UNIVERSITY OF CALICUT (Abstract)

B.Ed Programme – Revised Curriculum – approved - implemented with effect from 2012 admission - orders issued.

GENERAL & ACADEMIC BRANCH-IV 'J' SECTION

 No. GA IV/J2/4396/10 Vol II
 Dated, Calicut University PO, 22.08.2012

 Read: 1. U.O. No.GAI/J2/2328/06 dated 04.12.2006.

2. Item No.1 of the minutes of the meeting of Board of Studies in Education UG held on 31.07.2012.

3. Orders of the Vice-Chancellor on 14.08.2012 in file of even no.

<u>O R D E R</u>

As per paper read as (1) above, Modified course structure, scheme and mode of examination and the Regulations of B.Ed course has been implemented with effect from 2006 admissions.

The meeting of Board of Studies in Education (UG) held on 31.07.2012 resolved to approve the Revised Curriculum for B.Ed programme with effect from 2012 admissions as per paper read as (2) above.

The Vice-Chancellor, considering the exigency, exercising the powers of the Academic Council, has approved the minutes, subject to the ratification of the Academic Council as per paper read as (3) above.

Sanction has, therefore, been accorded to implement the Revised Curriculum for B.Ed programme, with effect from 2012 admissions.

Orders are issued accordingly. The Revised Curriculum for B.Ed programme is available in the University website – <u>www.universityofcalicut.info</u>

Sd/-ASSISTANT REGISTRAR(G&A IV) For REGISTRAR

То

The Principals of all affiliated Training Colleges and CUTECS

Copy to:

The Chairman, Board of Studies in Education (UG), The Controller of Examinations/JCE-I,JCE-7 B.Ed sn/ Tabulation B.Ed/Digital Wing (with a request to upload the curriculum) Forwarded/By Order

SECTION OFFICER

UNIVERSITY OF CALICUT



Re structuring of Curriculum Credit Based Semester and Grading System

Programme: Bachelor of Education (B Ed) With effect from 2012-2013 Academic Year

BOARD OF STUDIES IN EDUCATION (UG)

P R E F A C E

'Towards Preparing Professional and Humane Teacher' is the title theme of National Curriculum Framework for teacher education 2009. Teacher education is at the base of all educational system. Teaching is a profession and teacher education is a process of professional preparation of teachers. Teacher education needs to build capacities in the teacher to construct knowledge, to deal with different contexts and to develop the abilities to discern and judge in moments of uncertainty and fluidity, characteristics teaching learning environment. The teacher education has to function under a global canvas created by the concepts of 'learning society', 'learning to learn', and 'inclusive education'. With a view to developing reflective teachers with positive attitudes, values and perspective, along with skill for the craft of teaching, the University of Calicut revises its seven year old existing teacher education curriculum. It is hoped that this revised B. Ed curriculum will help to prepare teachers to care for children, enjoy to be with them, seek knowledge, own responsibility towards society and work to build a new world and to have finer human sensibilities

In the process of revising the B. Ed curriculum the Board of Studies in Education (UG) received valuable inputs from teacher educators of long standing and experience. We also had the benefit of reviewing similar exercises of revamping teacher education in other Universities. An approach paper and a framework were formulated in a workshop held on 17th March 2012. The initial draft curriculum was developed based on the ideas generated in series of intensive deliberation by the members of the Board of Studies, eminent scholars and teacher educators of Farook Training College, NSS Training College and GCTE Calicut. The draft curriculum was subsequently scrutinized by an expert committee.

It is with profound respect and gratitude we retrospect the inspiring guidance and patronage extended by the Honorable Vice Chancellor Dr. Abdul Salam in this venture. The Board of Studies specially places on record its deep gratitude to Prof. K. Raveendranath, the Pro Vice Chancellor for guiding us in the workshop.

We sincerely acknowledge the valuable contributions made by the faculty members of Farook Training College, Calicut, NSS training College, Ottapalam and Government College of Teacher Education, Calicut and all the principals of 74 Teacher Education institutions under the University of Calicut.

The Board of studies dedicates this revised curriculum to the teacher education community. Best Wishes.

> Prof. A. Faziluddin Chairman Board of Studies (UG) & Dean Faculty of Education, University of Calicut

The Board of Studies in Education (UG)

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	Chairman, Board of Studies in Education (PG)

RULES AND REGULATIONS OF THE PROGRAMME

UNIVERSITY OF CALICUT BACHELOR OF EDUCATION (B.Ed) DEGREE COURSE (REVISED CURRICULUM-2012)

INTRODUCTION

It is well known that the quality of school education is determined primarily by teacher competence, sensitivity and teacher motivation. It is common knowledge too that the academic and professional standards of teachers are achieved only by a systematically conceived teacher education programme. NCFTE emphasizes a symbiotic relationship between teacher education and school education. Hence teacher education should be in consonance with school education. As envisioned by NCFTE 2009 the University of Calicut revises its teacher education programme for preparing professionally empowered teachers. The programme focuses on process orientedness and ICT integrated pedagogy so as to achieve global standards. The Board of Studies hopes that this revised Teacher Education Curriculum has tremendous potential to imbue the prospective teachers with the aspirations, knowledge base, repertoire of pedagogic capacities and human attitudes.

The B.Ed programme is revised by implementing credit semester system with indirect grading. It shall be introduced with effect from academic year 2012-13.

Definitions

Programme: Programme means a patterned combination and sequences of courses in the discipline education spreading over two semesters, the successful completion of which would lead to the award of a degree in education.

Credit: Credit is a notional representation of a fixed amount of student's study hours devoted to various aspects of study such as attending lectures, working with assignments, projects etc gathering information from library and internet resources, going through practical work and appearing tests. One credit for B.Ed programme is deemed equivalent to 15 study hours.

Course: Course is a complete integrated series of lessons / instructional content which are identified by a common title.

Semester System: An academic system with programme designed to be completed progressively within a period covering multiples of half an academic year.

Indirect Grading: A mode of evaluation in which the students are assessed using conventional numerical marking mode and subsequently marks so awarded are converted into letter grade.

Duration of the Programme: The B.Ed Programme is of two semesters spread over one year duration. The first semester shall be 90 working days and second semester shall be 110 working days. In the second semester there shall be a minimum of 30 working days for practice teaching cum school internship.

Eligibility for Admission: Eligibility for Admission and norms for admission to B.Ed Degree programme shall be according to the rules framed by the Government/ University of Calicut from time to time.

Medium of Instruction: The medium of instruction shall be English for all courses. However, in case of languages instruction may be given partly in the language concerned. Medium of examination shall be English/Malayalam.

Attendance: A student shall be considered to have satisfactory attendance to appear the examination if he/she attends not less than 80% of the total working days for theory classes and attends fully for 30 practice teaching days. No condonation will be there for lack of attendance of practice teaching days. Condonation for lack of attendance of theory classes will be as per university rules.

A.THEORY COURSES	B. PRACTICAL COURSES
i) Core Courses	i) College Based Practicals
ii) Optional Courses	ii) Community Based Practicals
	iii) School Based Practicals

STRUCTURE OF THE B.Ed. PROGRAMME

PATTERN OF COURSES FOR SEMESTER I					
A.THEORY COURSE					
Core Course I	5 Credit (Theory)+ 1 Credit	(Process)			
Core Course II	5 Credit (Theory)+ 1 Credit	(Process)			
Core Course III	Core Course III 5 Credit (Theory)+ 1 Credit (Process)				
Optional Course I 5 Credit (Theory)+ 1 Credit (Process)					
Optional Course II	5 Credit (Theory)+ 1 Credit	(Process)			
B.PRACTICAL COURSE					
College Based Practicals & Community Based Practicals 6 Credits					

PATTERN OF COURSES FOR II SEMESTER

A.THEORY COURSE

Core Course IV	5 Credit (Theory)+ 1 Credit (Process)
Core Course V	5 Credit (Theory)+ 1 Credit (Process)
Core Course VI	5 Credit (Theory)+ 1 Credit (Process)
Optional Course III	5 Credit (Theory)+ 1 Credit (Process)
Optional Course IV	5 Credit (Theory)+ 1 Credit (Process)
B.PRACTICAL COURSE	
School Based Practicals	10 credits

THEORY COURSES (Details)

1. Semester I:

CORE COURSES				
Code	Title	Instructional	Process	
Code	line	hours		
EDU 101	Perspectives on Education	75 hrs	15hrs	
	1			
EDU 102	Psychology of the Learner	75 hrs	15hrs	
EDU 103	Technology and Informatics in Education	75 hrs	15hrs	

	OPTIONAL COURSES-I			
Code	Title	Instructional hours	Process	
EDU 111	Methodology of Teaching Arabic	75 hrs	15hrs	
EDU 112	Methodology of Teaching English	75 hrs	15hrs	
EDU 113	Methodology of Teaching Hindi	75 hrs	15hrs	
EDU 114	Methodology of Teaching Malayalam	75 hrs	15hrs	
EDU 115	Methodology of Teaching Sanskrit	75 hrs	15hrs	
EDU 116	Methodology of Teaching Tamil	75 hrs	15hrs	
EDU 117	Methodology of Teaching Urdu	75 hrs	15hrs	
EDU 118	Methodology of Teaching Commerce	75 hrs	15hrs	
EDU 119	Methodology of Teaching Computer Science	75 hrs	15hrs	
EDU 120	Methodology of Teaching Mathematics	75 hrs	15hrs	
EDU 121	Methodology of Teaching Natural Science	75 hrs	15hrs	
EDU 122	Methodology of Teaching Physical Science	75 hrs	15hrs	
EDU 123	Methodology of Teaching Social Science	75 hrs	15hrs	

	OPTIONAL COURSES-II		
EDU 131	Pedagogic Practices in Arabic	75 hrs	15hrs
EDU 132	Pedagogic Practices in English	75 hrs	15hrs
EDU 133	Pedagogic Practices in Hindi	75 hrs	15hrs
EDU 134	Pedagogic Practices in Malayalam	75 hrs	15hrs
EDU 135	Pedagogic Practices in Sanskrit	75 hrs	15hrs

EDU 136	Pedagogic Practices in Tamil	75 hrs	15hrs
EDU 137	Pedagogic Practices in Urdu	75 hrs	15hrs
EDU 138	Pedagogic Practices in Commerce	75 hrs	15hrs
EDU 139	Pedagogic Practices in Computer Science	75 hrs	15hrs
EDU 140	Pedagogic Practices in Mathematics	75 hrs	15hrs
EDU 141	Pedagogic Practices in Natural Science	75 hrs	15hrs
EDU 142	Pedagogic Practices in Physical Science	75 hrs	15hrs
EDU 143	Pedagogic Practices in Social Science	75 hrs	15hrs

2. Semester II:

	CORE COURSES		
Code	Title	Instructional hours	Process
EDU 104.	Education in the Socio-Cultural Context	75 hrs	15hrs
EDU 105.	Psychology of Learning	75 hrs	15hrs
EDU 106.	Educational Management	75 hrs	15hrs

	OPTIONAL COURSES-III			
Code	Title	Instructional hours	Process	
EDU151	Curriculum and Resources of Arabic	75 hrs	15hrs	
EDU152	Curriculum and Resources of English	75 hrs	15hrs	
EDU153	Curriculum and Resources of Hindi	75 hrs	15hrs	
EDU154	Curriculum and Resources of Malayalam	75 hrs	15hrs	
EDU155	Curriculum and Resources of Sanskrit	75 hrs	15hrs	
EDU156	Curriculum and Resources of Tamil	75 hrs	15hrs	
EDU157	Curriculum and Resources of Urdu	75 hrs	15hrs	
EDU158	Curriculum and Resources of Commerce	75 hrs	15hrs	
EDU159	Curriculum and Resources of Computer Science	75 hrs	15hrs	
EDU160	Curriculum and Resources of Mathematics	75 hrs	15hrs	
EDU161	Curriculum and Resources of Natural Science	75 hrs	15hrs	
EDU162	Curriculum and Resources of Physical Science	75 hrs	15hrs	
EDU163	Curriculum and Resources of Social Science	75 hrs	15hrs	

	OPTIONAL COURSES-IV		
Code	Title	Instructional	Process
		hours	
EDU171	Professionalizing Arabic Education	75 hrs	15hrs
EDU172	Professionalizing English Education	75 hrs	15hrs
EDU173	Professionalizing Hindi Education	75 hrs	15hrs

EDU174	Professionalizing Malayalam Education	75 hrs	15hrs
EDU175	Professionalizing Sanskrit Education	75 hrs	15hrs
EDU176	Professionalizing Tamil Education	75 hrs	15hrs
EDU177	Professionalizing Urdu Education	75 hrs	15hrs
EDU178	Professionalizing Commerce Education	75 hrs	15hrs
EDU179	Professionalizing Computer Science Education	75 hrs	15hrs
EDU180	Professionalizing Mathematics Education	75 hrs	15hrs
EDU181	Professionalizing Natural Science Education	75 hrs	15hrs
EDU182	Professionalizing Physical Science Education	75 hrs	15hrs
EDU183	Professionalizing Social Science Education	75 hrs	15hrs

PRACTICAL COURSE (DETAILS)

1.	EDU 201 Teaching practice cum School Internship	(200 marks)
2.	EDU 202 College Based, Community Based and	
	Other School Based Practicals	(200 marks)

MARK DISTRIBUTION OF PRACTICALS

(EDU 201 and EDU 202)

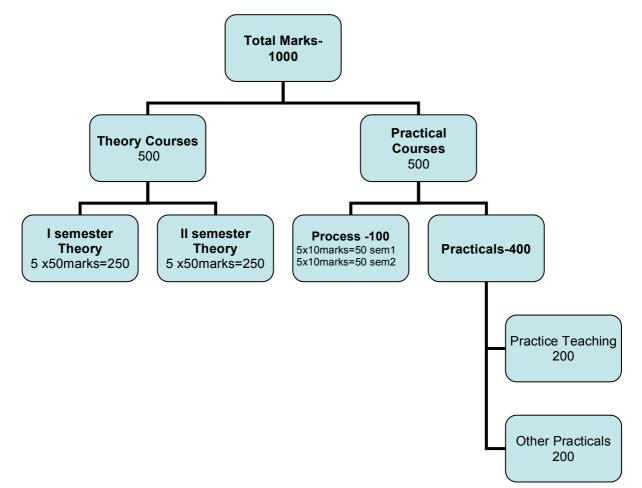
1. Practice teaching cum School internship	(200 Marks)
2. Micro Teaching	(25 Marks)
3. Discussion Lessons	(20 Marks)
4. Demonstration Lessons	(10 Marks)
5. Criticism lessons	(40 Marks)
6. Preparation of Teaching Aids	(20 Marks)
7. Field Trip / Study tour	(15 Marks)
8. Field work with Community Based Programmes & SUPW	(25 Marks)
9. Community Living Camp	(10 Marks)
10. Preparation of Achievement Tests	(20 Marks)
11. Physical Education	(15 Marks)

200 WORKING DAYS DISTRIBUTION

1 Semester	II Semester	
90 Days	110 Days	
(75+15)	(75+30+5)	
Theory Course + Practicals	Theory Course + School Internship	
75 x 6 Hours = 450 Hours	75 x 6 Hours = 450 Hours	
(75 Hrs x $5 = 375$ Hrs for theory Courses	(75 Hrs x $5 = 375$ Hrs for theory Courses	
& 75 Hrs for Processes of theory courses)	& 75 Hrs for Processes of theory courses)	
$15 \ge 6$ Hours = 90 Hours for Practicals	5×6 Hours = 30 for co-curricular activities	
	30×5 Hours = 150 Hrs for practice teaching	
	cum internship.	

Evaluation: For the theory courses the academic growth of students is evaluated through the continuous evaluation of the prescribed processes and end semester examination. To make continuous evaluation transparent, students should be made aware of the modus operandi of evaluation process and the evaluation criteria by the concerned teacher well in advance. The score indicating their level of performance in prescribed processes is to be published periodically. All products/ documents brought for evaluation should be kept in the institution, for one more semester and shall be made available for verification by the University. The mark sheets of CE on the prescribed processes of theory courses shall be submitted to the University immediately after the closure of each semester. Students may seek redress of grievances of continuous evaluation at the teacher level or at the College Evaluation Committee level.

MARK DISTRIBUTION



SCHEME OF ASSESSMENT

SEMESTER-I

		End Sem Examination		Process	Total
A.C	ORE PAPERS	Duration of	Marks	(Internal)	Total
		Exam			
1	EDU 101 Perspectives on Education	2 Hours	50	10	60
2	EDU 102 Psychology of the Learner	2 Hours	50	10	60
3	EDU 103 Technology and Informatics	2 Hours	50	10	60
	in Education				

B.OPTIONAL PAPERS

4	Methodology of Teaching *	2 Hours	50	10	60
	(EDU 111-123)				
5	Pedagogic Practices in *	2 Hours	50	10	60
	(EDU 131-143)				
	TOTAL		250	50	300

*Arabic/English/Hindi/Malayalam/Sanskrit/Tamil/Urdu/Commerce/Computer

Science/Mathematics/Natural Science/Physical Science/Social Studies

SEMESTER-II

A.CORE PAPERS		End Semester Examination (Theory)		Process	Total
		Duration of	Marks	(Internal)	TUTAL
		Exam			
1	EDU 104 Education in the Socio-	2 Hours	50	10	60
	cultural Context				
2	EDU 105 Psychology of Learning	2 Hours	50	10	60
3	EDU 106 Educational Management	2 Hours	50	10	60

B.OPTIONAL PAPERS

4	Curriculum & resources of *	2 Hours	50	10	60
	(EDU 151-163)				
5	Professionalizing * Education	2 Hours	50	10	60
	(EDU 171-183)				
	TOTAL		250	50	300

*Arabic/English/Hindi/Malayalam/Sanskrit/Tamil/Urdu/Commerce/Computer

Science/Mathematics/Natural Science/Physical Science/Social Science

Pattern of Questions:

Type of Question	Number of Questions	Marks
Very Short Answer Type	8	8
Short Answer Type	8	16
Short Essay/Problem Solving Type	4/6	16
Essay Type	1/2	10
Total	21	50

GRADING

Indirect Grading will be the mode of evaluation in which the students are assessed using conventional numerical marking mode and subsequently marks so awarded are converted into letter grade.

Each theory course and practical course will be assessed in **nine point grading system** whereas the overall performance of the students will be assessed in terms of **five point grading**. A separate minimum of D+ grade is required for a pass in each course and an overall grade of D and above is required for a pass in the B Ed programme.

THE NINE POINT GRADING SYSTEM FOR EACH THEORY COURSE AND PRACTICAL COURSE

Score Interval in %	Grade	Grade Point
80 and above	A+	9
75-79	А	8
70-74	B+	7
65-69	В	6
60-64	C+	5
55-59	С	4
50-54	D+	3
45-49	D	2
Below 45	Е	1

FIVE POINT GRADE FOR OVERALL GRADING

Grade Point Range	Grade
7.20 to 9	А
5.40 to 7.19	В
3.60 to 5.39	С
1.80 to 3.59	D
1 to 1.79	E

Credit Completion or Credit Acquisition may be considered to take place after the learner has successfully cleared all the evaluation criteria with respect to a single course. Thus a learner who successfully completes a 6 CP (Credit Point) course may be considered to have collected or acquired 6 credits. His level of performance above the minimum prescribed level (viz, grades /marks obtained) has no bearing on the number of credits collected or acquired. A learner keeps on adding more and more credits as he completes successfully more and more courses. Thus the learner 'accumulates' course wise credits.

Practical Examination: Practical examination will be conducted by an External Examination Board constituted by the University. The present practice of zonal boards is to be continued. The number of Practical Examination Boards may be increased to 20 so as to carry out the whole procedure in short duration. The duration of examination of a centre will be two days except for those with 250 intake.

One examiner will conduct the practical examination for one optional. If the number of candidates is more than 20, an additional examiner will be appointed. All the records /products of item 1 to 11 of practicals will be verified by the board. However the marks awarded internally for microteaching, discussion lessons, demonstration lessons, criticism lessons, teaching aids and achievement tests only will be standardized.

The Board shall observe and evaluate the teaching competency of all candidates and other practical works. The board will evaluate their teaching competency for a maximum of 100 marks. The maximum marks for internal assessment of student teachers for practice teaching by the concerned institution shall also be 100, so that the maximum marks for practice teaching is 200.

All candidates should appear for a viva voce. The viva voce is confined to i. Teaching done for practical exam ii. The methodology used in the lesson iii. The learning resources used for teaching that lesson and iv. The evaluation procedure.

PRACTICALS (EDU 201 and EDU 202) College Based + Community Based Practicals-6 Credit (90 hours)

A) College Based Practicals

2. Micro Teaching (25 Marks)

Objectives:	Activity & Outputs		
i) To develop specific teaching skills	i) Student teachers shall practice and refine		
ii) To build up confidence in teaching	at least 3 teaching skills through micro		
iii) To practice and refine teaching skills	practices and their Integration in Link		
iv) To provide feedback for	practice.		
modification of teaching behavior	ii) They have to prepare micro lessons, and		
	receive feed back from peers and teacher		
	educators.		
	iii) Keep a record of micro lessons on the		
	skills practiced and improved upon.		

3. Discussion Lessons (20 Marks)

Objectives:	Activity& Outputs
i) To understand the concept and importance of Lesson Planning	i) Student teachers
in classroom teaching	shall prepare at
ii) To strengthen the conceptions of lesson planning	least 5
iii) To provide guidelines to you during teaching practice	discussion
iv) To maintain the sequence of content presentation	lesson plans in
v) To provide you a forum to discuss various facts of Lesson	constructivist
Planning	format (Vlll, lX
vi) To develop attitude towards teaching	& X) in groups
vii) To prepare lesson plans on the basis of various	and keep a
approaches/methods of teaching	record of
viii) To discuss lesson plans with peers and teacher educators	them.
ix) To improve the competency of lesson planning	

4. Demonstration Lessons (10 Marks)

Ob	jectives:	Act	ivity & Outputs
i)	To observe teaching skills, and the	i)	1 Video lesson.
	participation of students in the lessons	ii)	4 Demonstration lessons in
ii)	To observe teacher/teaching behavior in		constructivist format by teacher
	various teaching learning situations		educators and school mentors.
		iii)	Observe demonstration classes with
			observation schedules.
		iv)	Keep a report of the observations made
			during demonstration lessons.

5. Criticism lessons (40 Marks)

Objectives:		Activity & Outputs	
i)	To provide opportunity	i)	Criticism classes should be arranged optional wise.
	for a macro lesson in	ii)	All student teachers shall have dual role in this activity.
	practice	iii)	They have to conduct a macro lesson for duration of 40
ii)	To develop the skill of		minutes in VIII or IX (X1 for commerce and Computer
	structured observation		Science) and also observe the classes of their peers.
	of classroom teaching	iv)	A student teacher should observe and record criticisms of
iii)	To get experience of		at least ten lessons (10) of his/her peers in the subject. For
	preparing lesson plans		this purpose criticism class schedule and topics for them
	for classroom teaching		shall be published well in advance.
iv)	To provide	v)	Each student teacher shall prepare ten (10) lesson plans of
	opportunity for		the schedule and attend those criticism classes.
	debating on teaching	vi)	Observers will be permitted for criticism sessions only
	performance.		with self prepared lesson plans.
v)	To pool feedback of all	vii)	If the number of students in any optional falls below
	observers of a specific		eleven (11) repeat lessons should be conducted so as to
	lessons.		enable them observe and record criticisms of ten lessons.

6. Preparation of Teaching Aids (20 Marks)

Objectives:		Activity & Outputs		
i)	To nurture ideas of	i)	Preparation of hand made teaching aids/ learning aids	
	preparing relevant		from locally available resources. (Improvisation) (10	
	teaching aids for		Marks). Student teachers shall visualize relevant aids in	
	identified content areas		their subject areas and bring necessary materials to the	
ii)	To develop creative		college and prepare two models/teaching aids in a workshop.	
	instincts	ii)	Charts and other graphic aids (10 Marks) Student teachers shall	
iii)	To give chance for		prepare charts, sketches, Symbols etc in a workshop conducted	
	expression of ideas		for the purpose. 5 Charts- (Tabular Charts, Flow/Process	
iv)	To develop feeling of		charts. Tree charts. Flip charts etc)	
	conservation of thrown			
	out materials,			

B) Community Based Practicals.

7. Field Trip / Study tour (15 Marks)

Ol	Objectives:		Activity & Outputs			
i)	To acquire the	i)	Student teachers shall conduct a field trip/Study tour related to			
	experience of		their optional subjects.			
	planning and	ii)	(If the number of students in any optional is too short to			
	organization of a		organize an independent field trip/Study tour of their own,			
	field trip/Study		they can join with allied optional.)			
	tour.	iii)	Identify a spot			
ii)	To understand the	iv)	Specify the objectives of the field trip/Study tour			
	environment around.	v)	Formulate a detailed plan			
		vi)	Carry out the plan accordingly			
		vii)	Ascertain the impact of the Trip by undergoing an interview			
			with the Teacher educator			
		viii) Find out the problems faced			
		ix)	Propose suggestions for organizing a meaningful field trip.			
		x)	Output: A report incorporating all these			

Oł	ojectives:	Activity & Outputs		
i)	To acquire the requisite	A) Field work component:		
	competencies in planning and	Survey of social importance		
	executing socially useful	• Organization of campaign on one of themes such		
	Programmes	as nutrition, sanitation, drug, consumer education,		
ii)	To develop social sensitivity and	blood donation, AIDS, environment, gender		
	consciousness and their human	issues, population education, etc.		
	sensibilities	Cleaning public places/Beautification of campus		
iii)	To seek co-operation and support	• Pain and palliative service.		
	from local people	B) SUPW		
iv)	To develop dignity of labour	Book binding, craft/art work, soap making, paper bag		
v)	To produce products which	making, candle making, File making, pot making,		
	are useful to society.	stitching and embroidery, glass painting etc,		
vi)	Student teachers shall select	Output		
	one activity from field work	A brief report including the objectives and		
	components and two from	methodology adopted.		
	SUPW components			

8. Field work with Community Based Programme & SUPW (25 Marks)

9. Three days Community Living Camp (10 Marks)							
Objectives:	Activity & Outputs						
 i) To realize the aim of 'learning to live together' ii) To equip the students to live cooperatively in a society iii) To impart social values and skills (adjustment, sharing, tolerance, empathy etc) iv) To impart personal values and skills (leadership, initiative, self confidence, positive attitude, creativity etc v) To provide chances for democratic living, managing events, division of labour and dignity of labour. 	 Programmes for personal development Programmes for personal development Chances to live together by sharing duties and responsibilities Practices enhancing social values and skills Manage events of various dimensions Output A report including the objectives and activities. The report may also contain some photographs related to activity. 						

9. Three days Community Living Camp (10 Marks)

C) School Based Practicals 10 Credit (150 hours)

1. School internship (Practice teaching)

(200 Marks – 100 internally evaluated and 100 externally evaluated)

Practice Teaching shall be scheduled after 50 working days of the second semester so that the student teachers could complete 80% of the theory courses before school internship.

Oł	Objectives:		tivity & Outputs
i)	To learn to set	•	Student teachers should undergo school internship at secondary
	realistic goals in		schools (senior secondary schools for Commerce and Computer
	terms of learning,		Science) following Kerala State Syllabus.
	curricular content	•	The duration of the Internship Programme is (30) thirty working
	and pedagogic		days for the development of teaching competence.
	practice.	•	They will plan and deliver at least (30) thirty lessons under the
ii)	To choose,		supervision of teacher educators and/ or school mentors.
	design, organize	•	They should develop appropriate teaching and learning materials
	and conduct		(aids) to present the lessons effectively.
	meaningful	•	It is desirable that they shall develop at least two lessons (i.e., IT
	classroom		enabled) using ICT.
	activities.	•	During practice teaching student teachers should get feedback
iii)	To participate in		from their mentors and teacher educators to improve teaching
	school activities.		competency.
iv)	To develop and	•	It is desirable that the trainees shall observe some lessons of their
	maintain teaching		peers or school mentors at the internship schools. During school
	learning		internship the student teachers should support the school
	resources.		authorities in organizing curricular, co-curricular and
v)	To analyze and		extracurricular activities.
	reflect on	•	Internship needs to be worked as a partnership model with the
	teaching.		school.
vi)	To observe and	•	Student teachers are expected to keep a 'Reflective Journal' that
	reflect on classroom		would help him revisit his experiences in the classroom over the
	practices.		period of internship (at least one lesson every week).
		1	

vii) To maintain	• Reflective Journal would include a brief description of how the			
reflective	class was conducted, how learners responded, reflective			
journals.	statements about his preparedness for the class, responses to			
viii) To develop	learners' questions, capacity to include learners sharing of their			
positive attitude	experiences, responses towards their errors, difficulties in			
towards teaching	comprehending new ideas and concepts, issues of discipline,			
as a profession.	organization and management of group, individual and group			
	activities etc.			
	Output			
	1. 30 lesson plans			
	2. Teaching learning materials prepared and used			
	3. Reflective Journal			

10. Preparation of Achievement Tests (Learner Assessment)

(20 Marks)

O	Objectives		Activity & Outputs		
i)	To provide hands on	•	Student teachers shall prepare two achievement tests		
	experiences on the		according to prepared blue prints and administer		
	preparation of achievement		them in their classes at the closure of their practice		
	tests.		teaching.		
ii)	To improve the	•	These tests should be in tune with the evaluation		
	competency of		pattern prevalent in our schools.		
	construction of various	Oı	ıtput		
	types of test items	•	Two achievement tests with design, blue print,		
iii)	To master the techniques		Question paper, Scoring key/Marking scheme and		
	of term end evaluation		Question wise analysis		

	Objectives		Activity & Outputs
i)	To develop awareness about	•	Conduct two physical education classes and one health
	health and physical fitness		education class with prepared lesson plans.
ii)	To develop skill in handling	•	Preparations for lesson planning should be made in the
	physical and health		first semester.
	education classes	0	utput
		•	Prepared lesson plans

11. Physical Education (15 Marks)

OBJECTIVES OF THE B. Ed PROGRAMME

OBJECTIVES OF THE B. Ed PROGRAMME

The prospective teacher:

- 1. Understands the meaning, need and significance of education
- 2. Understand the various prospective on education
- 3. Understands education in the socio-cultural context
- 4. Understands the current issues and challenges of Indian Education.
- 5. Understands the developmental processes and needs of children and adolescents and role of teachers in facilitating developments.
- 6. Understands the various theories of personality, factors affecting individual differences and the special problems of exceptional children.
- 7. Acquaints with the prominent theories of learning, retention, and transfer of training and the strategies to facilitate each one of these.
- 8. Familiarizes with the psychological principles underlying 'curriculum transactions, psychological testing, management and guidance and counseling.
- Understands the essentials of evaluation, technology of education, democratic education, child rights education, school management, value education and physical & health education.
- 10. Understands basic assumptions of ICT its scope in the area of teaching and learning.
- 11. Imbibes knowledge and develops an understanding of methods and strategies of teaching in High schools and Higher Secondary schools, and evaluating its outcome.
- 12. Acquires adequate knowledge of the content of the school subjects concerned, of secondary and higher secondary classes.
- 13. Develops positive attitude to teaching profession and to the coming generation
- 14. Acquires the democratic and social values of an ideal teacher thereby to inspire his/her students.
- 15. Develops interest in facilitating learning and development and enjoys teaching and organizing curricular and co-curricular activities.
- 16. Readiness to accept the progressive changes in the field of education
- 17. Develops an environment and eco friendly attitude.
- Acquires skills in developing and administering psychology tests and experiments and to interpret the results.
- 19. Develops skills in dealing with the problems of maladjustment, indiscipline and learning disability.

- 20. Becomes capable in rendering counseling and guidance for the needy students.
- 21. Develops skills in planning, transacting and evaluating curricular contents of secondary and higher secondary classes.
- 22. Develops various sub skills and competencies in teaching and classroom management through microteaching.
- 23. Acquires skills in developing and using audiovisual devices and ICT for classroom teaching.
- 24. Acquires skills in discharging the duties of a competent teacher in the prevailing socio cultural and political system and to meet the challenges of the transforming society.
- 25. To acquaint with professionalisation of teacher education
- 26. To be a professional and humane teacher

CORE PAPERS

EDU. 101. PERSPECTIVES ON EDUCATION									
Contact Hours: 75 (Instruction) & 15 (Process) Marks: 50 (End Semester Examination) & 10 (CE)									
Objectives	Process								
¥	MODULE I (10 Hours)								
 To define education. To develop understanding of education as a discipline. To describe the factors influencing education. 	Education-preliminary considerations - Defining Education – Meaning – Definitions – Functions. Nature of education as a discipline - Theory and Practice - Interdisciplinary nature - Scope of Education as a discipline Considerations in education – Philosophical - Socio-cultural - Psychological	 Collect at least 10 definitions of education (Minimum 5 from east and 5 from west) Conduct a Discussion to analyze the collected definitions for perspectives and scope Prepare a flow chart/diagrammatic representation showing the different levels and forms of education 							
4. To analyze the aims of education	MODULE II(15 Hours)Aims of education - Individual Aims - Social AimsGoals of Education in India - Purusharthas - Constitutional Goals - Democracy - Socialism - Secularism - Equality of Opportunity - Preparing for the duties and rights of Indian Citizen - Articles of Indian Constitution - Pertaining to Education - National Integration and International - Understanding - Education for a knowledge society	 4. Identification of Aims/Goals of Education in Secondary Education Commission, Kothari Commission, NPE 1986, NCF 2005 and Delor's Report. 5. Prepare a Collage/ Cartoon/ Poster/ Presentation on the different aspects of National Integration in India (a group work of 5 students) 							
 5. To develop an understanding of the evolution of educational policy in India 6. To acquaint with existing educational policy in India 	MODULE III(20 Hours)Landmarks in Modern IndianEducation - Mecauley's Minutes -Woods Despatch - Primary education as a constitutional obligation - Kothari Commission report - Education in the concurrent list - New Education Policy (1986) - National Curricular Framework-2005 - Right to Education Act -2009	6. Prepare a brief content overview of Kothari commission report/NCF 2005/Right to education act							

Objectives	Content	Process
	MODULE IV (30 Hours)	
7. Analyse the views of different thinkers and thoughts on education	Philosophical perspectives on education - Relationship between Philosophy and Education	7. Review and reflect on the educational thoughts in any one book of Freire/ Dewey/ Gandhi/ Tagore/ Plato
	Thinkers on Education – Plato – Rousseau – Dewey – Freire – Tagore – Gandhi – Vivekananda.	8. Conduct a discussion on alternate thoughts of education
	Thoughts on Education - Idealism - Pragmatism and Realism - Basic Principles and their influences on various aspects of education.	
	Alternative thoughts - A Brief note on Illich, Reimer, Rishi valley School, Folk School, Kanav.	

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EDU. 102. PSYCHOLOGY OF THE LEARNER Contact Hours: 75 (Instruction) & 15 (Process)				
Marks: 50 (End Semester Examination) & 10 (CE)				
Objectives	Content MODULE I (8 Hours)	Process		
 To develop an understanding of the nature, scope and methods of Educational psychology. To understand various approaches to study Psychology. 	Introduction to Educational psychology Defining psychology - Definition, meaning and nature Approaches to psychology - Behaviourism, psycho analysis, constructivism, Humanism. Educational psychology as an applied branch of psychology - Scope of educational psychology	1. Conduct a peer case study.		
 3. To develop an understanding of the concept, principles and theories of Growth and development. 4. To understand the developmental characteristics of Childhood and Adolescence. 5. To create awareness of the problems and issues of adolescence and to suggest remedies. 	Methods of psychology –case study, experimental and Survey methods MODULE II (20 Hours) Learners' development. Concept and Principles of Growth and Development - Approaches to study development – longitudinal and cross sectional Developmental Characteristics of childhood and 'Adolescence' - Physical, Cognitive, Emotional and Social aspects Theories of Development and their Educational Implications - Piaget's & Bruner's theory of Cognitive Development - Kohlberg's theory of Moral development - Erikson's theory of Psychosocial Development. Recent Issues related to development of Adolescence - Loneliness and Peer pressure - Changing Family structures - Information overload - Sexual Abuse - Substance abuse - Impact of media/ Internet/ mobile - Depression and suicide	 2. Conduct a discussion to identify the characteristics of childhood and adolescence 3. Collect news paper cuttings related to the issues of adolescence development; interpret and suggest remedies 		

Objectives	Content	Process
 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 	MODULE III(15 Hours)Learner's Intelligence & Creativity Concept of intelligenceTheories of Intelligence - Spearman's two factor theory - Guilford's structure of intellect model - Multiple intelligence - Emotional intelligenceCreativity- meaning and nature - Identification of Creative Learner - Process of Creativity - Teacher's role in fostering CreativityMODULE IV(12 Hours)Understanding learner diversities	 4. Administer any one intelligence test and familiarize the procedure. 5. Prepare sample items for verbal creativity tests (minimum 4 items) 6. Develop an activity to foster creativity in the classroom 7. Conduct a debate on the role
concept and areas of Individual difference. 9. To familiarize the specific contributions of heredity and environmental factors to individual difference. 10. To develop an understanding of the concept and types of 'exceptional children'. 11. To develop an understanding of the concept and types of Learning Disability 12. To develop skills to handle students with special needs.	Concept of Individual Differences Areas of individual Differences – Interest, Attitude and Aptitude. Role of heredity and Environment. Understanding Exceptional learners - Gifted and Slow Learners. Learning Disability (LD) - Dyslexia, Dysgraphia, Dyscalculia and Attention Deficit Hyper activity Disorder(ADHD) Educational provisions for learner diversities.	 of heredity and environment on Learner diversity 8. Suggest any one learning activity for exceptional learner category

Objectives	Content	Process
Objectives 13. To develop an understanding of the concept and theories of Personality. 14. To understand the concept of Mental health, Adjustment, Mal- adjustment and the causes of mal-adjustment. 15. To develop an understanding of the meaning, need, scope and methods of Guidance and Counseling.	Content MODULE V (20 Hours) Learners Personality and adjustment Concept of Personality Approaches to study personality - Psycho analytic(Freud) - Trait(Allport and Cattel) - Humanistic(Maslow and Rogers). Characteristics of matured personality. Adjustment and maladjustment. Mental Health: Concept and Importance. Guidance and counseling – Meaning - Need and scope	 9. Administer any one personality measure and familiarize the procedure 10. Conduct a discussion on teacher's role in identifying and managing maladjusted learner 11. Set up a career corner in your classroom.

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EDU. 103. TECHNOLOGY AND INFORMATICS IN EDUCATION Contact Hours: 75 (Instruction) & 15 (Process) Marks: 50 (End Semester Examination) & 10 (CE)			
Objectives	Content	Process	
	MODULE I (15 Hours)		
 To develop understanding about the concept of teaching, its meaning and function To understand the communication processes in the classroom and to apply them in real classroom situations 	 Teaching & Communication Meaning of teaching - Functions of Teaching - Difference among Teaching – instruction & training. Communication – Meaning - Types: Verbal- oral & written, Non- verbal. Communication Cycle - Barriers of communication - Effective Classroom Communication. Supporting aids for Teaching and communication - Projected (OHP, LCD Projector), Non – projected and Activity aids	 Present a concept of your choice from this module using projected or non projected aids prepared by you (Group work) Group wise presentation of a theme using non verbal communication strategies 	
 3. Understand the nature scope and approaches of educational technology and also about the Various forms of technology, 4. Know the multimedia approach and relevance of multi sensory approach. 	 MODULE II (10 Hours) Educational Technology Meaning, Definition & Scope Approaches of Educational technology – Hardware - Software - System approach Relevance of Multimedia - Concept & Scope - Multisensory approach 	 3. Prepare a list of Examples for software and hardware approach in educational technology 4. Prepare a list of Learning/Teaching aids in your subject which facilitates Multimedia approach 	

 5. Understand the scope of ICT and its applications in teaching learning. 6. Know the instructional applications of Internet and web resources. 7. Understand the means of ICT integration in teaching 	MODULE III(15 Hours)Information Communication Technology Meaning, Concept, Characteristics, scope, advantages and limitation of ICT in Education.Educational Informatics - Concept Networking of computers- LAN, WAN, Internet - World Wide WebWeb sites and concept of web designing- HTML- KompoZer	 Create a web page and upload personal profile.(HTML or Google Sites) Visit any public utility website and download a material related to any two areas Download & Upload educational resources
learning	Using free web resources - Search engines- Google, yahoo etc - Public utility websites and uses	4. Hands own experience on web browsing and use of search engines
 8. Develop various skills to use computer technology for sharing of information and ideas through the Blogs and Chatting groups. 9. Understand the process of locating the resources available in the Internet and use of on-line journals and books. 10. understand the utility of professional forums, Professional associations in use of computer technology. 11. Understand the concept of e-learning, elements of e-learning. 	 MODULE IV (20 Hours) Technology mediated learning Meaning of Technology mediated Learning. E-Learning: -Meaning & Characteristics - moodle Types of E-Learning: Off-line Learning (Meaning, Importance), On-line Learning- (Synchronous and Asynchronous), Use and Importance of Chat, E-mail, Discussion Forum, e- journals, e-reading and blogs in E – Learning. Computer Managed Instruction (CMI) and Computer Assisted instruction(CAI) Eg. Sun Clock / K- Star Teleconferencing- Audio, Video and Computer mediated- Skype Role of the Teacher in Technology Mediated Learning 	 5. Prepare and Submit an E-assignment. 6. Conduct a debate on the topic " can e- media replace the teacher" 7. Create a group in a social network of your class. 8. Create a blog of your own. 9. Provide hands on experience to the students on practical oriented topics

	MODULE V (15 Hours)	
 12. Understand the process of using the application software for creating documents, database, presentation and other media applications. 13. Develop awareness about uses of computer technology in teaching learning training and 	Media skills in teaching and learning Presentation software in teaching - Impress & Power Point Basics of Graphics, Audio and video editing - Gimp/ Audacity/Kdenlive Simple animation techniques - Tupi E content authoring - Concept and scope of E content authoring - Familiarizing the facilities available -	10. Provide hands on experience on Audio, video and graphics editing.11. Prepare a report on an educational programme observed through Gyan Darsan or ViCTERS.
Research. 14. Understand the patterns of e-content design and its validation. 15. Understand the technical aspects of e- content	CEC, EMMRC. Role of Edusat - Gyan Darsan - ViCTERS	

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http://www.ncte-india.org NUEPA http://www.nuepa.org CCRT http://www.ccrtindia.gov.in General Education Kerala http://www.education.kerala.gov.in IT @ School http://www.itschool.gov.in SIET http://www.sietkerala.org SCERT http://www.scert.kerala.gov.in CDIT http://www.cdit.org Calicut University http://www.universityofcalicut.info MG University http://www.mgu.ac.in Kannur University http://www.kannuruniversity.ac.in Kerala University http://www.keralauniversity.edu **Cochin University** http://www.cusat.ac.in CTE - Thiruvananthapuram http://www.gctetvm.com CTE - Calicut http://www.gctecalicut.in CTE - Thalassery http://www.gctetly.com For other useful links See Library http://www.iasethrissur.edu.in/library.html Dept. of Collegiate Education Kerala http://www.collegiateedu.kerala.gov.in/ Online Questionnaire on ICT http://www.kuttiyankavupooram.com/online/onlineexmination/login.php

EDU. 104. EDUCATION IN THE SOCIO CULTURAL CONTEXT				
	Contact Hours: 75 (Instruction) & 15 (Process) Marks: 50 (End Semester Examination) & 10 (CE)			
Objectives Content		Process		
	MODULE I (15 Hours)			
1. To put education in the perspective of social order.	Sociological perspectives on education Social Structure and Function - Social System and Education.	1. Prepare a poster on the social issues of current Kerala society with special reference to family norms and cultural change.		
2. To identify the relationship between education	Education as a social sub system - Education and Socialization.			
and society.	Education and Culture - Acculturation and Enculturation - Education as cultural capital.			
	Education in a Democracy.			
	MODULE II (15 Hours)			
3. To develop awareness about the characteristics of Indian society.	Education and Society - Characteristics of Indian Society - Aspirations of Indian Society - Societal Agencies of Education.	2. Prepare a write up/presentation on social changes in the last two decades in the locality of students and present in the class (presentation by random selection of students).		
4. To acquaint with the nature of social change in India.	Education and Social Change - Social Change in India - Education and Modernization - Cultural Lag Social Control.			
	MODULE III (15 Hours)			
5. To identify the relationship between education and economy and national development	Economics of Education Education and Economic Development - Education as an Investment - Share of GDP to Education - Education in Five Year plans	 3. Prepare a Table of allocation to different levels of (Elementary/Secondary/Higher/Technical) education in last three five Year Plans. 4. Conduct a debate on role of Education in Kerala Development Experience 		
	Education and National Development - Social Indices of Development			
	Role of Education in Kerala Development Experience			

	MODULE IV (30 Hours)	
6. To analyze the issues faced by Indian Education	MODULE IV(30 Hours)Current Issues in Education (A Brief Introduction to the following Issues) Quality – Quantity ParadoxEqualization of Educational OpportunitiesUniversalization of Elementary and Secondary EducationAdult and Continuing EducationGender Issues in EducationInclusive Education – Meaning, Relevance and PracticesPopulation Education – Need, 	 5. Collect data and prepare graph depicting the GER in Elementary/Secondary/in India with special reference to States/Castes/Regions. 6. Identify a topic of student choice and suggest suitable learning activities for Environmental Education 7. Prepare a lesson plan for developing essential values in children
	Impacts of Liberalization, Privatization and Globalization on Education	

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EDU. 105. PSYCHOLOGY OF LEARNING Contact Hours: 75 (Instruction) & 15 (Process) Marks: 50 (End Semester Examination) & 10 (CE)		
Objectives	Content	Process
1. To understand the concept, nature and factors influencing learning.	 MODULE I (15 Hours) Concept of Learning Meaning, Definition & Characteristics Factors affecting learning - learner, method and task variables. Maturation - Concept & Educational Implications. Attention - Concept & Educational Implications. Motivation - Concept Types & Educational Implications Transfer of Learning - Types of transfer - positive, negative, zero, vertical, horizontal, specific, general - Educational Implications of transfer of learning 	 List examples through brainstorming for transfer of learning in life situation and classroom situation Prepare a plan for enhancing achievement motivation (A group work of five students)
2. To develop an understanding of the process of learning through various theoretical perspectives.	MODULE II(25 Hours)Different Views on learning Behaviourist views on learning - Skinnerian Operant Conditioning and their implicationsGagne's Hierarchy of learning.Constructivist views on learning and its educational implication - Piaget,Bruner, Ausubal &,Vygotzky.Constructivist Learning Strategies - Cooperative and Collaborative Learning - Peer tutoring - Concept mapping - Brain based learning - Cognitive apprenticeship - Engaged learning.Humanistic views on learning and its educational implication - Experiential Learning- Carl Rogers	 3. Construct a concept map of a concept of your choice 4. Use peer tutoring technique in the class to transact a topic of your choice (from psychology) 5. List suitable learning activities based on Brain based learning/ Cognitive apprenticeship/Engaged learning

Objectives	Content	Process
	MODULE III (15 Hours)	
3. To gain an insight into the mental processes involved in learning.	Mental Processes in learning Memory - Concept; Types & Strategies to develop Memory.Forgetting - Nature, Causes.Thinking - Divergent, Convergent, Reflective thinking.Reasoning - Inductive and deductiveConcept FormationProblem solving - Steps and strategies	6. Prepare test items (Minimum 5 Items) to assess any one mental process (Memory, Reasoning and Problem solving)
4. To acquaint the learner with the concept, process and importance of Group Dynamics.	MODULE IV(10 Hours)Learning in Groups Meaning & Characteristics of a Social GroupSociometry: - Use and Importance.Group Dynamics - Process and its Importance in Learning.Importance of developing Group Cohesion.Interpersonal Relationship-Transactional analysis	 7. Construct a Sociogram 8. Prepare an imaginary communication script and identify the elements of child, adult and parent ego state
5. To develop the ability to perceive 'learning from the learners' perspective'.	MODULE V (10 Hours) Learning from learner's perspective Learning styles - Approaches to studying - Orientations in learning - Reflective practices -Meta cognition	 9. Identify learning style preferences/approaches to studying of students in your class 10. Suggest any one meta-cognitive strategy/ reflective practice through discussion for teaching a topic of your choice

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Psychology of Learning and Teaching Bernard, H.W (1954) New York : MC Grow – Hill Book Co.

Social Context of Education Shah, A.B (Ed) (1978) Essays in honour of Prof. J.P. Naik, Allied Publishers, Bombay.

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The Conditions of Learning Gagne, R.M, Holt, Rineharf & Winston, (1965) New York

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EDU. 106. EDUCATIONAL MANAGEMENT Contact Hours: 75 (Instruction) & 15 (Process) Marks: 50 (End Semester Examination) & 10 (CE)		
Objectives	Content	Process
	MODULE I (20 Hours)	
 To develop understanding about the concept and scope of educational management To familiarize the school organization 	 Educational management Concept - Need, scope and functions - Characteristics of democratic institutional climate Organisational process in school - HM/Principal as a leader - Duties and responsibilities of HM Performance Appraisal - meaning and importance - performance appraisal of Teachers. Importance of essential records - Admission Register - Attendance Register for Staff & students - Stock Registers - Acquittance . Teaching Manual – Student Profile - Cumulative Record - Service Book 	 Conduct a group discussion on "the impact of organizational climate on the effective performance of teachers" Prepare a questionnaire for HMs for collecting data regarding his/her difficulties in performing duties and responsibilities. Prepare a hypothetical admission register of 5 students
	MODULE II (10 Hours)	
 To develop skills in preparing time table To acquaint with the concept of institutional planning To understand the structure and functions of SMC To understand and appreciate TQM 	Institutional managementInstitutional Planning - Meaning andImportanceSchool Management Committee (SMC) – School Development Plan.Functions of staff council and student council.Timetable - Types and Principles of timetable construction.Total Quality Management (TQM) – Concept and Scope.	 4. Prepare agenda for a staff council/ students council Create a class time table/ framework for school time table 5. Prepare an action plan of the co-curricular activities for an academic year of school. 6. Prepare a poster on 'Structure and functions of SMC.

	MODULE III (25 Hours)	
 7. Understand the meaning and significance of evaluation in education. 8. Understand the different types of tools and techniques of evaluation 9. Understand the essentials of basic statistics in education and apply statistics in the classroom. 	 Managing evaluation in school Measurement and Evaluation- meaning, functions - Formative & Summative Evaluation Tools and techniques of Evaluation - Qualities of good evaluation tool. CCE Concept and relevance - Grading system, merits and limitations - Semester system of examination - Open book examination. Basic statistics in Evaluation - Measures of central tendency & dispersion - Graphical representation of data. Using spread sheets in computer for data entry & basic statistics MODULE IV (20 Hours) 	 7. Compute the measures of central tendency, measures of dispersion and draw appropriate graphical representation using hypothetical data 8. Make data entry in a spreadsheet using hypothetical data and workout basic statistics. 9. Undergo an open book examination in the class on relevant unit.
 10. Develop theoretical assumptions behind the practices of physical education. 11. Develop awareness about health and physical fitness 12. Develop attitude towards preventing hypo kinesthetic diseases 	 MODULE IV (20 Hours) Managing physical and health education practices in school Introduction, Definition, aims and objectives of Physical Education. Introduction and Definition of Health, fitness and Wellness. Types of Physical Fitness - Health related physical fitness - Performance related physical fitness - Cosmetic fitness. Physical fitness components - Fitness Balance. Hypo-kinetic Diseases and its Management – Obesity – Diabetes – Dyslipedimia – Hypertension – Osteoporosis - Coronary heart disease - Back pain. Posture and Postural deformities. Principles of first aid. Food and nutrition. 	 10. Practice of Yogasanas and relaxation techniques 11. Practice of warm up and warm down exercises. 12. Practice Walking, jogging, stretching and resistance training

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Education, New York : John Wiley.

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- theories. USA: John Willey and sons, Inc.
- World Health Organisation (1991) Comprehensive School Health Curriculum, New Delhi Region Office for South East Asia.

OPTIONAL PAPERS

ARABIC

Objectives	Content	Process
1.To acquaint with the nature and scope of Arabic	MODULE I Arabic language, its significance, need and significance of Arabic language teaching, - problems of learning foreign language MODULE II	
2.To understand the theory of skill acquisition	Language and language acquisition a. Language skills-acquisition of skills- listening and reading skills, techniques to attain these skills, different kinds of reading, methods of teaching to read- importance of pronunciation sounds-organization of speech- Training for correct pronunciation etc b. Productive skills- speaking and writing skills, their importance, peculiarities-causes of bad spelling- editing process reference and study skills MODULE III	1. Making at least five criticism lesson plans with the help of computer instruction.
3.To understand Approaches & Methods of Teaching Arabic	General principles and methods of language learning with special reference to Arabic. -Principles and maxims of language learning –learning environment-its qualities Methods of teaching Arabic- traditional and modern: translation method-direct method -structural approach- communicative approach- bilingual approach-discussion method role play-play way-dramatization project method-learning by doing	2. Preparation of power point presentation-3. Internet browsing

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EDU. 111. METHODOLOGY OF TEACHING ARABIC

	MODULE IV	
4. To understand the theoretical bases of major approaches viz constructivism, behaviourism Social constructivism etc.	Language and language learning – approaches:– Behaviorism - cognitivism-, constructivism-social constructivism –neuro-linguistic theories.	4. Making multiple lesson plans on a single topic based on different approaches to experience the difference in outlooks.
	MODULE V	
5. To understand the techniques of teaching vocabulary, functions and different language forms.	 a. Teaching of prose-aims of teaching prose, methods of reading prose-different types of prose lessons. b. Teaching of poetry- aims of teaching poetry, methods of teaching poetry- c. Grammar- place of grammar- approaches and methods; functional- formal, inductive-deductive. d. Composition and creative works-its types, methods, strategies e. Vocabulary strengthening teaching of literature 	5. Suggest a way to strengthen vocabulary and prepare a short learning material suitable to realize your idea.
	MODULE VI	
6. To update on the present practices of learning and instruction practiced in the state schools of Kerala	Critical pedagogy -issue based learning-discourse oriented and narrative strategies Group learning-co operative learning- collaborative learning-multiple level learning	6. Prepare a list of any five social issues that can be addressed in Arabic class

EDU 131 PEDAGOGIC PRACTICES IN ARABIC Contact Hours: 75 Hours (Instruction) &15 hours (process) Marks : 50 (End semester Examination)& 10 (CE)		
Objectives	Content	Process
1.To understand the Aims and Objectives of Teaching Arabic	MODULE I The objective based instruction model with reference to Blooms Taxonomy. 1.1preparation of the lesson plans as per the model. 1.2 Constructivist and social constructivist models -preparation of lesson plans -selection of activities 1.3 Issue based curriculum –Highlighting the Issues,	1. Prepare a pictorial representation of Instructional Objectives relevant to Arabic Education.

