, Sterling Publishers Private Limited, New Delhi
- Arora M.L (1979) Teaching of Geography, Prakash Brothers, Ludhiane
- Gopill G.H (1966) Teaching of Geography, Macmillan, London

Unit 4 Teacher as a Reflective Practitioner (14 hrs +6 Hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
To prepare the prospective teachers as reflective practitioners	 Reflection in teaching and learning Teachers as a reflective practitioner Modes and means of reflective practices Reflective strategies- portfolio writing, Brain storming, journaling etc 	Brainstorming Meaningful verbal learning Arranging reflective session during teaching practice/ field visits	 Reflective journal (practical) Observing reflective sessions Collecting feed back

- http://www.assessment.gatech.edu/up-contnet/uploads.slides
- Fitchman & Silva (2003). The Refleactive Educators' Guide to classroom Research. California: Corwin Press, Inc.
- Singh & Gopal (2004) Teaching Strategies. New Delhi: APH Publishing corporation
- Verma O.P, and Vedanayagam. E.G (1987) Teaching of Geography, Sterling Publishers Private Limited, New Delhi
- Arora M.L (1979) Teaching of Geography, Prakash Brothers, Ludhiane
- Gopill G.H (1966) Teaching of Geography, Macmillan, London
- Tony Ghaye (2011) Teaching and Learning Through Reflective practice. London: Routeledge

EDU – 13.12: EMERGING TRENDS AND PRACTICES IN COMMERCE EDUCATION

(Theoretical discourses - 60 Hrs + CE -30 Hrs)

Objectives:

- To familiarize with the modern instructional strategies pertaining to teaching of commerce.
- To make the prospective teachers competent in applying various instructional strategies.
- To analyze the strategies in teaching book keeping and accountancy.
- To acquaint the trainees with the various assessment techniques.
- To become competent in developing suitable testing mechanisms.
- To develop the ability to use rubrics for quality assessment and become equipped for self and peer assessment.
- To become capable of designing and implementing various performance test.
- To get acquainted with the principles and practices of feedback mechanism.
- To create awareness about various competitive exams concerned with commerce and management.
- To understand the diverse aspects of digital texts and e-content in commerce fields.
- To prepare the prospective teachers as reflective practitioner.

CONTENTS:

Unit 1: Modern Instructional Strategies in Commerce Education

Unit 2: Strategies of Assessment in Commerce Education

Unit 3: Material Design for curriculum Transaction in e – platform

Unit 4: Teacher as a reflective practitioner

Unit 1 Modern Instructional Strategies in Commerce Education (15 Hrs + 7 Hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1. To identify and practice modern	Experiential learning, blended learning,	Online learning	• Assessment of learning process
instructional strategies in Commerce education.	contract learning, problem based learning, teaching thinking skills, graphic organizer.	Demonstration	and reflectionsGraphic organizers preparation

2.	To analyse the ways and strategies	•	Strategies in teaching book keeping and	Narrative ex	xpression	and analysis.
	in which a teacher educand deals		accountancy	Wah gaarah		
	Children with Special Needs.	•	Strategies to deal with Children with Special	Web search		
			Needs (CWSN) - differently able, slow			
			learner, gifted students in higher secondary			
			classroom.			

Unit 2 Strategies of Assessment in Commerce Education (14 Hrs + 9 Hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To get acquaint with the principles and practices of feedback mechanisms. To become capable of designing and implementing various assessment tools and techniques. To generate a professional aspiration among young world by preparing for competitive / placement exams. 	 Quantitative V/S Qualitative Assessment Diagnostic test, Achievement test, Performance test. Portfolio Assessment, Rubrics Self reflection, Peer evaluation Assessing student performance as feedback for Students progress Teacher's proficiency Parents Competitive exams- Basic ideas of MAT,CA, CS, ICWAI 	Brain storming Meaningful verbal expression Online learning Group investigation	 Quiz session Portfolio Assessment Rubrics Self reflection Diagnostic & Achievement test (Practical)

Unit 3 Material Design for Curriculum Transaction in E- Platform (18 Hrs + 8 Hrs)

1. To concrete a conviously and the control of the	Learning Outcome	g Outcome Major concepts	Strategies & Approaches	Assessment
transaction modes in teaching commerce. - Face to face mode and ICT enabled mode • Experience with curriculum designs-Design - Sace to face mode and ICT enabled mode • Assessment of e content scription	commerce. 2. To develop skills in using websites for analyzing modern instructional	 Face to face mode and ICT end Experience with curriculum de digital texts and e-content Adapting free downloadable dig 	ng and modes abled mode signs-Design Demonstration Self study ital resources nmerce. Supervised study Self evaluation	Assessment of e content scriptAnalyzing educational blogs

Unit 4 -Teacher as a reflective practitioner (13 Hrs + 6 Hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To capacitate the spirit of teacher as a reflective practitioner. To become competent in practicing reflective strategies in instructional process 	 Commerce Teacher as a reflective practitioner – Concept Reflective strategies – concept map, brain storming, journaling, portfolio writing, problem solving. 	Brain storming Meaningful verbal expression Online learning Group investigation	 Online assessment Concept maps Portfolio writing Reflective Journal (Practical)

References

- Aggarwal, J.C. (1996) A Practical Approach. New Delhi: Vikas Publishing House Pvt. Ltd.
- Dymoke, Sue & Harrison, Jennifer (2008). Reflective teaching and learning. New Delhi: SAGE
- Jacqueline, Thousand S., Richard A. Villa & Ann, Nevin I. (2007). *Differentiating instruction: Collaborative planning and teaching for universally designed learning*. SAGE: Thousand Oaks. Pvt. Ltd.
- Singh and Gopal (2004) Teaching Strategies. New Delhi: APH Publishing Corporation.
- Sue, Cowley (2006) A Z of Teaching. New York: Brij basi Art Press Ltd.
- http://en.wikipedia.org/wiki/Reflective_practice
- https://www.assessment.gatech.edu/wp-content/uploads/slides
- www.5learn.co/e-content-development

EDU – 13.13 : EMERGING TRENDS AND PRACTICES IN HOME SCIENCE EDUCATION

(Theoretical discourses - 60 hrs, CE - 30 hrs)

Objectives:

- To strengthen the experience of adopting modern strategies and to undertake contextual challenges in Home Science education
- To get a field based understanding of theories and principles of pupil assessment and evaluation
- To identify the Entrepreneurial opportunities of futuristic significance associated with the Home Science education.
- To enrich the vision and capabilities of prospective science teachers as reflective practitioners during and after the pre-service education.

Contents:

Unit 1: Modern Instructional Strategies in Home Science Education

Unit 2: Strategies of Assessment in Home Science Education

Unit 3: Material Design for Curriculum Transaction in e-platform

Unit 4: Teacher as a Reflective Practitioner

Unit 1: Modern Instructional Strategies in Home Science (16 +8= 24 hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1. To familiarize modern instructional	Online learning, blended learning-Meaning	Group discussion	On-task behaviour in class
approaches for classroom learning	and purpose	Drain starming	Participant observation
2. To identify special education needs	Brain based learning strategy	Brain storming	Innovative work
of slow learners, fast learners,	• Experiential learning approach, self study,	On line learning	
scientifically gifted and creative	Problem based learning,	_	
learners	• Strategies for teaching entrepreneurship	Web search	
	among Home science students		
	• Strategies to deal with Children with Special		
	Needs(CWSN) - differently able, slow		
	learner, gifted students in heterogeneous		
	classroom		

References

- http://www.bbk.ac.uk/linkinglondon/resources/
- http://en.wikipedia.org/wiki/Learni management_systemhttps://www.itschool.gov.in

Unit 2: Strategies of Assessment in Home Science Education (22 +10 =32hrs)

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To familiarize with continuous and comprehensive evaluation and grading system To develop rubrics for CCE assessment, self reflection and peer evaluation To understand the concept of self reflection and peer evaluation To acquaint with online assessment and experience different practices 	 Quantitative and qualitative assessment Continuous and Comprehensive Evaluation, Grading system Achievement test-construction Diagnostic test-construction, remedial instruction Assessment of thinking skills- critical and creative thinking- assessment of process skills in Home Science Concept of self reflection and peer evaluation-development and practice of rubrics Rubrics for assessment of assignments, projects, debates, seminars, discussion Online assessment-meaning Practicing of online tools. Downloading of online tools-online quiz maker 	Group discussion Preparation of rubrics Buzzer sessions Seminar Collaborative learning	 Questioning Class test Assessment of rubrics Participant observation Portfolio assessment Peer evaluation (10 classes)

Reference

- Aggarwal, J.C. (2001). Principles, Methods & Techniques of Teaching (2nded.). New Delhi: Vikas Publishing House Pvt. Ltd.
- <u>http://www.ero.govt.nz/</u>National-Reports/The-Quality-of-Teach
- http://www.novisystems.com/Assessment-Software.aspx
- https://www.assessment.gatech.edu/wp-content/uploads/slides

Unit 3: Material Design for Curriculum Transaction in e-platform (12 + 6 = 18hrs)

	Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1.	To understand the concept of curriculum transaction material design	Techno Pedagogic curriculum transaction materials- Digital texts-brief explanation- designing of digital texts	Digital Modular Exposition	Rubric based assessment of individual performance
3.	To familiarize with various curriculum transaction materials using techno pedagogy To design and develop techno pedagogic curriculum transaction materials for learning Home science	 E content development- steps Development of e-content material on any topic in Home Science Educational entrepreneurship-career possibilities for trained graduate and post graduate students 	Explicit teaching Collaborative designing sessions Individual / group presentation	
4.	to explore the ways to develop an educational entrepreneur		Supervised study	

References

- Habeshaw S., Gibbs G. & Habeshaw, T. (1993): 53 Interesting Ways to Assess your Students: Trowbridge Frederick M. Hess (2006): Educational Entrepreneurship: realities, challenges, possibilities: Harvard, Harvard Education Press.
- RadhaMohan(2007): Innovative Science Teaching: New Delhi, Prentice Hall of India Pvt Ltd.