	MODULE II	
2.To develop skills for effective teaching (by micro teaching)	MODULE II a. Teaching skills for classroom extension-Micro teaching, skill based practice-3 different skills and Link practice	Prescribed in Practicals
	MODULE III	
3. To understand and do the pedagogic analysis of Arabic of 8 th standard to11th standard.	Pedagogic Analysis of Lessons - Meaning and principles of content analysis- purpose of pedagogic analysis- subject matter and language-Learning experiences-Evaluation	 Perform content analysis, found out specifications, objectives in behaviorist system Find out issues, sub issues-modular approach-activities etc in constructivist pattern
	MODULE IV	
4.To acquaint with Planning of instruction	Lesson Planning- Ways of introducing various topics, Developing the skills, types of learning experiences required for different methods of teaching-Unit plan, year plan, importance of planning in education	4. Write discussion lessons in various strategies- demonstration, criticism lessons according to constructivist pattern
	MODULE V	
5.To understand the Evaluation techniques and prepare objective based test items as per the existing state syllabus pattern in Arabic	Evaluation of student achievements- tools of evaluation-formative and summative methods- continuous and comprehensive evaluation-tools used for CCE –Grading system-The evaluation system existing in Kerala	 5. Make sample question paper for objective based test and new type tests with blue print, value points and question wise analysis OR 6. Make mark list or grade list of students using spread sheet and analyze it (2 marks)

EDU. 151. CURRICULUM AND RESOURCES OF ARABIC Contact Hours: 75 Hours (Instruction) &15 hours (process)		
Marks: 50 (End semester Examination)& 10 (CE) Objectives Content Process		
Objectives		1100055
1.To understand the principles of Organizing Curriculum	MODULE I Curriculum-meaning-curriculum construction - principles of curriculum construction, approaches to curriculum construction- modern trends in curriculum construction- A critical study of Arabic curriculum for all classes from V to XII	1. A comparison of Arabic text books in Kerala with that of English
2.To provide familiarization with Resources for teaching/learning Arabic	MODULE II Learning aids –its importance- Psychological basesTeaching-learning material:TB its qualities, HB, local text, magazines, reading corner etc. -AV aids :ICT. language lab, improvised leaning aids, mass media, digital learning resourses etc. Activity aids: club activities, field trips erc.	2. Prepare a manuscript magazine (group work)
3. To have a hands on approach in organizing and maintaining library, and other resources in Arabic	MODULE III a. Library - importance of library –school library-class library- digital library,online library etc. MODULE IV	3. Making a book review
4. To understand the meaning, scope and importance of models of teaching	Models of teaching- Concept Attainment, Advance Organizer, Inductive-Deductive models	4. Prepare a lesson plan on any topic USING Models of Teaching.

EDU. 171. PROFESSIONALIZING ARABIC EDUCATION Contact Hours: 75 Hours (Instruction) &15 hours (process)		
	Marks: 50 (End semester Examination)& 10 (CE)
Objectives	Content	Process
1.To appreciate the role of Arabic in the Society	MODULE. I Arabic language-its significance-historical background-world language-modern and classical language-link with other languages and literature- contribution to other subjects Arabic language and India Arabic language and Kerala Place of Arabic in the state schools of Kerala	1. Preparation a list of 4 classic books in Arabic and prepare short notes on how they reflect social life in them.

2. To acquaint with the co- curricular activities in Arabic	MODULE. II Co-curricular activities of Arabic:-, programmes included in Arabic kalolsavam- their rules and regulations- Club and literary activities,associations-school language broadcasting-magazines	2. Prepare a year plan for an Arabic language club in the school.
3. To understand the importance of nurturing talented children	MODULE. III Characteristics of talented children. Identification & techniques of nurturing talented children in Arabic.	3. Prepare an enrichment material in Arabic grammar of Standard 8
4. To familiarize the I T related professional inputs of teaching.	MODULE. IV New aids for Arabic teaching- computer assisted Instruction, CDs, VCD's Internet etc	4. Arrange a seminar with power point presentation.
5.To be a Professional Arabic teacher	MODULE. V Definition of profession, Teaching as a profession. Professional ethics. Traits of professionalism- competencies listed by NCTE Soft Skills for a teacher. The Arabic teacher, qualities of a good Arabic teacher, nature of work and duties-qualifications	5. Prepare a report on qualities of a good Arabic teacher.

1.	Teaching and Learning English, a source book for Teaching and Teacher Training	:	Orient Longman, Hyderabad.
2.	A training course for TEFL	:	Peter Habbard, Hywel Jones.
3.	An Introduction to language and communication	:	Publisher Prentice hall
4.	Active listening building skills	:	Marc Helgesen and Steven Brown Cambridge
5.	Linguistics: An introduction to language and communication	:	Advian Adkmajian and others. New Delhi.
6.	The Oxford Guide to Writing and	:	John Seley

Reading

	Reading		
7.	Grammar builders	:	Am in Eravelly, E.J.Ibrahim.
8.	Improve your communication skills	:	Alan Barker.
9.	Spoken English	÷	M.C. Sreevalsam
10.	The Skills of Communication	:	Billscott,Mumbai
11.	The teaching of language a practical	•	B.N. Safaya
	approach		Dir (; Suluju
12.	The Principle and Methods of Teaching		Bhatia and Bhatia
13.	Technology of Teaching	:	R.A. Sharma
13.	Models of Teaching	:	Bruce Joyce – Mersha Wein
	-	•	•
15.	Introduction of educational technology	•	K.Sampath, a. Paneer Selvam, S. Santhanam
16.	Essentials of Educational Technology –	:	J.C. Agarwal
	Teaching Learning Innovations in		
	Education		
17.	Modern trends in teaching technology	:	Romesh Varma, Suresh Sarma
18.	Atharbiyathu wa Thuruqu athedrees	:	Prof. Salih Abdul Azeez, Dr.Abdul
	Part I		Azeez, Abdul Majeed,
19.	Atharbiyathu wa Thuruqu athedrees	÷	Prof. Salih Abdul Azeez, Dr.Abdul
	Part II		Azeez, Abdul Majeed,
20.	Thuruq thadrees Allugathil arabiyya	:	Dr. Jawdath Alrikabi published
		•	Darul Fikir
21.	Al Muwajjahul Ameli li Muderrisi	:	Abid Thoufeeqe Al hasmi, Al
	Luga Al Arabiyya		Risala Publishing House Bairoot
			Lebanon
22.	Al Muwajjahul Ameli li Mudarrisi	:	Abdul Haleem Ibrahim. Daru
	Luga Al Arabiyya		Maarif Egypt.
23.	An easy way to commercial and	:	Mohammed Ismail Mujaddidi.
	journalistic Arabic	•	Sahara Publications, Markaz
	Journalistie / Habie		complex, Calicut.
24.	Kaifa thalki darsak	:	Kitabuhllmiyyum. Yabhasu fee
27.	Karra thatki darsak	•	usool altharbiyathi wathadrees.
25.	Althaeleema wa nabriyathuhu		Darul Ilmu LilMallayeen Beirut.
	Thaeleenul Allugath All Arabiyya	•	Dr. Hassen Shahatha
26.	6 33	·	DI. Hassen Shanauna
27	Baina, Al Nalriyathi Wa thath beek		
27.	Mohmood Al Sayed Salthan	:	Maseerath Al-Fekri Al-tharba wiyyi
			Abara Althareek, K.S.A. Dar Al
• •			Shurook.
28.	Fannu Al thadrusi Li tharbayathi	:	Jaiathu al Azhari
	Allugawiyathi Kulliyathu tharbiyathi		
29.	Dr. Hussain Sulaiman Fourath	:	Arabiyya Waldheenul Islamiyyi
	Thaeleemul Allugathul.		Egypt, Darul Marif.
30.	Writing Arabic: A Practical	:	T.F. Mitchell, London, Oxford,
	Introduction to Ruqah Script		University Press, New York,
			Tyoronto.

ENGLISH

EDU. 112.METHODOLOGY OF TEACHING ENGLISH			
	Contact Hours:75 (Instruction)&15 Process Marks:50 (End Semaster Examination) &10 (CE)		
Marks:50 (End Semester Examination)&10 (CE) Objectives Content Process			
Objectives	MODULE I (11 hours)	1100035	
 To acquaint with the nature of language To acquaint with the nature and scope of English language 	Language- its meaning,characteristics,functions ,varieties of language. First language, second language and foreign language Learning and acquisition ,Related theories Position of English in the language family. Features of English, Importance of English English as a global language Status of English in India	1. Make some items that would help to evaluate the writing skill of the trainees.	
3. To familiarise with the four skills	MODULE II (10 hours) English as a skill subject LSRW skills and the process skills. Techniques to develop LSRW skills	 Film review of any two English films. Preparation and presentation of a minimum of ten discourses. 	
4.To understand the theories of language learning	MODULE III (16 hours) Behaviourism English Constructivism Multiple Intelligence Chomskian concept of Language Development Stephen Krashen's theory Dr. N.S.Prabhu's CBLT programme	4. Preparation of lesson plans –(behaviourist & constructivist) on a single topic based on different approaches to experienc e the difference in outlooks.	
 5. To understand the methods and approaches of teaching English 6. To understand the nature of selecting language materials. 	MODULE IV (19 hours) Method,approach, technique & strategy. Grammar –translation method, direct method,bilingual method. Structural approach, communicative approach, humanistic approach, whole language approach .Characteristics,principles,advantages & lilmitations. Innovative practices in ELT Principles of selection and grading of language materials		

7. To understand the techniques of teaching vocabulary,functions pronunciation,prosepoe try, and composition.	MODULE V Vocabulary- Types of vocabulary, Kinds of words, Techniques of teaching vocabulary, Enrichment of vocabulary, Language games. Form and function—methods of teaching grammar. Teaching of pronunciation. Types of prose- intensive and extensive reader, techniques of teaching prose & poetry.	5. Book review on any two literary works published in the last ten years.
8. To update on the present practices of teaching English in the State of Kerala.	MODULE VI (6 hours) Challenges of teaching English in Kerala. Measures for improvement.	6. Get familiarised with the IT sources / packages that are helpful in teaching English.

EDU. 132.PEDAGOGIC PRACTICES IN ENGLISH			
Contact Hours:75 (Instruction) &15 Process			
Marks:50 (End Semester Examination) &10 (CE)			
Objectives	Торіся	Process	
1. To understand the aims & objectives of teaching English and 2. To acquaint with the principles of language teaching.	MODULE I Aims of teaching English. Objectives-types of objectives.Objectives of teaching English at secondary level. Taxonomy of educational objectives. Philosophical, psychological,sociological & technological principles of language teaching.	1. Make a pictorial representation of taxonomy of educational objectives	
3. To develop skills for effective teaching—micro teaching.	MODULE II Core skills. Micro teaching—definition-principles- micro teaching cycle,limitations.	Prescribed in practicals	
4. To understand and do the pedagogic analysis of English of 8 & 9 th standard.	MODULE. III Pedagogy & androgogy. Content analysis – Pedagogic analysis— objectives & components.	2. Make a content analysis of any unit of English in standard 8 or 9	
5. To acquaint with the planning of instruction.	MODULE. IV Importance of planning—year plan, unit plan, lesson plan. Steps of lesson plan. Types of planning—behaviourist, constructivistprose & poem.	3. Prepare a year plan or unit plan	
6. To understand the evaluation techniques,	MODULE. V Evaluation - Different types of test items - merits and demerits. Construction and	4. Prepare a question bank on a unit of your	

Diagnosis and remediation and prepare objective based test items as per the existing state syllabus pattern in English.	administration of Achievement tests. Continuous and Comprehensive Evaluation, Evaluation Criteria for Assignment, Seminar and Project.Diagnostic test-importance- process of construction Error analysis-remedial teaching— meaning. Grading—importance & types.	own choice from 8 th or 9 th std English Text Book. 5. Preparation of unit tests,diagnostic test and remedial lesson plan
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EDU. 152. CURRICULUM AND RESOURCES OF ENGLISH				
Contact Hours:75 (Instruction) &15 Process Marks:50 (End Semester Examination) &10 (CE)				
Objectives	Topics	Process		
1. To understand the principles of organising curriculum.	MODULE I (10 hours) Curriculum—meaning,types. Principles of curriculum construction. Nature of language curriculum. Syllabus—types of syllabus—features and limitations.	1. Compare the styles of organisation of curriculum development,selecting a single topic from State and CBSE syllabi.		
2.To familiarise with resources for teaching/learning English.	MODULE II (20 hours) Course books, qualities of a good course book. Source books—work book. Supplementary reader—types. E-book, CD's etc.	2. Evaluation of 8 & 9 th standard course books.		
3. To acquaint with the preparation of various learning aids in English.	MODULE III (20 hours) Audio-visual aids—radio,TV,tape recorder,OHP,computer,language lab,video clippings,pictures,charts,flashcards ,realia, models etc.	3. Prepare a flash card to teach any five vocabulary.		
4. To acquaint with the use of library.	MODULE IV (15 hours)Importance of library in language learning.E-library, inflibnet.Principles of selecting language books.	 4. List out 10 storybooks suitable for secondary school students. 5. Use inflibnet to identify ELT journals and go through them. 6. Maintain a class library. 		
5. To familiarise with study skills.	MODULE V (10 hours) Reference skills—use of dictionary. Note-taking, note-	7. Make a dictionary with 20 words.		

making,summarizing, paragraphing, information transfer.	
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EDU. 172. PROFESSIONALISING ENGLISH EDUCATION				
Contact Hours: 75 (Instruction) &15 Process Marks: 50 (End Semester Examination) &10 (CE)				
Objectives	Topics	Process		
1. To acquaint with professionalization of language teaching	MODULE I (25 hours) Professionalization of teaching. meaning,need,challenges and techniques. In-service & pre-service courses. Global opportunity IELTS,TOFEL,TESL. Language trainer,on-line teaching. Content writing,outsourcing. MODULE II	1. Prepare a report on any on line language teaching Programme.		
2. To familiarise the IT related professional inputs in language teaching.	Online editing, tele- conferencing, social networking. Preparation of e-learning materials.	2. Experiencing the making of a multi-media package/very shortfilm/ shortdocumentary/theatre education/puppetry.		
3. To acquaint with the co-curricular activities in English.	MODULE III Magazine editing, reporting,running commentary. Anchoring, face to face communication, interview, event management. Language related co-curricular activities. Principles of organization.	3. Prepare a manuscript magazine and publish in the class. (group work)		
4. To understand the importance of nurturing talented children.	MODULE IV Concept of multiple intelligence. Characteristics of talented children. Identification & techniques of nurturing talented children in English.	4. Prepare an enrichment material on English grammar of Standard 8.		
5.To be a professional teacher of English.	MODULE V Development of communication skills, presentation skills & leadership qualities. Qualities of a professional teacher of English.	5. Preparation of a brief report about 10 recent researches in ELT.		

Ways to inculcate professionalism	
in teaching.	
Role of teacher-educators in	
developing professionalism in ELT.	
Reflective teaching.	

- Ellis, Rod. (1990). Integrated Second Language Acquisition. Massachussetts: Basil Blackwell Inc.
- Nunan, David (1989). Syllabus Design: Language Teaching. Oxford: Oxford University Press.
- Doff, Adrian. (1988). Teach English: A Training Course for Teachers. Cambridge: Cambridge University Press.
- Ur Penny and Andrew Wright (1992). Five Minute Activities: A Resource Book for Language Teachers. Cambridge: Cambridge University Press.
- Bloom, B.S. (1971). Handbook on Formative and Summative Evaluation of

Student Learning. USA: McGraw Hill, Inc.

- Tickoo, M.L. (2004). Teaching and Learning English: A Source Book for Teachers and Teacher Trainees. New Delhi: Orient Longman.
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- Bhattacharya, Indrajit (2002). An Approach to Communication Skills. New Delhi: Dhanpat Rai & Co.

Books Accompanied by Audio Cassettes

Getting on In English by John Haycroft (The BBC Intermediate Course).

Choosing Your English by John Haycroff & Terence Creed (The BBC Course for Advanced Learners).

Keep Up Your English by W. Stannard Allen (The BBC Course).

- Advanced Spoken English through English Grammar and Simple Phonetics by Sharad Srivastava & Nidhi Srivastava (Franklin International).
- A Text Book of Pronunciation of English Words by J. Sethi & D.V. Jinde.

Web Sites

www.britishenglish.org www.indanenglish.com www.iatefl.com

HINDI

EDU. 113. METHODOLOGY OF TEACHING HINDI				
Contact Hours: 75 Hours (Instruction) &15 hours (process)				
	Marks: 50 (End semester Examination)& 10 (CE)			
Objectives	Topics MODULE I	Process		
1.To acquaint with nature and scope of Hindi	1.Aims of teaching language- need and importance of language with special reference to the Lingua Franca of India – importance of Hindi as national and official language- Three Language formula- objectives of teaching Hindi as a second Language in Kerala- Problems of Multi Lingualism and medium of instruction MODULE II	 Group learning cum discussion on three language formula and seminar on lingua franca of India. General survey on language problem and medium of instruction. 		
2.To understand the theory of skill acquisition	Acquisition of language skills such as understanding, speaking, reading and writing- formation and development of vocabulary	3. Preparation of comparative analysis of language development with students' psycho physical development.		
	MODULE III			
3.To understand Approaches & Methods of Teaching Hindi	1.Maxims of language teaching- Known to unknown-simple to complex- concrete to abstract-seen to unseen- particular to general- whole to part- analysis to synthesis- psychological to logical 2.Communicative approach-direct,	4. Collection and compilation of facts related to maxims of language teaching.5. School classroom observation and preparation		
	indirect method- structural method with special reference Noam Chomsky-Bilingual method- grammar translation method- project method-play way method- constructivist method-cooperative learning-collaborative learning	of reports.		
4. To understand the Theoretical Bases of major approaches viz constructivism, behaviourism.	MODULE IV Principles of language teaching- principle of motivation, interest- correlation with life- individual differences-revision –selection- planning- learning by doing	6. Assignments on principles of language teaching.7. Debate on constructivist and behaviourist methodology.		
5.To understand the techniques of teaching vocabulary, functions, different language forms	MODULE V 1.Teaching of prose-aims, importance, types-literary and linguistic peculiarities-similarities in sentence construction in Hindi and English- similarities and contrast	8. Real classroom observation and mock practices.		

	with Malayalam- comprehension ability-different methods of teaching prose 2. Teaching of poetry-aims, appreciation, duty, sound, rhythm, diction, emotions- Exercises for aiding and testing comprehension and appreciation-different methods of teaching poetry 3. Teaching of composition- aims , general principles-guided and free composition- types of composition- correction of mistakes 4. Teaching of drama and story- definition, aims and methods 5. teaching of grammar- methods, place and objectives 6. Teaching of conversation-need, importance and methods	
6. To update on the present practices of learning and instruction practiced in the state schools of Kerala	MODULE VI Importance of text books- significance, objectives, types, principles and characteristics	9. Comparative analysis of textbooks.

EDU. 133. PEDAGOGIC PRACTICES IN HINDI		
Contact Hours: 75 Hours (Instruction) &15 hours (process)		
Ma	rks : 50 (End semester Examination)& 10	O(CE)
Objectives	Content	Process
	MODULE I	
1.To understand the	Instructional objectives of Hindi with	1. Preparation of
Aims and Objectives of	Blooms Taxonomy.	achievement test.
Teaching Hindi	1.1 Concept of objective based	
	instruction and evaluation	2. Analysis of the student
	1.2 Instructional objectives and	scholastic output.
	specifications of Hindi.	1
	1.3 Principle of writing objectives	
	1.4 Constructivist format-preparation	
	of activities-selection of activities	
	1.5 Issue based curriculum –Issues,	
	critical pedagogy	
	MODULE II	
2.To develop skills for	a. Teaching skills for classroom	Prescribed for practical
effective teaching (by	extension -Micro teaching, skill based	1
micro teaching)	practice-3 different skills and Link	
	practice	
	MODULE III	3. Perform content

3. To understand and do the pedagogic analysis of Hindi of 8 th standard and 9th standard.	Pedagogic Analysis of Lessons- Meaning and principles of content analysis- subject matter and language- Learning experiences-Evaluation	 analysis, found out specifications, objectives in behaviorist system. 4. Find out issues, sub issues-modular approach- activities etc in constructivist pattern and find out the importance of critical pedagogy
4.To acquaint with Planning of instruction	MODULE. IV Lesson Planning-Ways of introducing various topics, Developing the skills, types of learning experiences required for different methods of teaching-Unit plan, year plan, importance of planning in education	5. Write discussion lessons in various strategies- demonstration, criticism lessons according to constructivist pattern
5.To understand the Evaluation techniques and prepare objective based test items as per the existing state syllabus pattern in Hindi	MODULE. V Evaluation of student achievements- tools of evaluation-formative and summative methods- continuous and comprehensive evaluation-tools used for CCE –Grading system-The new evaluation system existing in Kerala	 6. Make sample question paper for objective based test and new type tests with blue print, value points and question wise analysis 7. Make mark list or grade list of students using spread sheet and analyze it.

EDU 153 CURRICULUM & RESOURCES IN HINDI			
	Contact Hours: 75 Hours (Instruction) &15 hours (process)		
Marks	: 50 (End semester Examination) &	2 10 (CE)	
Objectives	Content	Process	
1.To understand the principles of Organizing Curriculum	MODULE I Hindi curriculum – construction and organization of Hindi curriculum-position of Hindi in school curriculum-Present position,-time allotted at various stages- principles of curriculum construction, approach to curriculum construction- modern trends in curriculum construction- difference between curriculum and syllabus.	1. A comparison of Hindi text books in Kerala syllabus and CBSE syllabus.	
	A critical study of Hindi syllabus for all classes from V to XII		
	relevance, various types of lessons		

	MODULE II	
2. To provide	New Developments in Hindi- A	2. Prepare a report on Hindi
familiarization with	brief history of Hindi in	commission.
Resources for	Commission	
teaching/learning Hindi	Reports- its importance,	
	recommendations,	
	Implementations etc	
	New techniques of Hindi	
	teaching- Hindi Magazines,	
	CD's, VCD's etc	
	MODULE III	
3.To have a hands on	a. Library and language lab-	3. Prepare a CD useful for
approach in organizing	importance of library books-	teaching Hindi
and maintaining library,	CD's Computers, Internet etc.	
language lab and other	b. Use of language lab-old and	4. Preparation of language
resources in Hindi	new types of language labs their	lesson for High School Class
	functioning.	with the help of computer.
	MODULE IV	
4. To understand the	Models of teaching- Concept	5. Prepare a lesson plan on
meaning, scope and	Attainment, Advance Organizer,	any topic USING Models of
importance of models of	Inductive-Deductive models	Teaching.
teaching		

EDU. 183. PROFESSIONALIZING HINDI EDUCATION			
	Contact Hours: 75 Hours (Instruction) &15 hours (process)		
Ma	rks: 50 (End semester Examination)& 10	(CE)	
Objectives	Content	Process	
1.To appreciate the role of Hindi in the Society	MODULE. I A short history of Hindi language- history of literature - middle & modern	1. Preparation of essay type notes on any branch in Hindi.	
2. To acquaint with the co-curricular activities in Hindi	MODULE. II Co-curricular activities of Hindi, programme -their rules and regulations	2. Prepare any two activities included in Language Games- with rules and regulations	
3. To understand the importance of nurturing talented children	MODULE. III Characteristics of gifted students in Hindi. Enrichment programmes and methods for the gifted students and Fostering creativity.	3. Preparation of enrichment materials for gifted students on a specific topic/list five creative activities that are suitable for developing language creativity in students	

4. To familiarize the I T related professional inputs of teaching.	MODULE. IV New aids for Hindi teaching- computer assisted Instruction, CDs, VCD's Internet etc.	4. Arrange a seminar by using computer assistance
5.To be a Professional Hindi Teacher	MODULE. V Definition of profession, Teaching as a profession. Traits of professionalism, Professional ethics, Teacher Competencies listed by NCTE Soft Skills. Professional growth of Hindi teacher. – Teaching, Research and Extension. Research journals in Hindi. Role of SCERT and NCERT in the professional growth of a teacher. Professional organizations of teachers. Hindi teacher, qualities of a good Hindi teacher, nature of work and duties-qualifications	5. Prepare a report on qualities of a good Hindi teacher

- 1. Acharya Sithram Chathurvedi. Bhasha Ki Siksha.
- 2. Dr. Sreedharanantha Mukherji. Rashtra Bhasha Ki Siksha.
- 3. P.G. Kamath, Anya Bhasha Sikshan Eak Bhasha Vajanik Drishty.
- 4. K.M. Siva Ram Sharma. Hindi Sikshan Kala.
- 5. Bhai Yogendra Jit. Hindi Bhasha Sikshan.
- 6. Shri Satyanarayan Thripadi. Hindi Bhasha Aur Lipi Ka Aithihasic Vikas.
- 7. Dr. Ramakant Padak and Dr. Bnhagugadh Deekshi, Adhunik Hindi Vyakaraan Aur Reehana.
- 8. Nanda Bulare Baj Peyi, Sahitya Sushama.

MALAYALAM

EDU.114.METHODOLOGY OF TEACHING MALAYALAM		
Contact Hours: 75(instruction) & 15(process) Marks: 50 (semester Examination) & 10 (CE)		
Objectives		Process
Objectives	MODULE. I (10Hrs)	1100035
 Gets acquainted with the evolution of Malayalam language and Gets familiarised with nature and scope of language with special reference to mother tongue 	Evolution of Malayalam language over the ages Status of Malayalam language at different periods Relationship between language and social development Functions of language in the society Influence of mother tongue in the formation of culture Relevance of mother tongue in a democratic society Mother tongue as a medium of instruction Malayalam as an official language	 Prepare a short essay on inter relationship between language and social development. (group activity) Open discussion on Mother tongue as a tool for transforming culture Seminar(group) on Need of mother tongue as the medium of instruction
 3.finds out the impact of art and folklore in the development of language and culture through analysing different forms arts, Idioms, phrases, proverbs, folklore, etc 4. Gets acquainted with the influence of other languages over Malayalam 5. understands the importance of basic language skills and their inter relationships 	MODULE. II (8Hrs) Culture and its association with arts, folklore, idioms, phrases, proverbs, etc. Relation between language and culture Impact of arts and folklore in the development of culture and language The changes occurred in Malayalam language and culture through it's contact with Sanskrit, Arabic and English The language used as a tool for cultural dominance with special reference to Sanskrit and English MODULE. III (10Hrs) Listening Speaking Reading Writing Importance of basic skills in language learning–strategies and activities appropriate for different levels –process learning	 4. Prepare a short essay on the impact of arts and folklore in the development of culture and language 5. Debate on Role of other languages in transforming culture 6. Conduct a symposium on cultural dominance of languages 7. Trace out the activities included in the Text book/Hand book for developing basic language skills among the learners 8. Find out the activities mentioned in the text book and hand book for developing the creativity among the learners

	MODULE. IV (15Hrs)	
4. gets acquainted with	Importance of discourses in the daily life.	9. Prepare an editorial
the theory and practice of different language	Functions of seminars, symposiums,	for your class magazine
discourses popular	debates, discussions, speeches, brain	
in the day to day life	storming, screen play, essays,	10. Prepare postures
	memorandums, letter writing, notice,	on any social issues
	press notes, editorial, postures, advertisement, travelogue, biography,	11 11 1
	auto biography, description,	11. Write a screen play
	dramatisation etc. for effective	based on any one of the poems in the 8 th or
	communication	9 th std text book
	MODULE. V (12 Hrs)	
5. understands the	Lecture cum Demonstration method	12. Select a poem from
approaches ,Techniques	Inductive and Deductive method	any text book
and Methods of	Dalton Plan	and present the same
teaching Malayalam	Project method	through simulation
	Play way method Role play and simulation	(group task)
	Co operative and Collaborative	
	strategies	
	Problem solving method	
	MODULE. VI (20Hrs)	
6. understands the basis	Theory and practice of :	13. Conduct a debate
of major theoretical	cognitive constructivism (Piaget and	on the relevance of
approaches viz	Bruner) and Social constructivism	critical pedagogy
constructivism, social	Chomsky's concept of language development	in the context of the
constructivism and behaviourism	Multiple intelligence	teaching-learning
benaviourism	Critical Pedagogy	atmosphere prevailing in the schools
	Recent changes practiced in the state	in Kerala
	schools	14. Conduct a seminar
		on Chomsky 's
		concept of language
		development

EDU.134. PEDAGOGIC PRACTICES IN MALAYALAM		
Contact Hours: 75 Hours (Instruction) and 15 Hours (process) Marks: 50 (End semester Examination) and 10 (CE)		
Objectives	Topics	Process
1. Understands the Aims and Objectives of Teaching Malayalam	MODULE. I (10Hrs) Aims of Teaching Malayalam Objectives of Teaching Malayalam at Secondary Level Taxonomy of Educational Objectives and the objectives based on cognitive learning theories	1. Discusses and prepares the list of specific objectives of teaching Malayalam at higher secondary level 2. Compares and contrast the mental processes of the learner in both the approaches
2. Develops effective skills in Teaching – Micro Teaching	MODULE. II (10Hrs) Core skills Micro teaching -Definition & Principles -Micro Teaching Cycle -Limitations	3. Prescribed in practicals
3. Understands and does Pedagogic Analysis of Malayalam lessons in 8 th &9 th /11th standards	MODULE. III (18Hrs) Pedagogic Analysis -Meaning and steps of analysis -Pedagogic analysis of the lessons in the text book of 8 th & 9 th /11th standards (group task)	 4. Analyse and trace out the learning activities included in any one topic on the basis of prescribed curricular objectives (Group task) 5. Analyse any one text book and Trace out new vocabulary, phrases, idioms, proverbs, and grammar contents (group task)
4. Get acquainted with the student , learning process and acquire practical experience in creating conducive environment for effective learning	MODULE. IV (7 Hrs) Physical, Psychological, Social and Emotional nature of the student. Peculiarities of learning activities. Specific peculiarities of language class. Nature of learning and learning strategies. Role of teacher in the language class. Role of students in the language class. Techniques of creating conducive and democratic environment for learning Qualities of a good learning activity. Appropriateness with the latest approach -interesting -challenging -feasibility -sense of need -considering multilevel of students	6. Prepare and present a vision about your own class room

	MODULE. V (20Hrs)	
5.Get acquainted with Planning of Instruction based on	Nobole V (2011s) Need and significance of Planning Planning of Instruction -Year plan -Unit plan	7. Prepare a year plan /unit plan for 8 th 0r 9 th standard (group task)
theories of Learning	-Chit plan -Lesson plan (teaching Manual) Techniques and theories of developing year plan, unit plan, and lesson plan. Techniques of developing learning equipments. Techniques of implementing learning activities and its evaluation. Process and utility of maintaining response sheet of the teaching Manuel.	8. Prepare a teaching manual based on constructivist pedagogy
	MODULE. VI (10Hrs)	
6. Understands the evaluation techniques and prepares objective based test items as per the	Importance of evaluation. Different types of evaluation –merits and limitations. Continuous and comprehensive evaluation –Area of CCE. Evaluation criterion for different learning	9. Conducts a panel discussion on the relevance of grading system in the B.Ed programme
existing state syllabus pattern in Malayalam	Evaluation criterion for different learning activities. Construction and administration of achievement tests. Evaluation of mental processes. Relevance and administration of grading system.	10. Prepares a sample question paper considering all the elements of a scientific question paper (group task)

EDU.154. CURRICULUM AND RESOURCES OF MALAYALAM EDUCATION			
	Contact Hours: 75 Hours (Instruction) and 15 Hours (process)		
Objectives	Marks: 50 (End semester Examination) and 10 (CE Topics	Process	
Objectives	MODULE. I (20Hrs)	1100035	
1. Understands the principles of organising curriculum	Curriculum – A conceptual analysis Curriculum and syllabus Principles of curriculum construction Nature of language curriculum Modern trends in curriculum construction -spiral and open ended curriculum	1. Critically analyse the organisation of the content within a unit in relation to curriculum organisation	
2. Understands the techniques of using text books, Teachers hand books and other relevant material s for transacting language curriculum	MODULE. II (20Hrs) Importance and significance of Resource materials for teaching-learning process Techniques of using teacher's hand book, periodicals, magazines, handouts, books, and other local resources as learning materials Techniques of using text books (prose and poetry) as learning materials	2. Collects articles from periodicals and prepares a scrap book for using curriculum transaction	

3.Gets acquainted	MODULE. III (10Hrs)	
with the preparation	Use of Audio-visual aids –Radio, TV, OHP, ,	3.Prepares a collage
and use of various	Video, language Lab, Internet, CD, Clippings,	on any relevant
learning aids in	Pictures, Charts, Models etc.	subject
Malayalam		
	MODULE. IV (12 Hrs)	4. Prepare two
4.To get hands on	Importance of library in language learning	journal articles
approach in	Types of library	reviews from
organising and	Organisation of classroom library and school	popular journals of
maintaining library,	library	Malayalam
language lab and	Techniques of library utilisation in language	5. Prepare a list of
other resources in	learning	10books with all
Malayalam	Relevance of language lab	bibliographic
		details.
	MODULE. V (13Hrs)	
5.To get hands on	Importance of reciting poems in chorus in the	6. Collects
experience in	language classroom	folksongs with
appreciating poems,	Importance of analysing symbols, images,	similar tunes of
short stories and	rhetoric, tunes etc. used in poems	poems in the text
other forms of	Importance of analysing symbols, images,	book and recite in
literature	rhetoric, etc. used in stories for the appreciation	groups
		7. Analyse the
		language, images,
		rhetoric and
		symbols used in any
		short story/Poem

EDU. 174. PROFESSIONALIZING MALAYALAM EDUCATION Contact Hours: 75 Hours (Instruction) &15 hours (process) Marks : 50 (End semester Examination)& 10 (CE)		
Objectives	Topics	Process
1.To appreciate the role of Malayalam in the society	MODULE. I (15 Hrs) Malayalam language and society Malayalam language & society, language and culture, Mother tongue and folklore, colloquial language and dialects Community resources- Types and utilization.	 Prepare a list of folk arts and cultural activities in your locality. Prepare a list of colloquial words used in your locality write short notes on five community resources that can be used for Malayalam teaching.

2.To acquaint with the co-curricular activities in Malayalam	MODULE. II (15 Hrs) Co curricular activities in malayalm language Co curricular activities based on school related activities like literary club, drama club etc Malayalam language and Cinema	 4. Staging a short drama in groups 5. Literary quiz programme in groups 6. preparation of wall magazine in groups 7. prepare a short screenplay based on topic within the uni.
3.To understand the importance of nurturing talented children	MODULE. III (15 Hrs) Fostering giftedness and creativity in malayalam language Characteristics of gifted students Enrichment programmes and methods for the gifted students and Fostering creativity.	 8. Preparation of enrichment materials for gifted students on a specific topic 9. list five creative activities that are suitable for developing language creativity in students
 4. To familiarize the IT related professional inputs of teaching. 5. To understand the meaning, importance and concept of models of teaching in Malayalam language teaching 	MODULE. IV (20 Hrs) ICT in language teaching Computer aided teaching, e- learning resources in teaching Malayalam, Videoconferencing Module preparation for e-content Models of Teaching – meaning and scope Suitable models for Malayalam language teaching-Concept Attainment and Synetics.	10. Write a script for developing an e-content on any language discourses (story,poetry etc.).11. Preparing lesson plan based on one model
6.To be a professional Malayalam teacher.	MODULE. V (10Hrs) Professional development of malayalam teacher Teaching as a profession Professional ethics Personal and professional qualities of a teacher Special qualities of Malayalam teacher, Ways and means of improving professionalism among Malayalam teachers Traits of professionalism- competencies listed by NCTE	12. Malayalam teacher is an all rounder in schools-express your views in the class13. Conducting a discussion on the changing role of teachers.

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SANSKRIT

METHODOLOGY OF TEACHING SANSKRIT		
Contact Hours: 75 Hours (Instruction) &15 hours (process) Marks : 50 (End semester Examination)& 10 (CE)		
Objectives	Content	Process
Objectives	MODULE, I	TIOCESS
1.To acquaint with the nature and scope of Sanskrit	Learning Sanskrit, its significance, historical background, world language- link between with other languages, modern and classical-comparison with each- contribution to the other languages and literatures- its importance in modern society- contribution of Sanskrit to various subjects.	1. List any five classics in Sanskrit.
	MODULE. II	
2.To understand the theory of skill acquisition	a. Language skills-acquisition of skills- listening and reading skills, techniques to attain these skills, different kinds of reading, methods of teaching to read- importance of pronunciation sounds- organization of speech- Training for correct pronunciation etc b. Productive skills- speaking and writing skills, their importance, peculiarites- causes of bad spelling-training for spelling correction.	2. Making at least five criticism lesson plans with the help of computer instruction.
	MODULE. III	
3.To understand Approaches & Methods of Teaching Sanskrit	General principles and methods of language learning with special reference to Sanskrit. Psychology of language learning- functions of language learning ,maxims of language learning –theories of language learning	3. Preparation of power point presentation- internet browsing
	MODULE. IV	
4. To understand the theoretical bases of major approaches viz constructivism, behaviourism	Methods of teaching Sanskrit-a.Ancient methods, Gurukula- Padasala etc. Medieval methods , Bandarkar, textbook, direct method b. New method –Behaviourist, constructivist, issue based and critical pedagogy.	
	MODULE. V	
5. To understand the techniques of teaching vocabulary, functions and different language forms.	 a. Teaching of prose-aims of teaching prose, methods of reading prose-different types of prose lessons. b. Teaching of poetry- aims of teaching poetry, methods of teaching poetry- vritta- Alankara -Rasas- Appreciation etc. 	4. Make a list of difficulties that students may experience while teaching grammar.

	 c. Grammar- place of grammar-aims & objectives Functions of grammar-Methods of teaching grammar. d. Composition-oral work and written work- types of composition 	
6. To update on the	MODULE. VI	5. Suggest 5 non
present practices of	Text book- use of textbooks- detailed	detailed textbooks with
learning and instruction	texts, non detailed- differences in	bibliographic details
practiced in the state	teaching both texts- use of new aids like	for high school
schools of Kerala	computer, internet etc.	students.

PEDAGOGIC PRACTICES IN SANSKRIT		
Contact Hours: 75 Hours (Instruction) &15 hours (process) Marks: 50 (End semester Examination)& 10 (CE)		
Objectives	Content	Process
1.To understand the Aims and Objectives of Teaching Sanskrit	MODULE. I Instructional objectives of Sanskrit with Blooms Taxonomy. 1.1 Concept of objective based instruction and evaluation 1.2 Instructional objectives and specifications of Sanskrit. 1.3 Principle s of writing objectives 1.4 Constructivist format-preparation of activities- selection of activities 1.5 Issue based curriculum –Issues, critical pedagogy	1. Prepare objectives of all domains on a selected topic.
2.To develop skills for effective teaching.	MODULE. II a. Teaching skills for classroom extention-Micro teaching, skill based practice-3 different skills and Link practice b. Models of teaching- Concept Attainment, Advance Organizer, Inductive-Deductive models	2. Prepare a lesson transcript for a topic based on any one model of teaching
3. To understand and do the pedagogic analysis of Sanskrit of 8 th standard and 9th standard.	MODULE. III Pedagogic Analysis of Lessons-Meaning and principles of content analysis- subject matter and language-Learning experiences-Evaluation	 3. Perform content analysis, found out specifications, objectives in behaviourist system 4. Find out issues, sub issues-modular approach-activities etc in constructivist pattern and find out the importance of critical pedagogy

4.To acquaint with Planning of instruction	MODULE. IV Lesson Planning-Ways of introducing various topics, Developing the skills, types of learning experiences required for different methods of teaching-Unit plan, year plan, importance of planning in education	5. Write discussion lessons in various strategies- demonstration, criticism lessons according to constructivist pattern
5.To understand the Evaluation techniques and prepare objective based test items as per the existing state syllabus pattern in Sanskrit	MODULE. V Evaluation of student achievements- tools of evaluation-formative and summative methods- continuous and comprehensive evaluation-tools used for CCE –Grading system-The new evaluation system existing in Kerala	6. Make sample question paper for objective based test and new type tests with blue print, value points and question wise analysis

CURRICULUM & RESOURCES IN SANSKRIT		
Contact Hours: 75 Hours (Instruction) &15 hours (process)		
	Marks : 50 (End semester Examination)& 10 (· · ·
Objectives	Content	Process
	MODULE. I	
1.To understand the principles of Organizing Curriculum	Sanskrit curriculum – construction and organization of Sanskrit curriculum-position of Sanskrit in school curriculum-Present position,-time allotted at various stages- principles of curriculum construction, approach to curriculum construction- modern trends in curriculum construction- difference between curriculum and syllabus. A critical study of Sanskrit syllabus for all classes from V to XII relevance, various types of lessons	1. A comparison of Sanskrit text books in Kerala syllabus and CBSE syllabus
2.To provide familiarization with Resources for teaching/learning Sanskrit	MODULE. II New Developments in Sanskrit- A brief study of Sanskrit Commission Report- its important recommendations, Implementations etc New techniques of Sanskrit teaching- Navavani Magazines, CD's, VCD's etc	2. Prepare a report on Sanskrit commission

3. To have a hands on approach in organising and maintaining library, language lab and other resources in Sanskrit	MODULE. III a. Library and language lab- importance of library books- CD's Computers, Internet etc. b. Use of language lab-old and new types of language labs their functioning.	 3. Prepare a CD useful for teaching Sanskrit 4. Preparation of language lesson for High School Class with the help of computer.
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PROFESSIONALIZING SANSKRIT EDUCATION Contact Hours: 75 Hours (Instruction) &15 hours (process) Marks : 50 (End semester Examination)& 10 (CE)		
Objectives	Process	
Objectives	Content MODULE. I	1100035
1.To appreciate the role of Sanskrit in the Society	A short history of Sanskrit language- history of literature-history of sasthras, different schools, Indian dharsanas, Grammar,	1. Preparation of essay type notes on any branch in Sanskrit.
2. To acquaint	MODULE. II Co-curricular activities of Sanskrit, programmes included in samskritholsavas-	2. Prepare any two
with the co- curricular activities in Science	their rules and regulations, Evaluation Criteria	activities included in saskritholsavam with rules and regulations
3. To familiarize the I T related professional inputs of teaching.	MODULE. III New aids for Sanskrit teaching- computer assisted Instruction, CDs, VCD's Internet – E-Learning resources and E-Content preparation.	3. Arrange a seminar by using computer assistance
4.To be a Professional Sanskrit Teacher	MODULE. IV Sanskrit teacher, qualities of a good Sanskrit teacher, nature of work and duties- qualifications- Teaching a profession- Professional ethics- Traits of professionalism, soft skills	4. Prepare a report on qualities of a good Sanskrit teacher

1. Practical Sanskrit Grammar	: PRD Sarma		
2. First book of Sanskrit and Second Book of Sanskrit: Bhandarkar			
3. A Sanskrit Grammar for students	: A MacDoval		
4. Kuvalayanadam	: Appaya Dikshdar		
5. Sidhanta Kaumudi	: Bhattoji Dhikshidar		
6. Laghusidhanta Kaumudi	: Varadaraja Panditan		
7. Sidharupa	:		
8. Rasa and Dhwani	: Dr. A. Sankarn		
9. Kavyaprakasa	: Manmatan		
10.History of Sanskrit literature	: Keith		
11. Sahityadarpana	: Viswanadha		
12. Vritaratnakara	: Kedarabhattaha		
13. Sabdasodhini	: A.R. Rajaraja Varma		
14. Vritamanjari	: Pingala Muni		

TAMIL

EDU 116. METHODOLOGY OF TEACHING TAMIL Contact Hours: 75 Hours (Instruction) &15 hours (process)		
	Marks : 50 (End semester Examination)& 10 (CE)	
Objectives Content		Process
1. To acquaint with the nature and scope of Tamil	MODULE I Nature of language-origin and growth-language learning. The aims of teaching the mother tongue The mother tongue as medium of thought and communication of ideas, emotions and experiences, means of developing imagination and aesthetic taste-language as cultural heritage and means to final development	 Prepare a minor project on Tamil literature Conduct an interview with the Tamil literary figure
		Analysis of Folk Art forms and their Cultural background.
	MODULE II	
2. To understand the theory of skill acquisition	 a. HEARING Learning by hearing – encourage hearing habits – get practice in paragraphing – briefing of paragraph and long paragraph – to attain various aims-knowing of news – appreciation etc advertising for the above the difference between hearing and understanding. b. SPEAKING Speak with clarity-speak without grammatical mistake-traditional way proverbs-ability in speech in the initial stage debates-discussions- question on time-make use of these in the primary, middle and high school classes. c. READING The aims of teaching reading methods, reading according to letters, reading according to words, their benefits and draw backs (merits and demerits), increase of vocabulary, to instigate in the studies, loud reading, methods, merits and demerits, making use of books, reading in libraries, dailies weeklies using, deep study, wide study, aims, merits and demerits. d. WRITING Handwriting and writing without spelling mistakes, give practice for that, certain basic exercises. How to hold the pencil or pen, the characteristics of good handwriting, boldness, clarity, beauty, proper spacing, methods of writing exercise, writing on lines, copy writing, writing on hearing. 	

3. To understand Approaches & Methods of Teaching Tamil	MODULE III a. The methods of teaching mother tongue- ancient way of teaching, play way, acting way, conversation way, study of supervision way, project way, kinder garden method, individual teaching way, submissions, and other modern trends-Co-operative and Collaborative learning b. The aims and methods of teaching prose, poetry, grammar, and composition-general and specific aims. and other modern trends	
4. To understand the Theoretical Bases of major approaches viz constructivism, behaviourism	MODULE IV a. Behaviourist approach b. Constructivism, Social Constructivism	Restructure a behaviourist lesson plan in to constructivist form
5. To understand the techniques of teaching vocabulary, functions and different language forms	MODULE. V Modern techniques in teaching Tamil- discussion, Seminar, team teaching-brain storming, techniques making the past real- utilizing community resources for teaching Tamil.	Prepare a resource unit for any unit in Tamil text book
6. To update on the present practices of learning and instruction practiced in the state schools of Kerala	MODULE. VI NCF-2005, KCF 2007-Issue based curriculum, Critical Pedagogy	

EDU 136. PEDAGOGIC PRACTICES IN TAMIL Contact Hours: 75 Hours (Instruction) &15 hours (process) Marks : 50 (End semester Examination)& 10 (CE)		
Objectives	Content	Process
1. To understand the Aims and objectives of Teaching Tamil	MODULE I General aims of teaching Tamil. Taxonomy of educational objectives- Bloom's Taxonomy, objectives of Tamil teaching. Cognitive, affective and psychomotor domains Specific objectives of teaching Tamil.	Prepare a pictorial representation of Taxonomy of educational objectives.

2. To develop skills for effective teaching (by micro teaching)	MODULE II Skills and their components-teaching skills essential for Tamil teacher. Qualities and competencies of a Tamil teacher	Prescribed in practicals
3. To understand and do the Pedagogic analysis of Tamil of 8 th & 9 th standard	MODULE III Pedagogic analysis of Tamil content of 8 th and 9 th standard, Kerala State into terms, facts, concepts etc.	Pedagogic analysis of standard 8 th Tamil text book
4. To acquaint with Planning of instruction	MODULE IV Need and importance of planning Levels of planning-year plan, Unit plan, Lesson plan. Modern trends in planning instruction Behaviourist and constructionist model of planning.	Prepare a unit plan
5. To understand the Evaluation teaching and prepare objective based test items as per the existing state syllabus pattern in Tamil	MODULE. V Continuous comprehensive evaluation, system of grading Different types of test items Construction of Achievement test and diagnostic tests.	Construct 5 multiple choice item from a topic which test understanding OR Making a mark list/rank list using a spread sheet and making graphs like bar/pie to analyse results

EDU 156. CURRICULUM & RESOURCES OF TAMIL EDUCATION			
Cor	Contact Hours: 75 Hours (Instruction) &15 hours (process)		
	Marks : 50 (End semester Examination)&	10 (CE)	
Objectives	Content	Process	
	MODULE I		
1. To understand the	Meaning and scope of curriculum	Compare the styles of	
principles of	construction	organization of curriculum in	
Organizing	Importance of curriculum construction	9 th standard text books of	
Curriculum	Changing concept of curriculum	state and cbse school syllabus	
	Objectives of each and their influence	5	
	on the curriculum,		
	Forces effecting curriculum		
	development : Philosophical,		
	Sociological and Psychdogical		
	Curriculum development		
	Principles of organizing curriculum		
	Types of Curriculum-Core Curriculum,		
	Hidden Curriculum		

	MODULE II	
2. To provide	Resources for teaching learning Tamil-	Prepare a Tamil dictionary
familiarization with	Community resources-utilizing	with 25 words
Resources for	community resources	OR
teaching/learning	Technological Resources	Prepare a study guide for one
Tamil	Teacher as a curriculum developed	chapter of standard 8 th Tamil
	Supplementary reading materials	text book
	MODULE III	
3. To have a hands on	Library & its uses	Prepare any one language
approach in	Language Lab	game
organizing and	Language Games	
maintaining library,	Community Resourse	
language lab and other	Teachnological devices	
resources in Tamil	IT enabled education	
	MODULE IV	
4. To understand	Models of teaching-concept attaintment	Prepare a lesson transcript for
models of teaching	model, advance organizer model,	a topic based on any model of
	inductive thinking model.	teaching (3 marks)

EDU 176. PROFESSIONALIZING TAMIL EDUCATION Contact Hours: 75 Hours (Instruction) &15 hours (process)			
	Marks : 50 (End semester Examination)& 10 (CE)		
Objectives	Content	Process	
1. To appreciate the role of Tamil in the Society	MODULE I Values of Teaching Tamil Physiological, Sociological & Philosophical bases of Tamil language Tamil and other languages-the importance of Tamil as a mother Tongue in learning Non-language subjects	Experiencing the making of a multimedia package/very short film/short documentary/ puppetry/theatre education OR Conduct an exhibition with the help of community resources	
2. To acquaint with the co-curricular activities in Tamil	MODULE II Techniques and Strategies Debate b. Discussion c. Role play d.Simulation e.Exhibition and workshop, Club activities	Prepare a script for role playing in Tamil	
3. To understand the importance of nurturing talented children	MODULE III Individual difference-gifted children in Tamil language, creativity, Nurturing talent and creativity In Tamil language	A buzz session to list techniques to identify and nurture talent. Prepare an enrichment material in Tamil for 8 th Std gifted students	

4. To familiarize the IT related professional inputs of teaching.	MODULE IV IT as an education Technology in Tamil education Educational informatics and e-Learning	Preparation of power point presentation with ten slides
5. To be a Professional Tamil Teacher	MODULE. V Teaching as a profession. Professional ethics. Ways and means of improving professionalism. Personal and Professional qualities of a Tamil teacher. Inservice Teacher education Pre-service course Orientation and Refresser courses Self study Doing Research for self development.	

	KEFEKENCES	
1.	History of Tamil literature.	Dr. Mu.Va.
2.	-do-	Anandan
3.	-do-	Sivasubramanian
4.	-do-	Jeyam
5.	Tolkaappiyam	
6.	Nannool – Viruttiyurei	
7.	Tamizhilakkanam (for 6 to 12).	Kapilavaanan.
8.	Ileinjar Ilakkanam.	Dr. M. Rajamaanikkanaar.
9.	Dandi Alamkaaram	
10.	Ani Ilakkana Nool	Dr. Ka. Tamizharacan
11.	Tamizh Ilakkana Ilakkiya Arimukam	V. Ganapati
12.	Yaappanumkala Kaarikei	Amita Saagarar
13.	Ilakkiyak Kalei	A.S. Gnanasambandan
14.	Mozhi Varalaaru	Dr. Mu.Vaa
15.	Ilakkiiya Thiran	Dr. Mu. Vaa.
16.	Tamizh Mozhi Varalaaru	Dr. Su.Saktivel.
17.	Ilakkiyak Kalei	Dr.Tamizhannal
18.	Mozhi Iyal	Su. Innaasi
19.	-do-	Dr.R.Srinivasan
20.	Tiranaaivuk Kalei	T.S. Natarajan
21.	Itazh Iyal Kalei	Aa. Maa.Sami
22.	Naattup Pura Iyal – Or Aayvu	Su.Saktivel.
23.	Tamizhar Naattup Paatalkal	Naa. Vaanamaamalei.
24.	Naattup Pura Ilakkiya Varalaaru	Dr. Su. Shanmuka Sundaram.
25.	Mass Communication	Dr. Arockiya Naatam
26.	Takaval Totarpiyal	Krishnaswamy
27.	Kanip Pori Mahaa Akraati	-
28.	Inaiya Dhalam	Bhuvaneswari
29.	Nunnilei Karpittal	Mu.Govindarajan
	Payana Ilakkiyam	Dr.Ka. Pa. Aravanan
	Nunnilei Karpittal	Aravindasami
	Pazham Tamizh Ilakkiyattil Isai Iyal	Dr. Vi.Pa. Ka. Sundaranaar

URDU

EDU. 117. METHODOLOGY OF TEACHING URDU Contact Hours:75 (Instruction)&15 Process Marker50 (End Samaster Examination) &10 (CE)		
Objectives	Marks:50 (End Semester Examination)&10 (CH Content	Process
1. To acquaint with the nature and scope of Urdu language	MODULE. I (5 hours) 8.1 Language-Urdu Language-History and development Its relation with languages especially with Hindi and Persian- Development of Urdu Literature	
. 2. To familiarise with the four skills	MODULE. II (10 hours) 10.1 Urdu as a skill subject LSRW skills and the process skills. 10.2 Techniques to develop LSRW skills	 Film review of any two Urdu films. Preparation and presentation of a minimum of ten discourses.
. 3. To understand the theories of language learning	MODULE. III (16 hours)12.1Behaviourism12.2Urdu Constructivism12.3Multiple Intelligence12.4Chomskian concept of LanguageDevelopment12.512.5Stephen Krashen's theory12.6Dr. N.S.Prabhu's CBLT programme	3. Making multiple lesson plans on a single topic based on different approaches to experience the difference in outlooks.
 4. To understand the methods and approaches of teaching Urdu 5.To understand the nature of selecting language materials. 	 MODULE. IV (19 hours) 14.1 Method, approach, technique & strategy. Grammar –translation method, direct method, bilingual method. Structural approach, communicative approach, humanistic approach, whole language approach .Characteristics, principles, advantages & lilmitations. 14.2 Innovative practices in ULT Principles of selection and grading of language materials 	4. Select a topic in Urdu and prepare teaching material in two diverse methods.
6. To understand the techniques of teaching vocabulary,functions pronunciation,prosep oetry,and composition.	 MODULE. V (13 hours) 15.1 Vocabulary- Types of vocabulary, Kinds of words, Techniques of teaching vocabulary, Enrichment of vocabulary, Language games. 15.2 Form and function—methods of teaching grammar. 15.3 Teaching of pronunciation. 15.4 Types of prose- intensive and extensive reader, techniques of teaching prose & poetry. 	5. Preparation of library note containing review of at least 10 popular books.
7. To update on the present practices of teaching Urdu in the State of Kerala.	MODULE. VI15.5 Challenges of teaching Urdu in Kerala.15.6 Measures for improvement.	Get familiarised with the IT sources / packages that are helpful in teaching Urdu.

E	DU. 137.PEDAGOGIC PRACTICES IN URD	U
	Contact Hours:75 (Instruction)&15 Process Marks:50 (End Semester Examination)&10 (CE)	
Objectives	Content	Process
1. To understand the aims & objectives of teaching Urdu	MODULE. I 1. Aims of teaching Urdu. 1.1. Objectives-types of objectives. 1.2. Objectives of teaching Urdu at secondary level. 1.3. Taxonomy of educational objectives.	1. Picturise the taxonomy of educational objectives.
2. To acquaint with the principles of language teaching.	MODULE. II 2. Philosophical, psychological, sociological & technological principles of language teaching.	
3. To develop skills for effective teaching—micro teaching.	MODULE. III 3.Core skills. 3.1Micro teaching—definition-principles- micro teaching cycle,limitations.	2. Prescribed in Practicas
4. To understand and do the pedagogic analysis of Urdu of 8 & 9 th standard.	MODULE. IV 4. Pedagogy & androgogy. 4.1Content analysis –Pedagogic analysis— objectives & components.	 Perform content analysis Preparation of any two pedagogic analysis of Urdu.
5. To acquaint with the planning of instruction.	MODULE. V 5. Importance of planning—year plan, unit plan,lesson plan. 5.1Steps of lesson plan. 5.2 Types of planning—behaviourist, constructivistprose & poem.	5. Discussion lessons, Demo lessons, Criticism lessons
.7 .8 6. To understand the evaluation techniques and prepare objective based test items as per the existing state syllabus pattern in Urdu.	MODULE. VI 6.1 Evaluation - Different types of test items - merits and demerits. Construction and administration of Achievement tests . 6.2 Continuous and Comprehensive Evaluation, Evaluation Criteria for Assignment, Seminar and Project.	6. Prepare a question bank on a unit of your own choice from 8 th or 9 th std English Text Book
7.Diagnosis and remediation	MODULE. VII 7.1 Diagnostic test-importance-process of construction 7.2 Error analysis-remedial teaching— meaning. 7.3 Grading—importance & types.	7. Preparation of unit tests, diagnostic test and remedial lesson plan.

EDU. 157. CURRICULUM AND RESOURCES OF URDU				
N	Contact Hours:75 (Instruction)&15 Process			
Objectives	Marks:50 (End Semester Examination)&10 (CE) Objectives Content Process			
	MODULE. I (10 hours)	1100055		
1. To understand the principles of organising curriculum.	Curriculum—meaning,types. Principles of curriculum construction. Nature of language curriculum. Syllabus—types of syllabus—features and limitations.	1. Compare the styles of organisation of curriculum in IX std text book.		
2. To familiarise with resources for teaching/learning Urdu.	MODULE. II (20 hours) Course books, qualities of a good course book. Source books—work book. Supplementary reader—types. E-book, CD's etc.	2. Prepaere awork book on a selected unit in Urdu Stnadard 8		
3.To acquaint with the preparation of various learning aids in Urdu.	MODULE. III (20 hours) Audio-visual aids—radio,TV,tape recorder,OHP,computer,language lab,video clippings,pictures,charts,flashcards ,realia, models etc.	3. Make a drama(Story writing & acting)		
4.To acquaint with the use of library.	MODULE. IV (15 hours) Importance of library in language learning. E-library, inflibnet. Principles of selecting language books.	4. List out 10 literary books suitable for the secondary students.		
5. To familiarise with study skills.	MODULE. V (10 hours) Reference skills—use of dictionary. Note-taking, note- making,summarizing, paragraphing, information transfer.	5. Evaluation of present 8 th and 9 th class book.		

EDU. 177. PROFESSIONALISING URDU EDUCATION			
	Contact Hours:75 (Instruction)&15 Process		
	Marks:50 (End Semester Examination)&	±10 (CE)	
Objectives	Content Process		
1. To acquaint with the co-curricular activities in Urdu	MODULE. I Co-curricular activities-organisation of field and trips study tours, their importance, language club	 Arrange a gazal programme. Plan a language club activity for your school. 	
2. To understand the importance of nurturing talented children	MODULE. II Multiple intelligence, characteristics of talented children, identification, techniques of nurturing talented children	3. Prepare an enrichment material on a selected topic in Urdu	

	MODULE. III	
. 3. To familiarise the	Computer Assisted Instruction-Urdu	4. Experiencing the making of
IT related	typing ability-Online tele conferencing	a multi-media package/short
professional inputs		film/documentary/drama(Mush
in language teaching.		aryira)/role playing.
	MODULE. IV	
. 4. To be a	Definition of profession, Teaching as a	5. Conduct a discussion in the
professional Urdu	profession.	class on changing role of
Teacher	Traits of professionalism, Professional	teachers.
	ethics, Teacher Competencies listed by	
	NCTE	
	Soft Skills	
	Professional growth of Urdu teacher. –	
	Teaching, Research and Extension.	
	Research journals in Urdu.Role of	
	SCERT and NCERT in the professional	
	growth of a teacher. Professional	
	organizations of teachers.	
	Qualities and virtues of an Urdu	
	Teacher-organisation of libraries-	
	community participation in organising	
	various activities	

- 1. Principles of Language Study. H.E. Planer.
- 2. Language Teaching Robort Lado.
- 3. Method of Teaching the Mothertongue. Ryborn.
- 4. Tadrees-c-zaban-urdu-shervani
- 5. Urdu Ki Tadrees-Mainudheen
- 6. Urdu ki Dars 0 Tadrees Masayil- Haroon Ayoob.
- 7. Urdu Kaise Padayam Mainudheen.
- 8. Evaluation in Language Education CIII. Mysore.
- 9. Dr. Abdul Haq. Quwayide-e-Urdu.
- 10. Rasheed Hassan Khan. Saheeh Imla.
- 11. Rambabu Saksena. Tareekh-Adab-c-Urdu
- 12. Syed Shafi Murteza. Ashaf-c-Adab-KO Irthiqa.
- 13. Prof. M.A. Zahid. Tarz-c-Nigarish.
- 14. Anjumen Tarqui-Urdu-Hind. Nazeemal Balagth.
- 15. Azeemul Haq Jincidi. Urdu Adb Ki Tareekh.
- 16. Habbee Khan. Ghalib-se-Iqbal tak-
- 17. Prof. Moinudheen. Hum Urudu Kaise Pad haayen.
- 18. Shafi Ahmed Saddiqui. Urdu Zaban Wa Quawaid. Part I & II

COMMERCE

EDU. 118. METHODOLOGY OF TEACHING COMMERCE		
Contact Hours: 75 Hours (Instruction) &15 hours (process) Marks : 50 (End semester Examination)& 10 (CE)		
Objectives	Content	Process
1.To acquaint with the nature of Commerce	MODULE. I (5 hours) Meaning and Nature of Commerce 1.1 Meaning and Definition of Commerce. 1.2 Nature and Scope of Commerce subject. 1.3 Recent developments in commerce.	1. List out the major areas of commerce and its recent developments.
2.To familiarize the evolution of Teaching of Commerce	MODULE. II (7 hours) Evolution of Commerce Education 2.1 Commerce Education- Meaning, Definition and Importance. 2.2 Historical development of Commerce Education. 2.3 KCF(2007)	 Make an operational definition for Commerce education Collect any 5 definitions of Commerce education.
3. To understand Approaches, Techniques & Methods of Teaching Commerce	MODULE. III (35 hours) Approaches, Methods and Techniques of Teaching Commerce 3.1 Maxims and Principles of Teaching. 3.2 Approaches of Teaching Commerce- Learner centered approach, Competency based approach and Multi Media approach. 3.3 Approaches of Teaching Accountancy- Balance sheet approach, Equation approach, Spiral Development approach. 3.4 Methods of Teaching Commerce- Lecture method, Discussion, Debate, Project method, Problem Solving method, Inductive and Deductive method, Case Study method. 3.5 Techniques of Teaching Commerce- Review, Role play, Simulation, Brainstorming.	4. Prepare a Project plan or draft a case or a script of role play on any topic in Commerce.
4.To understand the theoretical bases of major approaches viz; Constructivism and Behaviourism	MODULE. IV (20 hours) Theoretical Bases of Constructivism and Behaviourism 4.1 Constructivism-Learning as a generative process. 4.2 Behaviourism- Objective based instruction 4.3 Constructivism vs. Behaviourism. 4.4 Large group activity and Small group activity. 4.5 Cooperative Learning Strategies. 4.6 Competency based instruction- meaning, features and steps.	5. Debate on Constructivism and Behaviourism.

	MODULE. V (8 hours)	
5. To update on the	Present Practices in Teaching of	6. Prepare a list of
present practices of	Commerce	five social issues that
learning and	5.1 Critical Pedagogy and Commerce –	can be addressed in
instruction in the	Problem posing education	commerce class.
Higher Secondary	5.2 Review on the latest happenings in the	
Schools of Kerala	State Higher Secondary schooling	
	procedure.	

EDU. 138. PEDAGOGIC PRACTICES IN COMMERCE Contact Hours: 75 Hours (Instruction) &15 hours (Process) Marks : 50 (End semester Examination)& 10 (CE)		
Objectives	Content	Process
1.To understand the Aims and Objectives of Teaching Commerce	MODULE. I (13 hours) Aims and Objectives of Teaching Commerce 1.1 Aims of teaching commerce, Values of teaching commerce. 1.2 Objectives of teaching commerce at Higher Secondary Level. 1.3 Instructional Objectives-Bloom's taxonomy- Criteria of writing instructional objectives – Specifications 1.4 Revised Bloom's Taxonomy- a conceptual review. 1.5 Process Skills in commerce.	1. Prepare instructional objectives for any one concept in commerce based on Bloom's taxonomy.
2.To develop skills for effective teaching(by micro teaching)	MODULE. II (12 hours) Teachings Skills 2.1 Teachings skills-Core teaching skills and its components. 2.2 Micro teaching procedure.	2. Prescribed in the practical.
 3. To understand the pedagogy of Business studies and Accountancy of 11th standard 4.To acquaint with planning of instruction 	MODULE. III (20 hours)Pedagogic Analysis of Commerce3.1 Pedagogic analysis-Meaning and steps- Content analysis.3.2 Analysis of Business studies and Accountancy content of 11th standard textbooks of Kerala State.MODULE. IV (20 hours)Planning of Instruction4.1 Planning of Instruction-Year plan, Unit plan and Lesson plan-(Herbartian approach and Evaluation approach)-Resource Unit.	 3. Perform content analysis on any one topic each from Business studies and Accountancy. 4. Prepare a Year plan or Unit plan in commerce.
	4.2 Lesson planning in Behaviourist and Constructivist approaches.	

	MODULE. V (10 hours)	
5.To understand the evaluation techniques and prepare objective based test items as per the existing state syllabus pattern in Business studies and Accountancy	 Evaluation in Commerce 5.1 Continuous and Comprehensive evaluation. 5.2 Types of test items-merits and demerits. 5.3 Construction and administration of Achievement tests and Diagnostic tests. 	5. Prepare at least 10 Multiple choice test items on any topic either in Business studies or in Accountancy.

EDU.158. CURRICULUM AND RESOURCES OF COMMERCE		
Contact Hours: 75 Hours (Instruction) &15 hours (process)		
Objectives	Marks : 50 (End semester Examination)& 10 Content	Process
1.To understand the principles of organizing Commerce Curriculum	 MODULE. I (20 hours) Commerce Curriculum 1.1 Commerce Curriculum- Meaning, Definition and Bases of curriculum development. 1.2 Principles of curriculum construction. 1.3 Modern Trends in Curriculum Development. 1.4 Types of curriculum. 1.5 Approaches of curriculum organization. 1.6 Curriculum evaluation. 	 Critically analyze the organization of the content within a unit in relation to curriculum organization Which 3 principles will be given priority, if you were asked to construct a curriculum for higher secondary classes? Justify your view point with your life experience.
2. To appreciate the nature of the discipline	MODULE. II (10 hours) Commerce as a core subject 2.1 Interdisciplinary approach. 2.2 Commerce and it branches. 2.3 Relation of commerce with other subjects.	3. Correlate Commerce with subjects like Mathematics, Economics and Geography
3. To provide familiarization with Teaching Learning Materials in Commerce	MODULE. III (15 hours) Teaching Learning Materials in Commerce 3.1 Commerce Textbook-qualities and functions, Criteria for selection-Textbook review. 3.2 Supplementary materials in Commerce- Need and Importance. 3.3 Audio-Visual aids –Projected aids, Non Projected aids and Activity aids.	4. Prepare a collage based on a particular topic in commerce.

	MODULE. IV (15 hours)	
4. To organize and maintain Resource room in Commerce	 Resource room in Commerce 4.1 Commerce Room- Importance and its organization. 4.2 Commerce Library 4.3 Workbooks, handbooks and reference materials 4.4 Use of Internet – Use of Websites like 	5. Prepare a list of 10 books with bibliography or Make a list of 5 commerce journals that can be used in Higher Secondary Schools.
	ERIC, INFLIBNET, etc	
	MODULE. V (15 hours)	
5. To understand the meaning, scope and importance of Models of Teaching	 Models of Teaching in Commerce 5.1 Models of Teaching- Meaning- Families. 5.2 Advance Organizer Model. 5.3 Jurisprudential Inquiry Model 	6. Prepare a lesson plan on Advance Organizer Model on any one topic in commerce.

EDU.178. PROFESSIONALIZING COMMERCE EDUCATION			
Contact Hours: 75 Hours (Instruction) &15 hours (process)			
	Marks : 50 (End semester Examination)& 10 (CE)		
Objectives	Content	Process	
1.To appreciate the role of commerce in society	MODULE. I (16 hours) Commerce and Society 1.1 Commerce education and Business Ethics. 1.2 Field trips- importance and its organization. 1.3 Community resources in commerce 1.4 Methods of utilizing community resources.	1. Make an observation of a local industrial/commercial unit near to your residence and prepare a report on it.	
2. To acquaint with the co curricular activities in commerce.	 1.5 Market studies and surveys. (16 Hours) MODULE. II (10 hours) Co curricular activities in Commerce 2.1 Co curricular activities- Meaning and importance. 2.2 Commerce club 2.3 Commerce magazine 2.4 Running of school bank and cooperative store. 	2. Prepare a wall magazine in commerce.	
3. To understand the importance of nurturing talented children	MODULE. III (14 hours) Nurturing talented children in Commerce 3.1. Fostering creativity among students 3.2. Gifted Children -Characteristics 3.3 Treatment of Gifted children.	3. Make a plan of an enrichment prorammme for gifted children.	

	MODULE. IV (20 hours)	
4. To familiarize	IT related professional inputs of	4. Develop a module
the IT related	teaching.	on any topic in
professional inputs	4.1 Computer Aided Teaching.	commerce for e-
of teaching.	4.2 Exploration of IT resources in	content.
	commerce like CD's, DVD's, Multimedia	
	Packages, learning objects etc.	
	4.3 Module preparation for e-content	
	development.	
	MODULE. V (15 hours)	
5.To be a	Professional Commerce Teacher	5. Discussion on the
professional	5.1 Commerce teacher –Qualities -	topic:-
Commerce	Competencies (NCTE).	"Does the profession
Teacher	5.2 Teaching as a profession – Traits of	of teaching command
	Professionalism	the same respect as
	5.3 Professional Ethics	other profession".
	5.4 Professional growth-ways and means	-

References

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- 3. Bloom, B. S.et.al., *Taxonomy of Educational Objectives, Hand Book 1: Cognitive Domain* .Longmans green &Co: New York.
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MATHEMATICS

EDU 120 METHODOLOGY OF TEACHING MATHEMATICS		
Contact Hours: 75 Hours (Instruction) &15 hours (process)		
Objectives	Marks : 50 (End semester Examination)& 10	
Objectives 1.To acquaint with the nature of Mathematics	ContentMODULE I (15 Hours)Nature of Mathematics1.1 Meaning of Mathematics-Developmentof mathematics as a science, Reasoning-Inductive and deductive -Axioms andpostulates- Mathematics language.1.2 Pure and applied mathematics, Modernmathematics- Fundamental branches ofmathematics (Arithmetic, Geometry,Algebra, Trigonometry)	Process 1.1 Prepare a note on various branches of mathematics other than fundamentals (Any five) 1.2.List out any five mathematical symbols with its evolutionary aspects .
2.To familiarize the evolution of Teaching of Mathematics	MODULE II (10 Hours) Mathematics Education 2.1 Landmarks in the development of mathematics education 2.2 Values of teaching mathematics.	2.1 Prepare a time line on the development of mathematics of any century or Familiarize with the biographies of any five mathematicians (Two Indians)
3. To understand Approaches, Methods & Techniques of Teaching Mathematics	MODULE III (20 Hours) Approaches, Methods & Techniques of Teaching Mathematics 3.1 Process oriented approach, Heuristic approach, Realistic mathematics education. 3.2 Inductive-deductive method, analytic- synthetic method, problem solving method, laboratory method, project method, seminar 3.3 Questioning, brain storming, assignment	 3.1 Prepare a project plan (Individual) or 3.2 Prepare a plan for a laboratory activity on any topic or 3.3 Frame a sequence of analytic questions based on a topic of ninth standard.
4. To understand the Theoretical Bases of major approaches viz constructivism& behaviourism	MODULE IV (20 Hours) Theoretical Bases of Different Approaches. 4.1 Theoretical outline of behaviorism, Constructivism-Social and cognitive constructivism. 4.2 Co-operative learning, peer tutoring, 4.3 Learning as a generative process, Managing group and individual works.	4.1 Analyse KCF and list major suggestions to make mathematics teaching and learning more effective or 4.2 Prepare a plan for teaching a specific topic based on co-operative learning strategy.

	MODULE. V (10 Hours)	
present practices of learning and instruction	Trends in Teaching Mathematics 5.1 Recent practices of teaching and learning of mathematics in state schooling -Critical pedagogy, Issue based approach, Edubuntu etc.	5.1 present a topic using a suitable programe in Edubuntu.

EDU. 140. PEDAGOGIC PRACTICES IN MATHEMATICS		
Contact Hours: 75 Hours (Instruction) &15 hours (process) Marks : 50 (End semester Examination)& 10 (CE)		
Objectives	Content	Process
1.To understand the Aims and Objectives of Teaching Mathematics	MODULE . I (10 Hours)Aims and Objectives1.1. Aims and objectives of teaching mathematics1.2. Blooms Taxonomy of Educational Objectives, Revised Blooms Taxonomy-a conceptual over view.1.3. Major Competencies and skills to be developed through mathematics learning.	1.1 Compare RBT with any other Taxonomy of educational objectives using pictorial representation.
2.To develop skills for effective teaching (by micro teaching)	MODULE. II (13 Hours) Skills of Teaching Mathematics 2.1 Major skills in teaching mathematics 2.2 Micro teaching – Skill based practice.	Prescribed in practicals
3.To understand the pedagogy of Mathematics of 9 th standard and the pedagogy of Mathematics of 11 th standard.	MODULE III (20 Hours) Pedagogical Analysis 3.1 Pedagogic analysis- Conceptual orientation – Content analysis of 8 th and 9 th standard text books, listing objectives and specific outcomes or curricular objectives, previous knowledge or prerequisites, resources, strategies of teaching and evaluation, misconcepts	3.1 Analyse the content of a specific topict in 8 th or 9 th mathematics text book or 3.2 List some possible misconcepts in 8 th standard students while learning mathematics and suggest the remedies for that.
4.To acquaint with Planning of instruction	MODULE IV (20 Hours) Planning of instruction 4.1 Stages of planning instruction- year plan-unit plan, lesson plan- importance and steps. 4.2 Objective based format of lesson planning (behaviorist format) – Objective based instruction, inter relationship between objectives, learning experience and evaluation 4.3 Constructivist format of lesson planning	Prepare a unit plan for a selected topic of 8 th or 9 th standard mathematics. Or Convert a behaviouristic lesson plan to constructivist format or vice versa.

5.To understand the Evaluation techniques in Mathematics	MODULE. V (12 Hours) Evaluation 5.1 Evaluation – Importance, CRE and NRE. Different types of test items, construction of achievement and diagnostic tests. 5.2. CCE, Evaluation of collection, seminar, assignment, project, practical, portfolio etc,. 5.3 Evaluation of non cognitive areas – interest, attitudes, skills etc,	5.1 Prepare at least ten items for assessing any affective outcome of learning mathematics or 5.2 Prepare a diagnostic test based on a single concept.
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EDU 160 CURRICULUM & RESOURCES OF MATHEMATICS Contact Hours: 75 Hours (Instruction) &15 hours (process)		
	Marks : 50 (End semester Examination)& 10	(CE)
Objectives	Content	Process
1.To understand the principles of Organizing Curriculum	MODULE I (20 Hours) Curriculum in Mathematics 1.1Curriculum- Meaning, types 1.2 Curriculum development, basis of curriculum construction, principles of curriculum construction, curriculum organization, principles and approaches 1.3Curricular reforms- SMP, SMSG, Nuffield.	Establish the correlation of mathematics with other subjects, within the subject and with daily life or Select a topic in Mathematics and connect it with other branches of Mathematics.
2.To provide familiarization with Resources for teaching/learning Mathematics	MODULE II (25 Hours) Resources for Mathematics teaching/learning 2.1. Text books, hand books, work book, reference books, journals, resource CD's, e materials, etc,. 2.2. Audio visual aids, improvised aids 2.3. Role of recreational activities in mathematics learning.	Prepare an improvised aid for teaching mathematics at secondary level or List out any two e-materials for mathematics learning and describe the suitability of the materials with respect to the content dealt. or Prepare a work book on a specific unit in Mathematics
3.To acquaint with the knowledge of organizing and maintaining library and resources in Mathematics.	MODULE III (10 Hours) Resource Room 3.1 Mathematics room- mathematics lab – equipments, mportance, organisation. Mathematics library – organization, effective functioning	List any five books that can be included in mathematics library with all bibliographic details.

4.To understand meaning, scope and importance of Models of teaching.	MODULE IV (20 Hours) Models of Teaching 4.1 Models of Teaching-meaning, Definitions-Characteristics- Families- Information Processing Family-Concept Attainment Model, Inductive Thinking Model-Application in Mathematics classroom	Select an appropriate concept from 8 th or 9th Mathematics text book and prepare a lesson plan in Concept Attainment Model/ Inductive Thinking Model.

EDU 180 PROFESSIONALIZING MATHEMATICS EDUCATION			
Contact Hours: 75 Hours (Instruction) &15 hours (process)			
Marks : 50 (End semester Examination)& 10 (CE)			
Objectives	Content	Process	
1.To appreciate Linking Mathematics with Society	MODULE I (10 Hours) Mathematics and Society 1.1 Role of mathematics in the development of civilization-Scientific and technological development-economic development. 1.2 Mathematics as a part of social life –, mathematics in astrology, religious obsarvances, architecture, weather forecasting, folkarts, etc	1.1 Present the application of Mathematics in a specific area (astrology, religious observances, architecture, weather forecasting, folkarts, etc.) in detail.	
2. To acquaint with the co-curricular activities in Mathematics	MODULE II (10 Hours) Managing Co-curricular Activities 2.1 Co-curricular activities - organization of field trips, its importance. Maths Club - its pattern, organization and activities such as Maths fairs, exhibition and Quiz	2.1 Organize a Mathematics Quiz programme in your class. or List different items in Maths fair at school level and prepare any one item.	
3. To understand the importance of catering to the needs of exceptional children	MODULE III (15 Hours) Exceptional Children in Mathematics 3.1 Mathematical giftedness. Mathematical Creativity- Characteristics, Role of teacher. 3.2 Mathematics Olympiad. 3.3 Slow learners in Mathematics- Characteristics, remedial measures.	 3.1. Prepare a remedial material for slow learners based on a particular topic or 3.2 Prepare a enrichment material for gifted learners based on a particular topic in mathematics 	

4. To familiarize the I T related professional inputs of teaching.	MODULE. IV (15 Hours) Integrating IT in Teaching Mathematics 4.1 Computer Aided Teaching, module preparation for e-content.	4.1. Write a script for an e- content on any concept in Mathematics.
5.To know about qualities and competencies of a Mathematics teacher	MODULE. V (25 Hours) Competencies of a Mathematics Teacher 5.1 Teaching as a profession Professional growth of teacher. – Role of SCERT and NCERT in the professional growth of a teacher. Printed and Internet resources for professional growth of a mathematics teacher. 5.2. Qualities of a mathematics teacher – General qualities-personal qualities- specific qualities. 5.3. Teacher competencies -Contextual, Conceptual, Curricular and content, Transactional, Competencies in other educational activities, related to teaching- learning materials, Evaluation, Management, Parental contact and co- operation.	 5.1. Prepare a checklist on qualities and competencies of a mathematics teacher and based on this checklist evaluate any of your mathematics teacher. or 5.2 Conduct a discussion on the changing role of teacher.

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NATURAL SCIENCE

EDU. 121.METHODOLOGY OF TEACHING NATURAL SCIENCE.		
Contact Hours:75 (Instruction)&15 Process		
Marks:50 (End Semester Examination)&10 (CE)		
Objectives	Content	Process
1.To acquaint with the nature of Science To develop understanding of the place of science in national School curriculum	MODULE I (10 Hours) Nature and Scope of Science 1.1 Scienc-its meaning, definitions, and nature Science as a product and process- Science an ongoing process of enquiry 1.2 Importance of science as a school subject. Values of teaching science with special reference to Biology. 1.3 Scientific Attitude.	Formulate a definition of science of your own and substantiate its foci. OR Make some items (4 or 5 items) that would help to evaluate scientific attitude
2.To familiarize the evolution of Teaching of Science	MODULE II (5 Hours) History of Science Education 2.1 Landmarks in the development of science education. 2.2 Science Education as envisaged in NCF and KCF 2007-developing global perspectives in science teaching.	Make a comparison of NCF 2005 &KCF with respect to science education
3.To understand Approaches, Methods & Techniques of Teaching Science	MODULE III (25 Hours) Approach, Methods and Techniques of Teaching Science 3.1 Inductive, Deductive, Enquiry& Discovery Approaches of Teaching. 3.2 Methods of Instruction – Lecture, Lecture cum demonstration method, Heuristic method, Project method, Problem solving method , Dalton Plan, Individual laboratory method, 3.3 Questioning Technique, Brain storming, Buzz session, & Role Playing.	Prepare a group project plan for IX standard students OR Prepare an instruction card on a topic to be taught by Individualized Laboratory Method. Role playing of a Biological theme. (2 marks) (Group Work)
4. To understand the Theoretical Bases of major approaches viz constructivism, behaviorism and to familiarize with the methods and techniques for implementing constructivism in the classroom	MODULE IV (20 Hours) Learning as a Generative Process 4.1 Theory of Cognitive Constructivism, Social Constructivism and Multiple Intelligences. 4.2 Learning as a generative process - Children's science, learner as a scientist, Behaviorist approach Vs Constructivist approach, 4.3 Collaborative learning, Managing Group learning in a classroom Activity based learning, role of experiments in science, integration of theories and experiments in science.	Restructure a behaviorist learning of a topic into a constructivist format OR Making multiple lesson plans (behaviorist Vs constructivist) on a single topic based on different approaches to experience the difference in outlooks. OR Create an imaginary case study of a teacher trainee doing things wrongly in the constructivist classroom and list the precautions and suggestions to correct the trainee.

	MODULE. V (15 Hours)	
5. To update on the present practices of learning and instruction prevailing in the state schools of Kerala	Present Practices in Teaching and Learning. 5.1 Critical Pedagogy, Issue-based Teaching, Edubuntu –exploration of the science resources, Review of the latest happenings in the state schooling procedures.(Teacher trainees are expected to acquaint with the emerging practices related to schooling from time to time.)	List a topic each from (viii) and (ix) Std Biology and formulate issue based learning situations. (2 marks)

EDU 141.PEDAGOGIC PRACTICES IN NATURAL SCIENCE.		
Contact Hours:75 (Instruction)&15 Process		
Marks:50 (End Semester Examination)&10 (CE)		
Objectives	Content	Process
1.To understand the Aims and Objectives of Teaching Science	MODULE I (20 Hours) Aims and Objectives of Teaching Science 1.1 General aims of teaching Natural	Compare the two taxonomies in pictorial representation. OR
	Science. Broad National Goals. 1.2 Taxonomy of educational objectives –Revised Bloom's Taxonomy, Mc Cormack & Yager Taxonomy 1.3 Process skills in Science at secondary stage, developing process skills in students.	Identify any suitable content /topic that would emphasize the development of a particular process skill. (Do this for all the 13 skills and justify your selection)
2.To develop skills for effective teaching	MODULE II (10 Hours) Micro Teaching 2.1 Teaching skills for class room instruction, Essential skills for Science teaching, Micro teaching - a skill based practice	Prescribed in Practicals
3.To understand and practice the pedagogic analysis of 8 th and 9 th Biology	MODULE III (23 Hours) Pedagogic Analysis 3.1 Pedagogic Analysis- A conceptual overview, Pedagogic Analysis of the Biology content portions of 8 th and 9 th standard textbooks of Kerala state, (1.Arranging teaching points in a logical order. 2.Analysing concepts, Working out strategies for teaching concepts. 3.Stating general instructional objectives and specific instructional objectives in terms of behavioural outcomes. (The	Perform content analysis of a particular topic of 8 th or 9 th std Biology OR Select a concept and formulate instructional objectives of all domains

	Behaviourist approach) OR Stating 'curriculum objectives' in terms of concepts, process skills, strategies of instruction and evaluation. (The Constructivist approach) 4. Planning suitable learning experiences according to objectives. Planning the procedures of evaluation according to objectives.) MODULE IV (12 Hours)	
4.To acquaint with Planning of instruction	 Planning of instruction 4.1 Objective based instruction – interdependence of objectives, learning experience, and evaluation. 4.2 Planning of Instruction - year plan, unit plan, resource unit 4.3 Lesson planning – Need, Stages (Herbartian steps) 4.4 Lesson plan preparation based on (1) The objective based Behaviourist format (2) The Constructivist format 	Prepare a comprehensive lesson plan following Herbartian Steps on a selected topic of Biology OR Prepare a Unit plan or Year plan
5.To understand the Evaluation techniques and prepare objective based test items as per the existing state syllabus pattern in Science	MODULE. V (10 Hours) Evaluation in Science 5.1 Evaluation - Different types of test items - merits and demerits. Construction and administration of Achievement tests and Diagnostic tests. 5.2 Continuous and Comprehensive Evaluation, Evaluation Criteria for Assignment, Seminar and Project. 5.3 Evaluation of Non Cognitive Areas – Interest, Attitude and Skill	Make sample test items corresponding to any three objectives (Bloom's taxonomy or Mc Cormack & Yager) that would go into an achievement test OR Prepare a question bank in Biology on a concept of your own choice. OR select a concept in Biology (8 th or 9 th) and prepare a Diagnostic Test

EDU 161.CURRICULUM AND RESOURCES OF NATURAL SCIENCE.		
Contact Hours:75 (Instruction)&15 Process Marks:50 (End Semester Examination)&10 (CE)		
Objectives	Content	Process
	MODULE I (20 Hours)	
1.To understand the	Science Curriculum	Compare the styleof
principles of	1.1 Curriculum- A conceptual Analysis,	organization of curriculum of
Organizing Curriculum	Curriculum and Syllabus, Principles of	State and CBSE. principles of
	Curriculum Construction.	curriculum development
	1.2 Approaches to curriculum	selecting a single topic form
	organisation - Integrated, Disciplinary	state and CBSE syllabi.
	and Interdisciplinary Approach.	OR
	Concentric and Spiral Approaach,	Make a cartoon on the concept
	Nature rambling, Nature study.	of using a correlation in the
	1.3 Concept of correlation - Systematic correlation of Natural Science within the	classroom.
	subject and with other	OR
	subjects in the curriculum	Make a table of similarities
	such as mathematics,	and differences of any two of
	Physics, Chemistry, Languages,	BSCS versions
	Geography, History, Earth Science,	OR
	Drawing, Music and Craft. Incidental	Select a concept in Biology
	correlation achieved while teaching.	and correlate it with Physics,
	1.4 Curriculum reforms abroad - BSCS,	Chemistry and Geography.
	Nuffield Foundation	
	MODULE II (10 Hours)	
2.To appreciate the	The scientific method	Go through the biography of
systematic method of	2.1 Scientific method – importance,	any two scientists and prepare
science	steps involved in the scientific method,	profile to recognize the
	2.2Technical Aspects- Observation,	scientific method they used in
	Experiment, Data Collection	their pursuits. (To be done in
	2.3 Corroboration and Falsification	groups of three or four.)
	2.4 Transfer value of Scientific Method,	
	Strategies to give pupils training in	
	Scientific method.	
	MODULE III (10 Hours) Models of Teaching	
3.To understand the	Models of Teaching Models of Teaching-common features of	Prepare a Concept Attainment
meaning, scope and	models-key concepts for describing	Model or Inquiry Training
importance of models	models-four families-some typical	Model lesson plan on any topic
of teaching	models viz, Concept Attainment Model,	in Biology.
	Inquiry Training Model	
	MODULE IV (20 Hours)	Rate a Higher secondary level
4.To provide	Resources in Teaching Science	text book in science according
familiarization with	4.1 Resource materials in teaching	to Vogel's Criteria.
Resources for	Natural Science. Syllabus, Textbooks -	OR
teaching/learning	Vogel's criteria of selection. Work	Make an improvised apparatus
Science	Book, Teachers handbook, reference	and contribute to a local
	books, supplementary readers.	school
	coons, supprementary readers.	501001

	4.2 Teaching Aids, Improvised apparatus, Essential audiovisual aids. Biological drawings, specimens, video, power point presentation C.D. ROM such as Encyclopaedia Britannica, Microsoft Encarta, Edubuntu of it @school, kerala	OR Prepare a workbook on a unit of Biology in 8 th or 9 th std
5.To have a hands on approach in organizing and maintaining library and laboratory in Science	MODULE. V (15 Hours) Laboratory and Library 5.1 Laboratory and its organization, purchase and maintenance of chemicals, apparatus and equipments.Live corners and musceum, Laboratory rules, accidents in the laboratory, precautions and First Aid. 5.2 Science library and its organization. 5.3 Using internet for accessing information, Websites for authoritative information like ERIC, INFLIBNET etc.	Make a sample stock register for the laboratory of your own college. OR Arrange one shelf of the lab and label properly OR Update the stock register/ make a mock register with few items. OR Prepare the list of at least 20 science books in the library and prepare an accession register for the same. OR Catalogue the 20 books and make a computer data base of it.(Including author, title, key words and other necessary details) Suggest any one science book to the library with all necessary details of publisher author etc. OR Suggest any journals in Science with publication that can be subscribed in our school.

EDU 181.PROFESSIONALISING NATURAL SCIENCE EDUCATION		
Contact Hours:75 (Instruction)&15 Process Marks:50 (End Semester Examination)&10 (CE)		
Objectives	Content	Process
	MODULE I (15 Hours)	
1.To appreciate Linking science with Society	Science and Society 1.1 Science as a social Endeavor; Scientific Literacy, Dual role of science (emancipatory and oppressive). 1.2 The Science Teacher and Society. Role of science teacher in eradicating misconceptions and superstitions in Society. Non-formal Science Education. 1.3 Science and Technology, complementarities between Science and Technology	Make a /short film/very short documentary/ puppetry for linking science with society OR Practice a theatre education, role playing, street show, or any art form to popularize science among public. OR List any five misconcepts in science of High School children(2 marks)
2. To acquaint with the co-curricular activities in Science	MODULE II (18 Hours) Co-curricular activities in Science 2.1 Co-curricular activities - organization of field trips and study tours, their importance. Science Club - its pattern, organization and activities such as science fairs, science exhibition, science debates. 2.2 Experimental projects, nature rambling, nature calendar	Manifest a scientific hobby OR conduct a debate on any biological issue OR prepare an action plan to make a campaign on eradication of diseases
3. To understand the importance of nurturing gifted children	MODULE III (10 Hours) Gifted Students in Science 3.1 Identifying and nurturing the gifted children. Creativity and Critical thinking. 3.2 NSTS(National Science Talent Search)	Prepare a poster in groups of five highlighting the importance of scientific method . OR prepare an enrichment material on a concept in Biology for gifted students of 9 th std OR Prepare an evaluation tool to identify gifted students in science
4. To familiarize the I T related professional inputs of teaching.	MODULE IV (10 Hours) Use of computer in Teaching 4.1 Computer Assisted Instruction, Programmed Learning-Expert System, Module preparation for E-content Development, 4.2 Course ware, Free Software's in Science. 4.3Learning Management Systems - MOODLE	Construct a linear Programme in electronic form (at least 10 frames) on a simple concept in Biology OR Write a script on a concept in biology for its E-content development

5.To be a Professional Science Teacher	MODULE. V (22 Hours) Professional Science Teacher 5.1 Definition of profession, Teaching as a profession. 5.2 Traits of professionalism, Professional ethics, Teacher Competencies listed by NCTE 5.3 Soft Skills 5.3 Professional growth of Science teacher. – Teaching, Research and Extension. Research journals in Science and Science Education. Role of SCERT and NCERT in the professional growth of a teacher. Professional organizations of teachers. 5.4 Internet resources and websites for professional growth of a science	Arrange a seminar in science in the college for popularizing scientific outlook. OR Prepare a review of a research based article on Education from INFLIBNET or ERIC OR Conduct a discussion in the class on the changing role of teachers

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PHYSICAL SCIENCE

EDU 122 METHODOLOGY OF TEACHING PHYSICAL SCIENCE		
Contact Hours: 75 Hours (Instruction) &15 hours (process) Marks : 50 (End semester Examination)& 10 (CE)		
Objectives	Content	Process
Objectives	MODULE I (10 Hours)	1100035
1.To acquaint with the nature of Science	Nature and Scope of Science1.1Science, its meaning, nature ofscience, Science as a product andprocess, Interdependency of product andprocess.1.2Importance of science as a schoolsubject.Practical,disciplinaryvocational,social,moralandrecreational functions of science.1.3ScientificAttitudeand	List any 10 branches of science with a short description. OR Make some items (4 or 5 items each) that would help to evaluate scientific attitude and scientific aptitude.
2.To familiarize the evolution of Teaching of Science	MODULE . II (10 Hours) <u>History of Science Education</u> 2.1 Landmarks in the history of Education with respect to Science. 2.2 Science Education as envisaged in NCF 2005 and KCF 2007	Conduct a debate on the relevance of NCF 2005or KCF 2007 in science education in Kerala.
	MODULE. III (20 Hours)	
3.To understand Approaches, Methods & Techniques of Teaching Science	Methods and Techniques of Teaching Science 3.1 Inductive Approach and Deductive Approach of Teaching 3.2 Methods of Instruction – Lecture cum demonstration method, Heuristic method, Project method, Problem solving method – Definition of a problem, Well-structured and ill structured Problems, The Problem- solving Cycle. Individualized laboratory method, supervised study, Dalton plan 3.3 Questioning Technique, Brain storming, Buzz session MODULE. IV (15 Hours)	Perform an experiment from 8 th or 9 th standard as demonstration before your peers and accept criticisms from peers. (to be done in groups) OR Prepare a project plan on any relevant science problem. OR Have a buzz session in your class about the importance of questioning technique and table the views of each group. Making multiple lessonplans
4.To understand the Theoretical Bases of major approaches viz constructivism, behaviourism	Learning as a generative process 4.1 Theory of Cognitive Constructivism, Social Constructivism and Multiple Intelligences. 4.2 Learning as a generative process - Children's science, learner as a scientist, guided discovery approach, Behaviourist approach Vs Constructivist approach,	Making multiple lessonplans (bhrst Vs contructivist) on a single topic based on different approaches to experience the difference in outlooks. OR Create an imaginary case study of a teacher trainee doing things wrongly in the constructivist classroom and list the precautions and suggestions to correct the trainee.

	MODULE. V (20 Hours)	
5. To familiarize with	Present practices in Teaching and	List the social issues that can
the methods and	Learning	be addressed in a selected unit
techniques for	5.1 Collaborative learning, Managing	from Physics/ Chemistry of 8 th
implementing	Group learning in a classroom - group	standard.
constructivism in the	discussion, observation in a group,	OR
classroom and to update	experiment or other activity in a group.	Get familiarized with anyone
on the present practices	5.2 Activity based learning, role of	IT resource/ package available
of learning and	experiments in science, integration of	in EDUBUNTU that is helpful
instruction practiced in	theories and experiments in science.	in teaching Science and
the state schools of	5.3 Critical Pedagogy, Issue-based	present a topic using it.
Kerala	Teaching, Edubuntu -exploration of the	
	science resources, Review of the latest	
	happenings in the state schooling	
	procedures. (Teacher trainees are	
	expected to acquaint with the emerging	
	practices related to schooling from time	
	to time.)	

EDU 142 PEDAGOGIC PRACTICES IN PHYSICAL SCIENCE			
Contact Hours: 75 Hours (Instruction) &15 hours (process)			
	Marks : 50 (End semester Examination)& 10 (CE)		
Objectives	Content	Process	
	MODULE I (15 Hours)		
1.To understand the	Aims and Objectives of Teaching	Compare the essential	
Aims and Objectives of	Science	differences between any two	
Teaching Science	1.1 General aims of teaching physical	taxonomies pictorially. OR	
e	science.	Identify any suitable content	
	1.2 Taxonomy of educational objectives	/topic that would emphasize	
	- Bloom's taxonomy, A conceptual	the development of a particular	
	overview of Revised Bloom's	process skill. (Do this for all	
	Taxonomy, Taxonomy of Mc Cormack	the 13 skills and justify your	
	& Yager	selection)	
	1.3 Process skills in Science at	,	
	secondary stage, developing process		
	skills in students.		
	MODULE. II (15 Hours)		
2.To develop skills for	<u>Micro Teaching</u>	(Prescribed in the practicals)	
effective teaching (by	2.1 Teaching skills for class room		
micro teaching)	instruction, Essential skills for Science		
2,	teaching, Micro teaching - a skill based		
	practice (minimum three skills). A link		
	Practice.		

3. To understand and do the pedagogic analysis of Physics and Chemistry of 8 th standard and 9th standard.	MODULE III (20 Hours) Pedagogic Analysis 3.1 Pedagogic Analysis- Meaning and Steps of Analysis, Pedagogic Analysis of the Physics and Chemistry content portions of 8 th and 9 th standard textbooks of Kerala state, (1.Arranging teaching points in a logical order. 2.Analysing concepts, Working out strategies for teaching concepts. 3.Stating general instructional objectives and specific instructional objectives in terms of behavioural outcomes. (The Behaviourist approach) OR Stating 'curriculum objectives' in terms of concepts, process skills, strategies of instruction and evaluation. (The Constructivist approach) 4. Planning suitable learning experiences according to objectives. Planning the procedures of evaluation according to objectives.)	Select a concept and formulate instructional objectives of all domains. OR Make separate list of learning experiences on any topic for fast learners as well as for slow learners.
4.To acquaint with Planning of instruction	MODULE IV (15 Hours)Planning of Instruction4.1 Objective based instruction –interdependence of objectives, learningexperience, and evaluation.4.2 Planning of Instruction - year plan,unit plan, resource unit4.3 Lesson planning – Need, Stages(Herbartian steps)4.4 Lesson plan preparation based on (1)The objective based Behaviourist format(2) The Constructivist format	Conduct a debate on the importance as well as limitations of "planning of an event".
5.To understand the Evaluation techniques and prepare objective based test items as per the existing state syllabus pattern in Science	MODULE. V (10 Hours) 5.1 Evaluation - Different types of test items - merits and demerits. Construction and administration of Achievement tests and Diagnostic tests. 5.2 Continuous and Comprehensive Evaluation, Evaluation Criteria for Assignment, Seminar and Project. 5.3 Evaluation of Non Cognitive Areas – Interest, Attitude and Skill	Make sample test items corresponding to any three objectives (Bloom's taxonomy or Mc Cormack & Yager) that would go into an achievement test.

EDU 162 CURRICULUM & RESOURCES OF PHYSICAL SCIENCE Contact Hours: 75 Hours (Instruction) &15 hours (process)		
Marks : 50 (End semester Examination)& 10 (CE)		
Objectives		
Objectives 1.To understand the principles of Organizing Curriculum	ContentMODULE. I (20 Hours)Curriculum1.1 Curriculum- A conceptual Analysis, Curriculum and Syllabus, Principles of Curriculum Construction.1.2 Approaches to curriculum organisation - concentric plan, type study, historical approach, Nature rambling, Nature study. Integrated, Disciplinary and Interdisciplinary Approach.1.3 Concept of correlation - Systematic correlation of physical science within the subject and with other subjects in the curriculum such as mathematics, Biology, Languages, Geography, History, Earth Science, Drawing, Music 	Process Identify and compare the principles of curriculum development selecting a single topic from state and CBSE syllabi. OR Make a cartoon on the concept of using a correlation in the classroom. OR Make a table of similarities and differences of any two of PSSC, Chem Study, CBA.
2.To appreciate the systematic method of science (The scientific method)	achieved while teaching. 1.4 Curriculum reforms abroad - PSSC, Chem Study and CBA MODULE II (20 Hours) <u>The scientific method</u> 2.1 Scientific method – importance, steps involved in the scientific method, 2.2 Logical aspects of scientific method - Induction, Mill's five canons of induction, deduction, analogy, Analysis, Synthesis. Hypotheses – characteristics and importance. Technical Aspects- Observation, Experiment, Data Collection 2.3 Corroboration and Falsification 2.4 Transfer value of Scientific Method, Strategies to give pupils training in Scientific method.	Go through the biography of any one scientist and prepare profile to recognize the scientific method they had used in their pursuits. OR Prepare a poster in groups of three highlighting the importance of scientific method.
3.To provide familiarization with Resources for teaching/learning Science	MODULE III (20 Hours) <u>Resources in Teaching Science</u> 3.1 Resource materials in teaching physical science. Syllabus, Textbooks - Vogel's criteria of selection. Work Book, Teachers handbook, reference	Make an improvised apparatus in a group of three and contribute to the local school. OR Select a unit in Physics or Chemistry of 8 th standard and prepare a workbook. OR Rate a Higher secondary

	books, supplementary readers. 3.2 Teaching Aids, Improvised apparatus, Essential audiovisual aids. C.D. ROM such as Encyclopaedia Britannica, Microsoft Encarta, Edubuntu of it @school, Kerala MODULE IV (15 Hours)	level text book in science according to Vogel's Criteria.
4. To have a hands on approach in organizing and maintaining library and laboratory in Science	Library and laboratory 4.1 Laboratory and its organization, purchase and maintenance of chemicals, apparatus and equipments. Laboratory rules, accidents in the laboratory, precautions and First Aid. 4.2 Science library and its organization. 4.3 Using internet for accessing information, Websites for authoritative information like ERIC, INFLIBNET etc.	Arrange one shelf of the lab and label properly OR make a mock register with few items. OR Prepare the list of at least 20 science books in the library and prepare an accession register for the same. OR Catalogue the 20 books and make a computer data base of it.(Including author, title, key words and other necessary details) OR Suggest any 5 journals in Science with publication details that can be subscribed for schools

EDU 182 PROFESSIONALIZING PHYSICAL SCIENCE EDUCATION		
Contact Hours: 75 Hours (Instruction) &15 hours (process) Marks : 50 (End semester Examination)& 10 (CE)		
Objectives	Content	Process
1.To appreciate Linking science with Society	MODULE I (15 Hours)Science and Society1.1 Science as a social Endeavor;Scientific Literacy, Dual role of science(emancipatory and oppressive).1.2The Science Teacher and Society.Role of science teacher in eradicatingmisconceptions and superstitions inSociety.1.3Science and Technology,complementarities between Science andTechnology	Make a multimedia package/short video/very short documentary/ puppetry OR Enact /practice theatre education, role playing, street show, or any art form to popularize science among public. OR Prepare a time line of significant developments in Science in any one century.
2. To acquaint with the co-curricular activities in Science	MODULE . II (10 Hours) <u>Co-curricular Activities in Science</u> 2.1 Co-curricular activities - organization of field trips and study tours, their importance.	Arrange a seminar in science in the class for popularizing scientific outlook. or Prepare a science show with

3. To understand the importance of nurturing talented children	 2.2 Science Club - its pattern, organization and activities such as science fairs, science exhibition, science debates. MODULE. III (10 Hours) <u>The scientifically Gifted Children</u> 3.1 Identifying and nurturing the scientifically gifted children. Creativity and Critical thinking. 3.2 NSTS(National Science Talent Search) 	simple interesting experiments and perform it before other students of the college. (To be done in groups) Prepare an evaluation tool to identify the science talented students
4. To familiarize the I T related professional inputs of teaching.	MODULE IV (20 Hours) <u>Using Computers in Teaching</u> 4.1 Computer Aided Teaching, Expert System, Module preparation for E- content Development, 4.2 Course ware, Free Softwares in Science. 4.3 Learning Management Systems - MOODLE	Write a script for developing e-content development for a concept OR Prepare a rating scale to evaluate an educational CD and evaluate one using the same.
5.To be a Professional Science Teacher	MODULE. V (20 Hours) <u>The Professional Science Teacher</u> 5.1 Definition of profession, Teaching as a profession. Professional ethics. Traits of professionalism- competencies listed by NCTE 5.2 Soft Skills for a teacher 5.3 Professional growth of Science teacher. – Teaching, Research and Extension. Research journals in Science and Science Education. Role of SCERT and NCERT in the professional growth of a teacher. 5.4 Internet resources and websites for professional growth of a science teacher.	Does the profession of teaching command same respect as other professions? Express your views in the class. OR Prepare a review of a research based article in Science from any Science e-journal.

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SOCIAL SCIENCE

EDU 123 METHODOLOGY OF TEACHING SOCIAL SCIENCES

Contact Hours: 75 Hours (Instruction) &15 hours (process) Marks : 50 (End semester Examination)& 10 (CE)

Objectives	Content	Process
	MODULE I (15 Hours)	
1.To acquaint with the	Social Sciences – Preliminary	1. Collect any 5 definitions of
nature of Social science	Considerations	social studies and classify
	1.1 Meaning and Definition of Social	them
	Sciences	
	1.2 Classification of Definitions of	
	Social Sciences by John U Michaelis	
	1.3 Social Studies Vs Social Sciences	
	1.4 Scope of Social Sciences	
	1.5 Semi Social Sciences, Social	
	Sciences and Natural Sciences	
	MODULE II (8 Hours)	
2.To familiarize the	Evolution of Social Sciences	2. Conduct a discussion on the
evolution of Teaching	2.1 History of Teaching Social Sciences	vision of Teaching Social
of Social science	in 20 th Century	Sciences in NCF(2005) and
	2.2 Vision of Teaching Social Sciences	KCF (2007)
	in NCF(2005) and KCF(2007	
	MODULE III (22 Hours)	
3.To understand	Approaches, Techniques and Methods	3. Select a topic from social
Approaches,	of Social Science	sciences and prepare a group
Techniques & Methods	3.1 Approaches to Teaching Social	project Plan/ Prepare a Script
of Teaching Social	Sciences – Didactic, Socratic and	for Role play in groups (a
science	Facilitative	group may consist of minimum
serence	3.2 Methods of Teaching – Lecture,	5 trainees)
	Discussion, Problem Solving, Project	5 trainees)
	and Source method	
	3.3 Techniques of Teaching –	
	Questionning, Roleplays and	
	Simulations, Explorations,	
	Investigations and Guided Discovery	
	MODULE IV (25 Hours)	
4.To understand the	Shift from Behaviourism to	4. Prepare a concept map on
Theoretical Bases of	Constructivism	any one concept in Social
major approaches viz	4.1 Towards Social Construction of	Science Subjects/prepare a list
constructivism,	Knowledge	of any five Metacognitive
behaviourism,	4.2 Constructivist Learning Design –	strategies/Reflective Practices
	Cooperative Learning, Metacognitive	
	strategies, Concept Mapping, Reflective	
	Practices	
	4.3 Objective Based	
	Instruction/Behaviourit Approach	
	mon action/ Denaviount Appioaci	

	MODULE. V (5 Hours)	
5. To update on the	5. Present Practices in Social Science	5. Prepare a list of any five
present practices of	Teaching	social issues that can be
learning and instruction	5.1 Critical Pedagogy and Social	addressed in social science
practiced in the state	Sciences – Problem posing education	class
schools of Kerala	5.2 Recent changes in social science	
	teaching in the state of kerala.	