Unit 4: Teacher as a Reflective Practitioner (10 + 6 = 16 hrs)

	Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1	To familiarize with reflective	• Reflective practitioner-Meaning, modes and	Narrative expression	Reflective Journal Analysis
	practices	means of reflective practices	in small or medium	Online assessment
2	To be a reflective practitioner	• designing and development of tools of	groups	Participant observation
		reflection by the student teacher, postings of reflection in blogs and forums	Online learning	
			Debate	
			Brain storming	

Reference:

- Brown S. & Smith B. (1997): Getting to Grips with Assessment.:, Birmingham, SEDA.
- Funda Ornek, Issa M. Saleh (Eds.) (2012): Contemporary Science Teaching Approaches: Promoting Conceptual Understanding in Science: USA, Information Age Publishing Group.
- Germaine L. Taggart (1998): Rubrics: A Handbook for Construction and Use: Virginia, Rowman & Littlefield Education.
- Habeshaw S., Gibbs G. & Habeshaw, T. (1993): 53 Interesting Ways to Assess your Students: Trowbridge Frederick M. Hess (2006): Educational Entrepreneurship: realities, challenges, possibilities: Harvard, Harvard Education Press.
- RadhaMohan(2007): Innovative Science Teaching: New Delhi, Prentice Hall of India Pvt Ltd.
- Rena M. Palloff& Keith Pratt (2009): Assessing the Online Learner: San Francisco, Jossey-Bass.
- Tony Ghaye (2011): Teaching and Learning Through Reflective Practice (Second Edition): New York, Rutledge. Brown G. (2001): Assessment: A Guide for Lecturers. Assessment Series:, York, LTSN.

EDU – 301.2 : Health and Physical Education.

(1credits - 30 hours & 25 marks)

Objectives

- Acquire knowledge of the fundamentals of Health, Health Education and Physical fitness.
- Provide knowledge and understanding regarding the scientific basis and benefits of Physical activity.
- Develop right attitudes and habits for a healthy living in personal and community life.
- To impart knowledge regarding food and nutrition, first aid and the importance of posture.
- Develop awareness about various diseases and their prevention.
- Guiding the next generation to live with social commitment and obligations.

Contents

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Unit – 1	Health & Health Education:	meaning	scope and aims
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- Unit 2 Hygiene & Health Hazards
- Unit 3 Food and Nutrition, Lifestyle Diseases, First aid and Posture
- Unit 4 Yoga in schools.

Unit 1: Health & Health Education: meaning, scope and aims

	Learning Outcome		Major concepts	Strategies & Approaches		Assessment
1	. Acquire knowledge of the	•	Health & Health Education – 4 hours	Meaningful verbal	•	Test
	fundamentals of Health, Health	•	Meaning, importance and factors affecting	presentation		
	Education and Physical fitness.		Health			
		•	Significance, scope ,aims and objectives of			
			Health Education			

Unit 2: Hygiene & Health Hazards

	Learning Outcome	Major concepts	Strategies & Approaches		Assessment
1.	Develop right attitudes and habits	• Hygiene & Health Hazards – 6 hours	Dramatization	•	Evaluation of daily reflective
	for a healthy living in personal and	Personal and Community Hygiene	Presentations in		behaviour
	community life.	Smoking ,Alcoholism and Abuse of drugs	small/medium groups	•	Test
2.	Guiding the next generation to live				
	with social commitment and				
	obligations.				

Unit 3: Food and Nutrition, Lifestyle Diseases, First aid and Posture

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
 To impart knowledge regarding food and nutrition, first aid and the importance of posture. Develop awareness about various lifestyle diseases and their prevention. 	 Food and Nutrition – 15 hours Macro and Micro Nutrients Balanced diet Vitamin deficiency and related diseases Mal nutrition Diseases Hypo kinetic /Lifestyle diseases and it's management First Aid Definition Aims and Principles Management of fracture, Dislocation, Wounds, Sprain, Strain, Cramp, Fainting, 	Narrative expressions Practical sessions Group activity Dramatization Personal profiles Preparation of database Social survey	 Debating and discussions Test Survey reports Group presentation Posture assessment Grid

Burns, etc.	
• Posture	
• Congenital and acquired postural deformities	
• Remedial measures for acquired postural	
problems	

Unit 4: Yoga in schools.

Learning Outcome	Major concepts	Strategies & Approaches	Assessment
1. Understands the significance of	• Yoga in Schools – 5 hours.	Narrative expressions	Practice of yoga
yoga in school.	Catch them young and watch them grow.		Practical classes in schools
	Empowering children with yoga:	Practical sessions	• Discussions
	Need for practicing yoga		• Tests
	Diet and Hygiene	Group activity	Awareness campaign.
	Pranayama (breath awareness)Visualization (developing positive thoughts	Dramatization	
	and building self-esteem.Meditation.	Personal profiles	

Guidelines for Practical work:

Personal Health & Nutrition Chart - 5 marks
 Record of Health Education -10 marks
 Practice of Yoga - 10 marks

• Practice teaching - 25 marks (conduct two classes in schools by preparing teaching-learning resources, one Yoga & one HE)

EDU – 301.3: Art and Aesthetics Education.

(Credit – 1, carries 25 marks/30 hours)

Contents:

- Musical awareness-discussions- Folk songs, regional songs, national integration songs-
- (collection and practice)
- Indian classical music- awareness of Musical instruments-Expert classes & Practice.
- Performing arts Mudras and their meanings -of any one performing arts of Kerala, conducting demonstration classes-general Famous dance forms of India and their peculiarities and dancers.
- Familiarization of CCRT Cultural kit.

Practicals:

- Prepare a report of music /performing arts/folk songs and patriotic songs/cultural tradition of India / Kerala, including collections. (Maximum 10 pages) 10 marks
- Practice individual and group songs/ compose songs to teach the subject matter concerned in a novel way. (5 marks)
- Preparation of an album on Art Education.(10 marks)

SEMESTER - IV

Instructional hours per Subject: 90 (Theoretical Discourses – 60 & CE – 30 hours)

Perspectives in Education/Core Subjects:

EDU-14: Advanced Studies: Perspectives in Education.

Curriculum and Pedagogic courses/Optional subjects:

EDU-15. 1-13: Advanced Studies: Curriculum and Pedagogic Courses inEducation.

CE – Preparation of MCQ test battery.

EDU – 14: ADVANCED STUDIES: PERSPECTIVES IN EDUCATION.

Objectives

To enable the student teachers:

- To synthesise acquired knowledge and skills for professional competency
- To equip student teachers to meet the challenges in classrooms
- To preserve the culture and values of nation
- To develop managerial skills to maintain an effective institutional climate
- To apply the modern trends in assessment and evaluation in education
- To integrate the knowledge of ICT in curriculum transaction

Content

- Commissions and reports in Education- Kothari commission, NEP 1986,
- Professional ethics of teacher with respect to students, institution and society- Eclectic tendencies in education
- Social issues and strategies to curb them with special reference to corruption, terrorism, violence against women and drug abuse-Significance of conscientisation programme
- Constitutional provisions related to education with special reference to Right to education act 2009.
- Learning in constructivist classrooms- theories of learning with special reference to constructivism- application of the theories of Piaget, Bruner and Vygotsky- classroom strategies and role of teacher. Comparison of behaviourism and constructivism.
- Inclusive education- strategies for inclusive classroom- Differently abled learners characteristics- National policies and acts- special education and integrated education
- Adolescent issues- developmental needs and characteristics- psychosocial problems of secondary school students and remedial measures-guidance and counselling for adolescents- teacher as a counsellor
- Classroom management- role of Psychology, Philosophy and Technology in Assessment and evaluation in education- Current practices in assessment and evaluation –CCE- concept, need and relevance, Grading system- concept, types-absolute grading, direct grading and relative grading, merits and demerits. Tools of Assessment- tests, checklist, rating scale, cumulative record, questionnaire, inventory,

- schedule, anecdotal record- concept, merits, demerits relevance in the field of research. Characteristics of a good evaluation tool, Norm-referenced tests and Criterion-referenced tests.
- Basic statistics for analyzing/ assessment of data- Role and importance of statistics in analyzing assessment data, Population and Sample, Data, Types of Data- Primary & Secondary, Quantitative & Qualitative, Scales of Measurement-Nominal, Ordinal, Interval and Ratio scales. Classification of Data, Graphical Representation of Data- need and importance, Representing data using Graphs and Diagrams, Interpretation of graphical representations.
- Action Research- Need, scope, nature, characteristics, steps involved, advantages and limitations of action research, Integrating action research practices in different areas.
- Research hypothesis Meaning, relevance, role/functions and types. Stating the research hypotheses, forms of hypothesis- null form, prediction form, question form and statement form.
- Sustainable development: Concept and meaning, need for sustainable development, measures to achieve sustainable development, role of teachers in creating awareness about sustainable development.
- Environmental ethics- Environmental laws and rights, articles related to environmental protection
- Eco-friendly life style Changing life style and its impact on environment, measures of eco friendly living.
- Disaster management- Concept, steps and phases
- Entrepreneurial Education- Entrepreneurial opportunities for students
- First Aid –Definition, Aims and Principles, Management of fracture, Dislocation, Wounds, Sprain, Strain, Cramp, Fainting, Burns, Bleeding through nose, etc.
- Understanding Nutrition -Macro and Micro Nutrients , Carbohydrates, Protein, Fat, Vitamins (Fat soluble and water soluble) , Minerals, Water & Fibre , Balanced diet, Vitamin deficiency diseases
- Virtual classroom &E-learning- computer simulation, web based classrooms. Cloud computing. E-learning- concept, types- synchronous, asynchronous –merits, demerits. Learning management system.

EDU – 15.1 : ADVANCED STUDIES: CURRICULUM AND PEDAGOGIC COURSES IN MALAYALAM EDUCATION.

Objectives

- To familiarize with emerging areas in teaching and learning
- To develop an awareness of modern assessment strategies for Malayalam language teaching
- To explore avenues available for professional development

Unit -1: Emerging areas in teaching and learning

- M-learning in Malayalam language teaching
- Neuro linguistic Programming
- Resource Mapping
- Reflective Practice and teacher learning
- Learner centeredness and learner needs
- Online tutoring
- Social and community involvement activities
- Formal and Informal learning contexts
- Concept of e- resources and IT enabled instructional resources
- Modern instructional strategies and approaches for Malayalam instruction: Instructional strategies Co operative
- and collaborative learning strategies, Scaffolding strategies, Virtual learning and Blended learning, Experiential learning
- Strategies to deal with Children with Special Needs (CWSN) differently able,
- Strategies for slow learners, gifted students

Unit -2 Assessment

- Focus on communicative properties of tests
- Quantitative and Qualitative Assessment in Malayalam language teaching Diagnostic test, Achievement test, Performance test, Language Proficiency test, Reflective assessment Portfolio Assessment, Rubrics, Self reflection, Peer evaluation, Teacher evaluation

- Evaluation—Formative and Summative, continuous and comprehensive evaluation
- Online tests and assessment, Computer adaptive tests

Unit -3 Research

- Trends in research in language and Malayalam language learning
- Research in Internet-based teaching and learning
- Linguistics and language learning, multimodal learning.
- Educational entrepreneurship

Unit -4 Professional Development

- Continuing professional development (CPD)-conceptual Analysis : personal and professional qualities,
- empowerment, skills and practise
- Online professional development courses
- TKT(Teaching Knowledge Test)
- Online Malayalam language proficiency test

EDU – 15.2: Advanced Studies: Curriculum and Pedagogic Courses in English Education.

Objectives:

- To familiarize with emerging areas in teaching and learning
- Develop an awareness of modern assessment strategies for English.
- Identify recent research trends in ELT.
- Explore avenues available for own professional development.

Unit I: Emerging areas in teaching and learning

- Modern trends-Whole language; Neurolinguistic Programming; Competency based language teaching;
- Post Methods era
- "there never was and never will be a method for all"-David Nunan.
- "a postmethod pedagogy must (a) facilitate the advancement of a context-sensitive language education; (b) rupture the reified role relationship between theorists and practitioners; (c) tap the sociopolitical consciousness that participants bring with them." -B.Kumaravadivel.
- Online tutoring
- Reflective Practice and teacher learning.
- Learner centredness and learner needs.
- Diagnosis based on situational needs followed by treatment.
- Interlanguage development for second language learners.
- Criticism of published materials.
- Computer corpora
- Resource Mapping
- M-learning in ELT

Unit II: Assessment

- Replacing testing philosophy that 'one size fits all' with different assessment batteries that cover both production and comprehension skills.
- Focus on communicative properties of tests.
- Tests and assessment both formative and summative

• Computer adaptive tests

Unit III: Research

- Trends in research in language and language learning; learner corpora; Linguistics and language learning; multimodal learning
- Research in Internet-based teaching and learning- Blended learning; e-learning etc.

Unit IV: Professional Development

- Perceiving Continuing Professional Development as a planned, continuous and lifelong process whereby teachers try to develop their personal and professional qualities, and to improve their knowledge, skills and practice, leading to their empowerment, the improvement of their agency and the development of their organization and their pupils.
- Online professional development courses
- TKT(Teaching Knowledge Test)
- CELTA(Certificate of Teaching English to Speakers of Other Languages)
- IELTS (International English Language Testing System

EDU – 15.3: ADVANCED STUDIES: CURRICULUM AND PEDAGOGIC COURSES IN HINDI EDUCATION.

Objectives:

- To familiarize with emerging areas in teaching and learning
- To develop an awareness of modern assessment strategies for Hindi language teaching
- To identify recent research trends in language teaching
- To explore avenues available for professional development

Unit -1: Emerging areas in teaching and learning

- Neuro linguistic Programming
- Online tutoring
- M-learning in Hindi language teaching
- Resource Mapping
- Reflective Practice and teacher learning
- Learner centeredness and learner needs
- Social and community involvement activities
- Formal and Informal learning contexts
- Concept of e- resources and IT enabled instructional resources
- Modern instructional strategies and approaches for Hindi instruction: Instructional strategies Co operative
- and collaborative learning strategies, Scaffolding strategies, Virtual learning and Blended learning, Experiential learning
- Strategies to deal with Children with Special Needs (CWSN) differently able,
- Strategies for slow learners, gifted students

Unit -2 Assessment

- Focus on communicative properties of tests
- Quantitative and Qualitative Assessment in Hindi language teaching Diagnostic test, Achievement test, Performance test, Language Proficiency test, Reflective assessment Portfolio Assessment, Rubrics, Self reflection, Peer evaluation, Teacher evaluation
- Evaluation—Formative and Summative, continuous and comprehensive evaluation
- Online tests and assessment, Computer adaptive tests

Unit -3 Research

- Trends in research in language and Hindi language learning
- Research in Internet-based teaching and learning
- Linguistics and language learning, multimodal learning
- Educational entrepreneurship

Unit -4 Professional Development

- Continuing professional development (CPD)-conceptual Analysis : personal and professional qualities, empowerment, skills and practise
- Online professional development courses
- TKT(Teaching Knowledge Test)
- Online Hindi language proficiency test

EDU – 15. 4 : ADVANCED STUDIES : CURRICULUM AND PEDAGOGIC COURSES IN SANSKRIT EDUCATION

Objectives

- To understand and develop the advanced studies in curriculum and pedagogic courses.
- To familiarize with emerging areas in teaching and learning.
- To develop an awareness of modern assessment strategies for Sanskrit.
- To identify recent research trends in Sanskrit.
- To identify the avenues available for own Professional Development.

UNIT-I EMERGING AREAS IN TEACHING AND LEARNING.

- Neuro linguistic programming.
- On-line tutoring.
- M learning in Sanskrit language teaching.
- Resource mapping.
- Reflective practice and teacher learning.
- Learner centeredness and Learner needs.
- Social and community involvement activities.
- Formal and informal learning contexts.
- Concept of e-resources and IT enabled instructional resources.
- Modern instructional strategies and approaches for Sanskrit instruction .Instructional strategies-co operative and collaborative learning
- Strategies, scaffolding strategies, virtual learning and blended learning, experiential learning.
- Strategies to deal children with special needs (CWSN)-differently able.
- Strategies for slow learners, gifted students.

UNIT II ASSESMENT

- Focus on communicative properties on tests
- Quantitative and qualitative assessment in Sanskrit language teaching, diagnostics test, achievement test, performance test,

- Language proficiency test, reflective assessment port folio assessment, rubrics, self reflection, peer evaluation, teacher evaluation
- Evaluation formative and summative continues and comprehensive evaluation .
- Online test and assessment, computer adaptive test

UNIT III RESEARCH

- Trends in research in language and Sanskrit language learning
- Research in internet based teaching and learning
- Linguistics and language learning, multi model learning.
- Educational entrepreneurship.