EDU 143 PEDAGOGIC PRACTICES OF SOCIAL SCIENCES		
Contact Hours: 75 Hours (Instruction) &15 hours (process)		
Marks : 50 (End semester Examination)& 10 (CE)		
Objectives	Content MODULE I (20 Hours)	Process
	Aims and Objectives of Teaching	
1.To understand the Aims and Objectives of Teaching Social science	Social Sciences 1.1 Contributions of Social Sciences to the Goals of Education 1.2 Conceptual, Inquiry, Skill and Affective objectives of social sciences 1.3 Bloom's Taxonomy of Educational Objectives 1.3 Revised Bloom's Taxonomy 1.4 Multiple intelligences as the	1. Prepare Conceptual, inquiry. Skill and Affective objectives of a Topic in Social Sciences
	objectives of social sciences	
2.To develop skills for effective teaching (by micro teaching)	MODULE II (15 Hours) Teaching Skills and Micro Teaching 2.1 Maxims of Teaching 2.2 Core Teaching skills 2.3 Micro Teaching Procedure	Prescribed in Practicals
3.To understand and do the pedagogic analysis of Social Science of 8 th and 9 th standards	MODULE III (10 Hours) Pedagogic Analysis 3.1 Pedagogic analysis – Meaning and definition 3.2 Analysis of relevant content of social science textbook of Std 8 th and 9 th	2. Prepare a sample Content analysis /Prepare instructional objectives/Learning Activity/Learning Experience of a Topic from standard 8 th or 9 th
4.To acquaint with Planning of instruction	MODULE IV (15 Hours) Planning of Instruction 4.1 Need and Importance of Planning 4.2 Levels of Planning – Year plan, Unit Plan, Lesson Plan	3. Prepare a Year Plan for a subject in Social Science/Unit Plan for a Unit

	MODULE. V (15 Hours)	
5.To understand the Evaluation techniques and prepare objective based test items as per the existing state syllabus pattern in Social science	Evaluation in Social Sciences 5.1 Process Evaluation and Product Evaluation 5.2 Construction of Achievement test and Diagnostic Test 5.3 Continuous and Comprehensive Evaluation 5.4 Evaluation of Non-cognitive Domain	4. Prepare a sample of Different Types of Test items on different objectives/ Select a concept in Social Science prepare a diagnostic test

EDU 163 CURRICULUM & RESOURCES IN SOCIAL SCIENCES			
Contact Hours: 75 Hours (Instruction) &15 hours (process) Marks : 50 (End semester Examination)& 10 (CE)			
Objectives	Content	Process	
Objectives	MODULE I (15 Hours)	1100035	
1.To understand the principles of Organizing Curriculum	Social Science Curriculum 1.1 Principles of Curriculum Construction 1.2 Organizing Social Science Curriculum – Topical, Spiral and Unit Approaches	1. Compare the styles of organization of curriculum in 9 th standard text books of state and CBSE school syllabus.	
2.To appreciate the nature of the discipline Social Sciences	MODULE II (15 Hours) Social Science as a core subject 2.1 Reasons for considering social science as a core subject 2.2 Relationship of Social Sciences with other core subjects 2.3 Fusion, integration and correlation in social sciences	2. Identify and List Examples for Fusion, Integration and Correlation in Social Sciences	
	MODULE III (15 Hours)		
3.To provide familiarization with Resources for teaching/learning Social science	Resources for Teaching/Learning Social Sciences 3.1 Models of Teaching – Concept Attainment, Jurisprudential Inquiry 3.2 Social Science Laboratory 3.3 Social Science museum 3.4 Maps and Globes 3.5 Timelines	3. Draw different types of maps of World, India, Kerala and locality /Create a comparative timeline of events in India and world of Modern age/prepare a plan based on any one Model of Teaching	
	MODULE IV (15 Hours)		
4.To have a hands on approach in organizing and maintaining library and resources in Social science	Social Science Library and other Reference Materials 4.1 Social Science Library 4.2 Social Science Text Book 4.2 Workbooks, handbooks and reference materials 4.3 Educational websites 4.4 Uses of INFLIBNET 4.5 Edubundu	4. Prepare a list 10 of books/Journals in social sciences with all bibliographic details for purchasing to the classroom library/Prepare a Text book Material for a Particular Topic	

	MODULE. V (15 Hours)	
5. To understand the possibilities of Student Activities in Social Sciences	Selecting and Sequencing Learning activities 5.1 Introductory Activities 5.2 Data Gathering activities 5.3 Organizing and summarizing activities 5.4 Applicative activities 5.5 Creative activities	5. List any five Applictive/creative/Data Gathering/ Organizing/Summarising activities that can be used in social science teaching

EDU 183 PROFESSIONALIZING SOCIAL SCIENCE EDUCATION			
Contact Hours: 75 Hours (Instruction) &15 hours (process)			
	Marks : 50 (End semester Examination)& 10 (CE)		
Objectives	Content	Process	
1.To appreciate Linking social science with Society	MODULE I (10 Hours) Community Resources In Social Sciences 1.1 Important Community resources 1.2 Utilising Community resources in Social Sciences 1.3 Ways of Utilising Community resources	1. Make an Observation of a place of historical interest/monument nearer to your residence and prepare a report on it/ Prepare a List of Places of Cultural/Historical// Geographical/Economic/ political/scientific interest of your locality	
2. To acquaint with the co-curricular activities in Science	MODULE II (10 Hours) Co-curricular Activities in Social Science 2.1 Club activities 2.2 Exhibitions 2.3 Field Trips 2.4 Quiz Competitions	2. Conduct a quiz competition in the class on a day of national importance/Prepare questions for a quiz programme/Prepare an action plan for social science club	
3. To understand the importance of nurturing talented children	MODULE III (10 Hours) 3.Fostering Giftedness and Creativity in Social Sciences 3.1 Higher order thinking skills 3.2 Characteristics of Gifted and creative children 3.3 Fostering giftedness and creativity	3. Suggest any four learning activities for a creative/gifted child	
4. To familiarize the I T related professional inputs of teaching.	MODULE IV (25 Hours) IT inputs in Social Science Teaching 4.1 Computer aided teaching 4.2 Using Presentation softwares 4.3 Module Preparation for E content 4.4 Videoconferencing 4.5 learning objects, Free Soft-wares in Social Science, IHMC C Map Tools	4. Write a Script for developing an e content for a concept/Make of a multimedia package/short film/very short documentary/ puppetry/prepare a C Map using IHMC CMap Tool on topic relevant to social sciences	

	MODULE. V (20 Hours)	
5.To be a Professional Social Science Teacher	 Becoming a Professional Social Science Teacher 5.1 Teaching as a profession 5.2 Professional Ethics 5.3 Personal and professional qualities of a Social science teacher 5.4 Ways and means of improving professionalism. 	5. Prepare a scholarly article on current issues in education/review a book or journal article/Conduct a discuss on changing role of teacher

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COMPUTER SCIENCE

EDU. 119. METHODOLOGY OF TEACHING COMPUTER SCIENCE Contact Hours: 75 Hours (Instruction) &15 hours (process) Marks: 50 (End semester Examination)& 10 (CE)			
Objectives	Content	Process I. Make a list of educational CDs available for teaching various subjects at higher secondary level.	
1.To acquaint with the values of computer science education	MODULE. I Practical values with reference to: Scientific and technological developments in all domains of knowledge (ii) Practical application in the day to day life of common man-related to various occupations, information and communication, medical services, education, etc. (iii) Research in all areas. Cultural values with reference to: Communication facilities binding humanity as a whole. Recreation and utilization of leisure time Spread of universal and continuing education		
3.To understand Approaches, Methods & Techniques of Teaching Computer Science	MODULE. III Methods of teaching –Lecture cum demonstration method, Heuristic method, seminar, discussion etc, Individualized instruction – Self learning – Programmed learning – Computer assisted learning . Questioning Technique, Brain storming, Buzz session	3. Have a buzz session in your class about the importance of questioning technique and table the views of each group.	
4.To understand the Theoretical Bases of major approaches viz constructivism, behaviourism	coretical Bases of major roaches vizSocial Constructivism and Multiple Intelligences.structivism,4.2 Learning as a generative process -		

	MODULE. V	
5. To familiarize with the methods and techniques for implementing constructivism in the classroom and to update on the present practices of learning and instruction practiced in the state schools of Kerala	 5.1 Collaborative learning, Managing Group learning in a classroom - 5.2 Critical Pedagogy, Edubuntu –exploration of the resources, Review of the latest happenings in the state schooling procedures. (Teacher trainees are expected to acquaint with the emerging practices related to schooling from time to time.) 	 5. Create an imaginary case study of a teacher trainee doing things wrongly in the constructivist classroom and list the precautions and suggestions to correct the trainee. 6. Get familiarized with the IT resources/ packages that are helpful in teaching Science. To be done individually by exploring the EDUBUNTU CD or any other educational CD that is available.

EDU. 139. PEDAGOGIC PRACTICES IN COMPUTER SCIENCE Contact Hours: 75 Hours (Instruction) &15 hours (process) Marks : 50 (End semester Examination)& 10 (CE)			
Objectives	Content	Process	
1.To understand the Aims and Objectives of Teaching Science	MODULE I Aims and objectives of teaching computer science in schools with special reference to IT @ school projects – The place of computer science in Higher Secondary Curriculum – Use of computers as a teaching aid for other subjects –The use of Internet in educational areas. 1.2 Taxonomy of educational objectives Blooms Taxonomy a conceptual over view of Revised Bloom's Taxonomy,	1. Prepare a pictorial representation of the hierarchy of Blooms Taxonomy.	
2.To develop skills for effective teaching (by micro teaching)	MODULE II 2.1 Teaching skills for class room instruction, Essential skills for teaching, Micro teaching - a skill based practice (minimum three skills). A link Practice.	Prescribed for Practicals	

MODULE III			
3.To understand and do the pedagogic analysis of 11th standard textbook for Computer Science	3.1 Pedagogic Analysis- Meaning and Steps of Analysis, Pedagogic Analysis of the Physics 11th standard textbook for Computer Science of Kerala state, (1.Arranging teaching points in a logical order. 2.Analysing concepts, Working out strategies for teaching concepts. 3.Stating general instructional objectives and specific instructional objectives in terms of behavioural outcomes. (The Behaviourist approach) OR Stating 'curriculum objectives' in terms of concepts, process skills, strategies of instruction and evaluation. (The Constructivist approach) 4. Planning suitable learning experiences according to objectives. Planning the procedures of evaluation according to objectives.)	2. Perform content analysis on a selected unit.	
4.To acquaint with Planning of instruction	MODULE IV 4.1 Objective based instruction – interdependence of objectives, learning experience, and evaluation. 4.2 Planning of Instruction - year plan, unit plan, resource unit 4.3 Lesson planning – Need, Stages (Herbartian steps) 4.4 Lesson plan preparation based on (1) The objective based Behaviourist format (2) The Constructivist format	3. Conduct a debate on the importance as well as limitations of "planning of an event".	
	MODULE V		
5.To understand the Evaluation techniques and prepare objective based test items as per the existing state syllabus pattern in Computer Science	 5.1 Evaluation - Different types of test items - merits and demerits. Construction and administration of Achievement tests and Diagnostic tests. 5.2 Continuous and Comprehensive Evaluation, Evaluation Criteria for Assignment, Seminar and Project. 5.3 Evaluation of Non Cognitive Areas – Interest, Attitude and Skill 	 4. Make sample test items corresponding to any three objectives (Bloom's taxonomy) that would go into an achievement test. 5. Use a DBMS to store the marks and grade of an achievement test and generate graphs like bar /pie to analyse results 	

	CULUM & RESOURCES IN COMPUTER SCI		
Contact Hours: 75 Hours (Instruction) &15 hours (process)			
Marks : 50 (End semester Examination)& 10 (CE)			
Objectives	Content	Process	
1.To understand the principles of Organizing Curriculum	MODULE. I 1.1 Curriculum- A conceptual Analysis, Curriculum and Syllabus, Principles of Curriculum Construction. 1.2 Approaches to curriculum organization	1. Identify and compare the principles of curriculum development selecting a single topic form state and CBSE syllabi.	
2.To understand and practice certain models of teaching relevant to computer Science Education	MODULE. II Models of Teaching – Four families – Cognitive Growth Model, Inductive Thinking Model, Inquiry Training Model, Synectics Model for training Creativity	2. Prepare two lessons using any two models of teaching on a selected topic.	
3. To provide familiarization with Resources for teaching/learning Science	MODULE. III 3.1 Resource materials in teaching Computer science. Syllabus, Teachers handbook, reference books, supplementary readers, periodicals, manuals. 3.2 Teaching Aids, Improvised apparatus, Essential audiovisual aids. C.D. ROM such as Encyclopaedia Britannica, Microsoft Encarta, Edubuntu of it @school, Kerala	3. Make an improvised apparatus in a group of three and contribute to the local school.	
4.To have a hands on approach in organizing and maintaining library and laboratory in Science	MODULE. IV Programme library, Reference Library, Need for planning the computer laboratory – setting up a computer lab. Essential infrastructure – LAN topologies – advantgages of using a LAN – Laboratory management – Lab. Routine for Pupils – arranging for pupils practical – maintenance of records.	 4. Make a sample stock register for the laboratory of your own college. 5. Prepare the list of at least 20 Computer science books in the library and prepare an accession register for the same. 	

EDU.179. PROFESSIONALIZING COMPUTER SCIENCE EDUCATION			
Contact Hours: 75 Hours (Instruction) &15 hours (process) Marks: 50 (End semester Examination)& 10 (CE)			
Objectives Content Process			
1.To appreciate Linking science with Society	MODULE. I Computer literacy, Computerisation of governmental administration and services, Internet and allied services for outreaching to society. Internet based banking services, e-commerce, e grants, on line services- booking tickets, application submission etc.	1. Make of a multimedia package/short film/very short documentary	
2. To acquaint with the co- curricular activities in Computer Science	MODULE. II Co-curricular activities - organization of field trips, Public computer literacy programmes, Computer clubs, Linkage with Home.	2. Plan a computer literacy programme for a rural neighbourhood village.	
3. To understand the importance of nurturing talented children	MODULE. III 3.1 Identifying and nurturing the gifted children. Creativity and Critical thinking. Algorithmic reasoning.	3. Prepare an enrichment material for gifted students in computer science on a concept of standard 11	
4. To familiarize the I T related professional inputs of teaching.	MODULE. IV 4.1 Computer Assisted Instruction, Expert System, E-content Development, 4.2 Course ware, Free Softwares in Education. 4.3 Learning Management Systems – MOODLE Creative Commons Licensing	4. Prepare a rating scale to evaluate an educational CD and evaluate one using the same.	
5.To be a Professional Science Teacher	MODULE. V 5.1 Definition of profession, Teaching as a profession. 5.2 Traits of professionalism 5.3 Soft Skills 5.3 Professional growth of Science teacher. – Teaching , Research and Extension. Research journals in Computer Science. Role of SCERT and NCERT in the professional growth of a teacher. 5.4 Internet resources and websites for professional growth of a Computer Science teacher.	 5. Does the profession of teaching command same respect as other professions? Express your views in the class. 6. Prepare a review of a research based article on computer science from any e - journal 	

REF	FERENCES		
1	Emerging Trends in	:	Ratho, T.N. and Ravi
•	Teaching of Computer		Prakash
2	Computer Education	:	(ed.) Venkataih
3	Computer Education	:	U.K.Singh and
			K.N.Sudarsan
4	Models of Teaching	:	Bruce Joyce and Marsha Weil
5	A Study of Thinking	:	Jerome S. Bruner et al.
6	Piaget for Classroom Teaching	:	Bavry J. Wadsmith
7	Cybernetic principles of	:	Karl U.Smith and margaret
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9	Synetics	:	William J.J. Gorden
1	Education in Digital		R.K. Ramana
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1			
1 1	Computer Assisted Instruction – A	:	Stainberg
	synthesis of Theory,		
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1	Technology Microcomputers in		Smith, I.C.H.
2	Education		
1	Annotate C++		Stroustrup
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1	Education via internet		Venkataiah S.
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1	Education in the		Wldavsky A.
5	computer age-issue of	•	Wildworky 11.
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1	Oracle 8I – The	:	Kevin Loney and George
6	Complete Reference		Kock
1	Object Oriented	:	James Rumbaugh et al.
7	Modeling and Design		

MODEL QUESTION PAPERS

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B.Ed. DEGREE (SEMESTER PATTERN) EXAMINATION MODEL QUESTION PAPER EDU. 101. PERSPECTIVES ON EDUCATION

Time: Two Hours

Maximum: 50 Marks

Part A

Answer **all** questions. Each question carries 1 mark.

- 1. Write any one definition for Education
- 2. Trace the etymological meaning of education
- 3. What are purusharthas?
- 4. List any two articles of Indian education pertaining to education
- 5. Write any two recommendations of mecauley's minutes
- 6. What is the significance of Kothari commission report
- 7. What is culture of silence
- 8. What is 'emile'?

(8 X 1 = 8 marks)

Part B

Answer **all** questions.

Each question carries 2 marks.

- 9. What are the functions of education?
- 10. List the major factors affecting education
- 11. Distinguish between aims and functions of education
- 12. What are the National goals of education?
- 13. Write a note on 86th constitutional amendment
- 14. What do you meant by international understanding?
- 15. Why did Wood's dispatch is known as the Magna-carta of Indian education?
- 16. What are folk schools?

(8 X 2 = 16 marks)

Part C

Answer any **four** questions.

Each question carries 4 marks.

- 17. What are the characteristics of Negative education
- 18. Briefly describe the basic principles of pragmatism
- 19. Write a short note on NCF (2005)
- 20. What are the arguments favouring to inclusion of education under concurrent list?
- 21. Explain the co curricular activities for promoting National Integration
- 22. What are the major focal areas of education as a discipline $(4 \times 4 = 16 \text{ marks})$

Part D

Answer any **one** question. The question carries 10 marks.

- 23. Compare and contrast the educational ideas of Idealism and Pragmatism as the
- philosophies of education24. Briefly describe the major landmarks in the history of Indian education in the post independence period

(1 X 10 = 10 marks)

B.Ed. DEGREE (SEMESTER PATTERN) EXAMINATION MODEL QUESTION PAPER EDU. 102. PSYCHOLOGY OF THE LEARNER

Time: Two Hours

Maximum: 50 Marks

Part A

Answer **all** questions. Each question carries 1 mark.

- 1. What is mean by 'case' in a case study?
- 2. Mention the names of any two psychoanalytical psychologists.
- 3. What is mean by identity crisis?
- 4. Explain the concept of 'Emotional Quotient'
- 5. What are the stages in creative thinking?
- 6. What is mean by 'Mental Hygiene'?
- 7. Explain the concept of Learning disability
- 8. What is approach avoidance conflict?

Part B

Answer **all** questions.

Each question carries 2 marks.

- 9. Explain the differences between cross sectional study and Longitudinal study
- 10. What do you meant by Multiple Intelligence?
- 11. Briefly explain Bruner's modes in cognitive development
- 12. As a teacher how can you help a slow learner in the ordinary class room?
- 13. Explain the concept of "Ideal self" of Rogers
- 14. Why should Guidance and counseling be made an essential programme in secondary schools?
- 15. Distinguish between Assimilation and Accommodation
- 16. What is educational psychology defined as the "science and technology of education"?

(8 X 2 = 16 marks)

(8 X 1 = 8 marks)

Part C

Answer any **four** questions.

Each question carries 4 marks.

- 17. Discuss the effect of a maladjusted teacher on student's personality development
- 18. Explain Guilford's view of structure of intelligence
- 19. Explain the relative role of heredity and environment on individual difference
- 20. "EQ matters more than IQ"- Comment
- 21. Explain Kohlberg's view regarding moral development
- 22. Describe Allport's Trait Approach to personality (4 X 4 = 16 marks)

Part D

Answer any **one** question.

The question carries 10 marks.

- 23. Explain how knowledge of educational psychology is useful to the classroom teacher?
- 24. What are the recent issues related to adolescent's development in Kerala today? How can school tackle issues in an effective manner?

(1 X 10 = 10 marks)

B.Ed. DEGREE (SEMESTER PATTERN) EXAMINATION MODEL QUESTION PAPER EDU. 103. TECHNOLOGY AND INFORMATICS IN EDUCATION

Time: Two Hours

Maximum: 50 Marks

Part A

Answer **all** questions. Each question carries 1 mark.

- 1. Define communication
- 2. What you mean by educational informatics
- 3. What you know about ViCTERS
- 4. Give two examples for activity aids
- 5. Define the concept of multimedia
- 6. Expand the acronym HTML and mention its purpose
- 7. Give two examples for search engines
- 8. Define e-leaning

(8 X 1 = 8 marks)

Part B

Answer **all** questions.

Each question carries 2 marks.

- 9. What is mean by communication cycle ?
- 10. Write any four merits of multisensory approach
- 11. Differentiate CAI and CMI
- 12. Write a short note on e- content authoring
- 13. What is blog? How it is useful in learning
- 14. Distinguish hardware and software approach
- 15. Explain the terms, home page, bookmarking, web browser and web page
- 16. What are the functions of EDUSAT

(8 X 2 = 16 marks)

Part C

Answer any **four** questions.

- 17. What are the barriers of communication?
- 18. Explain the scope of technology in classroom teaching
- 19. Explain briefly about computer networks
- 20. How will you create a power point presentation
- 21. What are the merits of e-mail? How will you create an e-mail ID
- 22. Explain the role of teacher in computer mediated learning (4 X 4 = 16 marks)

Answer any **one** question.

The question carries 10 marks.

- 23. Traditional learning process are replaced by e-learning today substantiate your views
- 24. Briefly explain the major strategies for technology enabled teaching and leaning

B.Ed. DEGREE (SEMESTER PATTERN) EXAMINATION MODEL QUESTION PAPER EDU. 104. EDUCATION IN THE SOCIO CULTURAL CONTEXT

Time: Two Hours

Maximum: 50 Marks

Part A

Answer **all** questions. Each question carries 1 mark.

- 1. What is socialization?
- 2. What is social structure?
- 3. Define acculturation
- 4. List the societal agencies of education
- 5. What are the social indices of development
- 6. What is GER
- 7. What do you meant by inclusive education
- 8. Write the expansions for GDP and FFLP

(8 X 1 = 8 marks)

Part B

Answer **all** questions.

Each question carries 2 marks.

- 9. What do you meant by social system?
- 10. What are the causes of cultural lag?
- 11. Define the term cultural capital as perceived by Bourdiou
- 12. Define modernization. How it is different from modernization
- 13. How does education can become an investment?
- 14. Mention any two projects for UEE
- 15. What is value crisis?
- 16. Write any four child rights

(8 X 2 = 16 marks)

Part C

Answer any **four** questions.

- 17. Explain the issue of Quality Quantity Paradox in Indian education
- 18. What is the significance of inclusive education in Indian context?
- 19. Discuss the role of education in Kerala Development Experience
- 20. What are the aspirations of Indian society?
- 21. What is social system? How education acts as a sub system of society
- 22. Describe different types of social control

Answer any **one** question. The question carries 10 marks.

- 23. What is social change? Describe the factors affecting education. What are the roles of education in social change?
- 24. Briefly describe the significance of environmental education in the current era. Describe the educational strategies for Environmental Education

B.Ed. DEGREE (SEMESTER PATTERN) EXAMINATION MODEL QUESTION PAPER EDU. 105. PSYCHOLOGY OF LEARNING

Time: Two Hours

Maximum: 50 Marks

Part A

Answer **all** questions. Each question carries 1 mark.

- 1. Define reinforcement.
- 2. What is meant by span of attention? What are the class room implications?
- 3. What is meant by achievement-motivation? How is it measured?
- 4. Mention the strategies for metacognition.
- 5. What is ZPD?
- 6. What do you mean by cognitive apprenticeship?
- 7. Define schema as given by Piaget.
- 8. Define peer tutoring.

(8 X 1 = 8 marks)

Part B

Answer **all** questions.

Each question carries 2 marks.

- 9. Examine the relative significance of maturation and learning in human development.
- 10. Explain the factors affecting learning.
- 11. What are the stages of problem solving? What are the classroom implications?
- 12. Relate the terms assimilation, accommodation and equilibration as given by Piaget.
- 13. Distinguish between co-operative learning and collaborative learning.
- 14. What are the causes of forgetting?
- 15. Explain how knowledge of group dynamics helps the teacher in effective classroom management.
- 16. Write a short note on transfer of learning. (8 X 2 = 16 marks)

Part C

Answer any four questions.

- 17. Explain Gagne's hierarchy of learning and examine its relevance in classroom instruction.
- 18. Explain in detail the different steps in concept formation. Illustrate with an example.
- 19. What do you mean by 'approaches to studying'? Distinguish between the different 'approaches to studying' found in learners.
- 20. Define sociometry. Explain the procedure for constructing a sociogram. What is its importance?
- 21. Explain Experiential learning as put forward by Carl Rogers. Write its educational implications.
- 22. What do you mean by Brain based learning? Explain the strategies to be adopted for brain based learning in class room. (4 X 4 = 16 marks)

Answer any **one** question.

The question carries 10 marks.

- 23. Explain the Skinnerian theory of learning and its educational implications.
- 24. Explain the theory of Transactional Analysis

B.Ed. DEGREE (SEMESTER PATTERN) EXAMINATION MODEL QUESTION PAPER EDU. 106. EDUCATIONAL MANAGEMENT

Time: Two Hours

Maximum: 50 Marks

Part A

Answer **all** questions.

Each question carries 1 mark.

- 1. Mention any two tools of evaluation
- 2. Explain any two postural deformity
- 3. Briefly explain the qualities of a head master
- 4. Write a few advantages of time table
- 5. What are the major symptoms of diabetics
- 6. Write any four important records that a school should keep
- 7. What you know about service book
- 8. What is the concept of TQM

(8 X 1 = 8 marks)

Part B

Answer all questions.

Each question carries 2 marks.

- 9. What are the functions of evaluation
- 10. Find the median of the scores 48,25,37,19,28,44
- 11. Discuss the major principles of time table
- 12. Briefly explain School Management Committee and its functions
- 13. Mention any two functions of staff council
- 14. List any four records to be maintained in the school
- 15. How do you maintain quality of the school through Total Quality Committee
- 16. Differentiate Formative and Summative evaluation (8 X 2 = 16 marks)

Part C

Answer any **four** questions.

Each question carries 4 marks.

- 17. Briefly explain any two essential qualities required for a good evaluation tool
- 18. Write a short note on the graphical representation of statistical data
- 19. What is the role of the head of the institution in school administration
- 20. List the major functions of school complexes
- 21. What should be the role of PTA in schools
- 22. Define physical fitness. Explain the major components involved in it

Answer any **one** question. The question carries 10 marks.

- 23. Differentiate measurement and evaluation. What are the functions of evaluation? Explain the grading system followed in our schools
- 24. Define the term educational management. Enumerate the scope and characteristics of educational management (1 X 10 = 10 marks)

B.Ed. DEGREE (SEMESTER PATTERN) EXAMINATION MODEL QUESTION PAPER EDU. 120. METHODOLOGY OF TEACHING MATHEMATICS

Time: Two Hours

Maximum: 50 Marks

Part A Answer all questions.

Each question carries 1 mark.

- 1. Give two examples for axioms in Mathematics
- 2. Mention two programmes in Edubuntu that can be used for teaching mathematics
- 3. List any two advantages of Laboratory method in Mathematics
- 4. What is peer tutoring?
- 5. List any two disciplinary values attainable through learning mathematics.
- 6. Differentiate Mathematics from Basic Science.
- 7. What is a Project?
- 8. List any two characteristics of good questioning. (8 X 1 = 8 marks)

Part B

Answer **all** questions.

Each question carries 2 marks.

- 9 How is modern mathematics different from traditional one?
- 10 Explain the features of Mathematics language.
- 11 what are the process abilities to be developed through Mathematics learning?
- 12 Explain practical/ utilitarian values of teaching Mathematics.
- 13 Explain the importance of Inductive method of teaching mathematics.
- 14 What are the characteristics of co-operative learning/
- 15 How will you organize seminar in your class?
- 16 Bring out the advantages of peer tutoring.

(8 X 2 = 16 marks)

Part C

Answer any **four** questions.

Each question carries 4 marks.

- 17. Explain values of teaching Mathematics.
- 18. Bring out the salient features of RME.
- 19. Compare Behaviorist and Constructivist approaches to teaching.
- 20. Explain importance of Problem solving method in teaching mathematics.
- 21. Discuss the merits and demerits of Heuristic approach in mathematics education.
- 22. Explain the role of assignments in mathematics learning.

Answer any **one** question. The question carries 10 marks.

- 23. Explain analytic and synthetic method of teaching mathematics. Prepare a list of analytic questions based on a suitable topic of your choice.
- 24. Explain the major events in the development of mathematics education.

B.Ed. DEGREE (SEMESTER PATTERN) EXAMINATION MODEL QUESTION PAPER **EDU. 140. PEDAGOGIC PRACTICES IN MATHEMATICS**

Time: Two Hours

Maximum: 50 Marks

Part A

Answer **all** questions.

- Each question carries 1 mark.
- 1. Write an instructional objective in mathematics under the objective comprehension.
- 2. List the stages of planning instruction.
- 3. Mention any two advantages of lesson planning.
- 4. Write any two disadvantages of essay type items.
- 5. Write a multiple choice item from any type of instructional Mathematics.
- 6. What is specification? Give an example.
- 7. What is micro teaching?
- 8. Write one common misconcept among students related to operations with fractions.

Part B

Answer **all** questions.

Each question carries 2 marks.

- 9. Write any four objectives of teaching mathematics at secondary level.
- 10. Write any four competencies that be developed through mathematics learning.
- 11. Bring out the significance of prerequisites in learning mathematics.
- 12. Why evaluation is important in mathematics education.
- 13. Explain the salient features of CCE.
- 14. How will you evaluate a project in mathematics?
- 15. Write four items to measure attitude towards mathematics of your students
- 16. List four curricular objectives of any topic from 8th standard mathematics.

(8 X 2 = 16 marks)

Part C

Answer any **four** questions.

Each question carries 4 marks.

- 17. Explain the interrelationship between objectives, learning experiences and evaluation with suitable example.
- 18. Differentiate achievement test and a diagnostics test.
- 19. Bring out the significance of micro teaching in a teacher preparation course.
- 20. Differentiate CRE & NRE with suitable examples.
- 21. What are the principles to be borne in mind while constructing an objective type question.
- 22. Explain the major areas of teaching mathematics.

Answer any **one** question. The question carries 10 marks.

23. Construct an achievement test with proper explanations of the steps to be followed. 24. Write a lesson plan in constructivist format on the topic proportion of 9^{th} standard. (1 X 10 = 10 marks)

B.Ed. DEGREE (SEMESTER PATTERN) EXAMINATION MODEL QUESTION PAPER EDU 160 CURRICULUM & RESOURCES OF MATHEMATICS

Time: Two Hours

Maximum: 50 Marks

Part A

Answer **all** questions.

Each question carries 1 mark.

- 1. Write any two reasons that demand frequent revisions in mathematics curriculum.
- 2. Write any two functions of work book in mathematics.
- 3. What is an improvised aid?
- 4. List the nurturant effects of ITM.
- 5. Write any two salient features of Nuffield curriculum.
- 6. Write any two reference books in mathematics for secondary school students.
- 7. Write any two functions of mathematics library.
- 8. List any two essential equipments in mathematics lab.

(8 X 1 = 8 marks)

Part B

Answer **all** questions.

Each question carries 2 marks.

- 9. Explain the concept of curriculum.
- 10. What are the principles of curriculum organization?
- 11. Write any four characteristics of good textbook.
- 12. Write the major contributions made by SMSG.
- 13. Bring out the importance of A.V. aids in teaching and learning of mathematics.
- 14. Mention different families of models of teaching.
- 15. Explain any one game than can be used for increasing skill computations among students.
- 16. What is the role of mathematics lab at secondary level? $(8 \times 2 = 16 \text{ marks})$

Part C

Answer any **four** questions.

- 17. Explain the syntax of ITM.
- 18. Write the principles of curriculum construction.
- 19. Explain an improvised aid that can be used for teaching any concept/principle in mathematics at secondary level.
- 20. Explain various approaches of curriculum organization.
- 21. Bring out the importance of text books in mathematics.
- 22. Explain characteristics of 'Models of teaching'. $(4 \times 4 = 16 \text{ marks})$

Answer any **one** question. The question carries 10 marks.

- 23. Write a lesson plan based on CAM for a suitable topic in mathematics at secondary level.
- 24. Explain role of recreational activities in mathematics learning with suitable example.

B.Ed. DEGREE (SEMESTER PATTERN) EXAMINATION MODEL QUESTION PAPER EDU 180 PROFESSIONALIZING MATHEMATICS EDUCATION

Time: Two Hours

Maximum: 50 Marks

Part A

Answer **all** questions.

Each question carries 1 mark.

- 1. Prepare two questions for a mathematics quiz at secondary level.
- 2. What is a module?
- 3. What is CAI?
- 4. Write any two specific qualities of a mathematics teacher.
- 5. Who is an exceptional child in mathematics?
- 6. Write any two characteristics of a slow learner in mathematics.
- 7. List any two programmes that can be organized by mathematics club.
- 8. Write the components of mathematical creativity. $(8 \times 1 = 8 \text{ marks})$

Part B

Answer **all** questions.

Each question carries 2 marks.

- 9. List the functions of a mathematics club.
- 10. What measures will you take to cater the needs of slow learners in mathematics?
- 11. Write major functions of mathematics Olympiad?
- 12. What are the advantages of field trip?
- 13. List the objectives of mathematics exhibition.
- 14. As a mathematics teacher how will you ensure parental contact and co-operation?
- 15. Explain the concept of remedial measure.
- 16. What are the guiding principles of managing co-curricular activities?

(8 X 2 = 16 marks)

Part C

Answer any **four** questions.

Each question carries 4 marks.

- 17. How will you develop mathematics creativity among your students?
- 18. Explain the role of NCERT in professionalizing teachers.
- 19. How will you identify a mathematically gifted learner in your class?
- 20. Write the major teacher competencies suggested by NCTE.
- 21. Write the steps involved in the preparation of an e-content.
- 22. What are the points to be kept in mind while selecting an enrichment material?

Answer any **one** question. The question carries 10 marks.

- 23. Bring out the role of mathematics in the development of civilization.24. 'Teaching is a profession' Comment. Explain the adequacy of provisions for professional growth of teachers.

B.Ed. DEGREE (SEMESTER PATTERN) EXAMINATION MODEL QUESTION PAPER EDU. 118. METHODOLOGY OF TEACHING COMMERCE

Time: Two Hours

Maximum: 50 Marks

Part A

Answer **all** questions. Each question carries 1 mark.

- 1. Point out any two recent developments in commerce.
- 2. Mention any two features of learner centered education.
- 3. What is Review?
- 4. What is competency?
- 5. List out any two social issues that can be addressed in commerce class at higher secondary level.
- 6. Suggest any two small group activity methods of teaching suitable for commerce class.
- 7. Define project.
- 8. Write any two features of cooperative learning.

(8 X 1 = 8 marks)

Part B

Answer **all** questions.

Each question carries 2 marks.

- 9. Briefly explain the major areas of commerce.
- 10. Elucidate the meaning of commerce education.
- 11. "Instruction should proceed from empirical to rational". Comment.
- 12. List out the precautions to be taken while adopting lecture method of teaching.
- 13. What is problem posing education?
- 14. List out the merits of brain storming technique.
- 15. What is Critical Pedagogy?
- 16. Write a note on "Jigsaw method" in co- operative learning

(8 X 2 = 16 marks)

Part C

Answer any **four** questions.

Each question carries 4 marks.

- 17. "Commerce education is more relevant in our modern age of business and technology". Comment this statement.
- 18. Briefly explain the steps in competency based instruction.
- 19. "Induction is the making of tools and dedication is using of tool". Explain.
- 20. Explain the spiral development approach of teaching accountancy.
- 21. Mention the important recommendations of KCF 2007.
- 22. How can you use case study method to teach business subjects? Explain the phases involved in it.

Answer any **one** question.

The question carries 10 marks.

- 23. Describe the importance of role playing in the teaching of commerce subjects. Suggest two areas and explain how you would apply this method in commerce stream.
- 24. Explain the significance of constructivist approach for curriculum transaction in commerce subjects. How it differs from Behavourism?

B.Ed. DEGREE (SEMESTER PATTERN) EXAMINATION MODEL QUESTION PAPER EDU. 138. PEDAGOGICAL PRACTICES IN COMMERCE

Time: Two Hours

Maximum: 50 Marks

Part A

Answer **all** questions. Each question carries 1 mark.

- 1. Mention any two values that can be developed among commerce students.
- 2. Give two specifications under the objective 'application'.
- 3. Define Micro Teaching.
- 4. Write down the pre-requisites for learning the topic Business Ethics.
- 5. What is meant by fact?
- 6. Point out any two merits of objective type question.
- 7. Mention the significance of question wise analysis.
- 8. Frame a creative assignment for the topic 'Sources of finance'

(8 X 1 = 8 marks)

Part B

Answer all questions.

Each question carries 2 marks.

- 9. Enumerate the process skills involved in learning the topic Basic Accounting Cycle
- 10. Frame four multiple choice questions to test the ability of understanding from the topic 'Kinds of shares'.
- 11. Write four institutional objectives on the topic 'Preparation of Bank Reconciliation Statement'.
- 12. Write down the subunits come under the unit Internal Trade.
- 13. What is contra entry?
- 14. In What ways you should review the topic Sole Proprietorship Business.
- 15. What is remedial teaching?
- 16. What are the aims of teaching commerce?

(8 X 2 = 16 marks)

Part C

Answer any **four** questions.

- 17 Suggest the learning activities which can be given to the students while teaching the topic 'Co- operative society'.
- 18 "Skills are the reflections of the competency of a teacher". Explain any one core skill from the point of view of commerce teaching
- 19 What do you mean by reserves and provisions? How would you make students to distinguish between reserves and provisions?
- 20 With the help of a chart how will you explain the topic "Role of profit in business".
- 21 Describe the steps in Herbertian approach in Lesson planning
- 22 Briefly explain the Revised Bloom's Taxonomy. (4 X 4 = 16 marks)

Answer any one question.

The question carries 10 marks.

- 23. Write down the curricular objectives, learning activities, instructional strategies and instructional aides used for teaching the topic "Depreciation and its methods". 24. Develop a Lesson Plan on the topic "Partnership-Meaning and Features".

 $(1 \times 10 = 10 \text{ marks})$

B.Ed. DEGREE (SEMESTER PATTERN) EXAMINATION MODEL QUESTION PAPER EDU.158. CURRICULUM AND RESOURCES OF COMMERCE

Time: Two Hours

Maximum: 50 Marks

Part A

Answer **all** questions. Each question carries 1 mark.

- 1. Define curriculum
- 2. Point out any two significance of interdisciplinary approach in teaching commerce.
- 3. List out any two supplementary materials that can be used in teaching of commerce.
- 4. Suggest any two ways for efficient and proper use of commerce library.
- 5. Mention two nurturant effects of Advance Organizer Model.
- 6. State the importance of work book.
- 7. List out two facilities needed in an effective Accounting classroom.
- 8. List the names of any two commerce journals.

(8 X 1 = 8 marks)

Part B

Answer **all** questions.

Each question carries 2 marks.

- 9. Outline the modern trends in construction of commerce curriculum.
- 10. What is interdisciplinary approach?
- 11. Mention the importance of Audio-Visual Aids in commerce education.
- 12. Explain the 'operational heart' of an instructional model.
- 13. What are the points to be noted while presenting a paper by using LCD projector?
- 14. Write a note on commerce room.
- 15. Give any four qualities of Commerce Text Book.
- 16. How text book review helps in learning of commerce subjects.

(8 X 2 = 16 marks)

Part C

Answer any **four** questions.

Each question carries 4 marks.

- 17 State any four principles of curriculum construction. To what extent it is reflected in present curriculum of Accounting at Higher Secondary Level?
- 18 Explain the relationship of Commerce with Economics and Computer Science.
- 19 "A good text book should be a servant, not a master". Comment.
- 20 Discuss the use of internet in teaching of commerce.
- 21 Explain the key terms involved in describing a specific models of teaching.
- 22 Describe briefly the criteria for the selection of text book for teaching of commerce.

Answer any **one** question. The question carries 10 marks.

- 23. Describe the major approaches followed in designing curriculum. Give the rationale for following any specific approach at Higher Secondary levels for teaching of commerce subjects.
- 24. 'Teaching models are instructional designs'. Comment this statement and describe the role of the Jurisprudential Inquiry Model in teaching Business studies

B.Ed. DEGREE (SEMESTER PATTERN) EXAMINATION MODEL QUESTION PAPER EDU.178. PROFESSIONALIZING COMMERCE EDUCATION

Time: Two Hours

Maximum: 50 Marks

Part A

Answer **all** questions. Each question carries 1 mark.

- 1. What is Business ethics?
- 2. Cite any two situations in commerce where market studies and surveys can be effectively used.
- 3. Define creativity.
- 4. State any two qualities of good commerce teacher.
- 5. Mention any two enrichment programmes for gifted children.
- 6. State any two merits of pre-service programmes for commerce teachers.
- 7. Outline any two objectives of commerce club.
- 8. Who are gifted children?

(8 X 1 = 8 marks)

Part B

Answer **all** questions.

Each question carries 2 marks.

- 9. 'Visits made to commercial and industrial establishments gives practical experience to students of commerce'. Comment.
- 10. What are the techniques to foster creativity among the children?
- 11. What kinds of value are developed through organization of school bank?
- 12. Explain the term 'Computer Aided Teaching.'
- 13. What is professional ethics?
- 14. How is commerce magazine helpful in shaping the thoughts of the students?
- 15. "A lamp can never light another lamp unless it continues to burn its own flames". Comment.
- 16. Mention any four situations where social responsibility of business is violated.

(8 X 2 = 16 marks)

Part C

Answer any **four** questions.

- 17 How commerce education helps the students to become a socially responsible citizen?
- 18 Discuss the educational implications of co- curricular activities in teaching commerce subjects for Higher Secondary students.
- 19 What are the educational provisions for gifted children?
- 20 Explain the steps involved in e-content development with the help of an example from Business studies.
- 21 Discuss briefly the important competencies suggested by NCTE with which the commerce teacher should be equipped.
- 22 Explain how will you mobilize and use the community recourses for effective teaching of commerce subjects in Higher Secondary School? (4 X 4 = 16 marks)

Answer any **one** question.

The question carries 10 marks.

- 23. Define professionalism. What are the opportunities available for the professional growth of commerce teachers in Kerala?
- 24. "New Information Technology has revolutionalised the field of commerce education in many ways". Justify your answer with the help of examples.

B.Ed. DEGREE (SEMESTER PATTERN) EXAMINATION MODEL QUESTION PAPER EDU. 112.METHODOLOGY OF TEACHING ENGLISH

Time: Two Hours

Maximum: 50 Marks

Part A

Answer **all** questions.

Each question carries 1 mark.

- 1. Give any two functions of language.
- 2. What do you mean by diachronic study of a language ?
- 3. List out any two features of English as a link language.
- 4. Language comprises of four major skills. Which are they ?
- 5. What is skimming ?
- 6. What is ZPD ?
- 7. Give any two activities that enhances speaking skill
- 8. What is the difference between rhyme and rhythm? (8 X 1 = 8 marks)

Part B

Answer all questions.

Each question carries 2 marks.

- 9. Differentiate productive and receptive skills.
- 10. What is scaffolding?
- 11. What is TPR ? Highlight any two principles.
- 12. What are the principles of bilingual method of teaching English ?
- 13. Language is a system of arbitrary vocal symbols by means of which a social group cooperates Comment.
- 14. What are the main obstacles in the realization of educational objectives of teaching English?
- 15. What is focused listening?
- 16. List out the core issues envisaged in the KCF .

(8 X 2 = 16 marks)

Part C

Answer any *four* questions.

- 17. Write short note on LAD
- 18. Differentiate acquisition and learning.
- 19. Enumerate the principles of selection and gradation of vocabulary.
- 20. Briefly explain the different methods of teaching pronunciation.
- 21. What are the differences in the procedure of teaching function and content words in English ?
- **22.** Write a note on the illogical nature of English. (4 X 4 = 16 marks)

Answer any **one** question.

The question carries 10 marks.

- 23. Enumerate the features of social constructivism and explain how far it is effective in teaching of English in the Kerala context.
- **24.** Explain the differences among translation, direct and bilingual methods of teaching English. $(1 \times 10 = 10 \text{ marks})$

B.Ed. DEGREE (SEMESTER PATTERN) EXAMINATION MODEL QUESTION PAPER EDU. 132.PEDAGOGIC PRACTICES IN ENGLISH

Time: Two Hours

Maximum: 50 Marks

(8 X 1 = 8 marks)

Part A

Answer **all** questions. Each question carries 1 mark.

- 1. Who introduced micro teaching ?
- 2. What is a blueprint ?
- 3. Give any two advantages of pedagogic analysis.
- 4. What is CCE ?
- 5. Give an example for an oxymoron.
- 6. What do you mean by ' specification '?
- 7. What is remedial teaching ?
- 8. What is link practice ?

Part B

Answer **all** questions.

Each question carries 2 marks.

- 9. Differentiate and ragogy and pedagogy
- 10. Define micro teaching.
- 11. List out any two advantages of short answer type questions.
- 12. What is reflective teaching ?
- 13. What are the steps involved in the construction of an achievement test ?
- 14. List out the importance of evaluation.
- 15. What are the different types of grading ?
- 16. What is content analysis ?

(8 X 2 = 16 marks)

Part C

Answer any **four** questions.

Each question carries 4 marks.

- 17. Indicate the objectives of teaching English in our secondary schools.
- 18. Differentiate formative and summative evaluation.
- 19. What are the characteristics of a good test?
- 20. What are the objectives of teaching poetry in secondary level?
- 21. Which are the different types of supplementary readers?
- 22. Briefly explain the problems of teaching literature in schools ?

Answer any **one** question.

The question carries 10 marks.

- 23. Prepare a constructivist lesson plan on the poem "DREAMS" by Langston Hughes
- 24. Explain the basic concerns of critical pedagogy, with special reference to the role of teacher, learner and curriculum.

B.Ed. DEGREE (SEMESTER PATTERN) EXAMINATION MODEL QUESTION PAPER EDU. 152. CURRICULUM AND RESOURCES OF ENGLISH

Time: Two Hours

Maximum: 50 Marks

Part A

Answer **all** questions. Each question carries 1 mark.

- 1. List out any two principles of curriculum.
- 2. What is realia ?
- 3. Give any two characteristics of a good learning aid.
- 4. What is a teaching machine?
- 5. Give two advantages of multimedia.
- 6. Name any two ELT journals.
- 7. Give an example for an information gap activity.
- 8. List out the importance of library

(8 X 1 = 8 marks)

Part B

Answer all questions.

Each question carries 2 marks.

- 9. Differentiate process and product oriented syllabus.
- 10. What are the characteristics of a good paragraph?
- 11. List out the entries in a dictionary.
- 12. Write any two importance of reference skills.
- 13. What are the criteria of a good course book?
- 14. Give the advantages of a work book.
- 15. How does a course book differ from a source book?
- 16. Give any two limitations of bulletin board.

(8 X 2 = 16 marks)

Part C

Answer any **four** questions.

- 17. Discuss the place of audio-visual aids in teaching of English.
- 18. Differentiate note-taking and note-making.
- 19. What is task based syllabus?
- 20. Write a short note on progressive type supplementary reader.
- 21. Suggest some techniques for improving note-taking.
- 22. What are the basic principles of English language curriculum? (4 X 4 = 16 marks)

Answer any **one** question.

The question carries 10 marks.

- 23. Explain the principles of curriculum construction.
- 24. As a teacher of English language, what will be your criteria in selecting a course book for your students ? (1 X 10 = 10 marks)

B.Ed. DEGREE (SEMESTER PATTERN) EXAMINATION MODEL QUESTION PAPER EDU. 172. PROFESSIONALISING ENGLISH EDUCATION

Time: Two Hours

Maximum: 50 Marks

Part A

Answer **all** questions.

- Each question carries 1 mark.
- 1. List out any two competencies required of a teacher of English.
- 2. Who is the exponent of MI theory?
- 3. Give two examples of dyadic communication.
- 4. What is outsourcing?
- 5. Suggest two characteristics of creativity.
- 6. State the role of teacher as a diagnostician.
- 7. List out the major causes of indiscipline.
- 8. Write down any two merits of manuscript magazine. (8 X 1 = 8 marks)

Part B

Answer **all** questions.

Each question carries 2 marks.

- 9. What is reflective teaching?
- 10. What do you mean by professionalism?
- 11. List out any four language related activities for std. 9 students.
- 12. What are the merits of on-line teaching?
- 13. What is reflective questioning?
- 14. Suggest some ways to improve pronunciation of secondary school students.
- 15. Write any two principles of playway in education.
- 16. Give the importance of humour in classroom.

(8 X 2 = 16 marks)

Part C

Answer any **four** questions.

- 17. What are the characteristics of talented children ? How will you cater to their needs ?
- 18. Develop a communicative task which enhances the speaking skill of students.
- 19. Write a short note on Interactive Learning Model (ILM)
- 20. How would you boost the creativity of your students in an English language classroom?
- 21. Briefly explain the different roles of a language teacher in the present system of education.
- 22. Detail upon the steps involved in reflective teaching. (4 X 4 = 16 marks)

Answer any **one** question.

The question carries 10 marks.

- 23. Explain the principles of teaching and techniques for improving the quality of teaching.
- 24. Prepare a short module for teaching e-content (1 X 10 = 10 marks)

B.Ed. DEGREE (SEMESTER PATTERN) EXAMINATION MODEL QUESTION PAPER EDU 123 METHODOLOGY OF TEACHING SOCIAL SCIENCES

Time: Two Hours

Maximum: 50 Marks

Part A

Answer **all** questions. Each question carries 1 mark.

- 1. Define social studies
- 2. List any two social sciences and semi social sciences
- 3. What do you mean by 'new social studies'
- 4. What is didactic approach to teaching
- 5. Write any two principles of project method
- 6. What is pedagogy of oppressed
- 7. What do you mean by specifications
- 8. Mention any two advantages of discussion

(8 X 1 = 8 marks)

Part B

Answer **all** questions.

Each question carries 2 marks.

- 9. Distinguish between social studies and social science
- 10. Name the list of social sciences listed by David Sills
- 11. What are the scope of social sciences in secondary schools
- 12. When to use lecture in the classroom
- 13. What are the advantages of source method
- 14. What is metacognition
- 15. What are the uses of concept maps
- 16. Mention the basic elements of cooperative learning

(8 X 2 = 16 marks)

Part C

Answer any **four** questions.

Each question carries 4 marks.

- 17. Explain the classification of definitions given by John U Michaelis to Social Studies
- 18. Briefly describe the scope of social sciences in a democratic country
- 19. Briefly describe the post war history of social sciences
- 20. How will use source method in your class
- 21. Distinguish between role play and simulations
- 22. Describe the vision of social science curriculum in NCF(2005)

Answer any **one** question.

The question carries 10 marks.

- 23. Define project method. What are its basic principles? Explain how will you conduct a project in classroom
- 24. Distinguish between behaviourist and constructivist approaches to teaching. Briefly explain the various strategies used in constructivist paradigm

B.Ed. DEGREE (SEMESTER PATTERN) EXAMINATION MODEL QUESTION PAPER EDU. 143. PEDAGOGIC PRACTICES OF SOCIAL SCIENCES

Time: Two Hours

Maximum: 50 Marks

Part A

Answer **all** questions. Each question carries 1 mark.

- 1. What are conceptual objectives
- 2. What is RBT
- 3. Which are the domains of the taxonomy of educational objectives
- 4. Who developed the concept of multiple intelligences
- 5. Write any two maxims of teaching
- 6. What are the uses of micro teaching
- 7. What is pedagogic analysis
- 8. What are the levels of planning

(8 X 1 = 8 marks)

Part B

Answer **all** questions.

Each question carries 2 marks.

- 9. What do you meant by process evaluation
- 10. What are the purposes of diagnostic test
- 11. What are the components of unit plan
- 12. List any four core teaching skills
- 13. Distinguish between Aims and Objectives
- 14. What are the stages involved in micro teaching
- 15. Prepare a time line of mughal period
- 16. What teaching aids will you use for the topic time zones

(8 X 2 = 16 marks)

Part C

Answer any **four** questions.

Each question carries 4 marks.

- 17. How multiple intelligence act as the objectives of social sciences
- 18. Explain the components of any two core teaching skills
- 19. What are the needs and significance of planning instruction
- 20. How will you evaluate non cognitive domain
- 21. What are the stages involved in constructing an achievement test
- 22. What do you meant by CCE

Answer any **one** question.

The question carries 10 marks.

- 23. Explain the aims and objectives teaching social sciences at secondary schools
- 24. Prepare a lesson plan of the topic of your choice

B.Ed. DEGREE (SEMESTER PATTERN) EXAMINATION MODEL QUESTION PAPER EDU 163 CURRICULUM & RESOURCES IN SOCIAL SCIENCES

Time: Two Hours

Maximum: 50 Marks

Part A

Answer **all** questions. Each question carries 1 mark.

- 1. What is curriculum
- 2. What is a unit
- 3. What do you meant by core subject
- 4. Write a note fusion
- 5. What are the elements of a map
- 6. Mention any two types of timelines
- 7. What is INFLIBNET
- 8. Write the URL of any one educational websites

(8 X 1 = 8 marks)

Part B

Answer all questions.

Each question carries 2 marks.

- 9. Write any two creative activities in social sciences
- 10. What do you meant by data gathering activities. illustrate
- 11. What are the advantages of EDUBUNDU
- 12. Explain the advantages of work books
- 13. Write the syntax of concept attainment model
- 14. What are the advantages of using museum in social sciences
- 15. Write any two examples for correlation in social sciences
- 16. What are different types of globes

(8 X 2 = 16 marks)

Part C

Answer any four questions.

Each question carries 4 marks.

- 17. Explain the basic principles of curriculum construction
- 18. How social science subjects are related with other subjects
- 19. What are the uses of social science library
- 20. Explain the procedure involved in Jurisprudential inquiry model
- 21. Mention the essential qualities of a social science hand book
- 22. Write any two applicative and demonstrative activities in social sciences

Answer any **one** question.

The question carries 10 marks.

- 23. Breifly describe the organization of subject matter in social science curriculum with special reference to secondary level
- 24. How will select and sequence learning activities in social sciences. Illustrate with examples

B.Ed. DEGREE (SEMESTER PATTERN) EXAMINATION MODEL QUESTION PAPER EDU. 183. PROFESSIONALIZING SOCIAL SCIENCE EDUCATION

Time: Two Hours

Maximum: 50 Marks

Part A

Answer **all** questions. Each question carries 1 mark.

- 1. What are community resources
- 2. List any two activities for social science club
- 3. What is giftedness
- 4. Who is creative learner
- 5. Write the names of any two free softwares that can be used in social sciences
- 6. What is IHMC CMap tools
- 7. Write any two professional ethics of a teacher
- 8. What are learning objects

(8 X 1 = 8 marks)

Part B

Answer **all** questions.

Each question carries 2 marks.

- 9. Prpare a list of places of cultural interest
- 10. Mention any four occasion where quiz competition can be effective
- 11. Write any four personal quality of a teacher
- 12. What are the higher order thinking skills in social sciences
- 13. What are the stages of creative thinking
- 14. What is e content
- 15. Write any two uses of teleconferencing
- 16. Why teaching is considered as a profession

(8 X 2 = 16 marks)

Part C

Answer any **four** questions.

Each question carries 4 marks.

- 17. What are the important community resources in social sciences
- 18. What are the ways and means of improving professionalism
- 19. How computer can make effective teaching in social sciences
- 20. How will you foster creativity among your child
- 21. What are the learning activities suitable for a gifted child
- 22. How will you conduct a field trip in social science

Answer any **one** question.

The question carries 10 marks.

- 23 What are community resources? How will you use community resources in social sciences
- 24 What are the personal and professional qualities of a social science teacher? How will you improve your professionalism

B.Ed. DEGREE (SEMESTER PATTERN) EXAMINATION MODEL QUESTION PAPER EDU. 122. METHODOLOGY OF TEACHING PHYSICAL SCIENCE

Time: Two Hours

Maximum: 50 Marks

Part A

Answer **all** questions.

Each question carries 1 mark.

- 1. Give any two examples for the moral function of Science?
- 2. Give any one suggestion for science education on the basis of NCF 2005?
- 3. What is the word meaning of 'heurism'?
- 4. Give any one definition for 'problem'?
- 5. List any two intelligences suggested by Howard Gardner?
- 6. List any two peculiarities of constructivist teaching?
- 7. What does the banking concept of education denote?
- 8. Give any tow resources in EDUBUNTU helpful in Science Teaching?

(8 X 1 = 8 marks)

Part B

Answer **all** questions.

Each question carries 2 marks.

- 9. Give any two differences between scientific attitude and scientific aptitude?
- 10. List two merits and two merits of lecture cum demonstration method .
- 11. What are the points to be taken care of while organizing a brain storming session?
- 12. What is social constructivism?
- 13. List the main principles of guided discovery approach?
- 14. List any two issues and corresponding topics that may be suitable for issue based learning.
- 15. List any two landmarks in the history of education in Science.
- 16. What is the essential difference between cognitive constructivism and social constructivism? (8 X 2 = 16 marks)

Part C

Answer any **four** questions.

Each question carries 4 marks.

- 17 Describe the interdependency of the Product and Process aspect of Science with examples.
- 18 Describe the Problem Solving Cycle.
- 19 List any four specialties of Dalton Plan.
- 20 Learning is a generative process. Substantiate.
- 21 List any two-science activities that you may give in a constructivist class and suggest the precautions you may adopt for its perfect execution.
- 22 Give any two situations where you can integrate theory and practical in a science class. And highlight the significance of doing the same.

Answer any **one** question.

The question carries 10 marks.

- 23. Write an essay on Questioning technique its importance, technique of asking questions and the merits it would produce in the class.
- 24. Describe collaborative learning. How is social constructivism employed in this type of learning? List any two advantages and two disadvantages with examples.

B.Ed. DEGREE (SEMESTER PATTERN) EXAMINATION MODEL QUESTION PAPER EDU. 142. PEDAGOGIC PRACTICES IN PHYSICAL SCIENCE

Time: Two Hours

Maximum: 50 Marks

Part A

Answer **all** questions.

- Each question carries 1 mark.
- 1. Write down any one strategy that can be used for developing Process skills in your students.
- 2. Define Micro Teaching
- 3. Write a life situation that you may use to teach the concept of inertia.
- 4. Mention any one experiment you may suggest to your students in order to make them understand chemical change.
- 5. Develop a follow up activity on any one topic of physics or chemistry which can ensure social constructivism among your students.
- 6. Pictorially represent the interdependence of objectives, learning experiences and evaluation.
- 7. Which are the three dimensions represented in a blue print for evaluation.
- 8. Prepare a multiple choice question from physics or chemistry to check the specification 'recognises' (8 X 1 = 8 marks)

Part B

Answer **all** questions.

Each question carries 2 marks.