UNIT IV PROFESSIONAL DEVELOPMENT

- Teacher transformation and Continuous Professional Development[CPD]
- Teacher Vision and Mission-Teacher and Professional growth-Ways and means of professional competency-Academic and Professional Qualification-Teacher as a reflective practitioner –Social Resource promote human attitudes-values-Nationalism.
- On line professional development courses.
- TKT [Teaching knowledge test]

EDU – 15.5: ADVANCED STUDIES: CURRICULUM AND PEDAGOGIC COURSES IN ARABIC EDUCATION

Objectives

- To understand and develop the advanced studies in curriculum and pedagogic courses.
- To familiarize with emerging areas in teaching and learning.
- To develop an awareness of modern assessment strategies for Arabic.
- To identify recent research trends in Arabic
 To identify the avenues available for own Professional Development

Contents

Unit 1: Language and Language Learning:

- Language and its functions
- Cultural context of Language
- Language Skills
- Language Acquisition
- Psychological Principles of Language Learning
- Aims & Objectives of Teaching Arabic Language

Unit II: Methods & Strategies of Teaching Arabic Language:

- Approach, Method & Techniques
- Traditional & Modern Methods
- Various Methods, Approaches & Techniques used in Arabic Language Teaching

Unit III: Pedagogic Analysis:

- Interdependence of Content Knowledge, Pedagogic Knowledge and Technological Knowledge
- Techno Pedagogic Content Knowledge Analysis(TPCKA)
- Arabic Curriculum in State Schools of Kerala

Unit IV: Planning

- Various Levels of Planning
- Steps Involved in Planning
- Use of various Resources and Aids in Teaching Arabic language

Unit V: Assessing Learner Achievement

- Tools and Types of Evaluation
- Formative and Summative Evaluation
- Developing achievements and diagnostic tests
- Assessment Rubrics

References:

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- Al Muallim al Najih:, Dr. Abdullah al Amiri, Dar Usama li -nashir wa thouzeea'
- Thaaleemu al lugha al arabiyya baina nadriyya wa thathbeeq: Dr Hasan Al Shahatha, Dar Misriyya wa llubnaniya
- Mushkilathu thaaleemu llughal Arbiyya: Abbas Mahmood ; Dar alsaqafa, Qatar
- Thareeqathu Thadreesi Wa strateejiyyathuhu: Dr Muhammed Mahmmod al Haila, Dar Al Kitab Al Jamia, Al ain, UAE
- Al Mawajjah Al Fanni LiMudarirsee al Lughal Al Arabiyya: Abdul Aleem Ibrahim; Dar al maarif, Al qahira
- Thaaleem al lugha al Arabiya lighairi al nathiqeena biha : Makthab al tharbiyya al Arabi liduwal al Khaleej
- Thuruqu thadrees al lugha al Arabiyya lil madaris al muthawassitha wa thanaiyya : Hasan Mulla Uthman ; Dar alam al Kuthub lithbaa wa nnashshr wa thouzeea, Riyadh, KSA
- Thaqnolojiya al Thaaleem; Al wasail al thaaleemiyya wa thaqniyyath al thaaluum: Dr. Muhammed Assam Tharbay , Dar Hammurabi lilnashri wa thouzeea
- Asaleeb Wa Thuruqu al-Thadrees al Hadeesa : Dr. Muhammed Assam Tharbaya; Dar Hammurabi lilnashri wa thouzeea
- Providing teachers effective strategies for using technology techtrends: Brown B& Henscheid
- The systematic Design for Instruction: Dick, W& L(1990)
- Istheeratheejiyyath wa Maharah al Tharees :Kamal al Jundi; Dar al Jumhooriya lilthibaa
- Wasaail al Ithisal wa thaknologiya fithaaleem :Dr Abd al hafiz muhammed salama ,Dar al Fjkar
- Al thadrees wa Iadad al Muallim: Dr.S Abdulrahman qindeel Dar al Nashr al Duwali

- Murshid al Muallim: Richard D. C; Aalam al Kutub al Qahira
- Al Thadrees Ahdafuhu wa usasuhu wa Asaleebuhu Thaqweemu Nathaijuhu wa Thathbeeqathuhu: Dr Fikri Hasan Rayan, Aalm al kutub, al qahira
- Madkhal Ila Tharbiya al muthamayyizeena wal Mauhoobeen, Dar al fikar lial thibaa wa Nashr
- Thaqniyyath al thaaleem(Mafhoomuha wa douruha fi thahseeni amaliyyath al thaaleem wa thaallum: Badar Salih
- Kuthub al Mudariseen lil madaris al thanawiyya: Majli al wilaya lilbuhuzu thabaviyya wathadreeb
- Al tharbiya wa thuruqu thadrees: Salih abdul Azeez& Abdul Azeez Abdul Majeed; Dar al Maarif, Al Qahira
- Kaifa Thulqi Darsak: Yabhasu fi usooli al tharbiyath wa thadrees, Dar al Ilm lil Malayeen, Bairut.
- Al Muwajjah al Amali li Mudarrisee al Lugha Al Arabiyya: Abid Thoufeeq al Hashmi; Al Risala publishing House, Bairoot

EDU – 15.6: ADVANCED STUDIES: CURRICULUM AND PEDAGOGIC COURSES IN TAMIL EDUCATION.

Objectives

- To familiarize with emerging areas in teaching and learning
- To develop an awareness of modern assessment strategies for Tamil language teaching
- To explore avenues available for professional development

Unit -1: Emerging areas in teaching and learning

- M-learning in Tamil language teaching
- Neuro linguistic Programming
- Resource Mapping
- Reflective Practice and teacher learning
- Learner centeredness and learner needs
- Online tutoring
- Social and community involvement activities
- Formal and Informal learning contexts
- Concept of e- resources and IT enabled instructional resources
- Modern instructional strategies and approaches for Malayalam instruction: Instructional strategies Co operative
- and collaborative learning strategies, Scaffolding strategies, Virtual learning and Blended learning, Experiential learning
- Strategies to deal with Children with Special Needs (CWSN) differently able, Strategies for slow learners, gifted students

Unit -2 Assessment

- Focus on communicative properties of tests
- Quantitative and Qualitative Assessment in Tamil language teaching Diagnostic test, Achievement test, Performance test, Language Proficiency test, Reflective assessment Portfolio Assessment, Rubrics, Self reflection, Peer evaluation, Teacher evaluation
- Evaluation—Formative and Summative, continuous and comprehensive evaluation
- Online tests and assessment, Computer adaptive tests

Unit -3 Research

- Trends in research in language and Tamil language learning
- Research in Internet-based teaching and learning
- Linguistics and language learning, multimodal learning.
- Educational entrepreneurship

Unit -4 Professional Development

- Continuing professional development (CPD)-conceptual Analysis : personal and professional qualities, empowerment, skills and practise
- Online professional development courses
- TKT(Teaching Knowledge Test)
- Online Tamil language proficiency test

EDU – 15.7 : ADVANCED STUDIES : CURRICULUM AND PEDAGOGIC COURSES IN MATHEMATICS EDUCATION

OBJECTIVES: Enable the student teachers to:

- understand the concept of teaching- learning process.
- understand and develop skill in selecting appropriate aims and objectives for teaching Mathematics.
- To identify the changing roles of the teacher
- familiarize and apply the instructional management strategies of teaching Mathematics.
- understand and apply online assessment and competency enhancement avenues.
- identify net working as a means of personal and professional growth
- develop skill in the preparation of different types of schedules and matrix for assessing performance.
- To understand and practice various models of teaching in classrooms
- prepare different types of test items for assessment.
- To understand and practice modern methods of assessment
- Develop skill in constructing and administering Achievement test & Diagnostic tests.
- familiarize & understand about Modern Trends in Evaluation like Continuous comprehensive evaluation& Rubrics designing
- To understand the meaning of reflective practices to prepare tools for evaluation of
- reflective practices

CONTENTS:

Unit: I - Nature and Scope of Teaching and learning in Mathematics

Unit: II – Methods, Strategies and Models of Teaching

Unit: III – Curriculum and Modern Instructional Resources
Unit: IV – Modern Developments in Mathematics Education

UNIT: I – NATURE AND SCOPE OF TEACHING AND LEARNING IN MATHEMATICS

- **History of mathematics -Contributions of great Mathematicians** (Pythagoras, Rene Descartes, C.F.Gauss, Aryabhatta, -Bhaskaracharya, Brahmagupta, Sreenivasa Ramanuja and Newton,)
- Values of learning Mathematics: Utilitarian, Disciplinary, -Cultural, Aesthetic, Social, Moral, International etc.

- **Teacher as a professional:** Teacher qualities and competencies, Role of Teacher as a Knowledge manager, Facilitator, Scafolder, Mentor, Social Engineer, Reflective practitioner
- Changing concept of classroom environment: conducive, learner friendly, inclusive and Virtual learning environment (VLE).
- **Teaching-Learning process**: Maxims of teaching. Phases of teaching, theories of learning(Piaget, Bruner, Gagne and Vygotsky)
- **Taxonomy of Instructional Objectives-**Origin, Bloom's Taxonomy of Instructional Objectives (1956), Classification by NCERT, Technology Integrated Taxonomy –Peck & Wilson (1999), Revised Blooms Taxonomy by Anderson and Krathwohl (2001).
- Aims & Objectives of teaching Mathematics with respect to NCF (2005) and KCF.(2007)

UNIT: II - METHODS, STRATEGIES AND MODELS OF TEACHING

- **Methods and approaches:** Inductive Deductive method, Analytic -Synthetic method, Laboratory method, Project method, Problem solving method, Heuristic approach
- Techniques for individualising instruction: Assignments, Homogeneous grouping, Supervised study, Drill work, Dalton plan,
- Self Instructional Strategies Programmed Instruction (Linear, branching), Modular Instruction and CMI
- **Models of Teaching:** Detailed study and practice on Concept Attainment Model , Inquiry Training Model, Constructivist Model, Discovery Model etc.
- Motivation: Role of motivation in mathematics learning. Techniques of motivating a mathematics classroom

UNIT: III – CURRICULUM AND MODERN INSTRUCTIONAL RESOURCES

- **New approaches to curriculum Construction:** Critical Pedagogy, Problem Based Learning, Constructivist Learning, Reflective learning, Experiential learning,
- Modern trends in curriculum construction:
- Principles of Curriculum organisation
- **Resources for Learning Mathematics:** Mathematics laboratory, Mathematics library, Mathematics Club, Informal learning contexts such as Mathematics exhibitions, Fair, Field Trip etc.
- **e- resources/ Digital resources-**CD, DVD, Websites, digital text books, Web 2.0 tools, Hot Potatoes, Teacher Tube, Edublog, Online Resources Learning management systems, m-learning, ICT and Multimedia in the teaching of Mathematics
- **Competitive Examinations for teachers KTET, NTET, TET.**
- Educational entrepreneurship Career possibilities for trained graduate and post graduate science students.

UNIT: IV – MODERN DEVELOPMENTS IN MATHEMATICS EDUCATION

- **Techno-pedagogy:** _ Role of teacher as a techno-pedagogue, Concept of TPCK, Interrelationship of Content knowledge, pedagogic knowledge and technological knowledge, Scope and challenges of TPCK
- **Preparation Assessment tools:** Types of test items Objective type, short answer type and Essay type tests: Achievement Test., -Diagnostic tests & Remedial Teaching.
- **Modern Trends in Evaluation.:** Objective based evaluation, Continuous comprehensive evaluation, Rubrics for assessing of Assignments, Projects, Debates, etc
- **Reflection and feedback:** Concept of reflective practices, Teacher as a reflective Fractioned Designing and development of tools for reflection by student teacher, Peer Evaluation
- Research in Mathematics Education: Types of Research, Thrust areas of researches in mathematics education

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- Kumar, S.& Ratnalikar, D.N. (2003). *Teaching of Mathematics*. New Delhi: Anmol Publications Pvt. Ltd.

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- http://www.citejournal.org/articles/v9i1general1.pdf
- http://www.ttf.edu.au/what-is-tpack/what-is-tpack.html
- http://www.csun.edu/science/biology/index.htm
- http://archive.org/stream/modernmethodsand029422mbp/modernmethodsand029422mbp_djvu.txt
- http://books.google.com/books/about/Modern Methods and Mater...
- http://www.amazon.com/**Teaching-**Secondary-School**-Science-**Stra...
- http://www.ncert.nic.in/new_ncert/ncert/rightside/links/pdf/...
- http://www.ncert.nic.in/right side/links/pdf/framework/english/nf2005.pdf
- http://www.ssamis.com/web/downloads/KCF%2020 07.pdf
- https://golem.ph.utexas.edu/.../new_teaching_method_improves_m.html

EDU – 15.8 : ADVANCED STUDIES : CURRICULUM AND PEDAGOGIC COURSES IN PHYSICAL SCIENCE EDUCATION

(Theory hours-60, Marks -50, Related practical for CE-hours 30, marks -25)

OBJECTIVES

Enable the student teachers to

- Understand the concept of teaching- learning process.
- Understand and develop skill in selecting appropriate aims and objectives for teaching physical science.
- Familiarize and apply the instructional management strategies of teaching physical science.
- Understand and apply online assessment and competency enhancement avenues.
- Identify net working as a means of personal and professional growth
- Develop skill in the preparation of different types of schedules and matrix for assessing performance.
- Prepare different types of test items.
- Administer oral and open book examination.
- Develop a skill in constructing and administering achievement test & diagnostic tests.
- Familiarize & understand about Modern Trends in Evaluation like Continuous comprehensive evaluation& Rubrics designing

CONTENT

- 1. Development of science education in India
- 2. Networking in science classrooms
- 3. Instructional Management Traditional to digital ICT and Multimedia as technology enhanced communication devises in the teaching of physical science
- 4. Online Assessment And Competency Enhancement avenues
- 5. Global trends in curriculum construction- recent changes in curriculum construction, learner centered & participatory approaches.
- 5. Competitive examinations for secondary school students and science teachers
- 6. Educational entrepreneurship career possibilities of trained graduate and post graduate science students
- 7. Assessment in Physical science Education.
 - 7.1 Objective based evaluation.

- 7.2 Preparation Assessment & Evaluation tools
- 7.2.1Preparation of Question Bank with different test items (HOT, LOT Questions),
- 7.2.2 Preparation of Achievement Test.
- 7.2.3 Preparation of Diagnostic tests & Remedial Teaching.
- 7.3 Modern Trends in Evaluation.
- 7.3.1 Continuous comprehensive evaluation.
- 7.3.2 Rubrics for assessing of Assignments, Projects, Debates, Seminars and Discussions.

8. Reflective Reading and Teacher competencies.

Relevance and scope of Reflective reading.

Teacher competencies for Science learning

Standards for Teacher Competence in Educational Assessment of Students.

EDU – 15. 9 : ADVANCED STUDIES : CURRICULUM AND PEDAGOGIC COURSES IN NATURAL SCIENCE EDUCATION

OBJECTIVES: Enable the student teachers to:

- Understand the concept of teaching- learning process.
- Understand and develop skill in selecting appropriate aims and objectives for teaching natural science.
- Develop skill in the preparation of various instructional materials for enhancing the effectiveness of instruction and remediation.
- Familiarize and apply the instructional management strategies of teaching natural science.
- Understand and apply online assessment and competency enhancement avenues.
- Identify net working as a means of personal and professional growth.
- Develop skill in the preparation of different types of schedules and matrix for assessing performance.
- Develop a skill in constructing and administering achievement test & diagnostic tests.
- Familiarize & understand about Modern Trends in Evaluation like Continuous comprehensive evaluation& Rubrics designing.

CONTENTS:

Multiple taxonomies of Instructional objectives

- Origin, Bloom's Taxonomy of Instructional Objectives (1956),
- Classification by NCERT,
- Mc Cormack and Yagar's classification,
- Technology Integrated Taxonomy Peck & Wilson (1999),
- Revised Blooms Taxonomy by Anderson and Krathwohl (2001).

Instructional Management: Traditional to Digital.

- Teacher initiated methods- Lecture method, Lecture cum Demonstration, Biographical
- Student initiated methods- Problem solving, Project method, Guided discovery, Experimental and heuristic method.
- Approaches- Inductive-Deductive, Multimedia, Interdisciplinary and Constructivist approaches.
- Techniques- Seminar, Group discussion, Debate, Brain storming, peer tutoring, team teaching, concept mapping.
- ICT and Multimedia as technology enhanced communication devises in the teaching of life science
- Web 2.0 tools

- Networking- meaning and scope of Net working in science learning.
- M. learning
- Meaning and importance of planning, Types of planning Year plan, Unit plan, lesson plan and Resource Unit
- lesson plans based on following approaches and Models of teaching- Herbartian Approach, Constructivist Approach, Concept attainment model(CAM), Inquiry Training Model(ITM), 5E Model
- Teaching skills –Definition, Core teaching skills, Components of teaching skills, Teaching skills specially required for Biology teacher.
- Curriculum-Meaning-functions and, Principles of curriculum construction,
- Approaches to curriculum organization'
- Critical analysis of the prevailing secondary school biology syllabus.
- Curriculum reforms in India(NCERT) & abroad (BSCS).

Evolving Assessment Practices in Natural Sciences.

- Reflection and feedback- Assessment of student's performance.
- Objective based evaluation.
- Assessment &Evaluation tools
- Question Bank with different test_items (HOT, LOT Questions),
- Achievement Test.
- Diagnostic tests & Remedial Teaching.
- Modern Trends in Evaluation.
- Continuous comprehensive evaluation.
- Rubrics for assessing of Assignments, Projects, Debates, Seminars and Discussions.