- 9. Define process skills and list any for process skills in science at secondary stage.
- 10. List the components of the skill of illustrating with example.
- 11. Give the conceptual meaning of pedagogic analysis.
- 12. How will you demonstrate the concept of electroplating to your students.
- 13. Identify an analogy to use in a class on 'isotopes'.
- 14. What is mean by comprehensive evaluation?
- 15. Mention four limitations of objective type test item.
- 16. Give the criteria for evaluation of a project.

(8 X 2 = 16 marks)

Part C

Answer any **four** questions.

Each question carries 4 marks.

- 17 Describe general aims of teaching physical science.
- 18 Write a micro lesson from Physics/Chemistry on the skill of introducing a lesson.
- 19 State the curricular objectives and learning experiences on the topic 'surface tension'.
- 20 Describe the teaching learning activities that you may use while developing the concept electro magnetic induction.
- 21 Prepare the blue print of an improvised apparatus that you may use to your students for understanding the topic 'Focus'.
- 22 Explain how you would reduce subjectivity of a test.

(4X 4 = 16 marks)

Part D

Answer any **one** question.

The question carries 10 marks.

- 23. Describe the importance of the assessment of non-cognitive domain. Explain how you would produce and develop a lesson in physical science so as to develop interest and scientific attitude among your students.
- 24. Discuss in detail Bloom's taxonomy of educational objectives with specific example from Physics/Chemistry and express your views on Revised Bloom Taxonomy.

B.Ed. DEGREE (SEMESTER PATTERN) EXAMINATION MODEL QUESTION PAPER EDU. 162. CURRICULUM AND RESOURCES OF PHYSICAL SCIENCE

Time: Two Hours

Maximum: 50 Marks

Part A

Answer **all** questions. Each question carries 1 mark.

- 1. Write any two principles of science curriculum construction
- 2. Mention a topic / content from Physics or chemistry which can be taught through type study.
- 3. Expand INFLIBNET
- 4. List the technical aspects of scientific method
- 5. Define Hypothesis.
- 6. List two educational CD's that can be used for science teaching.
- 7. Mention any one improvised apparatus that can be used for teaching 'centre of gravity'
- 8. What first aid you will suggest for a student who has exposed to acid burn.

(8 X 1 = 8 marks)

Part B

Answer **all** questions.

Each question carries 2 marks.

- 9. How will you correlate physical science with geography
- 10. Differentiate between induction and deduction with a suitable example.
- 11. Why do we consider Teachers Handbook as an important source book
- 12. Explain the values of improvisation in science.
- 13. List the objectives behind 'Nature rambling'
- 14. How will you utilize the ERIC resources in your science teaching
- 15. Suggest any four reference books in Physics/Chemistry.
- 16. Write any four laboratory rules to be maintained by your students.

(8 X 2 = 16 marks)

Part C

Answer any **four** questions.

Each question carries 4 marks.

- 17 Comment on the scope and limitations of Historical approach to science curriculum organization.
- 18 How will you organize your classroom activities to give pupils training in scientific method.
- 19 Explain the concept of corroboration and falsification
- 20 Justify the importance of supplementary reading in science.
- 21 What are the major requirements of a physical science laboratory?
- 22 Multimedia can be effectively used in science Teaching illustrate with examples.

Answer any **one** question. The question carries 10 marks.

- 23. List the major characteristics of PSSC and Chem Study Project. Based on these curricular reforms suggest broad outline for a secondary school science curriculum in Indian Context.
- 24. Describe with illustrations Mill's canons of induction and explain its scope in developing a conceptual understanding of science.

B.Ed. DEGREE (SEMESTER PATTERN) EXAMINATION MODEL QUESTION PAPER EDU. 182. PROFESSIONALIZING PHYSICAL SCIENCE EDUCATION

Time: Two Hours

Maximum: 50 Marks

Part A

Answer **all** questions.

Each question carries 1 mark.

- 1. Give an instance to show the emancipatory role of Science.
- 2. Suggest a place for field trip in Science and point out its educational value.
- 3. Who is the secretary of a school science club?
- 4. List any two peculiarities of scientifically gifted children.
- 5. Who conducts the NSTS? Who can apply?
- 6. What is a course ware?
- 7. Give the expansion of MOODLE.
- 8. List any two e journals in Science?

(8 X 1 = 8 marks)

Part B

Answer all questions.

Each question carries 2 marks.

- 9. What is the essential difference between science and technology?
- 10. Give any two steps in planning a study tour and highlight their importance.
- 11. What is critical thinking?
- 12. What is expert system?
- 13. List any two things you can do with a learning management system.
- 14. How do soft skills become important for a science teacher in the laboratory?
- 15. List any four competencies listed by NCTE
- 16. for debate in science Give any one topic suitable. Also list points for and against that may come up during the debate.

(8 X 2 = 16 marks)

Part C

Answer any **four** questions.

Each question carries 4 marks.

- 17. How can a science teacher contribute to the social uplift of the society?
- **18.** Detail upon the steps for planning a filed trip.
- 19. How do you foster scientific creativity among students.?
- 20. What are essential features of MOODLE?
- **21.** Give the URL of any one website that is useful for a school science teacher. Describe urces inside it for science teaching in Schoolshow you can use the reso?
- **22.** Teaching Research and Extension go hand in hand–substantiate.

Answer any **one** question.

The question carries 10 marks.

- 23. repare a short module for e content with animation, graphics and video incorporated into it.
- 24. Teaching is a noble profession. Substantiate the statement by describing the aspects of professionalism.

B.Ed. DEGREE (SEMESTER PATTERN) EXAMINATION MODEL QUESTION PAPER EDU. 121. METHODOLOGY OF TEACHING NATURAL SCIENCE

Time: Two Hours

Maximum: 50 Marks

Part A

Answer **all** questions.

- *Each question carries 1 mark.* 1. What is the importance of hypothesis in science learning?
- 2. What is role of science in removing superstitions
- What is fore of science in removing superstitions
 Mention any two IT based school science resources
- When the any two if based school science resources
 Who is the exponent of heuristic method? Write the uniqueness of this method.
- 5. What is jig-saw learning? Suggest one topic suitable for adopting this strategy.
- 6. How you can foster kinesthetic intelligence in science class room?
- 7. Mention two values that can be developed through science teaching.
- 8. Define critical pedagogy in your own words

(8 X 1 = 8 marks)

Part B

Answer all questions.

Each question carries 2 marks.

- 9. Differentiate between inductive and deductive approaches
- 10. Mention the steps involved in scientific method.
- 11. Explain the various components of Scientific Attitude
- 12. Differentiate between attitude and interest
- 13. Identify four limitations of lecture method.
- 14. Experiments are integral part of learning science. Substantiate.
- 15. Explain the term Zone of proximal development.
- 16. Bring out the role of teacher at various stages of problem solving method.

(8 X 2 = 16 marks)

Part C

Answer any **four** questions.

Each question carries 4 marks.

- 17. List four precautions required for the conduct of a good demonstration
- 18. Describe the unique features of Dalton plan. How it could be effectively utilized in learning science?
- 19. Discuss the attributes of collaborative learning. Explain any two types of collaborative learning.
- 20. Illustrate the major issues envisaged in KCF 2007 with special reference to biology.
- 21. With a suitable example describe Guided discovery approach in teaching science
- 22. Differentiate between simulation and role play

Answer any **one** question.

The question carries 10 marks.

- 23. Define project method. Explain the various stages of project method with suitable illustration.
- 24. Discuss the underpinning theories of constructivism. What are the constraints faced by teachers in classroom to implement this strategy?

B.Ed. DEGREE (SEMESTER PATTERN) EXAMINATION MODEL QUESTION PAPER EDU. 141. PEDAGOGIC PRACTICES IN TEACHING NATURAL SCIENCE

Time: Two Hours

Maximum: 50 Marks

Part A

Answer **all** questions. Each question carries 1 mark.

- 1. Mention one example for Utilitarian value of biology
- 2. Differentiate between objectives and specifications with an example.
- 3. What is a resource unit?
- 4. List two follow up activities suitable for 'circulatory pathway in man'
- 5. What is micro in micro teaching?
- 6. What is a red data book?
- 7. Give suitable word:

 Immigration: to a population;

 EEG

 : Brain

 :

 ECG
- 8. Mention the function of a diagnostic test.

(8 X 1 = 8 marks)

Part B

Answer **all** questions.

Each question carries 2 marks.

- 9. What are the broad goals of teaching natural science?
- 10. Write the specification for the objective 'Analysis'
- 11. Describe the components of explanation skill
- 12. Mention four topics that need field
- 13. Name two science journal in malayalam
- 14. Explain the NCERT classification f Bloom's taxonomy
- 15. With suitable example explain the specifications under objective 'Application'
- 16. Mention the specifications of 'Appreciation'

(8 X 2 = 16 marks)

Part C

Answer any **four** questions.

Each question carries 4 marks.

- 17 Briefly explain the salient features of revised bloom's taxonomy
- 18 Bring out the herbartian steps in lesson planning
- 19 Describe the precautions required for writing multiple choice items with suitable examples.
- 20 Explain four process skills listed by Mc Cormack and Yager. How will you foster these process skills in science class room?
- 21 Illustrate the components of creativity in science. How will you foster creativity among students?
- 22 Write suitable introduction to the following topics: a)structure of ear , b)plant tissues

Answer any **one** question.

The question carries 10 marks.

- 23. Content Analysis is the lifeblood of all instructional planning'. Substantiate this statement in light of writing lesson plan.
- 24. Prepare a lesson plan for a period of 45 minutes on any one of the topic:
 - (a) Structure of DNA
 - (b) Respiration in Man

B.Ed. DEGREE (SEMESTER PATTERN) EXAMINATION MODEL QUESTION PAPER EDU. 161. CURRICULUM AND RESOURCES OF NATURAL SCIENCES

Time: Two Hours

Maximum: 50 Marks

Part A

Answer **all** questions. Each question carries 1 mark.

- 1. Write an example for interdisciplinary correlation.
- 2. Give two examples for school level science journals.
- 3. What you mean by falsification in scientific method?
- 4. What is ERIC?
- 5. What are the three phases of concept attainment model?
- 6. Give two examples for 3D aids?
- 7. What is a vivarium?
- 8. Expand BSCS.

Part B

Answer **all** questions.

Each question carries 2 marks.

- 9. Write any two advantages of science teacher's handbook.
- 10. Give two examples for the transfer value of scientific method.
- 11. What are the importance of specimen in teaching biology?
- 12. How INFLIBNET helpful for a science teacher?
- 13. Write any four advantages of nature rambling?
- 14. What is improvisation?
- 15. What is lab manual?
- 16. List any two advantages of pupil's workbook?

(8 X 2 = 16 marks)

(8 X 1 = 8 marks)

Part C

Answer any **four** questions.

Each question carries 4 marks.

- 17 Differentiate between concentric and spiral approaches in curriculum construction.
- 18 What are the advantages of lab work in science?
- 19 What are the steps in scientific method?
- 20 How you will motivate the students to utilise the library?
- 21 List any for advantages and disadvantages of internet as a learning resource.
- 22 What are the educational advantages of natural rambling (4X 4 = 16 marks)

Answer any **one** question.

The question carries 10 marks.

- 23. Critically evaluate the present IX standard Biology text book.
- 24. What are the differences between curriculum and syllabus? What are the principles of curriculum construction?

B.Ed. DEGREE (SEMESTER PATTERN) EXAMINATION MODEL QUESTION PAPER EDU.181. PROFESSIONALISING NATURAL SCIENCE EDUCATION

Time: Two Hours

Maximum: 50 Marks

Part A

Answer **all** questions. Each question carries 1 mark.

- 1. Write an example for the emancipator role of science.
- 2. List any two free soft waves in science.
- 3. Expand MOODLE.
- 4. Write two examples for misconceptions in science.
- 5. List any two topics for a project work in science.
- 6. Write any two advantages of CAI.
- 7. List any two soft skills required for a science teacher.
- 8. What is the meaning of professional growth.

(8 X 1 = 8 marks)

Part B

Answer **all** questions.

Each question carries 2 marks.

- 9. What are the advantages of field trips?
- 10. What is non-formal science education?
- 11. How NSTS helps the science education in India?
- 12. What are the programmes to improve the professionalism of the science teacher?
- 13. What is scientific literacy?
- 14. What are the five basic principles behind programmed learning?
- 15. How nature calendar is helpful in learning science?
- 16. List any four internet resources to help the professional growth of science teachers.

(8 X 2 = 16 marks)

Part C

Answer any **four** questions.

Each question carries 4 marks.

- 17 How you will foster creativity in your classroom?
- 18 What are the competencies required by a science teacher?
- 19 Differentiate between science and technology ?Give examples.
- 20 What is the importance of research and extension in teaching?
- 21 What are the advantages of experimental projects in learning science?
- 22 Why science is considered both as a product and process?

Answer any **one** question. The question carries 10 marks.

- 23. What are the functions of science club? What are the educational advantages of science exhibition
- 24. Define teaching as a profession. Explain the role of various agencies and their programmes in professionalizing teaching

HANDBOOK FOR TEACHER EDUCATORS

UNIVERSITY OF CALICUT

Re structuring of Curriculum-2012 Credit Based Semester and Grading System

HANDBOOK FOR TEACHER EDUCATORS (CORE PAPERS, EDU.101 to EDU.106)

Programme: Bachelor of Education (B Ed) With effect from 2012-13 Academic Year

> **BOARD OF STUDIES EDUCATION (UG)**

EDU. 101. PERSPECTIVES ON EDUCATION Contact Hours: 75 (Instruction) & 15 (Process) Marks: 50 (End Semester Examination) & 10 (CE)		
CONTENT SCOPE		REFERENCE
		REFERENCE
Module 1 (10 hours) Education preliminary considerations Defining Education – Meaning – Definitions – Functions. Nature of education as a discipline - Theory and Practice - Interdisciplinary nature - Scope of Education as a discipline Considerations in education – Philosophical - Socio- cultural - Psychological	Defining Education (4 hours) Concept of education in different perspectives - Objective perspectives, subjective perspectives Reason for a variety of interpretations of <i>Education</i> - Complex nature of human personality - Complexity of environment Different philosophies of life - Different educational theories and practice <i>Meaning</i> Narrow meaning – schooling/instruction Broad meaning - life long process/womb to tomb process Etymological origin of the term education <i>Definitions</i> Classification of definitions – Biological – Social – Environmental - Operational <i>Functions of education</i> Distinction between Meaning, Functions and Aims of Education Meaning – what education does? Aims – what education sould do? Two fold functions - Individual development (to be elaborated) Social Development (to be elaborated) Nature of education as a discipline Characteristics of education - Education is plipel I education is planned - Education is life I ong - Education is influence exerted - Education is planned - Education is life I ong - Education is planned	Chhaya .(2004). Theory and principles of education. New Delhi: APH Purkait, B.R. (2004). Principles and practices of Education. Kolkota: New Central Aggarwal, J.C. (2010) theory and principles of education (13 th Ed.). New Delhi: Vikas Or any other relevant books

	1	
	Normative/prescriptive theories -	
	a set of coherent thoughts from formal	
	philosophies - Idealism, naturalism,	
	humanism, pragmatism, Marxism,	
	existentialism etc Educational theories	
	are indispensible for analyzing educational	
	and developmental problems - Theories	
	are guidelines for practice - It allows for	
	practice – eclectic tendency	
	Policy making - Dynamic and practical	
	side of the theory	
	Interdisciplinary nature	
	Relationships with philosophy, sociology,	
	psychology, economics, history, politics,	
	etc.	
	Scope of Education as a Discipline	
	Distinction between Education, Teaching,	
	, , , , , , , , , , , , , , , , , , , ,	
	Instruction, Training, Learning, Literacy and Indoctrination	
	Aspects of Education	
	Aims of Education (why)	
	Curriculum & Text books (What)	
	Methods (How)	
	Teacher (by whom)	
	Learner	
	Discipline	
	Considerations in Education (2hrs)	
	Philosophical factors, Socio-cultural	
	factors and psychological factors –	
	influence on theory and practice of	
	education – how they influences different	
	aspects of education such as Aims,	
	Methods, Curriculum, Teacher, Discipline,	
	school organization, Evaluation etc.	Dash, B.N. (2002). Teacher
		and Education in the Emerging
		Indian Society. 2 Vols.
	Aims of Education (2 hours)	Chhaya .(2004). Theory and
	Determining the Aims of Education –	principles of education. New
	Idealistic and Realistic Way	Delhi: APH
	Individual Aims Vs Social Aims and their	Purkait, B.R. (2004).
	reconciliation - Education for vocation -	Principles and practices of
Module 2 (15 hours)	Education for knowledge - Education for	Education. Kolkota: New
Aims of education -	culture - Education for character -	Central
Individual Aims -	Education for leisure - Education for	Aggarwal, J.C. (2010) theory
Social Aims	spiritualism - Education for complete	and principles of education
Goals of Education in	living - Education for harmonious	$(13^{\text{th}} \text{ Ed.})$. New Delhi: Vikas
India –	development - Education for citizenship	Or any other relevant books
Purusharthas -	Goals of Education in India (2 hours)	or any other relevant books
Constitutional Goals –	Vedic education – features, paravidya and	
Constitutional Goals –	vene enneanon – reatures, paravinya and	

Democracy – Socialism –	aparavidya	
Secularism -	Purusharthas – dharma, artha, kama,	
Equality of Opportunity -	moksha	
Preparing for	Constitutional goals (6 hours)	
the duties and rights of	Democracy, Socialism, Secularism,	
Indian Citizen -	Equality of Opportunity	
Articles of Indian	(Preamble of the constitution)	
Constitution -	Fundamental Rights of Indian Citizens	
Pertaining to Education -	Fundamental Duties of Indian Citizens	
National	Articles of Indian Constitution Pertaining	
Integration and	to Education – salient features of Indian	
International –	constitution and major articles.	
Understanding -	National Integration (2 hour)	
Education for a	Definition, constraints, curricular and co	
	curricular activities for National	
knowledge society		
	Integration	
	International Understanding (1 hours)	
	Definition, constraints, programmes for	
	International Understanding	
	Education for Knowledge Society (2	
	hours)	
	International Commission on Education	
	(Delors Commission)	
	Four Pillars	
	Learning to know	
	Learning to do	Jagannath Mohanty (1998).
	Learning to live together	Modern Trends in Indian
	Learning to be	Education. New Delhi: Deep
	The millennium Development	and Deep publications.
	Goals(MDG)	
		Aggarwal (2007). Landmarks
		in the history of modern Indian
	Landmarks in Modern Indian	education(6 th Ed.) Delhi: Vikas
	Education	Any other relevant book
	British Education (3 hours)	National Curriculum
	Mecauley's Minutes - Woods Despatch	Framework for School
	Anglicists – Orientalists Controversy	Education (2005). NCERT
	Contributions of British Education	Government of India (1966).
	Limitations of British education	Education and national
	Primary Education as a Constitutional	development. The report of
Module 3 (20 hours)	Obligation (2 hours)	Indian education commission
Landmarks in Modern	The scenario in 1947 - Number and	1964-66
Indian Education -	enrolment of primary schools	Naik, J.P. (1998). The
Mecauley's Minutes -	Article 45 (Pre-amended)	Education Commission and
-		After. New Delhi: Publishing
Woods Despatch -	Kothari commission report (1964-66) (3	Ũ
Primary education as	hours)	Corporation.
a constitutional obligation	Education and National Development	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
- Kothari	Aims of Education - Major	http://www.delta.org.in/form/rt
Commission report -	Recommendations	<u>e.pdf</u>

Education in the	Education in the concurrent list (2 hour)	any other relevant book
concurrent list - New	Amendment in 1976 - Arguments	
Education Policy	favouring including education under	
(1986) - National	concurrent list	
Curricular	New education policy 1986 (4 hours)	
Framework-2005 - Right	Major features - PoA 1986 - Ramamurti	
to Education	Review committee 1990 - Janardhana	Brubacher John. S (1962).
Act -2009	reddy Committee 1992 - Learning without	Modern Philosophies of
	burden 1993	Education. New Delhi: Tata
	National Curriculum Frame work	McGraw Hill Publishing Co.
	(2005)(2 hours)	Pvt. Ltd.
	Major features - Vision of education in	I VI. DIG.
	NCF (2005)	Putter I Donald (1051) Four
		Butter J. Donald (1951). Four
	Right to Education Act (2009) (4 hour)	Philosophies and Their
	86 th amendment - Article 21A, Article 45,	Practice in Education and
	Article 51A - Passed by parliament on	Religion. New York: Harper
	August, 4, 2009 and came to force on 1 st	and Brothers Publishers.
	April 2010	Dewey John (1916).
		Democracy and Education,
	Philosophical perspectives on	New York: MacMillan.
	Education	
	Meaning and definition of philosophy (3	
	hours)	Dewey John (1938).
	Branches of philosophy – Metaphysics –	Experience and Education.
	Epistemology - Axiology	New York: Macmillan.
	Relationship Between Education and	
	Philosophy	Morsy, Z. (1997). Thinkers on
	Interdependence of education and	education. New Delhi: IBH
	philosophy (1 hour)	
Module 4 (30 hours)	Thinkers on Education (10 hours)	NCTE (1998). Gandhi on
Philosophical	Plato – the republic and academy	Education. New Delhi.
perspectives on	Rousseau – Emile, Negative Education	http://www.infed.org/thinkers/
education - Relationship	Dewey – Democracy and Education	et-illic.htm
between	Freire – Pedagogy of Oppresses, Culture	
Philosophy and Education	of silence, banking system, culture of	http://gyanpedia.in/Portals/0/T
Thinkers on Education –	freedom, critical pedagogy	oys%20
Plato –	Gandhi – Sarvodaya, Basic Education	from%20Trash/Resources/boo
Rousseau – Dewey –	Tagore – Universalization, santinketan	ks/dead.pdf
5		<u>KS/dead.pdf</u>
Freire – Tagore – Gandhi – Vivekananda.	Vivekanada – manmaking education, character formation	http://www.rishivallow.org/ach
		http://www.rishivalley.org/sch ool/overview.htm
Thoughts on Education -	Thoughts on education (9 hours)	
Idealism -	Idealism – Realism - Pragmatism	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
Pragmatism and Realism	Their philosophical aspects, basic	http://www.whatcomfolkschoo
- Basic	principles and influences on various	l.org/about-us/history-2
Principles and their	aspects of education in a comparative	
influences on	perspective	
various aspects of	Alternative thoughts (7 hours)	
education.	Ivan Illich – deschooling society – as a	
Alternative thoughts - A	critique to the process of	

		1
Brief note on	institutionalization – concept of learning	
Illich, Reimer, Rishi	web	
valley School, Folk	Everett Reimer – the school is dead –	
School, Kanav.	influenced by the ideas of illich - man	
	becomes the slave of technology	
	Rishi valley school - Rishi Valley School	
	is based on the philosophy of J.	
	Krishnamurti - Global outlook, Concern	
	for man and the environment, Religious	
	spirit, which includes the scientific temper.	
	Folk schools are institutions for	
	education that generally do not	
	grant academic degrees, though certain	
	courses might exist leading to that goal.	
	The concept originally came from the	
	Danish writer, poet, philosopher and	
	pastor Nikolaj Frederik Severin	
	Grundtvig (1783–1872). Popular	
	education, against conservative book	
	learning.	
	Folk schools are community schools	
	Kanav is folk school situated at vayanadu,	
	sarang in attappadi is another example.	
		l

Process	Description
1. Collect at least 10 definitions of education (Minimum 5 from east and 5 from west)	 Student teachers are directed to go through as many definitions of education. Each student should collect at least one Indian and one western definition to education and submit in a group of five.
 Conduct a Discussion to analyze the collected definitions for perspectives and scope Prepare a flow chart/diagrammatic 	2. 5 students sit in a group and identify the perspective and scope of the definitions collected by them and present it to the entire class and submit the report.
representation showing the different levels and forms of education	 Individual students should prepare flow chart showing levels and forms of education. Students may use pictures drawing text etc. for preparing
4. Identification of Aims/Goals of Education in Secondary Education Commission, Kothari Commission, NPE 1986, NCF 2005 and Delor's Report.	 flow chart. Provide as an individual home work 4. Divide the class into 5 groups of students and ask each group to identify the Goals/Aims of Education suggested by any one of the reports. (Secondary Education Commission, Kothari Commission, NPE1986, NCF 2005 and Delor's Report.). library work followed by class presentations.
5. Prepare a Collage/ Cartoon/ Poster/ Presentation on the different aspects of National Integration in India (a group	5. A group of five students can make collage/cartoon/poster on relevant themes of national integration such as 'unity in diversity', regionalism, terrorism, art forms, celebration of

work of 5 students)	national days etc.
 6. Prepare a brief content overview of Kothari commission report/NCF 2005/Right to education act 7. Review and reflect on the educational thoughts in any one book of Freire/ Dewey/ Gandhi/ Tagore/ Plato 8. Conduct a discussion on alternate thoughts of education 	 Prepare a summary of any one report having 2- 3 pages by a group of 5-6 students. It is desirable that different groups work on different reports Select one book and identify at least one core theme by each group. Present the themes for entire class and reflect on the relevance of the themes in the current scenario. Conduct a class discussion on any one alternative thoughts on education giving emphasis to the advantages and limitations of them. necessary planning must be made before hand

	Marks: 50 (End Semester Examinat MODULE I	,
	Introduction to Educational Ps	
CONTENT	SCOPE	REFERENCES
Defining psychology	 How meaning of psychology evolved Meaning and definitions of psychology Nature of psychology (1 Hour) 	 De Cecco J. P, (1977) The Psychology Of Learning And Instruction. New Delhi: Prentice Hall, Bigg and Hunt, Psychological Foundations of Education Morgan. C.T, Introduction to Psychology, Tata Mc Grow Hill
Approaches To Psychology	 Salient features of behaviouristic approach, constructivist approach, psycho-analytic approach and humanistic approach (2Hours) 	 Chaplin.J. P., & Krawiec, T. S; Systems and Theories of Psychology Mangal,S. K, Advanced Educational Psychology
Educational Psychology	 Relationship between education and psychology Educational psychology as an applied branch of psychology Meaning and definitions of educational psychology Scope of educational psychology – the learner, learning experiences, learning process, learning situations and the teacher Relevance of educational psychology in the field of education (3 Hours) 	 Chaplin.J. P., & Krawiec, T. S; Systems and Theories of Psychology Mangal,S. K, Advanced Educational Psychology De Cecco J. P, (1977) The Psychology Of Learning And Instruction. New Delhi: Prentice Hall,
Methods of Psychology	 Case study method Experimental method Survey method. Merits and Demerits (2Hours) 	 Andrews, C. G. Methods of Psychology, John Wiley, New York, 1958 Mangal,S. K. Advanced Educational Psychology

 Identify a case from your neighborhood/ locality or from any institution and conduct a case study. Conduct a peer discussion on the case study and prepare an individual report – not exceeding two pages.

	MODULE II Learners Development		
CONTENT	Learners Development SCOPE	REFERENCES	
Concept of Growth and Development Principles of Growth And Development Approaches to Study Development	 Concept of Growth and Development Difference between growth and development Principles of growth and development and their educational implications Means of studying Development- cross sectional and longitudinal study (3Hours) 	 Adolescent Development Hurlock, E.B (1955) MC Graw – Hill Co Inc, Nw York. Hurlock, Elizabeth B, Developmental Psychology - A life span approach, New Delhi, Tata Mc Graw Kolsnik, W. B. Educational Psychology ., New York, Mc Graw Hill Publishing house Co Developmental Psychology Suhail, S. and Bapat, A (1996) Bombay Himalaya Publishing House. Dutt, N.K (1984) New York : Prentice Hall Inc. Developmental Psychology, A life span Approach, Witting A F,(2001) Mc. Graw Hill New Delhi 	
Childhood and Adolescent Period	 Characteristics of childhood and adolescent period with special reference to physical cognitive emotional and social aspects of development (in detail) Developmental tasks of childhood and adolescence (Havighurst) (4Hours) 	 Adolescent Development Hurlock, E.B (1955) MC Graw – Hill Co Inc, Nw York. Advanced Educational Psychology Chauhan, S.S (2006) New Delhi : Vikas Publishing House. Advanced Educational Psychology Kakkar S.B (1992), New Delhi : Oxford & IBH Publishing Co. Hurlock, Elizabeth B, Developmental Psychology- A life span approach, New Delhi, Tata Mc Graw Berk, L. Child Development, Harper & Row, New York Kolsnik,W. B . Educational Psychology ., New York, Mc Graw Hill Publishing house Co Mangal,S. K. Advanced Educational Psychology 	
Theories of growth and development	 Theories of development and their educational implications Jean Piaget's theory of cognitive development (focus on stages only) Bruner's theory of cognitive development(focus on stages only) 	 Erickson, E. Childhood and Society. New York, Norton Kohlberg, L. Modern Stages and Moralization, New York Piaget, J, The Language and 	

Recent Issues and Problems of Adolescence	 4. Erickson's theory of psycho- social development (10Hours) Recent problems and issues of adolescence Loneliness and peer pressure Change in family structure Information overload Sexual abuse Substance abuse Impact of media (internet, mobile, cinema, TV etc) Depression and suicide Other problems may also discuss like Infatuation Disobedience Identity crisis Isolation 	 Brace and World Bruner, J.S, Towards a Theory of Instruction, London, Howard University Press Adolescent Development Hurlock, E.B (1955) MC Graw – Hill Co Inc, Nw York. Erickson, E.H. Identity and the Life Cycle Hurlock, Elizabeth B, Developmental Psychology - A Life Span Approach, New Delhi, Tata Mc Graw
physical, soc conduct a disDivide the cl issues of ado	hole class into groups and each group will prepa ial, emotional and cognitive developmental aspe cussion based on the note – Participation in disc ass into groups and each group collects news pap lescence and categorize the type of problems, into with collected items MODULE III	cts of childhood and adolescence and ussions to be evaluated per cuttings related to the problems and
	Learners Intelligence and cre	ativity
CONTENT	SCOPE	REFERENCES
Concept of intelligence	Concept of intelligence Meaning and definitions of intelligence (1 Hours)	 Berk, L. Child Development, Harper & Row, New York Pillai,N.P., Pillai,K.S & Nair, K. S, Psychological Foundations of Education
Theories of Intelligence	 Spearman's two factor theory Guilford's theory of structure of intellect model Howard Gardner - Multiple intelligences 	 Berk, L. Child Development, Harper & Row, New York Guilford, J. P, The Nature of Intalligance, New York, Ma Group

	model	• Guilford, J. P, The Nature of
	3) Howard Gardner -Multiple intelligences	Intelligence, New York, Mc Graw
	theory and its educational implications	Hill Publishing house Co.
	4) Emotional intelligence (Meaning and	• Golman. D Emotional Intelligence
	definitions, Components of emotional	New York. Bentam books
	intelligence- self awareness, self	• Gardner, H. Frames of Mind, The
	regulation, self motivation, empathy and	Theory of Multiple Intelligence,
	social skills, Emotional Quotient (EQ),	Basic Books
	Importance of emotional intelligence	• Freeman, F. S, Theory and

Concept of Creativity	 Concept of mental age and intelligence quotient (IQ) Verbal Non verbal and Performance tests (brief description) (8 Hours) Meaning and nature of creativity Components of creativity – sensitivity, fluency, flexibility, originality, elaboration etc Stages in creative thinking – preparation, incubation, illumination and verification (3 Hours) 	 Practice of Psychological Testing Mangal, S.K. Advanced Educational Psychology Chauhan, S. S. Advanced Educational Psychology
Identification of Creative Learner	 Creativity tests- verbal and non verbal Role of teacher in fostering student's creativity mention the techniques such as) Brain storming Lateral thinking Synectics 	 Gown, J. C ., Demos, G.D & Torrance, E. P Creativity, Its Educational Implications Mangal, S.K. Advanced Educational Psychology Chauhan, S. S. Advanced Educational Psychology
 procedure of Organize any storming / la Prepare sam 	children/peers and conduct a sample administr f Administering the test. y one classroom task that foster creative thinkin iteral thinking/ synetics etc – Activity is to be e ple items of verbal creativity test giving import uency, flexibility and originality (five items) MODULE IV	ng abilities of children using brain valuated. ance to the three major components of
CONTENT	Understanding Learner Div SCOPE	REFERENCES
Concept of Individual Differences	 Meaning of individual differences Areas of individual difference - interest, attitude and aptitude Difference between aptitude, attitude and interest (2 Hours) 	 Boring, E. C., Langfield, H. S &Weld, H. P (ed) Foundations of Psychology New York Mangal, S.K. Advanced Educational Psychology Chauhan, S. S. Advanced Educational Psychology
Role of Heredity And Environment	 Role of heredity and environment as determinants of individual difference (3 Hours) 	 Mangal, S.K. Advanced Educational Psychology Chauhan, S. S. Advanced Educational Psychology
Understandin g Exceptional Learners	 Concept of exceptional children Types of exceptional children Gifted Children Slow learners Educational provisions for exceptional children (4 Hours) 	 Ker, C, Exceptional Children, New Delhi, Sterling Publishers. Krick, S. A, Educating Exceptional Children Burt. C. The Backward Child. London

Group RepoPrepare Ren	 Meaning and definitions of Learning Disability- Types (Dyslexia, Dysgraphia, Dyscalculia and ADHD) Causes of learning disability Educational provisions for learner diversities (3 Hours) 	_
	Module V	
	Learners Personality And A	· ·
Content	SCOPE	REFERENCES
Concept of Personality	 Meaning and definitions of personality (1 Hour) 	 Hall, C. S. & Lindzey, Theories of Personality Ryckman, R. M Theories Of Personality Dandapani, S. & Santhanam, S, A Text Book of Advanced Educational Psychology
Approaches To Study Personality	 Psycho analytic approach- (Freud) – basic assumptions Personality dynamics(levels of consciousness) Personality structure (id, ego and super ego) Psycho-social development (oral, anal, phallic, latency and genital stages) Trait approach- Allport – meaning of personality traits, cardinal, central and secondary traits Cattell – concepts of common, unique, surface and source traits Humanistic approach Abraham Maslow's self actualization theory Basic concepts- physiological needs, safety needs, love and belongingness needs, and self actualization needs Carl Rogers self theory -Basic concepts- organisms, self, real self and ideal self- idea of congruence and incongruence (7 Hours) 	 An Introduction to theories of Personality Ewen, R.B (1980) New York : Academic Press. Child Development and Personality Musser, P.H, Conger, S and Kagar, P (1964), New York : Harper Row Hall, C. S. & Lindzey, Theories of Personality Cattel, R. B, Personality and Motivation: Structure and Measurement Allport G.W, Personality A Psychological Interpretation Ryckman, R. M, Theories of Personality Dandapani, S. & Santhanam, S, A Text Book of Advanced Educational Psychology Mangal, S.K. Advanced Educational Psychology Chauhan, S. S. Advanced Educational Psychology

Mature Personality	Characteristics of mature personality (1 Hours)	 Hall, C. S. & Lindzey, Theories of Personality Cattel, R. B, Personality and Motivation: Structure and Measurement Allport G.W, Personality A Psychological Interpretation Ryckman, R. M, Theories of Personality
Personality Testing	 Brief description about personality testing techniques (2 Hours) 	 Cattel, R. B, Personality and Motivation: Structure and Measurement Mangal, S.K. Essentials of Advanced Educational Psychology
Adjustment And Mal Adjustment	 Concept of adjustment and mal adjustment Causes of mal-adjustment with special reference to teachers and students Defence mechanisms Role of teacher in the proper adjustment of children (3Hours) 	 Adms, Henry. E, Psychology of Adjustment Mangal, S.K. Essentials of Advanced Educational Psychology
Mental Health And Mental Hygiene	 Concept of mental health and mental hygiene Importance of mental health of teachers and students Causes of mental ill health of teachers and students Mental hygiene – Concept, aims and objectives Role of teacher in the proper mental health of children (3Hours) 	 Carol.H. A. Mental Hygiene Kapler, Mental Health and Human Relations in Education Mangal, S.K. Essentials of Advanced Educational Psychology
Guidance and Counselling	 Meaning and nature of guidance and counselling. Need for guidance and counselling in the educational institution Types of guidance- educational, vocational and personal Types of counseling- directive ,non directive and eclectic Techniques of imparting guidance (3Hours) 	 Mangal, S.K. Essentials of Advanced Educational Psychology Counselling Psychology Rao S.N (1981) Tata Mc Graw Hills, New Delhi Bengale, M. D. Guidance and Councelling Rao, S.N, Counseling Psychology Chauhan, S. S. Advanced Educational Psychology
Processes		
Select any or	ne personality testing technique from the psyc inistration in your class and familiarize the pro-	•••

- Divide the whole class into groups and conduct a discussion on what the teacher can do for improved adjustments in students Participation in discussion to be evaluated
- Set up a career corner in your class room. Collect career literature from pamphlets, news paper career bulletins, prospectus of various institutions etc and display it in the career corner.

EDU. 103. TECHNOLOGY AND INFORMATICS IN EDUCATION					
Contact Hours: 75 (Instruction) & 15 (Process) Marks: 50 (End Semester Examination) & 10 (CE)					
Content Scope of Content		Reference			
MODULE. I (15 Hours) Teaching & Communication Meaning of teaching - Functions of Teaching - Difference among Teaching – instruction & training.	 Teaching: (3 Hrs) Meaning Formal definitions of teaching may be provided Teaching as a noble profession Major functions of teaching (preservative, Transmitive & progressive aspects) may be discussed Differentiate teaching, instruction and training 	Prasad Janardan, (2007). Audio Visual education. Teaching innovative technique. New Delhi: Kanishka Publishers. Educational Technology by SK Mangal			
Communication – Meaning - Types: Verbal- oral & written, Non- verbal.	 Communication: (3 Hrs) Meaning of communication Formal definitions may be given Different types of communication - Verbal & Non-verbal, Inter & Intra personal etc. Teaching as a communication process, communicative elements in teaching 				
Communication Cycle - Barriers of communication - Effective Classroom Communication.	 Elements of communication: (2 Hrs) Communication cycle & its components Barriers of communication Classroom communication, its effectiveness and influencing factors, Barriers of classroom communication 				
Supporting aids for Teaching and communication - Projected (OHP, LCD Projector), Non – projected and Activity aids	 Supporting aids for teaching: (7 Hrs) Concept of teaching aids & their scope Teaching aids & learning aids Classification of teaching aids - Projected, Non projected & Activity aids Projected (OHP, LCD, DLP & New generation technologies.) – Merits. General awareness regarding the operation of each may be discussed and demonstrated. Non Projected (Audio, Visual, Audio- 				

	visual) Merits	
Dresses	- Activity aids- Use & Merits	
Process	Explanatio	ons
1. Present a concept of your choice from this module using projected or non projected aids prepared by you (Group work)	Take any one concept and prepare suitable aid for presenting the same to your colleagues. Teacher may ask for random presentation	
2. Group wise	Here miming technique may be practiced	
presentation of a theme using non verbal communication strategies	Activities promoting non verbal eleme planned and implemented (body posture, etc.)	gestures, non verbal cues, actions
Content	Scope of Content	Reference
MODULE. II (10 Hours)	 Preface to the module: Technological basis of education Technology as an essential supportive strategy for teaching and learning process Recent trend – educational technology – ICT – educational informatics 	Aggarwal J.C (1995) Essentials of Education Technology Teaching Learning – Innovations in Education, Vikas Publishing House.
Educational Technology Meaning, Definition & Scope Approaches of Educational technology – Hardware - Software - System approach	 Educational Technology: (3 Hrs) Meaning of educational technology Formal definitions and Scope Scope of ET in recent educational scenario Advantages of ET Approaches: (3 Hrs) Hardware, Software & System approaches Concept and features of each approach Impact of each approaches in teaching learning process with suitable illustrations. Discriminate between technology in Education and technology of education. 	

Relevance of Multimedia - Concept & Scope - Multisensory approach	 Multi media: (4 Hrs) Concept of communication media New technology and media revolution Media globalisation Recent changes in media culture Meaning of Multi media Features, scope and impact in teaching and learning Multisensory approach, concept, scope and impact on teaching and learning 	Mayer Richard E(2001); Multimedia Learning, Cambridge University Press, UK.
Process	Explanatio	ons
1. Prepare a list of Examples for software	Prepare the list of examples with a brief de approach.)	
and hardware approach in educational technology 2. Prepare a list of Learning/Teaching aids in your subject which facilitates Multimedia approach	Consider a topic of your choice and list ou multimedia approach.	t as many aids that may facilitate
Content	Scope of Content	Reference
MODULE. III (15 Hours) Information Communication Technology Meaning, Concept, Characteristics, scope, advantages and limitation of ICT in Education. Educational Informatics - Concept	 Information Communication Technology: (2 Hrs) Meaning of Information & Communication Technology ICT- features & Scope ICT & Education, Impact of ICT on Teaching and Learning. Advantages & Limitations of ICT in Education. Educational Informatics: (1 Hr) Meaning of Informatics Educational Informatics an emerging concept Mechanization of teaching learning process Technology enabled teaching & learning process. 	Alexey Semenov, UNESCO, (2005): Information and Communication Technologies in Schools: A Handbook for Teachers. Information Technology in Education. Manju Genlawat, Informatics- Teaching in Action, Alan Evans & Rainer Handel Pearson Publication

Networking of	Networking of computers: (4 Hrs)	Harasim, L. (1993) Global	
computers- LAN, WAN, Internet - World Wide Web	 Concept of connecting computer together Computer networks (LAN, WAN & Internet) Internet & WWW Difference between internet & intranet 	Networks Computers and International Communication. Cambridge; NIT Press 5. Sagar Krishna, (2005). ICT Teacher training. New Delhi :	
Web sites and concept of web designing- HTML- KompoZer	 Web sites & web designing: (4 Hrs) Websites, meaning and nature Browsing & Web Browsers Webpages & home pages Downloading & Uploading Familiarizing two or three popular educational websites 	ICT Text Books of STD VIII, IX & X (Kerala Syllabus) http://www.searchenginewatch. com, (ALTA VISTA, EXCITE, HOTBOT,INFOSEEK). http://www.kerala.gov.in/	
	 Creating web pages using HTML Simple web designing- use of KompoZer Web resources &Search engines: (4) 	http://india.gov.in/ http://keralapsc.org/ UGC http://www.ugc.ac.in NCERT http://www.ncert.nic.in	
Using free web resources - Search engines- Google, yahoo etc - Public utility websites and uses	 Hrs) Resources in Web - free web resources Concept of search engine & its utility Google & yahoo Searching techniques in search engines Public information and resource sharing through websites Public utility websites such as official website of Govt, KPSC, Indian Railway, Education Department, UGC etc. 	CIET http://www.riccit.nic.in/ MHRD http://www.education.nic.in SSA http://www.ssa.nic.in NCTE http://www.ssa.nic.in NCTE http://www.nuepa.org NUEPA http://www.nuepa.org General Education Kerala http://www.education.kerala.go v.in IT @ School http://www.itschool.gov.in SIET http://www.sietkerala.org	
Process	Explanations		
1. Create a web page and upload personal profile.	Create web page using HTML Tag Type the tag in any one text editors & save Upload the HTML file using any free webh	e the file as .html	
2.Visit any public utility	Visit KPSC website & download any new notification		

 website and download a material related to any two areas 3. Download & Upload educational resources 4. Hands on experience on web browsing and use of search engines 	Login to any social networking website and ICT Text Books of STD VIII, IX & X (Kerala S guideline in this process	
Content	Scope of Content	Reference
MODULE. IV(20 Hours) Technology mediated learning Meaning of Technology mediated Learning.	Technology mediated learning. (1hr) - Learning through e-resources - Wide use of electronic devices	Khan, BoH (1977) Web-based Instruction. Englewood Cliffs: Educational Technology Publications.
E-Learning: -Meaning & Characteristics - moodle Types of E-Learning: Off- line Learning (Meaning, Importance), On-line Learning- (Synchronous and Asynchronous),	 E-Learning. (6 Hrs) Meaning of e-learning Features & impact of e-learning in classroom moodle – an e learning platform Off-line Learning (Meaning, Importance), On-line Learning- (Synchronous and Asynchronous) 	www.moodle.org Morison, R. Gary & Lowlher, L. Deborah & DeMeulle Lisa. (1995). Integrating computer technology in the classroom. New Jersey: Prentice Hall. Roblyer, M.D. (2008). Integrating educational technology into teaching. New Delhi: Pearson.
Use and Importance of Chat, E-mail, Discussion Forum, e- journals, e- reading and blogs in E – Learning.	Use and Importance of Chat, E-mail etc. (5 Hrs) - Concept & use - Familiarizing facilities available	www.moodle.org ICT Text Books of STD VIII, IX & X (Kerala Syllabus)
Computer Managed Instruction (CMI) and Computer Assisted instruction (CAI) Eg. Sun Clock <i>gor</i> / K- Star Teleconferencing- Audio, Video and Computer mediated- Skype Role of the Teacher	Computer Managed Instruction (CMI) & Computer Assisted instruction (CAI) (5 Hrs) - Concept & use - Familiarizing Sun Clock & K-Star Teleconferencing (2 Hrs) - Meaning - Types & features - Familiarizing Skype Role of the Teacher as an instructor and demonstrator	Online Teaching & Learning, Rajive Ranjan

Process	Explanations		
1. Prepare and Submit an E- assignment.	Submit one or two assignment to the e-mail of your concerned faculty or e- mail created for specific purpose.		
2. Conduct a debate on the topic " can e- media replace the teacher"			
 Create a group in a social network of your class. Create a blog of your own. 	Facebook, twitter, Google etc.		
5. Provide hands on experience to the students on practical oriented topics	ICT Text Books of STD VIII, IX & X (Kerala Syllabus) may be used as a guideline for this process		
Content	Scope of Content	Reference	
MODULE. V (15 Hours) Media skills in teaching and learning Presentation software in teaching - Impress & Power Point Basics of Graphics, Audio and video editing - Gimp/ Audacity/Kdenlive Simple animation techniques - Tupi	Media skills in teaching and learning. (4 Hrs) - Presentation software in teaching - Impress & Power Point - Creating slides in presentation software Basics of Graphics, Audio and video editing. (7 Hrs) - Basic functions of Gimp/ Audacity/Kdenlive Simple animation. (2 Hrs) - Preparation of storyboard for animation - Basic functions	Battachaarjee Shymali, (2007). Media and Mass communication. An introduction. New Delhi: Kanishka Publishers. ICT Text Books of STD VIII, IX & X (Kerala Syllabus) http://www.cec-ugc.org/	
E content authoring - Concept and scope of E content authoring - Familiarizing the facilities available - CEC, EMMRC. Role of Edusat - Gyan Darsan - ViCTERS	E content authoring (1 Hr) - Concept and scope of E content authoring - Visit the Websites of CEC, EMMRC. Role of Edusat (1 Hr) - Gyan Darsan - ViCTERS		

Process	Explanations
1. Provide hands on experience on Audio, video and graphics editing.	ICT Text Books of STD VIII, IX & X (Kerala Syllabus) may be used as a guideline for this process
2. Prepare a report on an educational programme observed through Gyan Darsan or ViCTERS.	Observe any one programme on Gyan Darsan or ViCTERS and write an observation report.

EDU. 104. EDUCATION IN THE SOCIO CULTURAL CONTEXT			
Contact Hours: 75 (Instruction) & 15 (Process) Marks: 50 (End Semester Examination) & 10 (CE)			
	CONTENTSCOPEREFERENCE		
Module 1 (15 hours)	Sociological perspectives on (3 hours)	Mathur, S.S.(2000). A	
Sociological perspectives on	education	sociological approach to	
education	Sociology – meaning and definition	Indian Education. Agra:	
Social Structure and	Contributions of Comte and George	Vinod Pustak Mandir	
Function -	Payne		
Social System and	Social Structure and functions		
Education.	Elements of society (structuralist view)	Brown, Francis. J. (1947).	
Education as a social sub	Functions of society (functionalist view)	Educational Sociology. New	
system -	Education as an element of society and as	York: Prentice Hall.	
Education and Socialization.	a function of society		
Education and Culture -	Social system and education (2 hours)	Russell, B (1932) Education	
Acculturation and	Society as a system (Parson's Ideas)	and the social order,	
Enculturation -	Components of social system	London: Unwin Books	
Education as cultural capital.	Education as a subsystem of society		
Education in a Democracy.	Relationship of education with other subsystem of the society	Any other relevant book	
	Education and socialization (2 hours)		
	process of socialsation		
	hindrances		
	functions of educational institutions		
	role of teacher		
	Education and culture (3 hours)		
	Meaning and definition of culture		
	Universal characteristics of culture		
	Cultural diffusion		
	Types of culture		
	Influence of education on culture		
	Acculturation (3 hours)		
	The process of cultural and psychological		
	change that results following meeting		
	between cultures - process in which		
	members of one cultural group adopt the		
	beliefs and behaviors of another group -		
	Education as a process of acculturation		
	Enculturation		
	Enculturation Enculturation is the		
	process whereby an		
	established culture teaches the accepted		
	norms and values of a society Role of		
	education in enculturation		
	Education as cultural capital (Pierre		
	Bourdieu) (1 hour)		
	The term cultural capital refers to non-		
	financial social assets that promote social		

	mobility beyond economic means - Relationship with economic capital and social capital - Education as cultural reproduction - Cultural reproduction is the transmission of existing cultural values and norms from generation to generation Education as a agent for cultural reproduction Education in a democracy (1 hours) Democracy as a way of life Education for a democracy and in democracy	
Module 2 (15 hours) Education and Society - Characteristics of Indian Society - Aspirations of Indian Society - Societal Agencies of Education. Education and Social Change - Social Change in India - Education and Modernization - Cultural Lag Social Control.	Education and Indian society <i>Characteristics of Indian society (</i> <i>2hours)</i> Caste system Class system Family system Religions languages pluralism Closed nature etc. <i>Aspirations of Indian Society (2hours)</i> Nationalism Social order – family and kinship, economic order, political order, religious order, legal order, Social justice Universalism Role of education relevant to Indian society Societal agencies of education (4 hours) Formal, informal and non formal agencies Family, school, state and society and their functions Active and passive agencies Education and social change (4 hours) Meaning and definition of social change Factors contributing social change Social change in India – Post independent Constraints on social change in India Processes of social change in India Processes of social change in India – Sankritization and westernization Social mobility – vertical and horizontal	Mathur, S.S.(2000). A sociological approach to Indian Education. Agra: Vinod Pustak Mandir Srinivas.M,N. (1966). Social change in modern india. Bombay: Allied Towards an enlightened and humane society (1990). Ramamurti committee report Any other relevant book

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	Role of Education in Social Change	
	Education and modernization (1 hour)	
	Characteristics modernization	
	Role of education in modernizing Indian	
	society	
	Cultural lag (1 hour)	
	Causes of cultural lag	
	Role of education in removing cultural	
	lag	
	Social control (1 hour)	
	Direct and indirect	
	Positive and negative	
	Agencies of social control	
	Education and social control	
	Education and social control	
Module 3 (15 hours)	Economics of Education (5 hours)	
Economics of Education	Education and economic development	
Education and Economic	Relationship between education and	
Development - Education as	economy	
an Investment - Share of	Education as an investment	
GDP to Education -	Education as an economic good – human	
Education in Five Year	capital theory – Gary Becker	
Plans- education and	Cost of education – public, private,	
	1 /1 /	
National Development - Social Indices of	opportunity Share of CDP to advection (2 hours)	
	Share of GDP to education (2 hours)	
Development - Role of	Budget allocation to education in last few	
Education in Kerala	budgets	
Development Experience	Percentage allocated to primary	D 1 MC (2001)
	secondary and higher educations	Pandey,VC (2001)
	Education in five year plan (8 th , 9 th , 10 th	Education and Globalisation,
	and 11 th) (2 hour)	Delhi: Kalpaz publication
	Plan allocation to education in different	
	five year plans	Pathak, R.P. (2010).
	Social indices of development (only a	Education in Modern India;
	brief description required) (3 hour)	global trends and
	Sustainability- Population – Literacy –	developments. Chennai:
	Education – Employment – Health -	Atlantic
	Food, water and sanitation - Life	
	expectancy - Per capita Income – GDP -	http://data.worldbank.org/co
	Human Development Index	<u>untry/india</u>
	Role of education in Kerala	
	Development Experience (3 hours) (3	http://www.upscguide.com/c
	hours)	ontent/summary-five-year-
	Higher HDI with lower Per capita income	<u>plans-india</u>
	Higher Literacy rate, health awareness,	
	life expectancy etc.	http://www.economywatch.c
	Issues particular to Kerala society	om/five-year-plans/1st.html
	-Marginalization – children, women,	

	4 11 1	1
	tribal	http://www.nationmaster.co
	-Environmental issues	m/graph/edu_edu_spe-
	-Over emphasis on service sector	education-spending-of-gdp
	-Unequal Distribution of GER in different	
	Districts etc.	http://prayatna.typepad.com/
		education/2004/05/expenditu
Module 4 (30 hours)	Current Issues in Education	<u>re_onhtml</u>
Current Issues in	Quality – Quantity Paradox (3 hours)	
Education	Increase in number of educational	http://hdr.undp.org/en/media
Quality – Quantity Paradox	institutions after independence	/HDR_2011_EN_Table1.pdf
Equalization of Educational	Decreasing quality of education	
Opportunities -	External Quality Assurance Mechanisms	
Universalization of	Internal quality Assurance mechanisms	
Elementary and Secondary	Equalizing Educational Opportunities	
Education - Adult and	(2 hours)	
Continuing Education -	Causes of Inequality in India	
Gender Issues in Education -	Remedies for inequality	
Inclusive Education –	Measures taken	
Meaning, - Relevance and	Universalization of Elementary and	
Practices - Population	secondary education (3 hours)	
Education – Need,	Problems before UEE	
Trends in Demography,	Comparison with other countries	
Adolescence education -	Remedies	Panikkar, K.N & Nair, M.B.
Value Education – value	SSA, RMSA and other projects	(2011) emerging trends in
crisis, - classification of	Adult and Continuing Education (4	Education in India. New
values, Strategies for value	hours)	Delhi: Pearson
education - Education for	Literacy rates	
Peace - Environmental	Literacy programmes in India	Passi,B.K. & Singh (1988).
Education – Meaning and	Continuing education programmes	Value Education. Agra:
scope, Sustainable	Inclusive Education (2 hours)	National Psychological
development,	Meaning and definition	Corporation
Environmental Problems,	Relevance of Inclusive education in	
Strategies of EE, - Child	Indian situation	Ruhela, S.P. (1968). Human
rights Education - Impacts of	Inclusive practices	Values and Education. New
Liberalization,	Population education (2 hours)	Delhi: Sterling Publishers.
Privatization and	Need and objectives	
Globalization on Education	World population growth pattern	Gore M.S. (1994). Indian
	Factors affecting population growth	Education – Structure and
	Population transition	Process. New Delhi: Rawat
	Adolescence education programme	Pub.
	Value Education (3 hours)	1 d0.
	Meaning and definition of values	Aggarwal, J.C. (2008).
	Classification of values	Educational Reforms in
	Sources of values	India. Delhi: Shipra
	Value crisis	mula. Denn. Sinpia
		Any other relevant healt
	Strategies for value education	Any other relevant book
	Education for peace (2 hours)	http://pypio.org/inclusive 1.4
	Meaning and definition	http://nvpie.org/inclusive.ht
	Need and importance	<u>ml</u>

Peace, human rights and democracy	
Curricular inputs for peace education	http://www.unesco.org/new/
Environmental education (5 hours)	en/education/themes/strengt
1 1	en/education/themes/strengt hening-education- systems/inclusive-education/ http://www.create- rpc.org/pdf_documents/PTA 15.pdf http://www.unicef.org.uk/U NICEFs-Work/Our- mission/Childrens- rights/Education/
	http://www.un.org/cybersch oolbus/peace/frame2.htm Pandey,VC (2001) Education and Globalisation, Delhi: Kalpaz publication Vats, A. (2008). Development of Education in India.Delhi: Surabh

Process		Description
1. Prepare a poster on the social issues of current Kerala society with special reference to family norms and cultural change.	1.	Prepare a poster by a group of students on any relevant issues such as marginalization, small family norms, seasonal diseases, waste management, land utilization, filling of agricultural land, consumerisms, privatization of education etc.
2. Prepare a write up/presentation on social changes in the last two decades in the locality of students and present in the class (presentation by random selection of students).	2.	All students should prepare a brief write up on changes in beliefs/ customs/transportation and communication/schooling/family norms/consumer behavior/life style etc. of their locality and present randomly in the class
 3. Prepare a Table of allocation to different levels of (Elementary/Secondary/Higher/Technical) education in last three five Year Plans. 	3.	Prepare a table on one five year plan by each group using the library resources and present 3 groups on last three five year plans
4. Conduct a debate on role of Education in Kerala Development Experience	4.	The debate can be conducted on the positive and negative aspects of Kerala development experience. Planning, execution and evaluation aspect of the debate is to be assessed.