Reflective Reading and Teacher competencies.

- Relevance and scope of Reflective reading.
- Teacher competencies for Science learning
- Standards for Teacher Competence in Educational Assessment of Students.

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- Mangal, S.K., A Text Book of Teaching Life Science,.
- Krathwohl, D.R., B.S.Bloom, and B.B.Maria, Taxonomy of Educational Objectives, Hand Luhmann Book II: Affective Domain, Mckay, New York, 1964.
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- Carl simmons, Claire Hawkins (2009). Teaching ICT-Developing as a Reflective Secondary Teacher, Sage South Asia education,
- Majibulhussan., (2009). Educational Evaluation, A P H Publishing Corporation, New Delhi.
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- http://en.wikipedia.org/wiki/Technological_Pedagogical_Conte...
- http://www.amazon.com/books/dp/0805863567

- http://www.csun.edu/science/biology/index.htm
- http://archive.org/stream/modernmethodsand029422mbp/modernmethodsand029422mbp_djvu.txt
- $\bullet \qquad \qquad \text{http://books.google.com/books/about/Modern_Methods_and_Mater...}$

EDU – 15.10: Advanced Studies: Curriculum and Pedagogic Courses in Social Science Education.

Contents;

- Social Science teaching in digital era- need and significance of technological changes in teaching learning process
- Virtual **learning and Blended learning in Social Science** Scope of virtual learning in Social science and the nature and scope of Blended learning in the present learning environment
- Behaviourist and constructivist approaches in teaching Social Science- how the approaches differ in planning and transactional modalities.
- Global trends in curriculum construction- recent changes in curriculum construction, learner centered & participatory approaches.
- Innovative techniques and strategies of teaching Social Science- modern instructional strategies with constructivist approaches and technological advancement
- Need of research in teaching learning process- Action research and its outcomes, recent research findings in the teaching learning process of Social Science
- Role of Social science in National and international perspective- Challenges to Nationalism, need and significance of international understandings, role of Social Science teaching to promote National and International perspectives.
- Comparison of Community resources and e-resources- important community resource items and e-resources, comparison of its availability and utilization in class room situation
- Trends and developments in Evaluation- modern trends in evaluation, CCE, fixing of rubrics and the scope of grading.

EDU – 15.11: Advanced Studies: Curriculum and Pedagogic Courses in Geography Education.

Objectives: To enable the student-teacher to:

- Understand the concept of teaching- learning process.
- Develop skill in the preparation of various instructional materials for enhancing the effectiveness of instruction and remediation.
- Understand and develop skill in selecting appropriate aims and objectives for teaching the subject.
- Familiarize and apply the instructional management strategies of teaching geography.
- Understand and apply online assessment and competency enhancement avenues.
- Identify net working as a means of personal and professional growth.
- Develop skill in the preparation of different types of schedules and matrix for assessing performance.
- Develop a skill in constructing and administering achievement test & diagnostic tests.
- Familiarize & understand about Modern Trends in Evaluation like Continuous comprehensive evaluation& Rubrics designing

Contents;

- Teaching of Geography in the digital era- need and significance of technological changes in teaching learning process
- Virtual **learning and Blended learning in Geography** /**Social Sciences** Scope of virtual learning in Social science and the nature and scope of Blended learning in the present learning environment
- Behaviourist and constructivist approaches in teaching of Geography- how the approaches differ in planning and transactional modalities.
- Global trends in curriculum construction- recent changes in curriculum construction, learner centered & participatory approaches.
- Innovative techniques and strategies of teaching Geography- modern instructional strategies with constructivist approaches and technological advancement
- Need of research in teaching learning process- Action research and its outcomes, recent research findings in the teaching learning process of Social Science
- Role of Social sciences in the National and international perspective- Challenges to Nationalism, need and significance of international understandings, role of teaching of Social Sciences in promoting National and International integration.
- Comparison of Community resources and e-resources- important community resource items and e-resources, comparison of its availability, sources and utilization in class room situation
- Trends and developments in Evaluation- modern trends in evaluation, CCE, fixing of rubrics and the scope of grading. (References: Semester I, II & III)

EDU – 15.12 : ADVANCED STUDIES: CURRICULUM AND PEDAGOGIC COURSES IN COMMERCE EDUCATION.

Objectives:

- To mould the prospective teacher educators to uphold the professional spirit in diverse angles.
- To familiarize with the modern instructional strategies pertaining to teaching of commerce.
- To make the prospective teachers in commerce as competent in applying various instructional strategies and approaches.
- To get acquaint with modern principles and trends in the designing and organization of commerce curriculum.
- To generate a broad perspectives of e-resources in instructional practices and to develop skill in retrieving and transacting commerce curriculum through e-resources.
- To analyze the global trends in commerce education through comparison between India with other countries.
- To get acquaint with the principles and practices of feedback mechanisms and to become capable of designing and implementing various assessment tools and techniques.

CONTENTS:

- Unit 1: Teaching of commerce in technological era
- Unit 2: Modern instructional strategies, models and approaches for commerce education
- **Unit 3: Curriculum Designing and Modern Instructional Resources**
- **Unit 4** Global Trends and Assessment in Commerce Education

Unit 1: Teaching of commerce in modern era.

- Teacher, Teacher as professional; Continuing Professional Development (CPD), Teacher responsibilities; multifarious roles: facilitator, scaffolder, mentor, social engineer, counsellor, reflective practitioner and digital migrant.
- Scope of commerce in nation's prosperity, Modernization of commerce through technological advancement and LPG.
- Values attained through commerce education.

Unit 2: Modern instructional strategies, models and approaches for commerce education.

- Instructional strategies Co operative learning strategies, Collaborative learning strategies, Scaffolding strategies, Virtual learning and Blended learning, Experiential learning, blended learning, contract learning, problem based learning, teaching thinking skills, graphic organizer. Strategies to deal with Children with Special Needs (CWSN) differently able, slow learner, gifted students in higher secondary classroom.
- Approaches of teaching book keeping and accountancy including computerized accounting.
- Models of teaching Introduction, Operational Heart, Different families Concept Attainment Model, Inquiry Training Model, Group Investigation Model, Cognitive Apprenticeship Model.

Unit 3: Curriculum Designing and Modern Instructional Resources.

- Curriculum Concept, Principles of designing commerce curriculum, Global trends in designing commerce curriculum, Brief outline about NCF (2005) KCF (2007) and its relevance in vocational education.
- Curriculum transaction: meaning and modes Face to face mode and ICT enabled mode, Experience with curriculum designs-Design digital texts and e-content development.
- Concept of e- resources and IT enabled instructional resources, Educational blogs, e-journals, pod casting, e-learning, m- learning, web based learning, learning management system (LMS) in teaching learning of commerce education.

Unit 4: Global Trends and Assessment in Commerce Education.

- Global trends in commerce education, Commerce education with India and USA, Entrepreneurship Education India V/S Japan. Research Trends in Commerce Education, Analysis of Research outcomes in Commerce education both teaching and learning.
- Inter relationship between Technology, Pedagogy and Content, Teacher as Techno-Pedagogue, Scope and purpose of Techno-Pedagogic Content Knowledge Analysis.
- Quantitative and Qualitative Assessment in Commerce education Diagnostic test, Achievement test, Performance test, Reflective assessment Portfolio Assessment, Rubrics, Self reflection, Peer evaluation.

EDU – 15. 13 : ADVANCED STUDIES : CURRICULUM AND PEDAGOGIC COURSES IN HOME SCIENCE EDUCATION

OBJECTIVES: Enable the student teachers to:

- Understand the concept of teaching- learning process.
- Understand and develop skill in selecting appropriate aims and objectives for teaching natural science.
- Familiarize and apply the instructional management strategies of teaching natural science.
- Understand and apply online assessment and competency enhancement avenues.
- Identify net working as a means of personal and professional growth
- Develop skill in the preparation of different types of schedules and matrix for assessing performance.
- Develop a skill in constructing and administering achievement test & diagnostic tests.
- Familiarize & understand about Modern Trends in Evaluation like Continuous comprehensive evaluation& Rubrics designing

CONTENTS:

Multiple taxonomies of Instructional objectives

- Origin, Bloom's Taxonomy of Instructional Objectives (1956),
- Classification by NCERT,
- Mc Cormack and Yagar's classification,
- Technology Integrated Taxonomy –Peck & Wilson (1999),
- Revised Blooms Taxonomy by Anderson and Krathwohl (2001).

Instructional Management: Traditional to Digital.