5. Collect data and prepare graph depicting the GER in Elementary/Secondary/in India with special reference to States/Castes/Regions.	5.	Group of students can prepare a suitable graph on GER. One group should prepare graph on GER at any one level and any one category. Care should be taken that a batch of students prepare graph on all levels and on all categories.
6. Identify a topic of student choice and suggest suitable learning activities for Environmental Education	6.	Identify a topic relevant to environmental education from school subject and plan a learning activity. Each student should prepare a brief plan of the activity.
7. Prepare a lesson plan for developing essential values in children	7.	Select a topic from school subject and prepare a lesson plan for imparting essential values in children. The lesson plan is to be prepared in groups and should confine to the description of two learning activities for a duration of maximum 20 minutes.

EDU. 105. PSYCHOLOGY OF LEARNING Contact Hours: 75 (Instruction) & 15 (Process) Marks: 50 (End Semester Examination) & 10 (CE)				
	Module I			
CONTENT	SCOPE	REFERENCES		
Concept of learning	 Meaning and definitions of learning Characteristics of learning (1 Hour) 	 Mangal, S.K, Advanced Educational Psychology Chauhan, S. S. Advanced Educational Psychology De Cecco, J. P. Psychology of Learning and Instruction Bower, G. H. & Hilgard, R.R. Theories of Learning 		
Factors influencing learning	 Learner Variables Maturation Motivation Attention Attention Attitude Interest Mental ability Past experience etc Task variables Length of the learning material Meaningfulness Difficulty level organization Method variables spaced v/s massed learning whole v/s part learning recitation over learning method of loci etc (5 Hours) 	 Mangal, S.K. Advanced Educational Psychology Chauhan, S. S. Advanced Educational Psychology De Cecco, J. P. Psychology of Learning and Instruction 		
Maturation	 meaning educational significance (1 Hour) 	 Mangal, S.K. Advanced Educational Psychology Chauhan, S. S. Advanced Educational Psychology 		
Attention (2Hrs)	 Concept of attention -Types of attention(involuntary and voluntary), Factors affecting attention, span of attention (2 Hours) 	 Mangal, S.K. Advanced Educational Psychology Chauhan, S. S. Advanced Educational Psychology. 		
Motivation	 Meaning and definitions Types (intrinsic, extrinsic and achievement motivation by (Mc Clelland) 	 Maslow, A. Motivation and Personality Atkinson, J. W. & Feather, N. T. A Theory of Achievement 		

	 Ways to motivate children How to develop achievement motivation (3 Hours) 	 Motivation Mc Clelland, D. C., Atkinson, J. W., Clarck R. A. & Lowell . The Achievement Motive
Transfer of learning (4Hrs)	 Concepts and definitions of Transfer of Learning. Types of Transfer- specific, general, Positive, Negative, Zero, Vertical and Horizontal Transfer. Educational implications (3 Hours) 	 Mangal, S.K. Essentials of Advanced Educational Psychology Chauhan, S. S. Advanced Educational Psychology

Processes

- Organize brainstorming session to list out the examples for transfer of learning in the life situations or in the classroom situation
- Divide the whole class into groups and each group will develop a plan for enhancing achievement motivation in students

	Module II	
CONTENT	SCOPE	REFERENCES
Behaviorist views on learning	 More teacher centered Content oriented Learning is mechanical Learning is a passive process Learner is a receiver of knowledge etc Role of the teacher (1 Hour) 	 Bower, G. H. & Hilgard, R. R. Theories of Learning Skinner, B. F. The Behavior of Organism
Behaviorist Theory of learning	 Operant conditioning theory Concepts Elicited and emitted response S-conditioning and R- conditioning Reinforcer- Positive and negative Reinforcement Negative reinforcement and punishment Schedules of reinforcement- continuous reinforcement schedule, fixed interval schedules of reinforcement, fixed ratio schedules of reinforcement, variable reinforcement schedule Educational implications of the theory (3 Hours) 	 Bower, G. H. & Hilgard, R. R. Theories of Learning Skinner, B. F. The Behavior of Organism Snelbecker, G. E. Learning Theory , Instructional Theory & Psycho educational Design
Gagne's hierarchy of learning	 Description about different types of learning identified by Gagne educational implications of 	Gagne, R. M. The Conditions of Learning

	Gagne's hierarchy of learning	
	(2 Hours)	
Constructivist views on learning	 More learner centered More interactive Process oriented Learning is a dynamic process 	 Glaserfeld, E von. Constructivism in Education Glaserfeld, E von. An Exploration of Constructivism ,
	 Learning is an active process Learner constructs knowledge Constructivist learning design (situation, grouping, bridging, 	Why Some Like It RadicalJonassen, D. H. Evaluating Constructivist Learning
	 exhibiting and reflections) Role of the teacher (2 Hours) 	
Constructivist theories	1) Cognitive development theory –	• Glaserfeld, E von.
of learning	Jean Piaget	Constructivism in Education
	 Theoretical concepts – cognitive structure, 	Glaserfeld, E von. An Evaluation of Constructivism
	disequilibrium, Schema,	Exploration of Constructivism, Why Some Like It Radical
	reversibility, assimilation,	 Jonassen, D. H. Evaluating
	accommodation, , equilibration and	Constructivist Learning
	adaptation	• Ausubel, D. Psychology of
	 educational implications 	Meaningful Verbal Learning
	2) Discovery learning – Jerome. S.	
	Bruner	
	Concept of discovery learningConcept formation strategies in	
	learning (observation, attribute	
	analysis, comparison,	
	classification, generalization and verification)	
	Educational implications	
	3) Meaningful Verbal Learning	
	Theory by David. P. AusubelConcept of advance organisor and	
	Types of advance organizers - Subsumer and Subsumption - Scaffolding	
	• progressive differentiation and Integrative reconciliation	
	• Educational implications	
	4) Theory of Social	
	 constructivism- Vygotsky Concept of Social constructivism 	
	Concept of Social constructivismZPD (Zone of Proximal	
	Development)	
	• Scaffolding (12 Hours)	
Constructivist learning	1. Cooperative and collaborative	• Glaserfeld, E von.
Strategies	learning	Constructivism in Education

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	 Peer tutoring Concept mapping Brain Based learning Cognitive apprenticeship Engaged learning (3 Hours) (16) 	 Glaserfeld, E von. An Exploration of Constructivism , Why Some Like It Radical Jonassen, D. H. Evaluating Constructivist Learning
Humanistic views on learning	 Human being have purpose in life Learning is experienced based Learning become effective when it is need based Freedom and independence learning It emphasis self motivation for better learning Learning as a process inevitable and unique for every individual It gives emphasis on learners self direction and independence (1 Hour) 	 Mangal, S.K. Essentials of Advanced Educational Psychology Chauhan, S. S. Advanced Educational Psychology
Humanistic theory of learning	 Experiential learning – Carl Rogers Educational implications of the humanistic approach to learning (emphasis on individuality, child centered education, self control, self discipline, understanding the child, etc) (1 Hour) 	 Mangal, S.K. Essentials of Advanced Educational Psycholog Chauhan, S. S. Advanced Educational Psychology
Processes		
 Each student should co Student teachers shoul a duration of six minut execution of peer tutor tutoring in rotation – P Prepare a list of five let 	onstruct a concept map of a concept of hi d take up a concept from educational psy tes simultaneously in the prescribed proc- ring the class may divide into small group articipation in peer tutoring is to be eval- earning activities based on any one of the explored and submit group report in the	Achology and conduct peer tutoring for ess hour. For the comfortable ps. All students should undertake peer uated. learning strategy. Ensure that all
	Module III	
CONTENT	SCOPE	REFERENCES
Mental processes of learning	 Memory Concept and definitions Types (STM, LTM) Strategies to improve memory Forgetting Concept and definitions 	 Boune, L. E., Dominowski, R. L., & Loftus, E. F. Cognitive Processes Davis, G. A. Psychology of Problem Solving Mangal, S.K. Essentials of
	· · ·	· · · · · · · · · · · · · · · · · · ·

Cause	ses of forgetting		Advanced Educational
3) Thir	nking		Psychology
• Dive	ergent, convergent and		
refle	ective thinking	•	Chauhan, S. S. Advanced
4) Reas	soning		Educational Psychology
• Indu	ctive and deductive reasoning		
5) Con	cept formation		
• Step	s and strategies		
6) Prot	blem Solving		
• Step	s and strategies		
(15	Hours)		
Process			

Prepare test items (minimum five items) to assess any one of the mental processes (memory/ reasoning/ problem solving)

	MODULE IV				
CONTENT	SCOPE	REFERENCES			
Learning in groups	 Concept of group Types of groups Characteristics of social groups Sociometry- use and importance Concept of group dynamics Educational importance of group dynamics Concept of group cohesion Importance of developing group cohesion (7 Hours) 	 Mc Dougall, William. Introduction to Social Psychology Kuppuswami, B. An Introduction to Social Psychology 			
Interpersonal Relationship	 Transactional Analysis Concept and importance of TA (3 Hours) 	 Berne, E. Transactional Analysis in Psycho Therapy Thomas, Haris. I am ok , you are ok Berne, E. Games People Play 			
	Processes				

• Construct a sociogram based on the sociomatrix (group work of five to six students)

• Prepare an imaginary communication script and identify the elements of child, adult and parent ego state

MODULE V				
CONTENT	SCOPE	REFERENCES		
Learning from learner's perspectives	 Meaning and definitions of learning style Approaches to learning (deep, surface and strategic approaches) Orientations in learning Types of Orientations in learning (meaning orientation, reproducing 	 Entwistle , N. J. (1981) Styles of Learning and Teaching Entwistle , N. J. (1987) Understanding classroom learning Kumar, S.P.K (2006) How pupils learn? Theory research and 		

	 orientation, achieving orientations and non academic orientations) Reflective practices- attending to the experience, returning to the experience, reevaluating the experience Meta cognition – planning, monitoring and evaluation (10 Hours) 	practice	
Process			
• Prepare a tool on learning style / learning approach in group and administer the tool in another group of students and submit the report including the items of the tool and identified learning style preference			

	EDU. 106. EDUCATIONAL MANAGEMENT Contact Hours: 75 (Instruction) & 15 (Process) Marks: 50 (End Semester Examination) & 10 (CE)	
Content	Scope	Process
MODULE I (20 Hours) Educational management Concept – Need, Scope and functions Characteristics of	Meaning and definitions of educational management Need, Importance and Scope. Functions: Planning, Organizing, Directing, Motivating, Evaluating and Decision-making. Concept, meaning and types of institutional climate. Characteristics of democratic climate- factors influencing organizational climate like leadership style, organizational policies, managerial values, economic	Conduct a group discussion on "the impact of organizational climate on the effective performance of teachers"
democratic institutional climate Organizational process in school - HM/Principal as a leader - Duties and responsibilities of HM	conditions etc. (7 Hours) The organizational process- Academic planning, resource mobilization, co-curricular activities planning, time allocation, monitoring, evaluation, feedback etc. Leadership qualities of HM/ Principal Role of HM as a leader and a manager-Leader of Academic, administrative, discipline, human and financial management of the school. Duties and responsibilities of HM in academic, non academic and administrative aspects (5 Hours)	Prepare a questionnaire for HMs for collecting data regarding his/her difficulties in performing duties and responsibilities
Performance Appraisal - meaning and importance - performance appraisal of Teachers	Performance Appraisal: meaning and importance, (as the systematic evaluation of the performance of employees and to understand the abilities of a person for further growth and development). Criteria of performance appraisal of Teachers- Knowledge of Content Area Knowledge of Delivery Methods Understanding the Learning Process Understanding of Student Needs Curriculum Alignment Ability to use Student Achievement Data in Planning Instruction Classroom Management Professional Growth/Continuous Improvement Ability to use Technology as a Tool in the Classroom Communication with Stakeholders Inside and Outside the School Setting Establishes relationships with colleagues, students and parents. (4 Hours)	
Importance of essential records -	Importance of essential records - Admission Register, Attendance Register for Staff &	

Admission Register - Attendance Register for Staff & students - Stock Registers – Acquittance, Teaching Manual – Student Profile - Cumulative Record - Service Book	students, Stock Registers, Acquittance roll, Teaching Manual, Student Profile, Cumulative Record, Service Book. Importance and purpose of each record. Rules to be followed while maintaining each record. (4 Hours)	Prepare a hypothetical admission register of 5 students (Xerox copies of one page of Admission Register may be used)
MODULE II (10 Hours) Institutional management Institutional Planning - Meaning and Importance	Meaning and importance of Institutional planning Objectives and characteristics Steps of institutional planning Analysis of the existing conditions Planning for the improvement of existing conditions Implementation of the plan Evaluation and feed back Merits of institutional planning (3 Hours)	Divide the whole class into different groups and assign each group to List out the various co-curricular activities usually conducted in the schools of Kerala. Make them prepare an action plan of all the listed co-curricular activities within the frame of the year plan of the school
School Management Committee (SMC) – School Development Plan	SMC- Structure and Functions.(The RTE Act (2009) emphasizes the involvement of communities in school governance through SMCs to ensure school quality with equity.)School Development Plan(a process undertaken by the SMC) - its concept(1 Hour)	Prepare a poster on 'Structure and functions of SMC (group work)
Functions of staff council and student council	Organizational Structure and Functions of the Staff council and Student Council (1 Hour)	Prepare an agenda for a staff council/ students' council.
Timetable - Types and Principles of timetable construction	Concept of time table Need and importance of time table Types- class time table. Teacher's time table, Master time table, home work time table, co-curricular activities time table etc. Principles of time table construction - Principle of fatigue Principle of fatigue Principle of Variety Principle of Rest and recreation Principle of flexibility	Create a class time table or a framework for school time table
Total Quality Management (TQM)	(TQM as an integrative philosophy of management for	

– Concept and Scope.	continuously improving the quality of products and processes.) Scope of TQM- awareness for the need and opportunity for improvement, set explicit goals for improvement, provide appropriate training, create an organizational structure, identify and report progress, SWOT analysis, quality audit etc. (3 Hours)	
MODULE III (25 Hours) Managing evaluation in school Measurement and Evaluation- Meaning, functions - Formative & Summative Evaluation	Measurement and Evaluation- meaning, functions Types of evaluation- Formative and Summative evaluation- difference, importance, purpose and examples (3 Hours)	
Tools and techniques of Evaluation - Qualities of good evaluation tool.	Techniques of evaluation- observation, interview, self reporting, testing, sociometric, projective, case study- concept, merits and demerits of each techniquewhen to use Tools of evaluation- tests, checklist, rating scale, questionnaire, inventory, schedule- concept and when to use Qualities of good evaluation tool- objectivity, comprehensiveness, validity, reliability, practicability, - to be explained. (6 Hours)	
CCE -Concept and relevance - Grading system, merits and limitations - Semester system of examination – Open book examination.	CCE- Concept and relevance Grading system- direct and indirect (relative and absolute) Reforms of examination- semester system of examination- concept, relevance, merits and demerits. Open book examination- relevance, merits and demerits Online examination. Etc (3 Hours)	Undergo an open book examination in the class on relevant unit.
Basic statistics in Evaluation - Measures of central tendency & dispersion - Graphical representation of data.	Importance of statistics, utility of statistics (how it helps in data presentation and interpretation) Concept, important measures of central tendency- mean, median, mode (concept, importance, calculation for raw data and frequency distribution. Measures of dispersion- concept, relevance and calculation using raw data and frequency distribution. Graphical representation for continuous and discrete data- Histogram, Frequency curve, Ogive. Bardiagram,	Compute the measures of central tendency, measures of dispersion and draw appropriate graphical representation using hypothetical data

	Pie Diagram,Merits of graphical representation in general and for each one.(11 Hours)	
Using spread sheets in computer for data entry & basic statistics	Use of ICT in evaluation process Using spreadsheets in computer for data entry and basic statistics. (2 Hours)	Make data entry in a spreadsheet using hypothetical data and workout basic statistics.
MODULE IV (20 Hours) Managing physical and health education practices in school Introduction, Definition, aims and objectives of Physical Education.	Meaning, need and importance of physical education Meaning, need and importance of health education Difference between the two Aims and objectives of physical education. (3 Hours)	
Introduction and Definition of Health, fitness and Wellness.	Definition of Health, Definition of fitness and Definition of Wellness. Relationship among health, fitness and wellness. (2 Hours)	Practice of Yogasanas and relaxation techniques
Types of Physical Fitness - Health related physical fitness - Performance related physical fitness - Cosmetic fitness.	Concept of physical fitness Three types of physical fitness Health related physical fitness Performance related physical fitness and Cosmetic related physical fitness. (3 Hours)	Practice of warm up and warm down exercises.
Physical fitness components – Fitness Balance.	Components of physical fitness Strength, agility, endurance, speed, power etc. Fitness balance- how to balance them each. (2 Hours)	
Hypo-kinetic Diseases and its Management – Obesity – Diabetes – Dyslipedimia – Hypertension – Osteoporosis - Coronary heart disease -Back pain.	Hypo-kinetic Diseases- meaning, general causes, remedies Obesity, Diabetes, Dyslipedimia, Hypertension, Osteoporosis, Coronary heart disease, Back pain (specific causes of each, its symptoms and preventive measures). (5 Hours)	Practice Walking, jogging, stretching and resistance training
Posture and Postural deformities. Principles of first	Meaning of posture Importance of good posture Meaning of bad posture, its causes (congenial and	

aid.	acquired)
Food and nutrition.	Examples of bad posture- scoliosis, lordosis, kyphosis,
	flat foot
	Principles of first aid- concept and importance
	Definition of balanced diet
	Concept of nutrition and mal nutrition
	Deficiency diseases- concept and examples
	(5 Hours)

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UNIVERSITY OF CALICUT

Re structuring of Curriculum-2012 Credit Based Semester and Grading System

HANDBOOK FOR TEACHER EDUCATORS (COMMERCE EDUCATION)

Programme: Bachelor of Education (B Ed) With effect from 2012-13 Academic Year

BOARD OF STUDIES EDUCATION (UG)

EDU	. 118. METHODOLOGY OF TEACHING CO	MMERCE
Content	Scope	Guidelines for the process
Meaning and Nature of Commerce 1.1 Meaning and Definition of	 1.1.Meaningand any two definitions of Commerce and its analysis.(1hour) 1.2. Nature of commerce subjectas an academic discipline and vocational discipline, knowledge subject and skill 	List out the major areas of commerce and its recent developments Make a discussion in the class
Commerce. 1.2 Nature and Scope of Commerce subject. 1.3 Recent developments in commerce.	 subject, deals with the structure and functions of commerce, both for preparation to further studies and terminal to enter into the careers of middle level lines of employment, etc. Scope of Commerce as a Subject-Scope of commerce subject at secondary level, higher secondary level, college level and professional level.(2 hours) 1.3.Recent Developments in Commerce-Briefly explain the meaning of E-Commerce, E-Banking, On-lineMarketing, M-Commerce, Social commerce etc. (2 hours) 	about the major areas of commerce liketransport,communication, warehousing, banking, insurance, advertising etc. The student teachers should submit an individual report on the list of major areas of commerce and its recent development prepared by them.
Evolution of	2.1. Meaning, any three definitions with its	Make an operational
Commerce Education 2.1Commerce Education- Meaning,Definition and Importance. 2.2 Historical development of	analysis and Importance of commerce education-Discuss the role of commerce education in general education, as a part of vocational education, impact of privatization and industrialization, creation of employment opportunities, increases standard of living, economic development, develops national and international understanding etc.(3 hours) 2.2. Historical Development of Commerce Education-Discuss the chronological	definition for Commerce education. Collect any 5 definitions of Commerce education. The student teachers should collect any 5 definition of commerce education and make an indepth analysis of
CommerceEducation. 2.3 KCF(2007)	development of commerce education from ancient period to the present status. Also highlight the landmarks in commerce education.(2 hours) 2.3. KCF(2007)-Aims of education Briefly explain the aims of education in KCF(social justice, awareness on environment, scientific temper, cultural identity, vocational skills, democratic values, citizenship, nationalism, awareness of one's right, awareness of science and technology, resistance, construction of knowledge, critical approach) and discuss the relevance and significance of these aims in commerce education.(2 hours)	these definitions and formulate a definition of their own.

Approaches, Methods	3.1. Maximsand Principles of teaching-	Prepare a Project plan or
1	Meaning of maxims, various maxims of	draft a case ora script of
ofTeaching Commerce	teaching like known to unknown, simple to complex, concrete to abstract, particular to	role play on any topic in Commerce.
Commerce	general, whole to parts etc.,	on any topic in Commerce.
3.1Maxims and	Meaning and characteristics of teaching,	Individual project plan should
Principles of Teaching.	various principles of teaching like definite	be prepared by the student
Timespies of Teaching.	goals, child centeredness, individual	teachers based on any topic in
3.2 Approaches of	difference, linking with life, correlation,	commerce or commerce
Teaching Commerce-	creating conducive environment, remedial	education. It should include
Learner centered	teaching, motivation, planning etc.(4 hours)	the aspects such as
approach, Competency	3.2. Approaches of teaching commerce-	introduction, need and
based approach and	Meaning, Characteristics and Advantages of	significance, statement of the
Multi Media approach.	Learner centered approach; Competency based	problem, objectives and
	approach and Multi Media approach. (3 hours)	methodology, references etc.
3.3 Approaches of	3.3 Approaches of Teaching Accountancy-	
Teaching	Discuss the principles of teaching	Or
Accountancy-	Accountancy such as thoroughness in teaching,	
Balance sheet	organization of learning, effective	Draft a case situation related
approach, Equation	demonstration, selection of appropriate	to any topic in commerce and
approach, Spiral	approach, motivation, maintaining interest etc.	suggests a suitable solution.
Development	Meaning and steps of Balance sheet approach,	
approach.	Equation approach and Spiral Development	Or
	approach.(4 hours)	
3.4 Methods of	3.4.Methods of Teaching Commerce-Meaning	Prepare the script of role play
Teaching Commerce-	of methods of teaching, Lecture method,	for a topic in business studies
Lecture method,	Discussion-types of discussion-Group	or accountancy.
Discussion, Debate,	discussion and panel discussion, Debate,	
Project method,	Project method, Problem Solving method,	
Problem Solving	Inductive and Deductive method, Case Study	
method,	method-A discussion on meaning,	
Inductive and Deductive method,	characteristics,principles(ifany),steps/procedur es/	
Case Study method.	organization, merits, demerits and role of	
Case Study method.	teacher in each method with examples from	
3.5 Techniques of	commerce.(16 hours)	
Teaching Commerce-	3.5 Techniques of Teaching Commerce-	
Review, Role play,	meaning of techniques, Review-meaning,	
Simulation, Brainstorm	purpose and techniques of review, Role play-	
ing.	meaning, characteristics, importance,	
	advantages, limitations and steps, Simulation-	
	meaning, characteristics, advantages,	
	limitations and steps, Brainstorming-meaning,	
	importance and phases. Also discuss the	
	application of each technique in teaching of	
	commerce.(8 hours)	

Theoretical Bases of	4.1 Constructivism- Meaning, characteristics,	Debate on Constructivism
Constructivism and	theoretical background of cognitive and social	
Behaviourism	constructivism, role of teacher.	
	Make a discussion on learning as a generative	Divide the class into two
4.1 Constructivism-	process. (6 hours)	groups and organize a debate
Learning as	4.2 Behaviourism-Theoretical outlines basic	on constructivism vs
agenerative process.	ideas of S-R learning, role of teacher.	behaviourism. Teacher should
	Objective based instruction – meaning and	ensure the participation of
4.2 Behaviourism-	steps.(4 hours)	each student and student
Objective	4.3 Constructivism vs. Behaviourism-	teacher should note down the
basedInstruction.	Difference between behaviourism and	points of debate and prepare a
	constructivism may be discussed in the light of	report by themselves.
4.3 Constructivism vs.	theory as well as practical experience. (1 hour)	
Behaviourism.	4.4 Large group activity and Small group	
4.4.7	activity – meaning, features and examples.(1	
4.4 Large group	hour)	
activity and Small	4.5 Cooperative Learning Strategies-meaning,	
group activity.	elements and advantages, brief explanation of techniques such as Jigsaw, Think-pair-share,	
15 Cooperative	1 0 / 1 /	
4.5 Cooperative Learning Strategies.	Circle the sage, Numbered heads together, Round robin etc. (4 hours)	
Learning Strategies.	4.6 Competency based instruction-meaning of	
4.6 Competency based	competency, meaning, features and steps in	
instruction-meaning,	competency, meaning, reatures and steps in competency based instruction such as	
features and steps.	identification and classification of	
	competencies, plan evaluation, construct	
	performance goals, identification and	
	sequencing of sub competencies, pre test and	
	match learner with performance goals and sub	
	competencies, apply learning principles, apply	
	learning strategies, evaluating students	
	achievement and effectiveness of the system.	
	Also discuss the competencies desired by	
	commerce students.(4 hours)	
Present Practices in	5.1 Critical Pedagogy and Commerce-	Prepare a list of five social
Teaching	Conceptual overview of Critical pedagogy and	issues thatcan be addressed
ofCommerce	Banking concept of Education, The issues	incommerce class.
51 O.: 1 P 1	listed in KCF should be discussed in the	Make a discussion on the
5.1 Critical Pedagogy	context of commerce teaching.	issues listed in KCF and
and Commerce –	Problem posing education-a conceptual	prepare an individual report
Problem posing education.	overview of meaning, characteristics, role of teacher and students. (7 hours)	on 5 issues relating to any topic from commerce.Each
	5.2 Review on the latest happenings in the	student teacher should
5.2 Review on the	State Higher Secondary schooling procedure-	prepare a report with two
latest happenings in	Critically evaluate the current practices in the	columns. The first column
the State Higher	state higher secondary based on the theory and	will list the issues. The
Secondary	practical experience of the teacher educator.(1	second column will list the
schoolingprocedure.	hour)	suitable topics - one against
		each issue.
L	1	

EDU.	138. PEDAGOGIC PRACTICES IN COM	IMERCE
Content	Scope	Guidelines for the process
	Scope1.1 Aims of teaching commerce- Brieflyexplain knowledge aim, characterdevelopment aim, citizenship developmentaim, moral and spiritual aim, vocationalaim, economic efficiency aim, socialefficiency aim, processional career aim.Values of teaching commerce-explaincultural values, disciplinary values,practical values, social values.(2 hours)1.2 Objectives of teaching commerce atHigher Secondary Level-Discuss theobjectives of teaching Business Studiesand Accountancy at higher secondarylevel. The teacher educator should referthe source book of Business Studies andAccountancy for higher secondary.(1hour)1.3 Instructional Objectives-meaning,Bloom's taxonomy-classification andhierarchical arrangement of cognitivedomain, affective domain andpsychomotor domain with examples fromcommerce.Criteria of writing instructionalObjectives in the Behaviourist andConstructivist approaches may beemphasized.Specifications-meaning, specificationsunder each domain should be listed.(7hours)1.4 Revised Bloom's Taxonomy- aconceptual review of change interminology, structure and emphasis.(2hours)	
	1.5 Process Skills in commerce-The meaning and various process skills required for commerce student may be discussed.(1 hour)	
Teachings Skills 2.1 Teachings skills-Core teaching skillsand its components.	2.1 Teachings skills-meaning, Core teaching skills and its components- Introduction, Stimulus Variation, Explanation, Illustrating with examples,	Prescribed in the practical. Preparation of micro lessons and practice them by student teachers.

2.2 Micro teaching procedure.	Using Black board, Fluency in asking questions, Probing question and Reinforcement. Integration of skills and link practice.(9 hours) 2.2 Micro teaching procedure-Meaning, features, Micro teaching cycle and phases.(3 hours)	
Pedagogic Analysis of	3.1 Pedagogic analysis-Meaning,	Perform content analysis on
Commerce	importance and steps-The scope of	any one topic each
3.1 Pedagogic analysis-	Pedagogic Analysis encompassing content analysis, statement of objectives, deciding	fromBusiness studies and Accountancy.
Meaning and steps-	prerequisites, determining inputs,	Accountancy.
Content analysis.	assignments, activities and evaluation	At first the student teacher
3.2 Analysis of Business studies andAccountancy content of 11th standard textbooks of Kerala State.	procedures may be discussed. Content analysis-Meaning and process; Content analysis may be done as terms, facts, concepts, principles and processes. Concept may be discussed as given by Bruner in Concept Attainment Model. The five elements of a concept (name, exemplar, attribute, attribute value and definition) may be emphasized.(5 hours) 3.2 Analysis of Business studies and Accountancy content of 11th standard textbooks of Kerala State- Importance of selecting suitable learning experience for effective teaching may be emphasized.Selecting the appropriate evaluation procedure relevant to constructivist and behaviourist styles(15	should select a topic suitable for teaching in a class of 40 minutes duration in AccountancyandBusiness studies. Then he/she has to make the content analysis based on terms, facts and concept.
Planning of Instruction	hours)4.1Planning of instruction- meaning,	Prepare a Year plan or Unit
4.1 Planning of	importance and steps in Year planning, Unit planning and Lesson planning- Steps	plan incommerce.
instruction-Year plan,	involved in Herbartian approach and	After a group discussion the
Unitplan and Lesson plan-	Evaluation approach -Resource Unit-	student teachers have to
(Herbartianapproachand	meaning and purpose.(10 hours)	submit an individual unit plan
Evaluation approach)- Resource Unit.	4.2 Lesson planning in Behaviourist and Constructivist approaches.(10 hours)	based on any one unit either from Business Studies or
	······································	Accountancy.
4.2 Lesson planning in		Or
Behaviourist and Constructivist approaches.		After a group discussion the student teachers have to submit an individual year plan for Business studies or Accountancy.

Evaluation in Commerce	5.1 Continuous and Comprehensive	Prepare at least 10 Multiple
	evaluation-concept, components of	choice test items on any topic
5.1 Continuous and	continuous and comprehensive evaluation	either in Business studies or
Comprehensiveevaluation.	such as CE,PE and TE. Evaluation criteria	in Accountancy.
	of collection, seminar, assignment, project,	
5.2 Types of test items-	practical etc may be discussed.(2 hours)	The student teacher should
merits anddemerits.	5.2 Types of test items- Objective type-	select a suitable topic either
	types, Short answer type and Essay type -	from Business Studies or
5.3 Construction and	merits and demerits of each.	Accountancy and has to
administration of	Guidelines for preparation of each test	prepare 10 multiple choice test
Achievement tests and	item should be discussed and provide	items. The instructional
Diagnostic tests.	practical experience in preparation of test	objective relevant to each
	items.(3 hours)	question should be mentioned.
	5.3.Construction and administration of	
	Achievement tests and Diagnostic tests-	
	meaning and steps of both with examples	
	from commerce. The teacher educator	
	should provide experiences for	
	construction of achievement tests based on	
	objectives and mental process.(5 hours)	

EDU.158. CURRICULUM AND RESOURCES OF COMMERCE		
Content	Scope	Guidelines for the process
Commerce	1.1 Commerce Curriculum- Meaning,	
Curriculum	Definition and its analysis and Bases of	0
110	curriculum developmentsuch as	within a unit inrelation to
1.1 Commerce	philosophical, sociological and	curriculumorganization.
Curriculum- Meaning,	psychological.(4 hours)	2. Which 3 principleswill be
Definition and Bases of	1.2Principles of curriculum construction- The	given priority,if you were
curriculum	various principles underlying the	asked toconstruct a
development.	construction of curriculum should be	curriculumfor higher
1.2 Principles of	discussed in detail .(3 hours) 1.3 Modern Trends in Curriculum	secondaryclasses? Justify
curriculum	construction- A brief explanation of modern	your view point with yourlife
construction.	trends in curriculum such as emphasis on	experience.
construction.	conceptual learning, integrated approach,	experience.
1.3 Modern Trends in	decentralized curriculum, pupil centered	The student teacher should
Curriculum	curriculum, use of self learning materials, use	select a unit either from
Development.	of low cost materials, social issues oriented,	Business Studies or
Development.	competency based etc. may be done(2	Accountancy and make a
	hours)	critical evaluation of the
1.4 Types of	1.4 Types of curriculum-subject centered,	organization of unit based on
curriculum.	activity centered, child centered, experience	the approaches of curriculum
	centered, undifferentiated/ integrated,	construction.(group activity)
15 Ammagahag af	differentiated, hidden and competency	
1.5 Approaches of curriculum	based.(3 hours)	The student teacher should
cumculum	1.5 Approaches of curriculumorganization-	select any three principles of

organization. 1.6 Curriculum evaluation.	The approaches of curriculum construction such as concentric, spiral, psychological, logical, topic and unit approaches may be discussed with respect to meaning, merits and demerits of each.(5 hours) 1.6.Curriculum evaluation-The meaning and purpose of curriculum evaluation must be discussed. An overview of levels of evaluation encompassing summative and formative evaluation, evaluation done by students, teachers, parents, professional bodies etc may be discussed. The various techniques employed for curriculum evaluation such as Questionnaire, checklist, observation, interview, group discussions, workshops and Delphi techniques may be discussed.(3 hours)	curriculum construction according to their preference in curriculum construction and their justification for selecting these three principles should be stated.(individual activity)
Commerce as a core subject 2.1 Interdisciplinary approach. 2.2 Commerce and its branches. 2.3 Relation of commerce with other subjects	 2.1 Interdisciplinary approach – The meaning and importance of interdisciplinary approach in commerce teaching must be discussed.(2 hours) 2.2 Commerce and its branches- A discussion on relationship of commerce subject with its branches like insurance, banking, marketing, income tax, management etc has to be organized.(3 hours) 2.3 Relation of commerce with otherSubjects- A discussion on relationship of commerce subject slike economics, geography, politics.mathematics, statistics, information technology etc has to be discussed. (5 hours) 	Correlate Commercewith subjects likeMathematics, Economics andGeography Organize group discussion in class based on the relationship of commerce subject with Mathematics, Economics and Geography and prepare an individual report on it.
Teaching Learning Materials in Commerce3.1 Commerce3.1 CommerceTextbook-qualities and functions, Criteria for selection-Textbook review.3.2 Supplementary materials inCommerce- Need and Importance.	 3.1 Commerce Textbook- A brief explanation meaning, qualities andfunctions of text book, Criteria for selection of text book may be done-Textbookreview- an overview of meaning and how to conduct book review with examples in commerce has to be done.(6 hours) 3.2 Supplementary materials in Commerce-The need and importance, types of supplementary materials in commerce and hints for using supplementary materials may be discussed.(2 hour) 3.3 Audio-Visual aids–A brief explanation of meaning, importance, classification of audio- 	Prepare a collage based on a particulartopic in commerce. The student teacher should collect pictures and paper cuttings based on a particular topic in commerce and prepare a collage under the supervision of teacher educator. (group activity)

		1
3.3 Audio-Visual aids	visual aids-Projected aids, Non Projected aids	
-Projected aids, Non	and Activity aids. The importance of various	
Projected aids and	aids in teaching of commerce must be	
Activity aids.	discussed.(7 hours)	
Resource room in	4.1 Commerce Room-Explain briefly the	Prepare a list of 10 books
Commerce	importance of commerce room and the	with
	equipments needed for the effective	bibliography or Make a list
4.1 Commerce Room-	organization of commerce room may be	of 5 commerce journals that
Importance and its	discussed.(3 hours)	can be used in
organization.	4.2 Commerce Library- Discuss the types of	HigherSecondary Schools.
	library such as general school library and	
4.2 Commerce Library.	commerce department library, importance of	The student teachers should
	commerce library, types of materials needed	explore the websites like ERIC,
4.3 Workbooks,	for an effective library.	INFLIBNET etc. and prepare a
handbooks and	Also explain measures to be adopted for the	list of 10 books with
reference	effective functioning of library.(4 hours)	bibliography or prepare a list of
Materials.	4.3 Workbooks and handbooks- Explain the	5 commerce journals.
	meaning and importance workbooks and	
4.4 Use of Internet –	handbooks in commerce teaching.	
Use of Websites like	Reference books-A discussion on meaning,	
ERIC, INFLIBNET,	importance and forms of reference book may	
etc	be done.(3 hours)	
	4.4 Use of Internet – Use of Websites	
	likeERIC, INFLIBNET, etc. An overview of	
	meaning and uses of websites such as ERIC,	
	INFLIBNET, etc. The teacher educator	
	should provide practical experience to the	
	student teacher to explore the websites like	
	ERIC, INFLIBNET etc. (5 hours)	
Models of Teaching in	5.1 Models of Teaching- A brief explanation	Prepare a lesson plan on
Commerce	of meaning, features, families and how to	AdvanceOrganizer Model on
	describe a model has to be provided.(4 hours)	any one topic in commerce.
5.1 Models of	5.2 Advance Organizer Model-theoretical	_
Teaching- Meaning-	background and practical experience to be	The student teacher should
Families.	provided for developing lessons using the	select a suitable topic either
	model.(5 hours)	from Business Studies or
5.2 Advance Organizer	5.3 Jurisprudential Inquiry Model- theoretical	Accountancy and prepare a
Model.	background and practical experience to be	lesson plan by using the phases
	provided for developing lessons using the	of Advance organizer model.
5.3 Jurisprudential	model.(6 hours)	
Inquiry Model		

EDU.178. PROFESSIONALIZING COMMERCE EDUCATION			
Content	Scope	Guidelines for the process	
Commerce and	1.1 Commerce education and BusinessEthics-	Make an observation of a	
Society	Discuss the meaning and analysis of	local	
	definition of ethics, the impact of commerce	Industrial/commercial unit	
1.1 Commerce	on society, relationship between business and	near to your residence and	

education and	society.	prepare a report on it.
Business Ethics.	Explain the meaning, definition and	prepare a report on n.
Dusiness Lunes.	characteristics of Business ethics and factors	The student teacher should
	of business ethics such as code of conduct.	select an industrial unit or
1.2 Field trips-	moral and social values, protection of social	commercial establishment near
importance and its	groups, provides basic framework, needs	
organization.	• • • •	to their locality and make a
organization.	willingacceptance for enforcement, education	brief report about the
1.3.Community	and guidance required for introduction, not	organization.
resources in commerce.	against profit making, act	
resources in commerce.	as 'summumbonum' of human life etc.Also	
	discuss the ethical standards.	
1.4 Methods of	Make a discussion on therole and need of	
utilizing	ethics in business.	
community	Explain the business values such as	
resources.	Accuracy, orderliness, punctuality and	
	timeliness, maximum utilization of	
	resources, quality of products and	
	services, regularity, reliability,	
1.5 Market studies and	responsiveness, speed of operations,	
surveys.	honesty in dealings, fair dealings,	
	systematic, socially responsible, etc.	
	Discuss the role of commerce education in	
	developing business ethics and values among	
	the students .(9 hours)	
	1.2.Field trips-A discussion on importance of	
	field trip in commerce, steps in organization	
	of field trip, preparation of guide sheet for	
	field trip and places of commercial	
	importance has to be done.	
	The factors to be considered to organize visits	
	to banks, industry, insurance office, sock	
	exchange etc to be discussed .(3 hours)	
	1.3 Community resources in commerce-	
	meaning and importance of community	
	resources in teaching of commerce.(1 hour)	
	1.4 Methods of utilizing	
	communityresources-The ways of utilizing	
	community resources i.e. taking school to	
	community and bringing community to	
	school has to be discussed.(2 hours)	
	1.5 Market studies and surveys-meaning and	
	importance market studies and surveys in	
	teaching of commerce, examples in	
	commerce.(1 hour)	
Co curricular	2.1 Co curricular activities- An overview of	1 0
activities in	meaning, objectives, principles such as	commerce.
Commerce	cooperation, level of students, sufficient time,	· · · · · · ·
	balance, linking with life, experience, etc.,	A wall magazine should be
2.1 Co curricular	advantages and types of co curricular	prepared and published by the

activities- Meaning and	activities such as indoor activities and	student teachers as an effort of
importance.	outdoor activities should be made.(4 hours) 2.2 Commerce club- A discussion	group activity. The teacher educator should ensure the
2.2 Commerce club.	onimportance, functions and activities to be	contribution of each student
2.2 Commerce club.	conducted by a commerce club has to be	teacher.
2.3 Commerce	done.	teacher.
magazine.	The aspects of organization of commerce	
magazine.	club such as name of institution, objectives,	
2.4 Running of school	scope, membership, office bearers, meeting	
bank and cooperative	time and place, activities etc. to be discussed.	
store.	Also provide practical experience in	
51010.	organizing commerce club may be	
	provided.(4 hours)	
	2.3 Commerce magazine-The importance of	
	commerce magazine may be discussed and	
	practical experience may be provided to	
	encourage the creativity of the students.(1	
	hour)	
	2.4 Running of school bank and cooperative	
	store-Discuss the importance of running of	
	school bank and cooperative store for the	
	development of the students .(1 hours)	
Nurturing talented	3.1. Fostering creativity among students- A	Make a plan of
children in	discussion on meaning, factors which fosters	anenrichment
Commerce	creativity among the students such as	prorammme for gifted
	Freedom to respond, Opportunity for ego	children.
	Freedom to respond, Opportunity for ego involvement, Encourage originality and	children.
	involvement, Encourage originality and flexibility, Removal of fear, Using the	children.
	involvement, Encourage originality and	children. The student teacher should
	involvement, Encourage originality and flexibility, Removal of fear, Using the creative resources of the community, Proper organization of the curriculum, Reform in	The student teacher should select a suitable topic either
	involvement, Encourage originality and flexibility, Removal of fear, Using the creative resources of the community, Proper organization of the curriculum, Reform in evaluation system, Use of special techniques,	The student teacher should select a suitable topic either from Business Studies or
	involvement, Encourage originality and flexibility, Removal of fear, Using the creative resources of the community, Proper organization of the curriculum, Reform in evaluation system, Use of special techniques, Brain storming, Synetics etc.(4 hours)	The student teacher should select a suitable topic either from Business Studies or Accountancy and prepare an
	involvement, Encourage originality and flexibility, Removal of fear, Using the creative resources of the community, Proper organization of the curriculum, Reform in evaluation system, Use of special techniques, Brain storming, Synetics etc.(4 hours) 3.2. Gifted Children – An overview of	The student teacher should select a suitable topic either from Business Studies or
	involvement, Encourage originality and flexibility, Removal of fear, Using the creative resources of the community, Proper organization of the curriculum, Reform in evaluation system, Use of special techniques, Brain storming, Synetics etc.(4 hours) 3.2. Gifted Children – An overview of meaning, characteristics and identification of	The student teacher should select a suitable topic either from Business Studies or Accountancy and prepare an
	involvement, Encourage originality and flexibility, Removal of fear, Using the creative resources of the community, Proper organization of the curriculum, Reform in evaluation system, Use of special techniques, Brain storming, Synetics etc.(4 hours) 3.2. Gifted Children – An overview of meaning, characteristics and identification of gifted children.(3 hours)	The student teacher should select a suitable topic either from Business Studies or Accountancy and prepare an
	involvement, Encourage originality and flexibility, Removal of fear, Using the creative resources of the community, Proper organization of the curriculum, Reform in evaluation system, Use of special techniques, Brain storming, Synetics etc.(4 hours) 3.2. Gifted Children – An overview of meaning, characteristics and identification of gifted children.(3 hours) 3.3 Treatment of Gifted children-Special	The student teacher should select a suitable topic either from Business Studies or Accountancy and prepare an
	involvement, Encourage originality and flexibility, Removal of fear, Using the creative resources of the community, Proper organization of the curriculum, Reform in evaluation system, Use of special techniques, Brain storming, Synetics etc.(4 hours) 3.2. Gifted Children – An overview of meaning, characteristics and identification of gifted children.(3 hours) 3.3 Treatment of Gifted children-Special programmes for gifted children should be	The student teacher should select a suitable topic either from Business Studies or Accountancy and prepare an
	involvement, Encourage originality and flexibility, Removal of fear, Using the creative resources of the community, Proper organization of the curriculum, Reform in evaluation system, Use of special techniques, Brain storming, Synetics etc.(4 hours) 3.2. Gifted Children – An overview of meaning, characteristics and identification of gifted children.(3 hours) 3.3 Treatment of Gifted children-Special programmes for gifted children should be discussed. Also explain the meaning of	The student teacher should select a suitable topic either from Business Studies or Accountancy and prepare an
	involvement, Encourage originality and flexibility, Removal of fear, Using the creative resources of the community, Proper organization of the curriculum, Reform in evaluation system, Use of special techniques, Brain storming, Synetics etc.(4 hours) 3.2. Gifted Children – An overview of meaning, characteristics and identification of gifted children.(3 hours) 3.3 Treatment of Gifted children-Special programmes for gifted children should be discussed. Also explain the meaning of enriched curriculum. Practical experience for	The student teacher should select a suitable topic either from Business Studies or Accountancy and prepare an
	involvement, Encourage originality and flexibility, Removal of fear, Using the creative resources of the community, Proper organization of the curriculum, Reform in evaluation system, Use of special techniques, Brain storming, Synetics etc.(4 hours) 3.2. Gifted Children – An overview of meaning, characteristics and identification of gifted children.(3 hours) 3.3 Treatment of Gifted children-Special programmes for gifted children should be discussed. Also explain the meaning of enriched curriculum. Practical experience for designing enriched materials should be	The student teacher should select a suitable topic either from Business Studies or Accountancy and prepare an
	involvement, Encourage originality and flexibility, Removal of fear, Using the creative resources of the community, Proper organization of the curriculum, Reform in evaluation system, Use of special techniques, Brain storming, Synetics etc.(4 hours) 3.2. Gifted Children – An overview of meaning, characteristics and identification of gifted children.(3 hours) 3.3 Treatment of Gifted children-Special programmes for gifted children should be discussed. Also explain the meaning of enriched curriculum. Practical experience for designing enriched materials should be given.(7 hours)	The student teacher should select a suitable topic either from Business Studies or Accountancy and prepare an enrichment material.
IT related professional inputs	 involvement, Encourage originality and flexibility, Removal of fear, Using the creative resources of the community, Proper organization of the curriculum, Reform in evaluation system, Use of special techniques, Brain storming, Synetics etc.(4 hours) 3.2. Gifted Children – An overview of meaning, characteristics and identification of gifted children.(3 hours) 3.3 Treatment of Gifted children-Special programmes for gifted children should be discussed. Also explain the meaning of enriched curriculum. Practical experience for designing enriched materials should be given.(7 hours) 4.1 Computer Aided Teaching-meaning and 	The student teacher should select a suitable topic either from Business Studies or Accountancy and prepare an enrichment material.
professional inputs	 involvement, Encourage originality and flexibility, Removal of fear, Using the creative resources of the community, Proper organization of the curriculum, Reform in evaluation system, Use of special techniques, Brain storming, Synetics etc.(4 hours) 3.2. Gifted Children – An overview of meaning, characteristics and identification of gifted children.(3 hours) 3.3 Treatment of Gifted children-Special programmes for gifted children should be discussed. Also explain the meaning of enriched curriculum. Practical experience for designing enriched materials should be given.(7 hours) 4.1 Computer Aided Teaching-meaning and role of computers in teaching commerce i.e. 	The student teacher should select a suitable topic either from Business Studies or Accountancy and prepare an enrichment material. Develop a module on any topic incommerce for e-
	 involvement, Encourage originality and flexibility, Removal of fear, Using the creative resources of the community, Proper organization of the curriculum, Reform in evaluation system, Use of special techniques, Brain storming, Synetics etc.(4 hours) 3.2. Gifted Children – An overview of meaning, characteristics and identification of gifted children.(3 hours) 3.3 Treatment of Gifted children-Special programmes for gifted children should be discussed. Also explain the meaning of enriched curriculum. Practical experience for designing enriched materials should be given.(7 hours) 4.1 Computer Aided Teaching-meaning and role of computers in teaching commerce i.e. the use of computer curriculum construction, 	The student teacher should select a suitable topic either from Business Studies or Accountancy and prepare an enrichment material.
professional inputs ofteaching	 involvement, Encourage originality and flexibility, Removal of fear, Using the creative resources of the community, Proper organization of the curriculum, Reform in evaluation system, Use of special techniques, Brain storming, Synetics etc.(4 hours) 3.2. Gifted Children – An overview of meaning, characteristics and identification of gifted children.(3 hours) 3.3 Treatment of Gifted children-Special programmes for gifted children should be discussed. Also explain the meaning of enriched curriculum. Practical experience for designing enriched materials should be given.(7 hours) 4.1 Computer Aided Teaching-meaning and role of computers in teaching commerce i.e. the use of computer curriculum construction, for providing variety of experiences, to adopt 	The student teacher should select a suitable topic either from Business Studies or Accountancy and prepare an enrichment material. Develop a module on any topic incommerce for e- content.
professional inputsofteaching4.1 Computer Aided	 involvement, Encourage originality and flexibility, Removal of fear, Using the creative resources of the community, Proper organization of the curriculum, Reform in evaluation system, Use of special techniques, Brain storming, Synetics etc.(4 hours) 3.2. Gifted Children – An overview of meaning, characteristics and identification of gifted children.(3 hours) 3.3 Treatment of Gifted children-Special programmes for gifted children should be discussed. Also explain the meaning of enriched curriculum. Practical experience for designing enriched materials should be given.(7 hours) 4.1 Computer Aided Teaching-meaning and role of computers in teaching commerce i.e. the use of computer system to feasible experiences, to adopt multimedia approach, evaluation, helping 	The student teacher should select a suitable topic either from Business Studies or Accountancy and prepare an enrichment material. Develop a module on any topic incommerce for e- content. The student teacher should
professional inputs ofteaching	 involvement, Encourage originality and flexibility, Removal of fear, Using the creative resources of the community, Proper organization of the curriculum, Reform in evaluation system, Use of special techniques, Brain storming, Synetics etc.(4 hours) 3.2. Gifted Children – An overview of meaning, characteristics and identification of gifted children.(3 hours) 3.3 Treatment of Gifted children-Special programmes for gifted children should be discussed. Also explain the meaning of enriched curriculum. Practical experience for designing enriched materials should be given.(7 hours) 4.1 Computer Aided Teaching-meaning and role of computers in teaching commerce i.e. the use of computer system teaching commerce i.e. the use of computer curriculum construction, for providing variety of experiences, to adopt multimedia approach, evaluation, helping learner to construct their knowledge, to 	The student teacher should select a suitable topic either from Business Studies or Accountancy and prepare an enrichment material. Develop a module on any topic incommerce for e- content. The student teacher should select a topic from business
<pre>professional inputs ofteaching 4.1 Computer Aided</pre>	 involvement, Encourage originality and flexibility, Removal of fear, Using the creative resources of the community, Proper organization of the curriculum, Reform in evaluation system, Use of special techniques, Brain storming, Synetics etc.(4 hours) 3.2. Gifted Children – An overview of meaning, characteristics and identification of gifted children.(3 hours) 3.3 Treatment of Gifted children-Special programmes for gifted children should be discussed. Also explain the meaning of enriched curriculum. Practical experience for designing enriched materials should be given.(7 hours) 4.1 Computer Aided Teaching-meaning and role of computers in teaching commerce i.e. the use of computer system to feasible experiences, to adopt multimedia approach, evaluation, helping 	The student teacher should select a suitable topic either from Business Studies or Accountancy and prepare an enrichment material. Develop a module on any topic incommerce for e- content. The student teacher should

F	1	<u>.</u>
resources in commerce like CD's, DVD's, Multimedia Packages, learning objects etc. 4.3 Module preparation for e-content development.	 4.2 Exploration of IT resources incommerce like CD's, DVD's, MultimediaPackages, learning objects etcmeaning of multimedia packages and learning objects, e-learning-meaning and features-role in commerce teaching. The teacher educator should help the student teachers to explore available multimedia packages with the help of internet and other resources. Also provide practical experience in developing learning materials with the help of computers. (5 hours) 4.3 Module preparation for e-content development- Explain the meaning of e-content, features of e-content such as multi sensory learning, digital convergence, principle of chunking, accessibility, reusability etc., forms of e-content such as short learning objects and module, steps in the preparation, composition, writing of script, correct the script, collect all visuals and pictures needed, prepare story board, prepare for narration, video shooting, editing the video.(13 hours) 	activity)
Professional	5.1 Commerce teacher – A discussion on	Discussion on the
Commerce Teacher 5.1 Commerce teacher –Qualities - Competencies (NCTE). 5.2 Teaching as a profession –Traits of Professionalism 5.3 Professional Ethics 5.4 Professional growth-ways and means	qualities, qualifications of commerce teacher should be organized. Explanation of Competencies listed by NCTE such as contextual competencies, content competencies, conceptual competencies, transactional competencies, competencies related with other educational activities, competencies to develop teaching-learning materials, evaluation competencies, management competencies, competencies related with working with parents and competencies related to working with community. (6 hours) 5.2 Teaching as a profession – Explanation of meaning and characteristics of profession, Traits of Professionalism. A discussion on Teaching as a professional Ethics-meaning(1 hour) 5.4 Professional growth-ways and means, in- service and pre-service programmes and its importance. Explain how various in-service and pre-service programmes help in the professional growth of teachers. (5 hours)	topic:-"Does the profession of teaching command the same respect asother profession". Divide the class into various groups and the student teachers discuss the topic "Does the profession of teaching command the same respect as other profession." One member from each group presents their findings and they should submit an individual report.

References

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- 2. Anderson,W,L and Krathwohl,D,R, A Taxonomy for Learning, Teaching, and Assessing: ARevision of Bloom's Taxonomy of Educational Objectives. Allyn& Bacon: Boston.
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- 21. Singh, Y,K, Teaching of Commerce. APH PublishingCorporation:New Delhi.
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- 23. Vekateswarlu, K.et.al. Method of Teaching Commerce. Discovery House: New Delhi.