- Teacher initiated methods- Lecture method, Lecture cum Demonstration, Biographical
- Student initiated methods- Problem solving, Project method, Guided discovery, Experimental and heuristic method.
- Approaches- Inductive-Deductive, Multimedia, Interdisciplinary and Constructivist approaches.
- Techniques- Seminar, Group discussion, Debate, Brain storming, peer tutoring, team teaching, concept mapping.
- ICT and Multimedia as technology enhanced communication devises in the teaching of life science
- Web 2.0 tools

- Networking- meaning and scope of Net working in science learning.
- M. learning
- Meaning and importance of planning, Types of planning Year plan, Unit plan, lesson plan and Resource Unit
- lesson plans based on following approaches and Models of teaching- Herbartian Approach, Constructivist Approach, Concept attainment model(CAM), Inquiry Training Model(ITM), 5E Model
- Teaching skills –Definition, Core teaching skills, Components of teaching skills, Teaching skills specially required for Biology/Home Science teacher.
- Curriculum-Meaning-functions and, Principles of curriculum construction,
- Approaches to curriculum organization'
- Critical analysis of the prevailing secondary school biology syllabus.
- Curriculum reforms in India(NCERT) & abroad (BSCS).

Evolving Assessment Practices in Natural Sciences.

- Reflection and feedback- Assessment of student's performance.
- Objective based evaluation.
- Assessment &Evaluation tools
- Question Bank with different test items (HOT, LOT Questions),
- Achievement Test.
- Diagnostic tests & Remedial Teaching.
- Modern Trends in Evaluation.
- Continuous comprehensive evaluation.
- Rubrics for assessing of Assignments, Projects, Debates, Seminars and Discussions.

Reflective Reading and Teacher competencies.

- Relevance and scope of Reflective reading.
- Teacher competencies for Science learning
- Standards for Teacher Competence in Educational Assessment of Students.

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APPENDIX

CORE PAPERS

Seminar

Any presentation by the student teacher in eight to ten minutes based on the theoretical components. The assessment can be on the following criteria.

• Preparation

Content competency

Report

- Presentation
- Originality

Practical

The aim is to familiarize the design, administration and scoring of psychological tools/Technological Tools. Any practical experience in the use of tools and techniques should be given. Lab experience is an essential component for all student teachers. At least two practical in each semester should be done and a record must be kept for assessment. The criteria for assessment include:

- Attendance in the Psychology lab / Technology lab
- Genuine involvement of the subject
- Recording

- Speed and accuracy of the administration of tool
- Nature of the tool(standardized or not)

Tests

Periodical tests of short duration can be conducted and the average of test scores can be calculated for internal assessment. The tests should include all types of questions and one or two tests must of MCQs. It is also advised to conduct a college level mid semester examination for 25 marks including all types of questions other than essay question as part of internal assessment.

Capacity building Activities

The aim of the activity is to equip student teachers to face the challenges of classroom situation in a multicultural society and also uplift the quality of teacher education in par with the global standards. Any activity that can enrich the student teacher by considering the individual potentialities of learners can be undertaken and a report of the activity should be maintained for assessment. The programmes can be planned based on the following themes.

- Communication skills
- Decision making
- Remediation/ Intervention
- Incorporating creative expressions in teaching
- Innovations in teaching

- Problem solving
- Self awareness and empowerment
- Extension programmes
- Exploiting community resources
- Entrepreneurship

The assessment criteria include:

- Proficiency in the activity
- Applicability in profession
- Recording

- Individual effort
- Challenges overcome

School based activity

The aim of the activity is to equip student teachers proficient in initiation, organization and management of student centered programmes considering the demands of the group. Student teachers can conduct any activity/ programme in connection with the theoretical transaction of Educational Psychology in classroom in order to help school students for meaningful learning. The activity must be conducted during the practice teaching period and a brief report of the work with necessary evidences should be submitted for internal assessment.

N.B. All the reports that come under internal assessment must be clear, short and specific with supporting evidences and not exceeding 10 pages. Hand written documents must be submitted by student teachers.

EDU 401.1 Research Project

A. Tentative Schedule for Minor Project/Action Research/Case Study

Phase I of school internship - Semester - III

- Identification and Selection of the issue/theme
- Searching available information/related studies
- Selection/Adoption/Preparation of tool for data collection/collection of evidences.

Phase II of school internship - Semester - IV

- Selection of sample
- Finalization of the tool and data collection
- Analysis of the data and reporting.

B. Format of the Report of Minor Project/Case Study/Action Research

- Introduction
- Significance of the Study, Objectives of the study, Hypotheses, Related Studies
- Method of Study, Sample selection, Tools used in the study, Data collection, Measures adopted for calculation
- Analysis of the data, findings of the study, implications.

C. Evaluation of the Report

- The problem and Title. (5 marks)
- Statement of Objectives and Hypotheses/research questions (10 marks)
- Sample and Tools for the study including data collection (10 marks)
- Analysis of data-procedures adopted and clarity (10 marks)
- Findings of the study(5 marks)
- Viva-voce (10 marks)- (external assessment only).

D. Viva-voce: 10 marks (viva - voce criteria)

- Thoroughness of the study
- Novelty/originality of the study
- Initiative of the researcher
- Presentation of the study
- Capacity to Substantiate / (2 marks each).

Academic Calendar - Semester - I (working days-100).

Activities/programmes	June	July	August	September	October	Remarks
Admission						
General Orientation (for details refer curriculum)						
College Union Elections						
Theory & CE (EDU 01-05)						
College Based Practicals:						
EDU-101.1Discussion, demonstration & Criticism lessons.						
EDU-101.1 : Micro-teaching (2 skills)						
EDU-101.2 :Yoga, Health & Physical Education.						
EDU-101.3 :Art & Aesthetics Education						
Community based practicals - EDU 103.1: Field trip (optional)						
EDU-103.1 : SUPW/ Community Work/vocational edn.						
Mid Semester Examination-internal						
Semester end examination-external						

Academic Calendar - Semester - II (working days-100).

Activities/programmes	November	December	January	February	March	Remarks
Theory & CE (EDU 06-10)						
College Based Practicals:						
EDU-201.1. Discussion, demonstration & Criticism lessons.						
EDU-201.2 :Yoga, Health & Physical Education.						
EDU-201.3 :Art Education & Theatre practice.						
School based practical - EDU-202.1 : School Induction programme.						
Community based practicals - EDU 201.1: Field trip/Edn						
Tour/Community Extension Project(group) (optional)						
Mid Semester Examination-internal						
Semester end examination-external						

Academic Calendar - Semester - III (working days-100).

Activities/programmes	June	July	August	September	October	November
Theory & CE (EDU 11-13)						
College Based Practicals:						
EDU-301.1 : Art and Aesthetics Education						
School based practicals						
EDU-302.1 : School internship Phase-I						
EDU-301.2 : Health & Physical Education.						
Community based practicals						
EDU 303.1: Community Living Camp.						
Mid Semester Examination-internal						
Semester end examination-external						

Academic Calendar - Semester - IV (working days-100).

Activities/programmes	November	December	January	February	March	Results
Theory –EDU-14.& 15						
EDU-401.1 : Minor Project/Action Research/Case Study.						
EDU-401.2 : School Internship Phase-II.						
EDU-401.3 : Achievement Test						
EDU-401.3: Diagnostic Test						
EDU 401.3: Reflective Journal.						
EDU 401.3: Reading & reflecting on the text						
Mid Semester Examination-internal						
Practical Examination-Phase –I.						
Practical Examination-Phase-II.						
Semester end examination-external						
Publication of Result						April

EVALUATION SHEET

(Teaching practice)

10 10 10 10	0	bserva 2	Score 3	es Sec f lesso 4		Average Score
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			bove) (80-89%) (60-79%	bove) (80-89%) (60-79%) (50	bove) (80-89%) (60-79%) (50-59%)	ent / Very good / Good / Satisfactory / Needsbove) (80-89%) (60-79%) (50-59%) (be

RATING SCALE

(Pre-practice Teaching)

Name	e of the student:					
Co-op	perating /Practicing school:					
Subje	ct:	Standard	Date:			
Topic	::					
Sl. No	Criteria	Excellent (90% and Above)	Very Good (80-89%)	Good (60- 79%)	Satisfactory (50-59%)	Needs Improvement (Below 50%)
1.	Lesson template	A	В	С	D	E
2.	Set induction (Introduction of the lesson)					
3.	Development of the Lesson					
4.	Learning Experiences (Activities)					
5.	Learner Involvement					
6.	Use of Audio-Visual Aids & Technology Integration					
7.	Mastery of the subject matter					
8.	Classroom management					
9.	Closure of the lesson					
10.	Assessment and evaluation					
	Total					
			•	•		
Place	:		Nam	ne and S	ignature of the	he observer:
Date:						

Teacher Observation Standards Rubric- Assessment Tool

Sl. No	Level/ Criteria	Excellent	Very good	Good	Satisfactory	Needs improvement
1	Lesson Template	All components of lesson plan including targeted learning objectives are clearly defined. Reflects all important concepts. Prerequisites are well accommodated. Interdisciplinary connections Clear and accurate class room interaction procedures. Self explanatory to a great extent	All most all components of lesson plan are clearly defined. Reflects all most all important concepts. Prerequisites are accommodated. Attempted for Interdisciplinary connections Clear Class room interaction procedures . Self explanatory	Some components of lesson plan need improvement. Reflects the essential concepts P prerequisites accommodated. More class room interaction procedures are given, but not clear self explanatory to a some extent level.	Some components of the lesson plan need improvement. Pre-requisites included are not properly accommodated. The strategies adopted needs improvement Not self explanatory	Teacher makes content errors. Teacher does not consider prerequisite relationships Teacher plans to use inappropriate strategies Most of the components were not properly defined
2	Set Induction (introduction of the lesson	Sets a conducive environment Intellectual curiosity of the child is very well aroused. Very well refreshes the pre-requisites needed. Very interesting and most relevant introduction	Sets a suitable environment Intellectual curiosity is aroused. Pre-requisites are checked Interesting and relevant introduction	Sets a suitable environment Only a few Pre-requisites refreshed. Interesting Sets a satisfactory environments	Introduction does not suit to the lesson Prerequisites were not appropriate Learning environment needs improvement.	Introduction to the lesson is not at all appropriate Prerequisites not at all considered

3	Development of the	Sets a conducive	Goals were set and	Tries to sequence the	Student initiated	Students not
	Lesson	environment	defined.	content through	responses for	participated in content
		Intellectual curiosity of	Sequenced the content	elaborating student	developing the content	development.
		the child is very well	through elaborating	initiated responses.	needs improvement	
		aroused.	student initiated	Directing	Involvement in learner	No reinforcement(both
		Very well refreshes the	responses.	and/supervising learner	activities is essential.	positive and negative)
		pre-requisites needed.	skilled in directing	activities.	More reinforcers (both	Teacher does not
		Very interesting and	and/supervising learner	develops interest	positive and	recognise the role of
		most relevant	activities.	among students.	negative)are required	student in teaching
		introduction	Creates and sustains	Uses reinforcers (both	for recognition and	learning process
		Uses very appropriate	interest among students	positive and negative)	approval.	Learning environment
		learning experiences	throughout the class.	for recognition and	. Learning environment	developed is not
		Eliciting student	Uses reinforcers (both	approval.	needs improvement.	suitable to the lesson
		responses to	positive and negative)	Identifies learner needs	Learning experience	Learning experience
		carry/drive the lesson	for recognition and	and learning	provided not at all	needs change
		forward	approval.	difficulties.	appropriate.	
		Encouraging student	Skilled in identifying	Sets a satisfactory	Teacher domination in	No student
		enquiry by asking	learner needs and	environments	learning activities	participation
		thought provoking	learning difficulties.	Learning experience		Only a very few
		open ended questions		provided needs	Questions asked are	questions were asked.
		(brainstorming).	Uses appropriate	improvement	not serving the purpose	Most of the questions
		Asking multi-level	learning experiences	Teacher tries to elicit		asked are leading
		(lower, middle/higher	Tries to elicit student	knowledge.	Offers minimum	
		order) questions.	responses to		accommodation to	
		Providing scaffolds in	carry/drive the lesson	Asking different types	support different levels	
		constructing	forward	of question	of learners.	
		knowledge.	Asking thought			
		Providing real world	provoking open ended		•	
		problem based learning	questions.	Chances for		
		environment.	Students are	construction/generation		
		Creating situations for	encouraged to	of knowledge.		
		the development of	construct/generate	Offers some		
		values.	knowledge.	accommodation to		
		Focusing on	Providing life related	support different levels		
		knowledge	problems.	of learners.		

		construction/generation . Relates present learning with previous and future learning.(opportunity for applying knowledge) Accommodation to support different levels of learners.	Tries to individualise instruction. Accommodation to support different levels of learners.			
4	Learning Experiences (Activities)	Life related to the maximum, variety of activities used, interesting Relevant Child friendly Participatory Satisfying all levels of learners Adequate number of activities	Life related Variety of activities were included, interesting Participatory Considered the different levels of learners Adequate number of activities included	Life related Participation of some learners, interesting to some extent Satisfies some learners only Minimum number of activities were included	Not directly related to life Minimum activities used Does not consider the different levels of learners	Not related to life Activities used are not appropriate and child friendly
5	Learner Involvement	Learners are actively constructing relationships and create metaphors. Learners are actively engaged in dialogue both with the teacher and one another. Learner autonomy and initiative is well appreciated.	Learners are constructing relationships and create metaphors. Encourages learners to engage in dialogue both with the teacher and one another. Learner autonomy and initiative are good.	Learners are actively constructing relationships and create metaphors. Learners are engaged in dialogue both with the teacher and one another. Encourage and accept learner autonomy and	More Learners involvement in constructing knowledge is expected. Learners are expected to have more dialogue both with the teacher and one another	No learner involvement in knowledge construction. Teacher-learner interaction and learner-learner interaction is very poor

		All learners are participating in the teaching learning process		initiative.		
6	Use of Audio-Visual Aids & Technology Integration	Proposed technology use is engaging, age appropriate, beneficial to learning and supportive of higher level thinking skills. Writings in the Board – well planned, neat and legible. Technology is integrated to the success of the lesson plan A clear relationship between use of technology and student learning Selects and uses appropriate audiovisual aids.	Proposed technology use is engaging, age appropriate, beneficial to learning and supportive of certain higher level thinking skills. Writings were planned Selects and uses appropriate audiovisual aids.	Proposed technology use is engaging and, age appropriate, but not clear how it enhances student learning Selects and uses appropriate audiovisual aids some times. Black board was used to the minimum	Proposed technology use is age appropriate and Audio visual aids are used to the minimum	Proposed technology use is not engaging, not age appropriate, not beneficial to learning and not at all supportive of certain higher level thinking skills. No use of Audio visual aids.
7	Mastery of the subject matter	Clear understanding of the objectives and how it to be delivered. Current research and data includes in the lesson. Thorough and deep content knowledge Knowledge of accurate	Clear understanding of the objectives and how it to be delivered Deep content knowledge Necessary content is known to the teacher Content knowledge is accurate	Content knowledge is the minimum Knowledge of supplementary materials to some extent level	More content knowledge is a must Knowledge of supplementary materials to minimum	Teacher is not clear about the objectives and how to deliver it. Poor content knowledge Teacher makes errors in content

		1111	Management		1	
		and updated content	Necessary			
		Vast knowledge of the	supplementary			
		supplementary	materials were clear to			
		materials.	the teacher			
8		Develops good rapport	Teacher has a	Teacher doesn't give	Learners are not at all	Learners are
	Class Management	with learners	command on students	much importance to	disciplined	wandering/playing in
		Names of all learners	Calls pupils/groups by	discipline		the class
		are known to the	their names			
		teacher	Stops misconduct	Learners are restless	Difficult to control in	
		Deals with misconduct	Learners acts according	during group work	group work	Learners are forced to
		very effectively	to the			do group work
		Learners are self	direction of teachers.			Teacher punishes for
		disciplined.	Learners acts			their misbehave
		Recognises attending	according to the			then impochave
		and non attending	direction of the teacher			
		behaviours	Learner Manages			
		Keeps learners in eye	group activities.			
		_	group activities.			
		span Learners do group				
		works very systematic	D : : : :	D (d)	· ·	N
9	C1 C.1	Summarised the lesson	Reviews major points	Repeats the main	Summarises some	No review of the
	Closure of the	with respect to each	in the lesson	points of the lesson	points of the lesson	content is done
	Lesson	learning point				
		effectively	Provide reflective	After each class		
		Provides situations for	practice as a means of	student is advised to		
		reflective practice after	evaluation	reflect on the class.		
		each class.				Reflection is not a
		Provides appropriate	Provides remedial		Teacher does not insist	matter of the teacher
		feedback.	measures on alternate		on reflection	
		Provides remedial	days			
		measures daily.				
		Provides enrichment				
		activities for				
		reinforcing the				
		constructed knowledge.				
		constructed knowledge.			J	

10	Assessment and	Questions for authentic				
	evaluation	assessment of all	assessment of all most	assessment of some	assessment of few	assessment of all
		targeted objectives are	all targeted objectives	targeted objectives are	targeted objectives are	targeted objectives are
		included	are included	included	included	not included
		A clear relationship is	No clear relationship is			
		evident between	evident between	evident between some	evident between few	evident between
		learning objectives and				
		assessment of				
		learning.	learning.	learning.	learning.	learning.
		Assessment tools	Assessment tools	Assessment tools	Assessment tools	Assessment tools do
		contain topic specific	contain majority topic	contain some topic	contain few topic	not contain topic
		criteria to serve as a	specific criteria to	specific criteria to	specific criteria to	specific criteria to
		helpful scaffold for	serve as a helpful			
		learners	scaffold for learners	scaffold for learners	scaffold for learners	scaffold for learners
		Provision for formative	Provision for formative	Provision for formative	Minimum provision for	No provision for
		evaluation through out	evaluation to a greater	evaluation to some	formative evaluation	formative evaluation.
		the session	extent	extent		