UNIVERSITY OF CALICUT

Re structuring of Curriculum-2012 Credit Based Semester and Grading System

HANDBOOK FOR TEACHER EDUCATORS (PHYSICAL SCIENCE)

Programme: Bachelor of Education (B Ed) With effect from 2012-13 Academic Year

BOARD OF STUDIES EDUCATION (UG)

EDU 122 METHODOLOGY OF TEACHING PHYSICAL SCIENCE Contact Hours: 75 Hours (Instruction) &15 hours (process) Marks : 50 (End semester Examination)& 10 (CE) Content Scope Reference					
Content	Scope	Keterence			
	Module 1 <u>Nature and Scope of Science</u> 2+3+5=10 hours				
 1.1 Science, its meaning, nature of science, Science as a product and process, Interdependency of product and process. 1.2 Importance of science as a school subject. Practical, disci plinary, vocational, social, moral and recreational functions of science. 1.3 Scientific Attitude and Scientific Aptitude 	 1.1 Definitions of Science. The three fold nature of Science – body of knowledge, Method of enquiry and attitude towards life. The product and process aspect of Science. How both aspects contribute mutually for the development of Science. 1.2 A general discussion on the importance of teaching science in School. Need, worth and value of teaching Science in the Practical, disciplinary, vocational, social, moral and recreational dimensions. 1.3 Definition and characteristics of Scientific Attitude & aptitude - The difference between them. 	 1.1 Mohan, R (1995). Innovative science teaching for physical science. New Delhi: Prentice Hall. 1.2 Sharma, R. C. (1985) Modern science teaching. New Delhi: Dhanpat Rai &, Sons. 1.3 Any appropriate textbook 			
	Module 2 History of Science	ce Education3+7=10 hours			
2.1 Landmarks in the history of Education with respect to Science.2.2 Science Education as envisaged in NCF 2005 and KCF 2007	 2.1 Efforts on science education with special reference to India. Scientific Policy Resolution of 1958, efforts like establishing the University Grants Commission and the All India Council for Technical Education, Institute of Science, Navodaya Vidyalayas etc 2.2 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 – 5.2.2Major criticisms leveled against the prevailing science education, 5.2.5.1Knowledge Domain, 5.2.5.2Science Process Domain, 5.2.5.3Creativity Domain, 5.2.5.4Attitudinal Domain, 5.2.13The Nature of Science and Science Education, 	2.1 http://www.iisc.ernet.in/insa/ch4.pdf 2.2 http://www.ncert.nic.in/rightside/ links/pdf/framework/english/nf2005.pdf http://www.ssamis.com/ web/downloads/KCF%202007.pdf			

M	5.2.17The areas of science education that need to be evaluated.	Teaching Science3+12+5=20 hours
		reaching Sciences 1213 20 nours
3.1 Inductive Approach and Deductive Approach of Teaching 3.2 Methods of Instruction – Lecture cum demonstration method, Project method, Problem solving method – Definition of a problem, Well-structured and ill structured Problems, The Problem- solving Cycle. Individualized laboratory method, supervised study, Dalton plan 3.3 Questioning Technique, Brain storming, Buzz session	 deductive approach (Verifying the theories) – meaning, comparison, examples, merits and demerits 3.2 Methods of Instruction – Each method should be explained with regard to its meaning, general principles/characteristics if any, procedure, role of teacher, merits & demerits. A general Definition for methods of teaching may also be discussed. Problem solving method - 	 3.1 Any appropriate text book 3.2Methods of Instruction - Any appropriate text book. Problem Solving Cycle & types of Problems- Sternberg, R.J., (2006)<i>Cognitive Psychology</i>, Thomson Wadsworth http://eprints.utm.my/ 6084/1/aziziyahcognitivepsy.pdf 3.3 Any appropriate text book/ Internet resources.

N	Iodule 4 Learning as a generativ	<u>e process</u> 5+10=15 hours
 4.1 Theory of Cognitive Constructivism, Social Constructivism and Multiple Intelligences. 4.2 Learning as a generative process - Children's science, learner as a scientist, guided discovery approach, Behaviourist approach Vs Constructivist approach, 	4.1 Genetic Epistemology by Jean Piagget, Discovery learning by Jerome S. Bruner, Social Developmental Theory by L. Vygotsky and Multiple Intelligence by Howard Gardner may be discussed as the essential underpinnings of constructivism. 4.2 UNESCO sourcebook (Harlen & Elstgeest) -The idea of how children learn is given under the heading "Reflecting on Learning in Science" in Chapter 1 of the book. The schematic diagram under the heading "The role of process skills in Learning" may also be discussed. The teacher educator may also refer chapter 6 – "Development of children's science concepts" of the UNESCO Sourcebook. Differences between behaviourism and constructivism may be discussed in the class in the light of theory as well as practical experience of the teacher educator.	 4.1 Appropriate Text books in Cognitive Psychology. Ahmad J., (2009) Teaching of Biological Sciences. New delhi: PHI Pvt Ltd. 4.2Alsop, S. & Hicks, K. (2003)Teaching science. New Delhi: Kogan page India Private Ltd. Harlen, W & Elstgeest (1992) UNESCO Source Book for Science in the Primary School New Delhi : National Book Trust

Module 5 <u>Present practices in Teaching and Learning</u>6+7+7=20 hours

5.1 Collaborative	5.1 The theory and explanations of	5.1 <u>http://www.collaborativelearning.org/clbooklet.pdf</u>
learning, Managing	collaborative learning should be	http://www.studygs.net/cooplearn.htm
Group learning in a	comprehended and discussed from the	http://www.evergreen.edu/washcenter/natlc/pdf/collab.pdf
classroom - group	Teachers' Hand books prepared and	
discussion,	modified by SCERT, Kerala from time to	
observation in a	time.	5.2 http://www.ssa.tn.nic.in/Docu/ABL-Report-by-
group, experiment	A list of activities that can be used in a	Dr.Anandhalakshmi.pdf
or other activity in	constructivist classroom such as Collection	http://www.ssa.tn.nic.in/CurrActivities-A.htm
a group.	of specimens, Small scale survey, Model	
	making, Projects, Seminar, Symposium,	Harlen, W & Elstgeest (1992) UNESCO Source Book for
5.2 Activity based	Debate, Bulletin board, Nature	Sciencein the Primary School New Delhi : National Book
learning, role of	observation, Fieldtrip, Outdoor learning,	Trust
experiments in	Study tour, Library reference should be	
science, integration	mentioned and strategies of managing	5.3 Freire, P. (1970). Pedagogy of the Oppressed.
of theories and	Group discussion, Observation and	Harmondsworth: Penguin.
experiments in	Experiments in a group context should be	
science.	discussed.	SCERT, Kerala (2009). Teachers' Hand Book, Standard
5.2 Critical	Role of teacher in the constructivist class	VIII, Education Department, Government of Kerala.
5.3 Critical	room should be discussed.	http://wings.info
Pedagogy, Issue-	5.2 ADI is an initiation under CCA	http://mingo.info-
based Teaching, Edubuntu –	5.2 ABL is an initiative under SSA,	science.uiowa.edu/~stevens/critped/index.htm
	Tamilnadu. (Only key features of ABL are required). The student teachers may	
exploration of the science resources,	required). The student teachers may reflect upon their own experiences in	
Review of the	school and college about linking theory	
latest happenings	and practical. The discussions should lead	
in the state	to fruitful thumb rules on providing	
schooling	effective science education in the school.	
procedures.	The student teachers should convince	
(Teacher trainees	themselves of the importance of	
are expected to	experiments and activities in science	
acquaint with the	learning.	
emerging practices	louining.	
related to schooling	5.3Conceptual overview of critical	
from time to time.)	pedagogy and Banking Concept of	
	Education, Terms such as conscientization,	
	dialogical method and praxis should be	
	discussed.	
	The issues listedin the KCF should be	
	discussed in the context of Science	
	Teaching.	
	The EDUBUNTU should be explored in	
	the computer lab. And student teachers	
	should get themselves acquainted with	
	some of the resources like PhET, Celestia,	
	Step, Avogadro, Chemical Calculator,	
	gamgi, ghemical, GPeriodic, Kalzium,	
	Kstars, Molecules Viewer, Periodic Table	
	of the Elements, Rasmol, Stellarium etc.	

Processes for EDU 122 METHODOLOGY OF TEACHING PHYSICAL SCIENCE

Processes	Explanation
List any 10 branches of science with a short description. OR Make some items (4 or 5 items each)	The teacher may ensure that each student makes his own efforts to make the list. Either students may do it as homework or they may do the necessary home work and make their own list in the class after discussing in groups.
that would help to evaluate scientific attitude and scientific aptitude.	Only a few sample items need be prepared. A rating scale is used to measure attitude and a test may be used to measure aptitude. The items that may be used in a scale and a test are different. This should be kept in mind while preparing sample items.
Conduct a debate on the relevance of NCF 2005 or KCF 2007 in science education in Kerala.	A debate may be organized in the class only after teaching the relevant sections in the document. The debate may be organized with teacher as the moderator. All students shall prepare a report after the debate about his/ her role and contribution in the debate.
Perform an experiment from 8 th or 9 th standard as demonstration before your peers and accept criticisms from peers. (to be done in groups)	An experiment in chemistry or Physics (of 5 or 6 minutes duration) like preparation of Chlorine gas in a test tube or like formation of image should be performed. The group members shall make a small observation report with suggestions for improvement.
OR Prepare a project plan on any relevant science problem. OR	The project plan should consist of the anticipated steps of the project. The details of anticipated measures during each stage(need and significance, methodology to be adopted, implication of the study) of the project should be given.
Have a buzz session in your class about the importance of questioning technique and table the views of each group.	The topic of the buzz session shall be "importance of questioning technique". The buzz session shall be conducted after the theory classes on questioning technique. Each group shall prepare a report after the buzz session with a list of the group members and the contribution of the group during the session.
Making multiple lessonplans (bhrst Vs contructivist) on a single topic based on different approaches to experience the difference in outlooks. OR Create an imaginary case study of a	Each student may select a topic in Physics or Chemistry which can be taught in 40 minutes. Only the learning experiences need be devised along with the content. Thus the resulting two lesson plans shall have a content column and an activity/learning experience column. This exercise is only to feel the difference in organizing learning experiences in behaviourist and constructivist context. The format of the lesson plan (3 column/ 4 column format, content analysis part etc) may not be insisted.
teacher trainee doing things wrongly in the constructivist classroom and list the precautions and suggestions to correct the trainee.	Imaginary case study means writing a paragraph of about 10 sentences where the situation of a new student teacher in a class room may be sarcastically described. The imaginary case study may include how he failed in building up a suitable introduction, how he failed to give proper instructions, and how he failed in managing group activities. The second part shall deal with the remedy for each
List the social issues that can be addressed in a selected unit from Physics/ Chemistry of 8 th standard. OR	mistake. This exercise shall make the student teacher prepare for the worst and hope for the best.
Get familiarized with anyone IT resource/ package available in EDUBUNTU that is helpful in teaching Science and present a topic using it.	Select a Unit from Physics or Chemistry and think of the issues (as given in KCF) that could be associated with at least 5 topics. Finally make a report listing the five topics, associated issues for each and elaboration of the issues in the relevant context.
	Use any one software in EDUBUNTU like PhET, Celestia, Step, Avogadro, Chemical Calculator, gamgi, ghemical, GPeriodic, Kalzium, Kstars, Molecules Viewer, Periodic Table of the Elements, Rasmol, Stellarium etc. and present a small science topic in the class.

EDU 142 PEDAGOGIC PRACTICES IN PHYSICAL SCIENCE Contact Hours: 75 Hours (Instruction) &15 hours (process)		
Marks : 50 (End semester Examination)& 10 (CE)		
Content	Scope	Reference
Module 1	Aims and Objectives of Teaching Science. 3+7+.	5=15 hours
1.1 General aims of teaching physical science.	1.1 The general aims of teaching science in schools like understanding the nature of science, skill acquisition, development of scientific attitude, training in scientific method, development of interest and appreciation, helping students to adjust better with society, developing suitable career interests may be discussed.	 1.1 Any appropriate textbook 1.2 Mohan, R (2007). Innovative science teaching for physical science. New Delhi: Prentice Hall.
1.2 Taxonomy of educational objectives - Bloom's taxonomy, A conceptual overview of Revised Bloom's Taxonomy, Taxonomy of Mc Cormack & Yager	 1.2 The Blooms taxonomy should be discussed in detail with proper discussion on all the instructional objectives of Cognitive and affectiveDomain. For Psychomotor domain, Dave's taxonomy may be followed. While dealing the Revised Bloom's taxonomy, changes effected in the cognitive domain 1. Renaming and reorganizing of cognitive levels 2. Nouns changed to verbs 3. Structural change with two dimensions (the knowledge dimension and the cognitive process dimension) may be emphasized. 	Anderson, W. L. & Krathwohl D. R. <i>A taxonomy for Learning,</i> <i>Teaching and Assessing.</i> Newyork: Longman. <u>http://www.unco.edu/cetl/sir/</u> stating_outcome/documents/ Krathwohl.pdf <u>http://projects.coe.uga.edu/</u> epltt/index.php?title= Bloom%27s_Taxonomy
1.3 Process skills in Science at secondary stage, developing process skills in students	The domains of Science Education as given by McCormack &Yager and the Instructional Objectives may be discussed. 1.3The process skills may be discussed along with the ways of developing process skills in children. The teacher educator may refer chapter 6 – Developing children's process skills and attitudes of UNESCO sourcebook (Harlen & Elstgeest)	McCormack, A. J.& Yager, R. E. (1989) A New Taxonomy of Science Education. Science Teacher, v56 n2 p47-48. Mathew, T.K. & Mollykutty (2012) Science Education – Theoretical Bases of Teaching & Pedagogic Analysis, Chengannur: Rainbow Publications 1.3SCERT,Kerala (2009). <i>Teachers' Hand Book, Standard</i> <i>VIII</i> , Education Department, Government of Kerala. Harlen, W & Elstgeest (1992) UNESCO Source Book for Sciencein the Primary School New Delhi : National Book Trust

Module 2 Micro Teaching15 hours		
2.1 Teaching skills for class room instruction, Essential skills for Science teaching, Micro teaching - a skill based practice (minimum three skills). A link Practice.	 2.1 Micro teaching –origin, definition, micro teaching cycle, rationale and use of micro teaching, phases of micro teaching. Core teaching skills – components, preparation of micro lessons and appraisal format to elicit feedback. Integration of skills , link practice, macro teaching 	 2.1 Passi, B. K. (ed.) 1976 Becoming a better teacher: A micro teaching approach, Ahmedabad: Sahitya Mudranalaya Mohan, R (2007). <i>Innovative science teaching for physical science</i>. New Delhi: Prentice Hall.
	Module 3 <u>Pedagogic Analysis</u> 20 hours	
3.1 Pedagogic Analysis- Meaning and Steps of Analysis, Pedagogic Analysis of the Physics and Chemistry content portions of 8 th and 9 th standard textbooks of Kerala state, (1.Arranging teaching points in a logical order. 2.Analysing concepts, Working out strategies for teaching concepts. 3.Stating general instructional objectives and specific instructional objectives in terms of behavioural outcomes. (The Behaviourist approach) OR Stating 'curriculum objectives' in terms of concepts, process skills, strategies of instruction and evaluation. (The Constructivist approach) 4. Planning suitable learning experiences according to objectives. Planning the procedures of evaluation according to objectives.)	 3.1 The scope of Pedagogic Analysis encompassing content analysis, statement of objectives, deciding prerequisites, determining inputs, assignments, activities and evaluation procedures may be discussed. Content analysis may be done as terms, facts, concepts, principles, equations, processes, and law. Concept may be discussed as given by Bruner in Concept Attainment Model. The five elements of a concept (name, exemplar, attribute, attribute value and definition) may be emphasized. Criteria for stating Instuctional Objectives in the behaviourist and Constructivist approaches may be emphasized. Importance of selecting suitable learning experience for effective teaching may be emphasized. Selecting the appropriate evaluation procedure relevant to constructivist and behaviourist styles. (Constructivist approach requires testing of process skills as well as conceptual understanding) 	 3.1 Sivarajan, K & Faziluddin, A. (2005) Science Education. Calicut University : Central Cooperative stores. Joyce, B. & Weil, M. (1986). Models of teaching (3rd ed.) New Jersey: Prentice-Hall Inc.

Module 4Planning of Instruction2+3+2+8=15 hours		
 4.1 Objective based instruction – interdependence of objectives, learning experience, and evaluation. 4.2 Planning of Instruction - year plan, unit plan, resource unit 4.3 Lesson planning – Need, Stages 	 4.1Teacher educator should emphasize how this triangular relationship is reflected in the planning of instruction. 4.2 Format of Year plan and lesson plan produced in the SCERT hand Books may be adopted. 	 4.1 Mohan, R (2007). Innovative science teaching for physical science. New Delhi: Prentice Hall. 4.2 Any appropriate text Book
(Herbartian steps)4.4 Lesson plan preparation based on	4.3 The sequencing of a lesson based on Herbartian steps has to be emphasized.	4.3 Any appropriate text Book
(1) The objective based Behaviourist format (2) The Constructivist format	4.4 The Behaviourist format lesson plan may be prepared using the instructional objectives given by NCERT viz., Knowledge, Understanding, application, Skill, Sc. Interest, Sc. attitude, Sc. Appreciation	4.4Mathew, T.K. & Mollykutty (2012) Science Education – Theoretical Bases of Teaching & Pedagogic Analysis, Chengannur: Rainbow Publications

Module 5 <u>Evaluation</u> 4+3+3=10 hours		
5.1 Evaluation - Different types of	5.1 Free response versus Fixed response.	
test items - merits and demerits.	Objective type test item – supply type and	5.1 Any appropriate text book
Construction and administration of	selection type.	
Achievement tests and Diagnostic	Guidelines for preparation of true-false	
tests.	type/multiple choice type/ completion type,	
5.2 Continuous and Comprehensive	matching type, simple recall etc.	
Evaluation, Evaluation Criteria for	Short answer and essay type – characteristics,	5.2 Any appropriate text book.
Assignment, Seminar and Project.	guidelines for preparation, merits and demerits.	
5.3 Evaluation of Non Cognitive	Teacher made test versus standardized tests.	Hand Book for teachers published
Areas – Interest, Attitude and Skill	Differentiate achievement and diagnostic test.	by SCERT from time to time
	Process of construction of both.	
	5.2 Meaning, Scope and Importance of CCE.	
	Evaluation criteria (SCERT Hand book format	
	may be utilized)	
	5.3 Non Cognitive Domain – Objectives in	5.3 Any appropriate text book
	assessing, Difficulties in assessing, Assessment	
	tools and techniques. (observation, inventories,	
	attitude scales, performance tests etc)	

Processes for EDU 142 PEDAGOGIC PRACTICES IN PHYSICAL SCIENCE

Processes	Explanation	
Compare the essential differences between any two taxonomies pictorially. OR	Instead of using meaningful sentences to describe and compare two things, we may use pictures involving, arrows, blocks, graphic designs or any other symbols to do the same task. (Eg. Edgar Dale's Cone of Experience summarizes the hierarchy of the effectiveness of learning experiences.)	
Identify any suitable content /topic that would emphasize the development of a particular process skill. (Do this for all the 13 skills and justify your selection)	Each student should prepare a report with three columns. The first column will list the 13 process skills. The second column will list 13 suitable topics - one against each process skill. The third column will provide 13 sentences of justification corresponding to the process skill-topic pair. (Justification regards to why the student has considered a topic emphasize the particular process skill.)	

Select a concept and formulate instructional objectives of all domains. OR Make separate list of learning experiences on any topic for fast learners as well as for slow learners. Conduct a debate on the importance as well as limitations of "planning of an event".	First the student teacher will have to identify a suitable topic which has significant inputs from cognitive, affective and psychomotor domains. Then at least two or three instructional objectives should be formally statedfrom each domain. The expected output is a three column format where the first column will list the teaching points associated with the selected topic. The second column will list the learning experiences associated with each teaching point for fast learners. (Fast learners require a bit of advanced leaning, challenging activities, enriched material and additional thought provoking questions). The third column shall list the learning experiences associated with each teaching point for slow learners. (Slow learners require more time to comprehend, with more examples, down to earth illustrations, nonverbal cues like charts/pictures and a bit of peer teaching) The debate is about the relevance of planning any event that may occur in life. This may emphasize the relevance of planning in academics including planning of instruction and evaluation (year plan, unit plan, lesson plan, panning a test, blue
to any three objectives (Bloom's taxonomy or Mc Cormack & Yager) that would go into an achievement test.	print, academic calendar etc.) At first the student teacher should select a unit in Physics or Chemistry. Now he may decide upon any three instructional objectives either from one domain say cognitive or from different domains. And then he is supposed to make two or three questions pertinent to each instructional objective. This exercise shall convince the student teacher about the style-difference in framing questions with regard to different Instructional Objectives.

EDU 162 CURRICULUM & RESOURCES OF PHYSICAL SCIENCE Contact Hours: 75 Hours (Instruction) &15 hours (process) Marks : 50 (End semester Examination)& 10 (CE)		
Content	Scope	Reference
Module 1 Curriculum5+8+2+5=20 hours		
 1.1 Curriculum- A conceptual Analysis, Curriculum and Syllabus, Principles of Curriculum Construction. 1.2 Approaches to curriculum organisation - concentric plan, type study, historical approach, Nature rambling, Nature study. Integrated, Disciplinary and Interdisciplinary Approach. 1.3 Concept of correlation - Systematic correlation of physical science within the subject and with other subjects in the curriculum such as mathematics, 	 Origin of the word – curriculum, The definition of curriculum and syllabus, Conceptual analysis may include deciding factors of curriculum like nature of subject matter, nature of society, nature of learner etc. A list of principles of curriculum construction may be discussed. The characteristics of an effective curriculum may also be discussed. The approaches may be discussed with supporting examples. Incidental and Systematic correlation may be discussed with sufficient examples. The difference between them may also be highlighted. A comparative study of PSSC, Chem 	 1.1 Any appropriate textbook 1.2 Sivarajan, K & Faziluddin, A. (2005) <i>Science Education</i>. Calicut University : Central Co-operative stores. 1.3 Joseph t. T., (1991) Modern Trends in Science Education, Kottayam: St Joseph Training College 1.4 Rajan K. M. , (2004), Science of Science Education, Kottayam: St. Joseph Training

Biology, Languages, Geography, History, Earth Science, Drawing, Music and Craft. Incidental correlation achieved while teaching. 1.4 Curriculum reforms abroad - PSSC, Chem Study and CBA	Study and CBA may be attempted with reference to objectives and major instructional materials.	College. Mohan, R (2007). <i>Innovative science</i> <i>teaching for physical science</i> . New Delhi: Prentice Hall.
	Module 2 <u>The scientific method</u> 3+8+4+5=2	9 hours
2.1 Scientific method – importance, steps involved in the scientific method,	2.1 Definition of scientific method and commonly followed steps of scientific method. The steps should be illustrated with a suitable example.2.2 All logical elements are inferential processes	2.1 Sharma, R. C. (1985) <i>Modern science</i> <i>teaching</i> . New Delhi: Dhanpat Rai &, Sons. <u>http://www.freeinquiry.com/</u> intro-to-sci.html
2.2 Logical aspects of scientific method - Induction, Mill's five canons of induction, deduction, analogy, Analysis, Synthesis. Hypotheses – characteristics and importance. Technical Aspects- Observation, Experiment, Data Collection	which reveal the cause effect relationship. Induction is inferring a generalized statement from instances. Mills canons are used when there is a plurality of causes. Characteristics of Observation and experiment. Difference between observation and experiment may be emphasized. Procedures of data collection may be discussed.	 2.2 Rajan K. M. , (1999), Perspectives in Physical Science Teaching, Kottayam: Vidyarthimithram. 2.3 <u>http://www.godslasteraar.org/</u> assets/ebooks/Gardner_A_Skeptical_
 2.3 Corroboration and Falsification 2.4 Transfer value of Scientific Method, Strategies to give pupils 	 2.3 Conceptual meaning of corroboration and falsification illustrated with examples. 2.4 Possibility of using systematic method of solving problems in day to day life situations. Strategies that can be employed by a science teacher to give training in scientific method may be 	Look_at_Karl_Popper_sec.pdf <u>http://plato.stanford.edu/</u> entries/popper/ Popper, (2002) The Logic of Scientific Discovery, Routledge Publishers
training in Scientific method.	discussed.	2.4 Joseph t. T., (1991) Modern Trends in Science Education, Kottayam: St Joseph Training College
Μ	odule 3 <u>Resources in Teaching Science</u> 10+	-10 = 20 hours
3.1 Resource materials in teaching physical science. Syllabus, Textbooks - Vogel's criteria of selection. Work Book, Teachers handbook,	3.1 Syllabus as a contract between teacher and students. Essential constituents of a syllabus. Science text book - Function, Characteristics, Vogel's	3.1 <u>http://www.youtube.com/</u> watch?v=T7xLD4XfqAw http://teachingcenter.wustl.edu/ preparing-syllabus
reference books, supplementary readers. 3.2 Teaching Aids, Improvised apparatus, Essential audiovisual aids. C.D. ROMsuch as Encyclopaedia Britannica, Microsoft Encarta, Edubuntu of it	Criteria for selection. Function and Characteristics/Merits of Work book, handbook, reference books and supplementary readers. 3.2 Teaching Aids -	Sivarajan, K & Faziluddin, A. (2005) Science Education. Calicut University : Central Co-operative stores.
@school, Kerala	Discussion on the most commonly used aids in science class. Criteria of selection. Improvised aids – characteristics, merits, value, disadvantages. Science resources like video clips, animations, graphics etc available in CDs may be discussed. Students may explore the Cds for	3.2 Mohan, R (2007). Innovative science teaching for physical science. New Delhi: Prentice Hall.

	themselves. Evaluation of an educational	
	CD with a suitable proforma.	
	eb with a suitable proforma.	
Ν	Module 4 Library and laboratory 7+3+5=	15 hours
 4.1 Laboratory and its organization, purchase and maintenance of chemicals, apparatus and equipments. Laboratory rules, accidents in the laboratory, precautions and First Aid. 4.2 Science library and its organization. 4.3 Using internet for accessing information, Websites for authoritative information like ERIC, INFLIBNET etc. 	 4.1 Science laboratory – design, organization, features of a good laboratory. Purchase of apparatus and chemicals, Registers to be maintained in a lab. General lab rules and discipline. Accidents and prevention. Precaution in storing chemicals. First aid 4.2 Selecting good books for a science library. Organizing a school science library. 4.3 Familiarising with websites devoted for science teaching and learning. Refer "How the web will change the classroom" by Mohan, R.,(2007) ERIC as an online digital library of education research and information. INFLIBNET as network of library and information resources for research in particular subjects., N-LIST Programme. 	 4.1 Mohan, R (2007). Innovative science teaching for physical science. New Delhi: Prentice Hall. 4.2 http://www.librariananurudh.com/ images/LIBRARY-1-99.pdf 4.3 Mohan, R (2007). Innovative science teaching for physical science. New Delhi: Prentice Hall. http://www.inflibnet.ac.in/ about/objective.html http://nlist.inflibnet.ac.in/ faq.php

Processes for EDU 162 CURRICULUM & RESOURCES OF PHYSICAL SCIENCE

Processes	Explanation
Identify and compare the principles of curriculum development selecting a single topic from state and CBSE syllabi. OR Make a cartoon on the concept of using a correlation in the classroom. OR Make a table of similarities and differences of any two of PSSC, Chem Study, CBA.	This exercise is a qualitative judgment of a representative topic with regard to the principles of curriculum construction. A topic of sufficient length (may be a complete unit) has to be selected from Chemistry or Physics of state syllabus. And comparison should be made with similar topic from the CBSE syllabus. A report of comparison should be prepared. As the comparison is subjective it is quite natural that different individuals may come out with different viewpoints in their reports. A cartoon is a drawing depicting a humorous situation, often accompanied by a caption. A cartoon can be drawn on instances of using correlation in the classroom. (Using humour does not mean devaluing or disapproving something.)
Go through the biography of any one scientist and prepare profile to recognize the scientific method they had used in their pursuits. OR Prepare a poster in groups of three highlighting the importance of scientific method.	The expected output is a two column report with the similarities listed in the first column and differences in the second column. A two page report may be prepared and each student may prepare a profile of a different scientist. The poster should be prepared on a chart paper. The poster should illustrate the message / theme/ principle with minimum words. Typically posters include both textual and graphic elements. Posters are designed to be both eye-catching and informative. For tips visit

	http://online.physics.uiuc.edu/courses/phys596/fall11/Lectures/ ScientificPosterTips_FA11.pdf
Make an improvised apparatus in a group of three and contribute to the local school. OR Select a unit in Physics or Chemistry of 8^{th} standard and prepare a workbook. OR Rate a Higher secondary level text book in science according to Vogel's Criteria.	The group of three may pre-decide on the improvised apparatus and come prepared to the class with required materials. Only one apparatus need be prepared in the group. Workbook is a booklet with practice problems, where the answers can be written directly in the book. The exercises/ problems should be of varied types incorporating all types of questions followed by space to solve them. A small booklet of about 6 pages need be prepared by each student teacher.
	Any science text book (NCERT/ CBSE / written by any author) appropriate for higher secondary level reading may be taken for rating.
Arrange one shelf of the lab and label properly OR make a mock register with few items. OR Prepare the list of at least 20 science books in the library and prepare an accession register for the same. OR Catalogue the 20 books and make a computer data base of it.(Including author, title, key words and other necessary details) OR Suggest any 5 journals in Science with publication details that can be subscribed for schools	 Each student shall arrange and label the apparatus/ reagents/ chemicals of one shelf of the science lab in the teacher education institution. Make a small sample register with about 20 items. one may choose any one of permanent stock register, stock register of breakables, stock register of consumables, order register or a requirement register. Prepare an accession register with minimum essential details of 20 science books. Prepare a catalogue in excel or any other spread sheet of any 20 books. Prepare a list of 5 science journals with all necessary details.

EDU 182 PROFESSIONALIZING PHYSICAL SCIENCE EDUCATION Contact Hours: 75 Hours (Instruction) &15 hours (process) Marks : 50 (End semester Examination) & 10 (CE)ContentScopeReference		
	Module 1 Science and Society5+5+5=15 hours	
 1.1 Science as a social Endeavor; Scientific Literacy, Dual role of science (emancipatory and oppressive). 1.2The Science Teacher and Society. Role of science teacher in eradicating misconceptions and superstitions in Society. 1.3 Science and Technology, complementarities between Science and Technology 	 1.1 Scientific literacy – meaning/definition. Characteristics of literate students. Using science as a tool for oppression – Dark Ages (science in the middle Ages) Science as tool for educating and uplifting masses. 1.2Science as a tool for fighting superstitions, fostering logical thinking and instilling scientific outlook in life. Misconceptions about science, misconceptions in learners and ways to over come misconceptions. 1.3Difference between science and technology. Significance and relevance of both. Discussion on how both complement for the progress of humanity. 	 1.1 http://www.scientificlite racy.org/aboutus.htm http://www.curriculumsupport.ed ucation.nsw.gov.au/investigate/index.ht m 1.2 Alsop, S. & Hicks, K. (2003)Teaching science. New Delhi: Kogan page India Private Ltd. 1.3 Any appropriate text book

Model 2 Ce-curricular Activities in Science 5:5-10 hours 2.1 Co-curricular activities and statistics and significance- rigatization and activities such as a statistic statistic in program data with the statistic statistic statistics and statistics statistand statistics and statistand statistics and statistics			
2.1 Co-curricular activities 2.1 Co-curricular activities 2.1 Co-curricular activities reginization of field trips and study Fielding and study tour, Meaning importance/merissvalues, steps of organizing. 2.2 Science Club - is pattern, organization and activities such as science debates. 2.2 Science Club - objectives, Organization, list of organizing. ascience fairs, science exhibition, science fairs, science chibition, and science debates. Almad 1, (2009) Teaching of Biological Sciences. New delhi: PHI Pvt Ltd. Science Fairs, science exhibition, science fairs, science chibition, and science debates. Science Fairs, Science chibition, and science debates - objectives, steps of organizing. Almad 1, (2009) Teaching of Biological Science Fairs, Science chibition, and science debates. 3.1 Identifying and nurturing the gifted Science Fairs, Science children Measures to nurture scientifically gifted children, Creativity and Critical thisking. 3.1 3.1 Identifying and nurturing the gifted objectives, procedure of organization. Calcut University : Central Co-operative stores. 3.2 3.2 NSTS-NSTS-NSTS Scheme of NCERT. Objectives of the scheme. National Talent Search Examination Organization. Calcut University : Central Co-operative stores. 3.2 3.2 NSTS-NSTS Scheme of NCERT. Objectives, procedure Olympid by NCERT, objectives, procedure Olympid by NCERT, objectives, procedure Str			
Fieldurity and study tours, their importance. Fieldurity and study tours, their importance. Fieldurity and study tours, their importance. Physical Science Teaching, Kottayam: Vidyarthimithram. 2.2 Science Club - its pattern, organization and activities such as science fairs, science effars, science charts, Science Club. 2.2 Science Club - Objectives, Organization, list of science fairs, science effars, Science Club. Ahmad J. (2009) Teaching of Biological Sciences. New delhi: PH PM Ltd. science debates. Science Fair, Science charts, Science Club. Science Science Fair, Science Chub. Science	Module	2 <u>Co-curricular Activities in</u> Science 5+5:	=10 hours
2.2 Science Club - iis pattern, organization and activities such as science fairs, science exhibition, science fairs, science exhibition, science fairs, science exhibition, and science debates - Objectives, steps of organizing. Science Site Science Fair, Science exhibition, and science debates - Objectives, steps of organizing. 2.2 Anmad J., (2009) Teaching of Biological Science, New delhi: PHI Pvt Ltd. Science Fair, Science exhibition, and science debates - Objectives, steps of organizing. 2.2 Anmad J., (2009) Teaching of Biological Science, New delhi: PHI Pvt Ltd. Science Fair, Science Faire, Science F	organization of field trips and study	Fieldtrip and study tour, Meaning –	Physical Science Teaching, Kottayam:
Sciences. New delhi: PHI PVL ttd. Sivarajan, K & Faziluddin, A. (2005) Science Zuduction. Calicut University : Central Co-operative stores. 3.1 Identifying and nurturing the gifted gifted children. Creativity and Critical Masures to nurture scientifically gifted children. 3.2 NSTS(National Science Talent 3.2 NSTS(National Science Talent Search) 3.2 NSTS(National Science Talent Science Subjectives 3.2 NSTS(National Science Talent Search) 3.2 NSTS(National Science Talent Search) Science Subjectives Olympiad Module 4 Using Computers in Teaching7+7+6=20 hours 4.1 Computer Aided Teaching, Expert System, Module Module preparation for E- content Development, 4.2 Course ware, Free Softwares in Science. Softwares in Science. Ait Direlligent tutoring systems, Le Ait Model – philosophy, pedagogy, usage, moodle site-basic structure, key Aittp://does.moodle.org/	organization and activities such as science fairs, science exhibition,	activities conducted by Science Club. Science Fair, Science exhibition, and science debates –	Sciences. New delhi: PHI Pvt Ltd.
3.1 Identifying and nurturing the gifted children. Creativity and Critical funking. 3.1 Characteristics of Scientifically gifted children. Measures to nurture scientific talent. Creativity in science-ways to foster. critical thinking in science 3.1 Sivarajan, K & Faziluddin, A. (2005) Science Education. Calicut University : Central Co-operative stores. 3.2 NSTS(National Science Talent Search) 3.2 NSTS - NSTS Scheme of NCERT. Objectives of the scheme. National Talent Search Examination conducted by NCERT, objectives, procedure, Olympiad 3.2 Module 4 Using Computers in Teaching7+7+6=20 hours 4.1 Computer Aided Teaching and as a teaching machine. Human Teacher – merits and draw backs. Expert System, Nodule preparation for E-content Development, 4.2 4.1 Use of computers in teaching – as supporting and as a teaching machine. Human Teacher – merits and draw backs. Expert System as the major component of Intelligent tutoring systems, 4.2 4.1 Any appropriate text book in Educational Technology 4.2 Course ware, Free Softwares in Science - a list of useful softwares and their functions. 4.2 Appropriate internet resources 4.3 Module – philosophy, pedagogy, usage, moodle site-basic structure, key 4.3 http://docs.moodle.org/			Sciences. New delhi: PHI Pvt Ltd. Sivarajan, K & Faziluddin, A. (2005) Science Education. Calicut University :
gifted children. Creativity and Critical thinking.Measures to nurture scientific talent. Creativity in science-ways to foster. critical thinking in science thinking.Science Education. Calicut University : Central Co-operative stores.3.2 NSTS(National Science Talent Search)3.2 NSTS- NSTS Scheme of NCERT. Objectives of the scheme. National Talent Search Examination conducted by NCERT, objectives, procedure, Olympiad3.2 http://www.ncert.nic.in/programmes /alent_exam/pdf_files/Details.pdf Sivarajan, K & Faziluddin, A. (2005) 		Module 3 <u>The scientifically Gifted Children</u> 7+3=10 hou	rs
Search)3.2 NSTS- NSTS Scheme of NCERT. Objectives of the scheme. National Talent Search Examination conducted by NCERT, ,objectives, procedure, Olympiad3.2 http://www.ncert.nic.in/programmes /talent_exam/pdf_files/Details.pdf Sivarajan, K & Faziluddin, A. (2005) Science Education. Calicut University : Central Co-operative stores.4.1Computer A ided Teaching, Expert System, Module preparation for E- content Development, 4.24.1 Use of computers in teaching – as supporting and as a teaching machine. Human Teacher – merits and draw backs. Expert System as the major component of Intelligent tutoring systems, 4.24.1 Any appropriate text book in Educational Technology4.2Course ware, Free Softwares in Science. arning Management Systems- LE4.3 Moodle – philosophy, pedagogy, usage, moodle site-basic structure, key4.3 http://docs.moodle.org/	gifted children. Creativity and Critical	Measures to nurture scientific talent. Creativity in	Science Education. Calicut University :
4.1ComputerAided4.1 Use of computers in teaching – as supporting and as a teaching machine. Human Teacher – merits and draw backs. Expert System as the major component 		the scheme. National Talent Search Examination conducted by NCERT, ,objectives, procedure,	http://www.ncert.nic.in/programmes /talent_exam/pdf_files/Details.pdf Sivarajan, K & Faziluddin, A. (2005) Science Education. Calicut University :
Teaching, Expert System, Module preparation for E- content Development,supporting and as a teaching machine. Human Teacher – merits and draw backs. Expert System as the major component of Intelligent tutoring systems, 4.2 Course ware, Free Softwares in Science.in Educational Technology4.2 Course ware, Free arning Management Systems - LE60 Intelligent tutoring systems, 	Module	4 <u>Using Computers in Teaching</u> 7+7+6=	=20 hours
usage, moodle site-basic structure, key 4.3 <u>http://docs.moodle.org/</u>	Teaching, Expert System, Module preparation for E- content Development, 4.2 Course ware, Free Softwares in Science. arning Management Systems -	 supporting and as a teaching machine. Human Teacher – merits and draw backs. Expert System as the major component of Intelligent tutoring systems, 4.2 Course ware – Meaning , Free Software's in Science - a list of useful 	in Educational Technology4.2 Appropriate internet
			4.3 <u>http://docs.moodle.org/</u>

	terms as given in the moodle website.	23/en/About_Moodle
Module 5	The Professional Science Teacher7+3	8+5+5=20 hours
5.1 Definition of profession,	5.1Profession – definition.	5.1 Mohan R., (2011) Teacher
Teaching as a profession. Professional ethics. Traits of professionalism- competencies listed by	Characteristics of a profession, who is a professional teacher? Professional Ethics – Code of ethics as given by NCTE. Professional elements	Education, NEWdELHI: PHI Learning Pvt Ltd.
NCTE 5.2 Soft Skills for a teacher 5.3 Professional growth of	(traits). Teacher competencies listed by NCTE.	
Science teacher. – Teaching , Research and Extension. Research journals in Science and Science Education.	5.2 Soft skills – meaning, significance in teaching. Essential soft skills required for a teacher like leader ship skills, communication skills, time management	5.2 Appropriate internet resources.
Role of SCERT and NCERT in the professional growth of a teacher.	skills, team skills, event management skills etc.	5.3 Mohan R., (2011) Teacher Education, NEWdELHI: PHI Learning
5.4 Internet resources and websites for professional growth of a science teacher.	5.3 Professional growth of science teacher – teaching research and extension. Improving professional ism	Pvt Ltd.
	by in service courses. Role of SCERT and NCERT in the professional growth of a teacher. Professional organizations of teachers. Research Journals in Science – A list of.	5.4 Appropriate internet resources.
	5.4 A list of internet resources and websites	
	For the professional growth of science teacher.	
	toacher.	

Processes for EDU 182 PROFESSIONALIZING PHYSICAL SCIENCE EDUCATION

Processes	Explanation
Make a multimedia package/short video/very short documentary/ puppetry OR Enact /practice theatre education, role playing, street show, or any art form to popularize science	A two or three minute project with a story line may be attempted. marks shall be awarded only for (1)the story board out line and (2)the novelty and originality of the idea contained. (Short film/multimedia package /documentary may be attempted with small mobile camera
among public. OR Prepare a time line of significant developments in Science in any one century.	Time line is a graphical representation of chronological events. The important events, inventions, thoughts, scientists etc of any particular century may be selected.
Arrange a seminar in science in the	The seminar should have a student teacher as moderator and four or five student teachers should present papers on the theme of popularizing scientific outlook

class for popularizing scientific outlook. or Prepare a science show with simple interesting experiments and perform it before other students of the college. (To be done in groups)	among the public. All other teacher educators who listen to the seminar shall prepare their own notes compiling the proceedings of the seminar. Marks shall be awarded for moderating/presenting the paper/compiling the proceedings.A group of four or five may decide on two or three simple interesting experiments. the group shall perform the experiments either in the optional class or to non science students of the college.
Prepare an evaluation tool to identify the science talented students.	A tool with items that test creativity, originality and problem solving ability shall be prepared. A test of about 15 items in science that require divergent/convergent thinking may be constructed for $8^{th}/9^{th}/10^{th}$ standard.
Write a script for developing e-content development for a concept OR Prepare a rating scale to evaluate an educational CD and evaluate one using the same.	Select an appropriate concept in Physics/Chemistry and develop an econtent. Script is sufficient. (One can also try e content development soft ware like eXe – the eLearning XHTML editor. eXe is an easy open source software which is freely downloadable and works on windows or linux platforms.Visit exelearning.org/ for download) A rating scale may be developed with essential criteria such as sequencing, user friendliness, hyperlinking, graphics and so on. Either a rating scale can be individually developed or it may be adapted/adopted from readymade proforma for evaluation of education Cd such as given in Mohan, R (2007). Innovative
	science teaching for physical science. New Delhi: Prentice Hall.
Does the profession of teaching command same respect as other professions? Express your views in the class.	This may be arranged as an unstructured casual talk. All the student teachers shall prepare a short note about their own participation and contribution after the session.
OR Prepare a review of a research based article in Science from any Science e- journal.	First the full text of a research article in Physics/ Chemistry should be retrieved from any e journal. A number of e journals are available with full text option through the N –LIST programme of INFLIBNET. Most of the colleges subscribe to the NLIST programme which is accessed through internet.

UNIVERSITY OF CALICUT

Re structuring of Curriculum-2012 Credit Based Semester and Grading System

HANDBOOK FOR TEACHER EDUCATORS (NATURAL SCIENCE)

Programme: Bachelor of Education (B Ed) With effect from 2012-13 Academic Year

BOARD OF STUDIES EDUCATION (UG)

EDU. 121. METHODOLOGY OF TEACHING NATURAL SCIENCE. Contact Hours:75 (Instruction)&15 Process

Marks:50 (End Semester Examination)&10 (CE) MODULE I (10 Hours)		
Nature and Scope of Science		
	-	
Content	Scope	Reference
1.1Science-its meaning, definitions, and nature Science as a product and process- Science an ongoing process of enquiry	 1.4 Definitions of Science. The three fold nature of Science – body of knowledge, Method of enquiry and attitude towards life. The product and process aspect of Science. How both aspects contribute mutually for the development of Science. Science an ongoing process of enquiry. 	1.2 Mohan, R (1995). Innovative science teaching for physical science. New Delhi: Prentice Hall.
 1.2 Importance of science as a school subject. Values of teaching science with special reference to Biology. 1.3 Scientific Attitude. 	 1.5 A general discussion on the importance of teaching science in School. Need, worth and value of teaching Science in the Practical, disciplinary, vocational, social, moral and recreational dimensions. 1.6 Definition and characteristics of Scientific Attitude. The difference between attitude and aptitude (5+3+2 =10 Hrs) 	 1.2 Sharma, R. C. (1985) <i>Modern science teaching</i>. New Delhi: Dhanpat Rai &, Sons. 1.3 Any appropriate textbook
	MODULE II (5 Hours) History of Science Education	
2.1 Landmarks in the development of science education.2.2 Science	2.1 Science education through centuries (16 th - 21 st) Landmarks in the development of science education in India-All India Seminar on Teaching of Science, National Scientific Policy Resolution of 1958, Indian parliamentary and scientific Committee, UNESCO Planning Mission and efforts like establishing the NCERT, University Grants Commission and the All India Council for Technical Education, Institute of Technology, Indian Institute of Science, Navodaya Vidyalayas etc	2.1http://www.iisc.ernet.in/ins a/ch4.pdf

Education as envisaged in NCF and KCF 2007- developing global perspectives in science teaching.	 2.2 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 – 5.2.2Major criticisms leveled against the prevailing science education, 5.2.4 aims of science education, 	2.2 http://www.ncert.nic.in/rightsi de/ links/pdf/framework/english/nf 2005.pdf http://www.ssamis.com/ web/downloads/KCF%202007 .pdf
	5.2.5.1Knowledge Domain, 5.2.5.2Science Process Domain, 5.2.5.3Creativity Domain, 5.2.5.4Attitudinal Domain, 5.2.5.5Application Domain, 5.2.13 <i>The Nature of Science and</i> <i>Science Education, 5.2.17The</i> areas of science education that need to be evaluated. Developing global perspectives in teaching science. (1+4=5Hrs)	
	MODULE III (25 Hours) Approach, Methods and Techniques	
	of Teaching Science	
3.1 Inductive, Deductive,	3. Meaning of methods, approaches and techniques to be discussed.	
Enquiry&		
Discovery Approaches of Teaching.	3.1 Inductive approach (Generalizing from instances) & deductive approach (Verifying the theories) – meaning, comparison, examples, merits and demerits. Enquiry and discovery	3.1 Any appropriate text book
3.2 Methods of Instruction – Lecture, Lecture cum	approaches. Guided and unguided enquiry.	
demonstration method, Heuristic method, Project method, Problem solving method , Dalton Plan, Individual laboratory	3.2 Methods of Instruction – Each method should be explained with regard to its meaning, general principles/characteristics if any, procedure, role of teacher, merits & demerits.	3.2Methods of Instruction - Any appropriate text book. Problem Solving Cycle & types of Problems- Sternberg,R.J.,(2006)Cognitive Psychology, Thomson Wadsworth http://eprints.utm.my/
method, 3.3 Questioning	3.3 Importance of Questioning. Strategies of questioning. Thumb rules of effective	6084/1/aziziyahcognitivepsy.p df
Technique, Brain storming, Buzz session, & Role Playing.	questioning, Guidelines for dealing with pupils answer. Brain storming, Buzz session and Role playing may be discussed with essential practical wisdom in the class. Apart from the theory,	3.3 Any appropriate text book/ Internet resources.

	student teachers should appreciate these techniques as tools for collaborative learning	
	and social constructivism.	
	(4+16+5=25 Hrs)	
	MODULE IV (20 Hours)	
	Learning as a Generative Process	
4.1 Theory of Cognitive Constructivism, Social Constructivism and Multiple Intelligences	4.1 Genetic Epistemology by Jean Piagget, Discovery learning by Jerome S. Bruner, Social Developmental Theory by L. Vygotsky and Multiple Intelligence by Howard Gardner may be discussed as the essential underpinnings of constructivism.	4.1 Appropriate Text books in Cognitive Psychology.
 4.2 Learning as a generative process - Children's science, learner as a scientist, Behaviorist approach Vs Constructivist approach, 4.3 Collaborative learning, Managing Group learning in a classroom Activity based learning, role of experiments in science, integration of theories and experiments in science. 	 4.2 UNESCO sourcebook (Harlen & Elstgeest) -The idea of how children learn is given under the heading "Reflecting on Learning in Science" in Chapter 1 of the book. The schematic diagram under the heading "The role of process skills in Learning" may also be discussed. The teacher educator may also refer chapter 6 – "Development of children's science concepts" of the UNESCO Sourcebook. Differences between behaviourism and constructivism may be discussed in the class in the light of theory as well as practical experience of the teacher educator. 4.3 The theory and explanations of collaborative learning should be comprehended and discussed from the Teachers' Hand books prepared and modified by SCERT, Kerala from time to time. A list of activities that can be used in a constructivist classroom such as Collection of specimens, Small scale survey, Model making, Projects, Seminar, Symposium, Debate, Bulletin board, Nature observation, Fieldtrip, Outdoor learning, Study tour, Library reference should be mentioned and strategies of managing Group discussion, Observation and Experiments in a group context should be discussed. 	 4.2Alsop, S. & Hicks, K. (2003)Teaching science. New Delhi: Kogan page India Private Ltd. Harlen, W & Elstgeest (1992) UNESCO Source Book for Science in the Primary School New Delhi : National Book Trust 4.3 http://www.collaborativelearni ng.org/clbooklet.pdf http://www.studygs.net/coople arn.htm http://www.evergreen.edu/was hcenter/natlc/pdf/collab.pdf http://www.ssa.tn.nic.in/Docu/ ABL-Report-by- Dr.Anandhalakshmi.pdf http://www.ssa.tn.nic.in/CurrA ctivities-A.htm

	ABL is an initiative under SSA, Tamilnadu. (Only key features of ABL are required). The student teachers may reflect upon their own experiences in school and college about linking	
	theory and practical. The discussions should	
	lead to fruitful thumb rules on providing effective science education in the school.	
	The student teachers should convince	
	themselves of the importance of experiments	
	and activities in science learning.	
	(6+7+7 =20 Hrs)	
	MODULE. V (15 Hours) Present Practices in	
	Teaching and Learning.	
5.1 Critical	5.1Conceptual overview of critical pedagogy	5.1
Pedagogy, Issue-	and Banking Concept of Education, Terms such	Harlen, W & Elstgeest (1992)
based	as conscientization, dialogical method and	UNESCO Source Book for
Teaching, Edubuntu	praxis should be discussed.	Sciencein the Primary School
-exploration of the	The issues listed in the KCF should be discussed	New Delhi : National Book
science resources,	in the context of Science Teaching.	Trust
Review of the latest	(10 Hrs)	5.2 E : D (1070)
happenings in the	The EDUDINITY should be evaluated in the	5.3 Freire, P. (1970).
state schooling procedures.(Teacher	The EDUBUNTU should be explored in the computer lab. And student teachers should get	Pedagogy of the Oppressed. Harmondsworth: Penguin.
trainees are	themselves acquainted with some of the	Trafmondsworth. Tengum.
expected to acquaint	resourcesincluded in EDUBUNTU like Biology	SCERT,Kerala (2009).
with the emerging	Resources, IT Resources for UP and Resource	Teachers' Hand Book,
practices related to	for VI and VIII etc	Standard VIII, Education
schooling from time		Department, Government of
to time	(5 Hrs)	Kerala.
		http://mingo.info
		http://mingo.info- science.uiowa.edu/~stevens/cri
		tped/index.htm
		·r · ···

Process for EDU. 121. METHODOLOGY OF TEACHING NATURAL SCIENCE.

Process	Explanation
Formulate a definition of science of your own and Substantiate its foci.	The students may analyze some definitions of science and formulate a definition of his/her own and label the foci (emphasis) and substantiate /justify them.
OR Make some items (4 or 5 items) that would help to evaluate scientific attitude	Only a few sample items (5 items) need be prepared. A rating scale is used to measure attitude.
Make a comparison of NCF 2005 &KCF with respect to	Go through relevant sections in both documents and make a comparison with respect to science education either in tabular

science education	form or in descriptive form. (Not to exceed 5 aspects)
Prepare a group project plan for IX standard students	A project should consist of the anticipated steps of the project. Students may select a topic of IXth standard Biology and prepare a plan showing the details of anticipated measures during each stage.(viz. problem, need and significance, methodology to be adopted,) the plan may contain time schedule and even references to be consulted.
OR Prepare an instruction card on a topic to be taught by Individualized Laboratory Method.	Select an experiment/a specimen for morphological study. Prepare an instruction card with instructions specifying the procedure of the experiment or observation to be conducted. A group of students (4-6) may prepare a script for role play of a Biological theme, rehearse and enact in the class.
Role playing of a Biological theme. (Group Work)	A behaviorist lesson plan may be provided to students for restructuring it into constructivist pattern.
Restructure a behaviorist learning of a topic into a constructivist format OR Making multiple lesson plans (behaviorist Vs constructivist) on a single topic based on different approaches to experience the difference in outlooks. OR Create an imaginary case study of a teacher trainee doing things wrongly in the constructivist classroom and list the precautions and suggestions to correct the trainee.	Each student may select a topic in Biology which can be taught in 40 minutes. Only the learning experiences need be devised along with the content. Thus the resulting two lesson plans shall have a content column and an activity/learning experience column. This exercise is only to feel the difference in organizing learning experiences in behaviourist and constructivist context. The format of the lesson plan (3 column/ 4 column format, content analysis part etc) may not be insisted. Imaginary case study means writing a paragraph of about 10 sentences where the situation of a new student teacher in a class room may be sarcastically described. The imaginary case study may include how he failed in building up a suitable introduction, how he failed to give proper instructions, and how he failed in managing group activities. The second part shall deal with the remedy for each mistake. This exercise shall make the student teacher prepare for the worst and hope for the best. Select atopic each from 8th and 9th std Biology and think of the issues as given in KCF that could be highlighted with the topic. Associate on issue with each topic and formulate corresponding learning situations
and (ix) Std Biology and formulate issue based learning situations. (2 marks)	
	275

EDU 141.PEDAGOGIC PRACTICES IN NATURAL SCIENCE. Contact Hours:75 (Instruction)&15 Process		
Marks:50 (End Semester Examination)&10 (CE		
MODULE I (20 Hours) Aims and Objectives of Teaching		
	Science	
	1	
Content	Scope	Reference
1.1 General aims of teaching Natural Science. Broad National Goals.	1.3 The general aims of teaching science in schools, like understanding the nature of science, skill acquisition, development of scientific attitude, training in scientific method,	1.1 Sivarajan, K & Faziluddin,A. (2005) <i>Science Education</i>.Calicut University : Central Cooperative stores.
	development of interest and appreciation, helping students to adjust better with society, developing suitable career interests may be discussed.	
	Broad national goals of teaching Natural Science.(to develop scientific literacy to raise the standard of living to effective social change and to create awareness of national goals with respect to increase of food production, eradication of diseases, better nutrition, importance of live stock, conservation of natural resources etc	
1.2 Taxonomy of educational objectives –Revised Bloom's Taxonomy, Mc Cormack & Yager Taxonomy	1.4 The Blooms taxonomy should be discussed in detail with proper discussion on all the instructional objectives of Cognitive and affective Domain. For Psychomotor domain, Dave's taxonomy may be followed.	1.2 Mohan, R (2007). <i>Innovative</i> <i>science teaching for physical</i> <i>science</i> . New Delhi: Prentice Hall.
	While dealing the Revised Bloom's taxonomy, changes effected in the cognitive domain 1. Renaming and reorganizing of cognitive levels 2. Nouns changed to verbs 3. Structural change with two dimensions (the knowledge dimension and the cognitive process dimension) may be emphasized. The domains of Science Education as	Anderson, W. L. & Krathwohl D. R. <i>A taxonomy for</i> <i>Learning, Teaching and</i> <i>Assessing.</i> Newyork: Longman. <u>http://www.unco.edu/cetl/sir/</u> stating_outcome/documents/ Krathwohl.pdf <u>http://projects.coe.uga.edu/</u> epltt/index.php?title=

		Γ	
1.3 Process skills in Science at secondary stage, developing process skills in students.	given by McCormack &Yager and the Instructional Objectives may be discussed. 1.3 The process skills may be discussed along with the ways of developing process skills in children. The teacher educator may refer chapter 6 – Developing children's processskills and attitudes of UNESCO sourcebook (Harlen & Elstgeest)	Bloom%27s_Taxonomy <u>McCormack, A. J.& Yager, R.</u> <u>E.</u> (1989) A New Taxonomy of Science Education. Science Teacher, v56 n2 p47-48. Mathew, T.K. & Mollykutty (2012) Science Education – Theoretical Bases of Teaching & Pedagogic Analysis, Chengannur: Rainbow Publications 1.3 SCERT,Kerala (2009). <i>Teachers' Hand Book, Standard</i> <i>VIII</i> , Education Department, Government of Kerala.	
		Harlen, W & Elstgeest (1992)	
		UNESCO Source Book for Sciencein the Primary School	
	(5+10+5=20 Hrs)	New Delhi : National Book Trust	
	MODULE II (10 Hours)		
	Micro Teaching	21 D $(107())$	
2.1 Teaching skills for class room instruction, Essential skills for Science teaching, Micro teaching - a skill based practice	2.1 Essential skills for teaching science Core teaching skills – components Micro teaching –origin, definition, micro teaching cycle, rationale and use of micro teaching, phases of micro teaching. Preparation of micro lessons and appraisal format to elicit feedback.Integration of skills , Link practice, macro teaching (7+3=10)	2.1 Passi,B.K (1976). Becoming better teacher: A micro teaching approach, Ahamadabad, Sahithya Mundranalya.	
MODULE III (23 Hours) Pedagogic Analysis			
3.1 Pedagogic Analysis- A conceptual overview, Pedagogic Analysis of the Biology content portions of 8th and 9th standard textbooks of Kerala state,	3.1 Meaning, Objective and scope of Peda Analysis.Encompassing content an statement of objectives, deciding prerequ determining inputs, assignments, activitie evaluation procedures etc may be discussed Content analysis may be done as terms,	alysis, isites, es and l. Ealicut University : Central Co-operative stores.	
(1.Arranging teaching points in a logical order.	concepts, principles, equations, processes law.	s, and	

2 Analyzing concents		
 2.Analysing concepts, Working out strategies for teaching concepts. 3.Stating general 	Concept may be discussed as given by Bruner in Concept Attainment Model. The five elements of a concept (name, exemplar, attribute, attribute value and definition) may be emphasized.	
instructional objectives and specific instructional objectives in terms of behavioural outcomes.	Criteria for stating Instuctional Objectives in the behaviourist and Constructivist approaches may be emphasized.	
(TheBehaviourist approach) OR Stating 'curriculum objectives' in	Importance of selecting suitable learning experience for effective teaching may be emphasized.	
terms of concepts, process skills, strategies of instruction and evaluation. (The Constructivist approach) 4.	Selecting the appropriate evaluation procedure relevant to constructivist and behaviourist styles. (Constructivist approach requires testing of process skills as well as conceptual understanding)	
Planning suitable learning experiences according to objectives. Planning the procedures of evaluation	(23Hrs)	
according to objectives.		
	MODULE IV (12 Hours) Planning of instruction	
4.1 Objective based instruction – interdependence of objectives, learning experience, and evaluation.	4.1Teacher educator should emphasize how this triangular relationship is reflected in the planning of instruction.	4.1 Mohan, R (2007). Innovative science teaching for physical science. New Delhi: Prentice Hall.
4.2 Planning of Instruction - year plan, unit plan, resource unit	4.2 Meaning and characteristics of Year plan, Unit plan, Resource Unit. Format of Year plan and lesson plan produced in the SCERT hand Books may be adopted.	 4.2 Any appropriate text Book 4.3 Any appropriate text Book
4.3 Lesson planning – Need, Stages (Herbartian steps)	4.3 The sequencing of a lesson based on Herbartian steps has to be emphasized.	
4.4 Lesson planpreparation based on(1) The objective based	4.4 The Behaviourist format lesson plan may be prepared using the instructional objectives given by NCERT viz., Knowledge, Understanding,	4.4Mathew, T.K. & Mollykutty (2012) Science Education – Theoretical Bases of 278
		2/8

Behaviourist	application Shill Interact Attitude	Tasahing & Dadagagia
	application, Skill, Interest, Attitude,	Teaching & Pedagogic
format	Appreciation $(2+2+5=12)$ $Irrs)$	Analysis, Chengannur: Rainbow Publications
(2) The Constructivist	(2+3+2+5=12 Hrs)	Rainbow Publications
format		
	MODULE. V (10 Hours)	
	Evaluation in Science	
5.1 Evaluation - Different	5.1 Free response versus Fixed response.	5.1 Mohan, R (2007).
types of test	Objective type test item – supply type and	Innovative science
items - merits and	selection type.	teaching for physical
demerits.	Guidelines for preparation of true-false	science. New Delhi:
Construction and	type/multiple choice type/ completion type,	Prentice Hall.
administration of	matching type, simple recall etc.	
Achievement tests and	Short answer and essay type – characteristics,	Any appropriate text
Diagnostic tests.	guidelines for preparation, merits and demerits.	book
	Teacher made test versus standardized tests.	
	Differentiate achievement and diagnostic test.	
	Process of construction of both.	5.2 Any appropriate text book
	5.2 Meaning, Scope and Importance of CCE.	o o o n
5.2 Continuous and	Evaluation criteria (SCERT Hand book format	
Comprehensive	may be utilized)	
Evaluation, Evaluation		
Criteria for		
Assignment, Seminar and		
Project.		
110,000	5.3 Non Cognitive Domain – Objectives in	
5.3 Evaluation of Non	assessing, Difficulties in assessing, Assessment	5.3 Any appropriate text
Cognitive Areas	tools and techniques. (observation, inventories,	book on research
– Interest, Attitude and	attitude scales, performance tests etc)	methodology.
Skill	(5+2+3)	memodology.
Smit		

Process for EDU 141.PEDAGOGIC PRACTICES IN NATURAL SCIENCE

Process	Explanation	
Compare the two taxonomies in pictorial representation.	Instead of using meaningful sentences to describe and compare two things, we may use pictures involving, arrows, blocks, graphic designs or any other symbols to do the same task. (Eg. Edgar Dale's Cone of Experience summarizes the hierarchy of the effectiveness of learning experiences.)	
OR Identify any suitable content /topic that would emphasize the development of a particular process skill. (Do this for all the 13 skills and justify your selection)	Each student should prepare a report with three columns. The first column will list the 13 process skills. The second column will list 13 suitable topics - one against each process skill. The third column will provide 13 sentences of justification corresponding to the process skill-topic pair. (Justification regards to why the student has considered a topic emphasize the particular process skill.)	

Perform content analysis of a particular topic of 8th or 9th std Biology	The student should select a topic of 8 th or 9 th std Biology and go through length and breadth. Analyze the content into terms, facts, concepts, principles, laws, processes etc.
	First the student teacher will have to identify a suitable topic
OR Select a concept and formulate instructional objectives of all	which has significant inputs from cognitive, affective and psychomotor domains. Then at least two or three instructional objectives should be formally stated from each domain.
domains	objectives should be formally stated form each domain.
	Select a topic of Biology and prepare a lesson plan following Herbartian steps.
Prepare a comprehensive	
lesson plan following	
Herbartian Steps on a selected	
topic of Biology	Select a unit and prepare a Unit Plan OR Prepare a Year Plan
OR	based on 8 th std or 9 th std Biology text book
Prepare a Unit plan or Year	bubblion of station station biology text book
Plan	
Make sample test items corresponding to any three objectives (Bloom's taxonomy or Mc Cormack & Yager) that would go into an achievement	At first the student teacher should select a unit in Biology. Now he may decide upon any three instructional objectives either from one domain say cognitive or from different domains. And then he is supposed to make three questions pertinent to each instructional objective. This exercise shall convince the student teacher about the style-difference in framing questions with regard to different Instructional Objectives.
test	Select a concert in Diele av and moments test items of different
	Select a concept in Biology and prepare test items of different forms. (MCT, CT, MT, Short Answer, etc which test different
OR	objectives . Max.15 Questions
Prepare a question	
bank in Biology on a concept	
of your own choice.	Select a concept in Biology 8 th or 9 th std and analyse the learning task and prepare Diagnostic Test.Max 10 Questions
OR	
select a concept in Biology	
(8th or 9th) and prepare a Diagnostic Test	
Diagnostic 1651	

EDU 161.CURRICULUM AND RESOURCES OF NATURAL SCIENCE. Contact Hours:75 (Instruction)&15 Process Marks:50 (End Semester Examination)&10 (CE)		
MODULE I (20 Hours) Science Curriculum		
Content	Scope	Reference
1.1 Curriculum- A conceptual Analysis, Curriculum and Syllabus, Principles of Curriculum Construction.	1.1 Origin of the word – curriculum, The definition of curriculum and syllabus, Conceptual analysis may include deciding factors of curriculum like nature of subject matter, nature of society, nature of learner etc. A list of principles of curriculum construction may be discussed. The characteristics of an effective curriculum may also be discussed.	1.2 Any appropriate textbook1.2 Sivarajan, K & Faziluddin,A. (2005) <i>Science Education</i>.Calicut
 1.2 Approaches to curriculum organisation - Integrated, Disciplinary and Interdisciplinary Approach. Concentric and Spiral Approaach, Nature rambling, Nature study. 	1.2The approaches may be discussed with supporting examples.	University : Central Co- operative stores.
1.3 Concept of correlation - Systematic correlation of Natural Science within the subject and with other subjects in the curriculum such as mathematics, Physics, Chemistry, Languages, Geography, History, Earth Science, Drawing, Music and Craft. Incidental correlation achieved while teaching.	1.3Incidental and Systematic correlation may be discussed with sufficient examples. The difference between them may also be highlighted.	1.3 Joseph t. T., (1991) Modern Trends in Science Education, Kottayam: St Joseph Training College
1.4 Curriculum reforms abroad – BSCS Nuffield Foundation	1.4A comparative study of different versions of BSCS, may be attempted with reference to objectives, approaches and major instructional materials. Nuffield	1.4 Sivarajan, K & Faziluddin,A. (2005) <i>Science Education</i>.Calicut

	Science - characteristics. (8+ 4+4+4= 20 hrs)	University : Central Co- operative stores. Mohan, R (2007). <i>Innovative</i> <i>science teaching for physical</i> <i>science</i> . New Delhi: Prentice Hall.		
	MODULE II (10 Hours) The scientific method			
2.1 Scientific method – importance, steps involved in the scientific method,	2.1 Definition of scientific method and commonly followed steps of scientific method. The steps should be illustrated with a suitable example.	2.1 Sharma, R. C. (1985) <i>Modern science teaching</i> . New Delhi: Dhanpat Rai &, Sons. <u>http://www.freeinquiry.com/</u> intro-to-sci.html		
2.2Technical Aspects- Observation, Experiment, Data Collection	2.2 All logical elements are inferential processes which reveal the cause effect relationship. Characteristics of Observation and experiment.	2.4 Rajan K. M. , (1999), Perspectives in Physical Science Teaching, Kottayam: Vidyarthimithram.		
2.3 Corroboration and Falsification	Difference between observation and experiment may be emphasized. Procedures of data collection may be discussed. 2.3 Conceptual meaning of corroboration and falsification illustrated with examples. 2.4 Possibility of using systematic method	2.5 <u>http://www.godslasteraa</u> <u>r.org/</u> assets/ebooks/Gardner_A_Skep tical_ Look_at_Karl_Popper_sec.pdf <u>http://plato.stanford.edu/</u>		
2.4 Transfer value of Scientific Method, Strategies to give pupils training in Scientific method	of solving problems in day to day life situations. Strategies that can be employed by a science teacher to give training in scientific method may be discussed. (3+2+2+3 = 10 hrs)	entries/popper/ Popper, (2002) The Logic of Scientific Discovery, Routledge Publishers 2.4 Joseph t. T., (1991) Modern Trends in Science Education, Kottayam: St Joseph Training College		
MODULE III (10 Hours) Models of Teaching				
3.1Models of Teaching- common features of models-key concepts for describing models-four families- some typical models viz, Concept Attainment Model,	3.1Models of Teaching- Meaning, and orig common features of models-key concepts for describing models (syntax, Principles of reaction, Soci system, Supporting system, Effects) -Four families of model –rationale, Some typical models viz, Concept Attainment Model, Inquiry Training Model to be dealt with in	(1986) Models of Teaching, New Jersey: PHI		

Inquiry Training Model	of theory gymter. Dringinlag of reaction Social	
Inquiry Training Model	of theory, syntax, Principles of reaction, Social system, Supporting system, Effects etc.	
	MODULE IV (20 Hours)	l
	Resources in Teaching Science	
4.1 Resource materials in teaching Natural Science. Syllabus, Textbooks - Vogel's criteria of selection. Work Book, Teachers	4.1 Syllabus as a contract between teacher and students. Essential constituents of a syllabus. Science text book - Function, Characteristics, Vogel's Criteria for selection. Function and Characteristics/Merits of Work book, handbook, reference books and supplementary readers.	4.1 http://www.youtube.com /watch?v=T7xLD4XfqA w http://teachingcenter.wus tl.edu/ preparing-syllabus
handbook, reference books, supplementary readers.	4.2 Teaching Aids - Discussion on the most commonly used aids in science class. Criteria of selection. Improvised aids – characteristics, merits, value,	Sivarajan, K & Faziluddin, A. (2005) <i>Science Education</i> . Calicut
4.2 Teaching Aids, Improvised apparatus, Essential audiovisual aids. Biological drawings, specimens, video, power point presentation C.D. ROM such as Encyclopaedia Britannica,	and $-$ characteristics, ments, value, disadvantages. Science resources like video clips, animations, graphics etc available in CDs may be discussed. Students may explore the Cds for themselves. Evaluation of an educational CD with a suitable proforma. (10+ 10 = 20 hours)	University : Central Co- operative stores. 4.2 Mohan, R (2007). <i>Innovative science</i> <i>teaching for physical</i> <i>science</i> . New Delhi: Prentice Hall.
Microsoft Encarta, Edubuntu of it @school, kerala		
	MODULE. V (15 Hours)	
	Laboratory and Library	
5.1 Laboratory and its organization, purchase and maintenance of chemicals, apparatus and equipments.Live corners and musceum, Laboratory rules, pagidents in the	5.1 Science laboratory – design, organization, features of a good laboratory. Purchase of apparatus and chemicals, Registers to be maintained in a lab. General lab rules and discipline. Accidents and prevention. Precaution in storing chemicals. First aid. Aquarium, Vivarium, and Terrarium. Science Museum.	5.1 Mohan, R (2007). Innovative science teaching for physical science. New Delhi: Prentice Hall.
accidents in the laboratory, precautions and First Aid. 5.2 Science library and its organization.	5.2 Selecting good books for a science library. organizing a school science library.	5.2 http://www.librariananur udh.com/ images/LIBRARY-1- 99.pdf

5.3 Using internet for accessing information, Websites for authoritative information like ERIC, INFLIBNET etc.	 5.3 Familiarising with websites devoted for science teaching and learning. Refer "How the web will change the classroom" by Mohan, R.,(2007) ERIC as an online <u>digital library</u> of education research and information. INFLIBNET as network of library and information resources for research in particular subjects., N-LIST Programme. (8+3+4 = 15 hours) 	Mohan, R (2007).
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Process for EDU 161.CURRICULUM AND RESOURCES OF NATURAL SCIENCE

process	Explanation	
Compare the style of organization of curriculum of State and CBSE. principles of curriculum development selecting a single topic form State and CBSE syllabi.	This exercise is a qualitative judgment of a representative topic with regard to the principles of curriculum construction and organization of curriculum. A topic of sufficient length (may be a complete unit) has to be selected from Biology of state syllabus. And comparison should be made with similar topic from the CBSE syllabus. A report of comparison should be prepared. As the comparison is subjective it is quite natural that different individuals may come out with different viewpoints in their reports.	
OR Make a cartoon on the concept of using a correlation in the Classroom.	Prepare a cartoon on a selected Biologicalconcept being correlated with Physics, Chemistry (Group Work)	
OR Make a table of similarities and differences of any two of BSCS versions	The expected output is a two column report with similarities and differences of one version in the first column and that of the other version in the second column.	
OR Select a concept in Biology and correlate it with Physics, Chemistry and Geography	Select a Biological concept and correlate it with Physics, Chemistry and Geography	
Go through the biography of any two scientists and prepare profile to recognize the scientific method they used in	A two page report may be prepared and each student may prepare a profile of a different scientist.	

their pursuits. (To be done in groups of three or four.)	
Prepare a Concept Attainment Model or Inquiry Training Model lesson plan on any topic	Prepare a lesson transcript in CAM/ITM on any topic
in Biology. Rate a Higher secondary level	Any science text book (NCERT/ CBSE / written by any author) appropriate for higher secondary level reading may be taken for
text book in science according to Vogel's Criteria.	rating.
OR Make an improvised apparatus and contribute to a local school	The group of three may pre-decide on the improvised apparatus and come prepared to the class with required materials. Only one apparatus need be prepared in the group.
OR	Workbook is a booklet with practice problems, where the answers can be written directly in the book. The exercises/ problems should be of varied types incorporating all types of
Prepare a workbook on a unit of Biology in 8th or 9th std	questions followed by space to solve them. A small booklet of about 6 pages need be prepared by each student teacher.
Make a sample stock register	Make a small sample register with about 20 items. One may choose any one of permanent stock register, stock register of breakables, stock register of consumables, order register or a requirement register.
for the laboratory of your own	requirement register.
college.	Each student shall arrange and label the apparatus/ reagents/ chemicals of one shelf of the science lab in the teacher education
OR Arrange one shelf of the lab	institution.
and label properly OR	
Update the stock register/ make a mock register with few	
items	Prepare an accession register with minimum essential details of 20 science books.
OR Prepare the list of at least 20	
science books in the library	
and prepare an accession register for the same.	Prepare a catalogue in excel or any other spread sheet of any 20 books.
OR Catalogue the 20 heals and	
Catalogue the 20 books and make a computer data base of	
it.(Including author, title, key words and other necessary	
details) Suggest any one science book	
to the library with all necessary	

details of publisher author etc.	
OR	Prepare a list of 5 science journals with all necessary details.
Suggest any journals in	
Science with publication that	
can be subscribed in our	
school	

EDU 181.PROFESSIONALISING NATURAL SCIENCE EDUCATION Contact Hours:75 (Instruction)&15 Process				
	Marks:50 (End Semester Examination)&10 (CE)			
MODULE I (15 Hours) Science and Society				
	Science and Sciency			
Content	Scope	Reference		
1.1 Science as a social Endeavor; Scientific Literacy, Dual role of science (emancipatory and oppressive).	1.2 Science as a social endeavor- Science as a human enterprise. Scientific literacy —meaning/definition. Characteristics of scientifically literate Dual role of science (emancipatory and oppressive). Using science as a tool for oppression — Dark Ages (science in the middle Ages) Science as tool for educating and uplifting masses.	1.1 <u>http://www.scientificlite</u> racy.org/aboutus.htm <u>http://www.curriculumsupport.e</u> <u>d</u> ucation.nsw.gov.au/investigate/i ndex.htm		
1.2 The Science Teacher and Society.Role of science teacher in eradicating misconceptions and superstitions in	1.2Science as a tool for fighting superstitions, fostering logical thinking and instilling scientific outlook in life.Non-formal Science Education	1.2 Alsop, S. & Hicks, K.(2003)Teaching science. New Delhi: Kogan page India Private Ltd.		
Society. Non-formal Science Education. 1.3 Science and Technology, complementarities between Science and Technology	1.3Difference between science and technology. Significance and relevance of both. Discussion on how both complement for the progress of humanity. (5+5+5 = 15 hours)	1.3 Any appropriate text book		
MODULE II (18 Hours) Co-curricular activities in Science				
2.1 Co-curricular activities - organization of field trips and study tours, their importance.	2.1. Co-curricular activities need and significance-Fieldtrip and study tour, Meaning – importance/merits/values, steps of organizing.	2.1 Rajan K. M. , (1999), Perspectives in Physical Science Teaching, Kottayam: Vidyarthimithram.		

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Science Club - its pattern, organization and activities such as science fairs, science exhibition, science debates. 2.2 Experimental projects, nature rambling, nature calendar	 Science Club – Objectives, Organisation, list of activities conducted by Science Club. Science Fair, Science exhibition, and science debates – Objectives, steps of organizing. 2.2 Experimental projects/ investigatory project, Nature rambling, Nature calendar (6+8+4 = 18 hours) 	(2005) Calicu Univer operati Ahmad Biolog PHI Pv 2.2 Ah of Bi delhi: Sivara (2005) Calicu	t rsity : Central Co- ive stores. d J., (2009) Teaching of gical Sciences. New delhi: vt Ltd. nmad J., (2009) Teaching ological Sciences. New PHI Pvt Ltd. jan, K & Faziluddin, A. <i>Science Education.</i> t University : Central Co-
		operati	ive stores.
	MODULE III (10 Hours)		
	Gifted Students in Science		
3.1 Identifying and	3.1Characteristics of Scientifically	gifted	Sivarajan, K &
nurturing the gifted	children. Measures to nurture scientific	talent.	Faziluddin, A. (2005)
children. Creativity and		Creativity in science-ways to foster. critical Science Education	
Critical	thinking in science		Calicut University :
thinking.			Central Co-operative
			1
3.2 NSTS(National			stores.
Science Talent	3.2 NSTS- objectives, procedure, Olympiac	ł	
Search)	(7+3= 10 hours)		
	MODULE IV (10 Hours)		
	Use of computer in Teaching		
4.1 Computer Assisted	4.1 Use of computers in teaching – as supported as supported as the support of th		4.1 Any appropriate text
Instruction,	and as a teaching machine. Human Teacher	· _	in educational
Programmed Learning-	merits and draw backs.		technology.
Expert System, Module propagation for E	Expert System as the major component of		
Module preparation for E-	Intelligent tutoring systems,		
content Development,			
	4.2 Course ware – Meaning, Free Softwar	re's in	4.2 Appropriate net
4.2 Course ware, Free	Science - a list of useful softwares and thei		resources
Software's in	functions.		
Science.			
	4.3 Moodle – philosophy, pedagogy,	usage,	4.3 <u>http://docs.moodle.or</u>
4.3Learning Management	moodle site-basic structure, key terms as gi	ven in	g/23/en/About_Moodle
L	· · · ·		

Systems –MOODLE	the moodle website. (5+3+2 = 10 hours)		
MODULE. V (22 Hours) Professional Science Teacher			
5.1 Definition of profession, Teaching as a profession.	5.1Profession – definition. Characteristics of a profession, who is a professional teacher?	5.1 Mohan R., (2011) Teacher Education, NEWdELHI: PHI Learning	
5.2 Traits of professionalism, Professional ethics, Teacher Competencies listed by NCTE	5.2 Professional Ethics – Code of ethics as given by NCTE. Professional elements(traits). Teacher competencies listed by NCTE.	Pvt Ltd.	
5.3 Soft Skills	5.3 Soft skills – meaning, significance in teaching. Essential soft skills in teaching like leadership skills, communication skills, time management skills, team skills, event	5.2 Appropriate internet resources.	
5.3 Professional growth of Science teacher. – Teaching , Research and Extension. Research journals in Science and Science Education. Role of SCERT and NCERT in the professional growth of a teacher. Professional	management skills etc. Professional growth of science teacher – teaching research and extension. Improving professional ism by in service courses. Role of SCERT and NCERT in the professional growthof a teacher.Professional organizationsof teachers. Research Journals in Science – A list of.	 5.3 Mohan R., (2011) Teacher Education, NEWdELHI: PHI Learning Pvt Ltd. 5.4 Appropriate internet resources. 	
organizations of teachers. 5.4 Internet resources and websites for professional growth of a science teachers	 5.4 A list of internet resources and websites For the professional growth of science teacher. (8+4+5+5 = 22 hours) 		

Process for EDU 181. PROFESSIONALISING NATURAL SCIENCE EDUCATION

process	Explanation	
Make a /short film/very short documentary/ puppetry for linking science with society	A two or three minute project with a story line may be attempted. Marks shall be awarded only for (1) the story board out line and (2) the novelty and originality of the idea contained. (Short film/multimedia package /documentary may be attempted with small mobile camera).	
OR Practice a theatre education,	Prepare a dramatic script on a theme popularizing science among public in group and enact / stage. Creative script writing is assessed and enacting appreciated.	
role playing, street show, or any art form to popularize Science among public.	any five misconcepts in Biology of High School children.	
OR List any five misconcepts in science of High School children	manifest a scientific hobby	
manifest a scientific hobby		
Conduct a debate on any biological issue. OR Prepare an action plan to make a	Select a biological issue for debate by two groups of the class.	
campaign on eradication of disease.	Study the disease and prevention measures to be adopted. Make an action plan including the target group, mode of intervention, message to be conveyed and supply materials if any.	
Prepare a poster in groups of five highlighting the importance of scientific Method.	The poster should be prepared on a chart paper. The poster should illustrate the message / theme/ principle with minimum words. Typically posters include both textual and graphic elements. Posters are designed to be both eye-catching and informative. For tips visit http://online.physics.uiuc.edu/courses/phys596/fall11/Lectures/ScientificPosterTips_FA11.pdf	
OR	Prepare an enrichment material on a biological concept for gifted students of standard 9.	
prepare an enrichment material on a concept in Biology for gifted students of	Prepare an evaluation tool to identify gifted students in science.	
9th std OR	Construct a linear program in electronic form with 10 frames on a simple concept in Biology.	
Prepare an evaluation tool to identify gifted students in science	Select an appropriate concept in Biology and develop an e-content with provision for graphics/text/ question answer sessions etc.	
Construct a linear Programme inelectronic form (at least 10 frames) on a simple concept inBiology OR		
Write a script on a concept in biology for its E-content development		
Arrange a seminar in science in the college for popularizing scientific outlook. OR Prepare a review of a research based article on Education from INFLIBNET or ERIC	The seminar should have a student teacher as moderator and four or five student teachers should present papers on the theme of popularizing scientific outlook among the public. All other teacher educators who listen to the seminar shall prepare their own notes compiling the proceedings of the seminar. Marks shall be awarded for moderating/presenting the paper/compiling the proceedings.	
OR Conduct a discussion in the	Arrange a seminar in sciencein the college for popularizingscientific outlook.	
class on the changing role of teachers	First the full text of a research article in Physics/ Chemistry should be retrieved from any e journal. A number of e journals are available with full text option through the N –LIST programme of INFLIBNET. Most of the colleges subscribe to the NLIST programme which is accessed through internet.	

Re structuring of Curriculum-2012 Credit Based Semester and Grading System

HANDBOOK FOR TEACHER EDUCATORS (MALAYALAM)

Programme: Bachelor of Education (B Ed) With effect from 2012-13 Academic Year

> BOARD OF STUDIES EDUCATION (UG)

> > 290

METHODOLOGY OF TEACHING MALAYALAM

0	TOPIC	SCOPE OF CONTENT	REFERENCE	
B				
1	മലയാള ഭാഷയുടെ വികാസ പരിണാമങ്ങൾ. ഭാഷയുടെ സ്ഥിതി വിവിധ കാലഘട്ടങ്ങളിൽ.	ഭാഷ എന്നാൽ എന്ത്. ഭാഷയുടെ ധർമ്മം സാമാന്യമായി. ഭാഷാഗോത്ര സങ്കല്പം. പാട്ട് ഘട്ടം–(തമിഴുമായുള്ള ബന്ധം). മണിപ്രവാള ഘട്ടം. ആദ്യ കാല ഗദ്യ രീതികൾ (ശാസനങ്ങൾ, നമ്പ്യാൻ തമിഴ്,ഭാഷാ കൗടിലീയം,മിഷനറി മലയാളം,ആധുനിക മലയാളം,	ദ്രാവിഡഭാഷകൾ –എം.എസ്.ആന്ദ്ര നൊവ്. സാഹിത്യ ചരിത്രം പ്രസ്ഥാനങ്ങ ളിലൂടെ. പ്രാചീനമലയാളം –പുതുശ്ശേരി രാമചന്ദ്രൻ കേരള ഭാഷയുടെ വികാസപരിണാമങ്ങൾ–ഇളം കളം. ക്രിസ്ത്യാനികളും മലയാളസാഹിത്യ വും–ചർച്ചയും പൂരണവും–ഡോ.സ്കറിയ സക്കറിയ	
	ഭാഷയുടെ സാമൂഹിക ധർമ്മം	തുടങ്ങിയ കാര്യങ്ങൾ). സാമൂഹിക ഇടപെടലിന്രം ആശയ വിനിമയത്തിന്രംഭാഷയുടെ അനിവാര്യത.	നമ്മുടെ ഭാഷ– ഇ.എം.എസ്. നമ്പൂതിരിപ്പാട്. കൈരളിയുടെ കഥ കേരളത്തിന്റെ സംസ്കാരിക ചരിത്രം–പി.കെ. ഗോപാലക്രിഷ്ണൻ അധ്വാനം,	
	ഭാഷയും സാമൂഹിക വികസനവും	സാമൂഹിക വികസനവും ഭാഷാവികസനവും പരസ്പര പൂരകമായി നിലനിൽക്കുന്നു (ജാതി, മതം, സമുദായം, പ്രദേശം, തൊഴിൽ, സാമ്പത്തിക സ്ഥിതി, വിദ്യാഭ്യാസം, സമൂഹത്തിലെ സ്ഥാനം,ആചാരങ്ങൾ,ജീവിതരീതികൾ, എന്നിവ ഭാഷയെയും സാമൂഹിക വളർച്ചയേയും സ്വാധീനിക്കുന്നു).	ഭാഷ,വിമോചനം–പി.ശ്രീക്ഷമാർ.	
2	സംസ്കാര രൂപീകരണത്തിൽ മാത്രു ഭാഷയുടെ സ്വാധീനം ജനാധിപത്യ സമൂഹത്തിൽ മാത്രുഭാഷയുടെ പ്രസക്തി മാത്രുഭാഷ ബോധന മാധ്യമമെന്ന നിലയിൽ മലയാളഭാഷ ഔദ്യോഗിക ഭാഷ എന്ന നിലയിൽ	ഒരു ജനതയുടെ സംസ്കാരം രൂപപ്പെടുന്നതിലും തലമുറകളിലേക്ക് വിനിമയം ചെയ്യുന്നതിലും മാത്രുഭാഷ വഹിക്കുന്ന പങ്ക്–പരസ്പര ബന്ധം. ജനാധിപത്യ പ്രക്രിയയിൽ പങ്കെടുക്കുന്നതിലും ജനാധിപത്യം ശക്തിപ്പെടുത്തുന്നതിലും മാത്രുഭാഷ വഹിക്കുന്ന പങ്ക്. മാത്രൂഭാഷ ബോധന മാധ്യമമാവുമ്പോൾആശയ ഗ്രഹണം,വിനിമയം, ചിന്താപ്രക്രിയ എന്നിവയുടെ സാധ്യത വർധിക്കുന്നം.ആത്മ വിശ്വാസം വളരുന്നം. അതുവഴി അധ്യയനം എളുപ്പമാകുന്നം.വിശദമായി ചർച്ച ചെയ്യണം. മാത്രുഭാഷ ഔദ്യോഗിക ഭാഷയാവുമ്പോൾ പൗരന്റെ അവകാശങ്ങൾ ഉറപ്പുവരുത്തുന്നതിന്രം അതുവഴി ജനാധിപത്യ പ്രക്രിയയിൽ പങ്കെടുക്കുന്നതിനും അത് ശക്തിപ്പെടുത്തുന്നതിനും കഴിയുന്നു.	കേരളത്തിന്റെ സാംസ്കാരിക ചരിത്രം. നമ്മുടെ ഭാഷ	
3	ഭാഷയിലെ ശൈലികൾ, പഴഞ്ചൊല്ലുകൾ, നാട്ടറിവുകൾ, നാടോടി കലകൾ എന്നിവക്ക് സാംസ്കാരിക	നാടൻ കലകൾ, നാട്ടറിവുകൾ, ഭാഷയിലെ ശൈലികൾ, പഴഞ്ചൊല്ലുകൾ, എന്നിവ നമ്മുടെ സംസ്കാരവുമായി ഏതെല്ലം വിധത്തിൽ ബന്ധപ്പെട്ടുകിടക്കുന്നു.	കേരളത്തിലെ നാടൻ കലകൾ –ഏ.കെ.നമ്പ്യാർ നമ്മുടെ നാടൻ പാട്ടുകളുംകല കളും–പ്രേംനാഥ് സംസാരഭാഷ തെക്കും വടക്കും– ഫിലിപ് മണിമല. കേരള ഭാഷാഗാന ങ്ങൾ–ചിറക്കൽ	

	വികസനവുമായുള്ള ബന്ധം. ഭാഷയുടെ വികസനത്തിൽ നാട്ടറിവുകൾ, നാടോടി കലകൾ എന്നിവക്കുള്ള പങ്ക്.	നാട്ടറിവുകളും നാടോടി കലകളും ഒട്ടേറെ പദങ്ങളും ശൈലികളൂം പ്രയോഗങ്ങളും നമ്മുടെ ഭാഷക്ക് സംഭാവന ചെയ്തിട്ടുണ്ട്.	ബാലക്രിഷ്ണൻ നായർ. കേരളത്തിലെ നാടോടി വിജ്ഞാ നീയത്തിനൊരു മുഖവുര–വിഷ്ഞ നമ്പൂതിരി. ഫോക്ലോർ നിഘണ്ടു–വിഷ്ഞ നമ്പൂതിരി
4	സംസ്ക്രുതം, അറബിക്,ഇംഗ്ലീഷ്,എ ന്നീഭാഷകളു മായുണ്ടായ ബന്ധം വഴി മലയാള ഭാഷയിലും സംസ്കാരത്തിലു മുണ്ടായ മാറ്റം. ഒരു സംസ്കാരിക ഉപകരണം എന്ന നിലയിൽ ഇംഗ്ലീഷ്,സംസ്ക്രുതം എന്നീഭാഷകൾ മലയാള ഭാഷക്കം സംസ്കാരത്തിന്മം മേൽ നടത്തിയ അധിനിവേശം.	അറബിക്,സംസ്ക്രുതം, ഇംഗ്ലീഷ് എന്നീ ഭാഷകളുമായി മലയാള ഭാഷക്കണ്ടായ ബന്ധം വഴി ഭാഷാ പദ സമ്പത്തിലും ശൈലിയിലും പ്രയോഗ രീതിയിലും സാഹിത്യ രചനാ രീതിയിലും ആസ്വാദനത്തിലും ജീവിത രീതിയിലും പെരുമാറ്റത്തിലും കലകളിലും മറ്റും വന്ന മാറ്റങ്ങൾ ചർച്ച ചെയ്യണം. സംസ്ക്രുതം, ഇംഗ്ലീഷ് എന്നീ ഭാഷകളുമായുണ്ടായ നിരന്തര ബന്ധം ആ ഭാഷകൾക്ക് മലയാളത്തിന്റെ മേൽ വലിയ മേൽക്കെ നേടാൻ ഇടയാക്കി. ഒപ്പം വികസിത ഭാഷകൾ എന്ന നിലയിലും അധികാര ഭാഷ എന്നനിലയിലും ആ ഭാഷകൾ അധിനിവേശ സ്വഭാവം വെച്ചു പുലർത്തി.സാഹിത്യ സമ്പത്തിലും പ്രസ്തുത ഭാഷകൾക്ക് മേൽക്കൈ ഉണ്ടായിരുന്നം.	കൈരളിയുടെ കഥ കേരളപാണിനീയം. സാഹിത്യചരിത്രം പ്രസ്ഥാനങ്ങളി ലൂടെ. മലയാളഭാഷയുടെ വികാസപരിണാമങ്ങൾ
5	ഭാഷാവികസനത്തിൽ അടിസ്ഥാന ഭാഷാശേഷികളുടെ പ്രാധാന്യം . ഓരോ തലത്തിലും നല്കുന്ന പ്രവർത്തനങ്ങളും വിനിമയ തന്ത്രങ്ങളും–അധ്യയന പ്രക്രിയകളും	ഭാഷാവികസന പ്രക്രിയയിൽ ഓരോ അടിസ്ഥാന ഭാഷാശേഷിയുടെയും പ്രാധാന്യവും പരസ്പര ബന്ധവും ഭാഷാശേഷീവികസനവുമായി ബന്ധപ്പെട്ട് പ്രൈമറി തലം മുതൽ ഓരോ ഘട്ടത്തിലും നൽകന്ന പ്രവർത്തനങ്ങളും വിനിമയ തന്ത്രങ്ങളും–അധ്യയനപ്രക്രിയകൾ – ശേഷീ വികസനത്തിനുള്ള തടസ്സങ്ങൾ–കാരണങ്ങൾ–അവ പരിഹരിക്കുന്നതിനുള്ള മാർഗങ്ങൾ–ബോധനോപകരണങ്ങൾ ഉപയോഗപ്പെടുത്തൽ	Key concepts in Language and Linguistics-RL Trask Language and Language Learning. Language Teaching- A Scientific Approach. Language Teaching Games and Contexts. Language and Instruction. Teaching of Indian Languages- Positionpaper-NCF(2005) മാത്രൂഭാഷാ ബോധനം:പ്രവണതകളും രീതികളും. മലയാളഭാഷാധ്യാ പനം.മാത്രൂഭാഷാ ബോധനം
6	ദൈനംദിന ജീവിതത്തിൽ വ്യവഹാര രൂപങ്ങളുടെ പ്രാധാന്യം. ഫലപ്രദമായ ആശയ വിനിമയത്തിൽ	ആശയ വിനിമയ പ്രക്രിയയിൽ വ്യവഹാര രൂപങ്ങൾക്കുള്ള സ്ഥാനം. ദൈനംദിന ജീവിതത്തിൽ ആശയവിനിമയത്തിനായി ഉപയോഗപ്പെടുത്തുന്ന വ്യവഹാര രൂപങ്ങൾ പട്ടികപ്പെടുത്തൽ ഓരോ വ്യവഹാരരൂപത്തിന്റെയും ജീവിതത്തിലെ ഉപയോഗ സന്ദർഭങ്ങൾ കണ്ടെത്തൽ –	Key concepts in Language and Linguistics-R.L. Trask. The Language Instinct-Steven Pinker. Theory of Second Language Acquisition-Steven Krashen. Principles and Practice in Second Language Acquisition-Krashen. Second language acquisition and second Language Learning-krashen

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വ വ	പ്യവഹാര രൂപങ്ങൾ പഹിക്കുന്ന പങ്ക്	ഓരോ വ്യവഹാര രൂപത്തിന്റെയും രൂപ ഘടന– വ്യവഹാര രൂപങ്ങളുടെ രചനാ പരിശീലനം–പാഠഭാഗ സന്ദർഭങ്ങൽ കണ്ടെത്തൽ– രചനകളെ വിലയിരുത്താനള്ള സൂചകങ്ങൾ രൂപീകരിക്കൽ	Kerala Curriculum Frame work,2007
, ມ – ເບ ເ ເ ເ ເ ເ ເ ເ ເ ເ ເ ເ ເ ເ ເ ເ ເ ເ	പസംഗ രീതി, പദർശന രീതി, ആഗമ നിഗമന രീതികൾ, ധാൾട്ടൻ പ്ലാൻ, പ്രോജക്റ്റ് രീതി, കളി രീതി, അന്മകരണ നീതി, സഹകരണ – സഹവർത്തിത ീതികൾ, പ്രശ്ന പരിഹരണ ീതി	ഓരോ രീതിയും വിശദമായി പരിചയപ്പെടുത്തണം. ഓരോ രീതിയുടെയും സവിശേഷതകൾ,സമീപനം,ഘട്ടങ്ങൾ , ഓരോ രീതിയും പ്രയോഗിക്കുന്ന സന്ദർഭങ്ങൾ, വിലയിരുത്തൽ സൂചകങ്ങൾ എന്നിവ ചർച്ച ചെയ്യണം. ഓരോ രീതിയും പ്രയോഗിക്കാവുന്ന പഠന സന്ദർഭങ്ങൾ കണ്ടെത്തി ആസൂത്രണം ചെയ്യണം	Style of Learning and Teaching Language and Instruction. Improving Second Language Education-Bilash. Methods and Strategies of teaching- Jerrin Isac
8 ഇ വ ശ ന ന ന ന ദ ന വ വ വ ന	പംപം ഞാന നിർമ്മിതി പാദം (പിയാഷെ, ബൂണർ), സാമൂഹ്യ ജ്ഞാന റിർമ്മിതി വാദം വിഗോട്സ്കി), നാം ചോസ്കിയുടെ ാഷാ വികസന സിദ്ധാന്തം, ലിട്ടിക്കൽ പഡഗോഗി, പ്യവഹാര ന:ശാസ്ത്രം, പിദ്യാലയങ്ങളിൽ നടപ്പാക്കുന്ന പുതിയ റ്റങ്ങൾ	ഒാരോ രീതിയുടെയും ത്വാത്വിക അടിത്തറ പരിചയപ്പെടുക –സാധൃതകളും പരിമിതികളും കണ്ടെത്തുക– പ്രയോഗ രീതികൾ ആവിഷ്കരിക്കക– ഉചിതമായ പാഠങ്ങൾ കണ്ടെത്തുക– ഉദ്ഗ്രഥന സാധൃതകൾ കണ്ടെത്തുക– ഉദ്ഗ്രഥന സാധൃതകൾ കണ്ടെത്തുക– വരീഷിക്കക–ചർച്ച ചെയ്യുക–സാധൃതകളും പരിമിതികളും കണ്ടെത്തുക	Constructivist Approaches to Teaching and Learning-NCERT. Review of Skinners verbal Behavior-chomsky. Knowledge of Language-chomsky. Muiltiple Intelligencesthe Theory and Practice-Gardner. Pedogogical psychology-vygotsky. Thought and language –Vygotsky. The Moral Judgment of the Child- Piaget. Science of Education and the Psychology –Piaget. Acquisition of Syntaxz in Children from 5-10-Chomsky. Language and Mind-Chomsky. Reflections on Language _Chomsky. Chomsky's Universal Grammer- Cooks.v. Child's Talk:Learning to Use Language-Bruner. Process of Education-Bruner. Emotional Intelligence-Goleman,D. Language Acquisition:in foundations of Cogniotive Science- Pinker,S. Thought and language-vygotsky.

	ചിന്തകർ–പി.വി.പുരുഷോത്തമൻ. വിഗോട്സ്കിയും വിദ്യാഭ്യാസവും–പി.വി.പുരുഷോത്തമൻ. മർദ്ദിതരുടെ ബോധനശാസ്ത്രം–പൗലൊ ഫ്രെയർ. വിദ്യാഭ്യാസത്തിന്റെ രാഷ്ട്രീയം–പൗലൊ ഫ്രെയർ.
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	PEDAGOGIC PRACTICES IN MALAYALAM			
OB	ΤΟΡΙϹ	SCOPE OF CONTENT	REFERENCE	
1	ഭാഷാ ബോധന ലക്ഷ്യങ്ങൾ.	ഭാഷാദ്ധ്യാപനത്തിന്റെ പൊതുവായ ലക്ഷ്യങ്ങളും സവിശേഷമായ ലക്ഷ്യങ്ങളും ചർച്ചചെയ്യണം.	Teaching of Indian Languages: Position Paper National Curriculum Frame Work,2005.	
	സെക്കന്ററി തലത്തിലെ ഭാഷാ ബോധന ഉദ്ദേശ്യങ്ങൾ.	സെക്കന്ററി തലത്തിലെ ഭാഷാദ്ധ്യാപന ഉദ്ദേശ്യങ്ങൾ വിശദമായി ചർച്ചചെയ്യണം.	Taxonomy of Educational objectives-Bloom.s. Kerala Curriculam Frame	
	ബെഞ്ചമിൻ ബ്ലൂമിന്റെ ടാക്സോണമി.	ബെഞ്ചമിൻ ബ്ലൂമിന്റെ ടാക്സോണമിയെ ആധാരമാക്കിയുള്ള ഭാഷാദ്ധ്യാപന ഉദ്ദേശ്യങ്ങൾ (ബൗദ്ധിക–വൈകാരിക–ശാരീരിക ചലനപര മേഖലകൾ) മുഴുവൻ ചർച്ചചെയ്യണം.	Work,2007.	
	വൈജ്ഞാനിക പഠന സിദ്ധാന്തങ്ങളുടെ അടിസ്ഥാനത്തിലുള്ള പഠനോദ്ദേശ്യങ്ങൾ.	പാനത്തിലെ മാനസിക പ്രക്രിയ ചർച്ച ചെയ്യണം.		
2	സൂക്ഷ്മ നിലവാര ബോധനം	സൂക്ഷ്മ നിലവാര ബോധനം–നിർവ്വചനം–തത്വങ്ങൾ	Models of teaching-Joyce,B and Weil.M	
		ബോധന പ്രക്രിയയിലെ അടിസ്ഥാന ശേഷികൾ		
		സൂക്ഷ്മ നിലവാര ബോധന പ്രക്രിയയുടെ ചാക്രികത		
		സൂക്ഷ്മ നിലവാര ബോധനത്തിന്റെ പരിമിതികൾ		
		ശേഷികളുടെ ഉദ്ഗ്രഥനം –ആസൂത്രണം		
3	പാഠഭാഗത്തിന്റെ ബോധന ശാസ്ത്രപരമായ വിശകലനം.	ബോധന ശാസ്ത്രപരമായ പാo വിശകലനം.	അധ്യാപകന്റെ കൈപ്പുസ്തകം–8,9,10,&11 ക്ലാസുകൾ (SCERT,Kerala)	
	വിശകലനത്തിന്റെ അർഥവും ഘട്ടങ്ങളും.	പാo വിശകലനത്തിന്റെ ആവശ്യകത–വിശകലന ഘട്ടങ്ങൾ		

		ഉദാഹരണ സഹിതം.	
	പാ0 ഭാഗ വിശകലനം	ഏതെങ്കിലും ഒരു പാo ഭാഗം പൊതുവായ ചർച്ചയിലൂടെ വിശകലനം ചെയ്യുന്നു (ഭാഷാതലം, ആശയതലം,സാമൂഹികതലം,സർഗാ ത്മകതലം).	പാഠപുസ്തകങ്ങൾ (scert,Kerala)
		നിശ്ചിത ബോധനോദ്ദേശ്യങ്ങലുടെ അടിസ്ഥാനത്തിൽ 8,9,11 ക്ലാസുകളിലെ ഏതെങ്കിലും പാoപുസ്തകത്തിലും അദ്ധ്യാപക സഹായിയിലും ഉൾപ്പെടുത്തിയിട്ടുള്ള പoന പ്രവർത്തനങ്ങൾ കുട്ടികൾ പരിശോധിക്കണം.	
4	കുട്ടിയുടെ	കുട്ടിയുടെ മാനസിക, വൈകാരിക,	A text book of Cognitive
•	ശാരീരിക–മാനസിക–	ശാരീരിക ,സാമൂഹിക പ്രക്രുതം	psychology,Asch,M.A
	വൈകാരിക–സാമൂഹിക പ്രക്രുതം.	തിരിച്ചറിയുക.	Social Psychology-Baron.A
	ເຕັ້າເພິ່ງເທດ.		Robert.
	പഠന പ്രവർത്തനത്തിന്റെ	പഠന പ്രവർത്തനത്തിന്റെ	Emotional Intelligence.Daniel
	സവിശേഷതകൾ.	സവിശേഷതകൾ ചർച്ച ചെയ്യണം	Goleman. മസ്തിഷ്കവും
	ഭാഷാ ക്ലാസിന്റെ സവിശേഷത.	മറ്റു ക്ലാസുകളിൽ നിന്നും	മനസ്സും–ഡോ.സി.എൻ.പരമേശ്വരൻ. മസ്തിഷ്ക ഭാഷ:പ്രസക്തി
		വ്യത്യസ്ഥമായി ഭാഷാ ക്ലാസിന്റെ	യുറപ്രയോഗ
		സ്വിശേഷത.	വും–സുജാ റാണി മാത്യൂ. മലയാള
	പഠനത്തിന്റേയും പഠന തന്ത്രത്തിന്റേയും സ്വഭാവം	പഠനത്തിന്റേയും പഠന തന്ത്രത്തിന്റേയും സ്വഭാവം ചർച്ച	ഭാഷാപ്ഠനം:വെല്ലുവിളികളും പ്രതിസന്ധികളും–ഡോ.പി.കെ. തിലക്
	ഭാഷാപഠനക്ലാസിൽ അദ്ധ്യാപകന്റെ സ്ഥാനം.	ചെയ്യണം	വിദ്യാഭ്യാസം സർഗാത്മക ജീവിതത്തിന്ര–ത്സുനേസാബു മരം മോറിഡംജി
	, i i i i i i i i i i i i i i i i i i i	ഭാഷാപഠനക്ലാസിൽ അദ്ധ്യാപകന്റെ	രോ മാകിഗുഷി. തുറന്നക്ലാസ്സുമുറി–കെ.ടി.
	ഭാഷാപഠനക്ലാസിൽ വിദ്യാർഥിയുടെ സ്ഥാനം.	യും വിദ്യാർ്ഥിയുടെ സ്ഥാനം.	മാർഗരറ്റ്. താങ്ങാവുന്ന വിദ്യാഭ്യാസം–
	ഭാഷാ പഠനത്തിന്ദ	സ്വന്തം ക്ലാസുമുറി ഭാവനയിൽ	ഗോപാലക്രുഷ്ണന്തംവിജയ
	ജനാധിപത്യോചിതമായ	രൂപപ്പെടുത്തുന്നതിലേക്ക് കുട്ടികളെ	ലക്ഷ്മിയും. അന്യോജ്യ വിദ്യാഭ്യാസം–
	സാഹചര്യമൊര് ക്ങ	ന്യിക്കണം.	കെ.ബഷീർ
	ന്നതിനുള്ള തന്ത്രം.	ജനാധിപത്വ കാന്സമാറിന്നുടെ	ടോടോചാൻ.
		ജനാധിപത്യ ക്ലാസുമുറിയുടെ സവിശേഷതകൾ ചർച്ചയിലൂടെ	ജനായത്ത വിദ്യാലയങ്ങൾ–മൈക്കിൽ
		രൂപപ്പെട്ടു വരണം.	ആപ്പിൾ&ജെയിംസ് എ.ബീൻ.
		ഭാഷാ പഠനത്തിന ജനാധിപത്യോചിതമായ	ദിവാസ്വപ്നം–
		ജനാധമത്യോചതമായ സാഹചര്യമൊരുക്കുന്നതിനുള്ള	ഗിജുബായി National aurioulum frama
	നല്ലൂ പഠനപ്രവത്തനത്തി	തന്ത്രംരൂപപ്പെടുത്തണം	National curriculum frame work,2005.
	ന്റെ സവിശേഷത (താലരം ജനകം		Kerala curriculam frame
	(താല്പര്യ ജനകം, ആവശ്യ	ഒരു പഠന	work,2007
	ബോധമുണർത്തുന്നത്,	പ്രവർത്തനത്തിനുണ്ടാകേണ്ടുന്ന സവ	
	വെല്ലുവിളി സെർത്തുന്നത്	ിശേഷത (താല്പര്യ ജനകം, ആവശ്യ ബേഡ്യാണർത്തുന്നത് ചെവ്വാപിളി	
	ഉയർത്തുന്നത്, കുട്ടികളുടെ വ്യത്യസ്ഥ	ബോധമുണർത്തുന്നത്, വെല്ലുവിളി ഉയർത്തുന്നത്, കട്ടികളുടെ വ്യത്യസ്ഥ	
	നിലവാരം	നിലവാരം	
	പരിഗണിക്കുന്നത്)	പരിഗണിക്കുന്നത്)പരിഗണിച്ചുകൊണ്ട്	

		പാഠാസൂത്രണം	
		നടത്തുന്നതെങ്ങനെയെന്നുള്ള ചർച്ച	
		നടക്കണം	
5	ആസൂത്രണത്തിന്റെ	വാർഷിക– സമഗ്ര–ദൈനംദിന	Teachers Hand Book,std
	പ്രാധാന്യം	ആസൂത്രണം എന്ത്, എന്തിന്ര.	8,9,10,&11,NCERT,Kerala,
	വാർഷികാസൂത്രണം,	യൂണിറ്റ് സമഗ്രാസൂത്രണത്തിന്റെ	KCF,2007,SCERT,Kerala.
	യൂണിറ്റ്	പ്രസക്തി എന്ത്	
	സ്മഗ്രാ്സൂത്രണം,		
	ദൈനംദിനാസൂത്രണം	ആധുനിക പഠന –മന:ശാസ്ത്ര	Constructivism:theory,perspective
	എന്നിവയുടെ	സിദ്ധന്തങ്ങളുടെ(സാമൂഹിക ജ്ഞാന	
	സൈദ്ധാന്തികാടിത്തറയു	നിർമ്മിതിവാദ്ം, വിമർശനാത്മക	,and practice-Fosnot,c.
	ം തന്ത്രങ്ങളും.	ബോധനം, ഭാഷാസമഗ്രതാ ദർശനം,	Planning the Lesson-Gren, G.H.
		ബഹുമുഖ് ബുദ്ധി ഘടകങ്ങൾ,	
		സാർവ് ലൗകിക വ്യാകരണ	
		സിദ്ധാന്തം) അടിസ്ഥാനത്തിൽ	
		യൂണിറ്റിന്റെ	
		പ്രശ്നമേഖല,പഠനപ്രമേയം എന്നിവ	
		പരിഗണിച്ച് ഭാഷാതലം, ആശയതലം,	
		സർഗ്ഗാത്മകതലം എന്നിവയിൽ ഊന്നി	
		നിന്നു കൊണ്ട് സമഗ്രാസൂത്രണവും	
		പാഠാസൂത്രണവും നടത്തുന്ന വിധം	
		ചർച്ച ചെയ്യുകയും	
		വാർഷികാസൂത്രണം, യൂണിറ്റ്	
		സമഗ്രാസൂത്രണം,	
		ദൈനംദിനാസൂത്രണം എന്നിവ	
		തയ്യറാക്കുകയും വേണം.	
		2	
		പഠന പ്രവർത്തനങ്ങളുടെ ഘട്ടം	
		ഘട്ടമായുള്ള അവതരണം.	
	പഠനാന്നഭവങ്ങളും	പ്രശ്നാവതരണം.	
	മൂല്യനിർണ്യവും	കുട്ടികളുടെ പ്രതികരണം	
	ആവിഷ്കരിച്ചു	(പരിക്ല്പനാവതരണം)–കൂട്ടായ	
	നടപ്പിലാക്കുന്നതിനുള്ള	പ്രവർത്ത്നം–ചുമതലകൾ	
	തന്ത്രങ്ങൾ.	നൽകൽ–പഠന സഹായികൾ	
		നൽകൽ–അധ്യാപികയുടെ	
		സാന്ദർഭികമായ	
		സഹായം–ആശയരൂപീകരണം–അവത	
		രണം–പൊതുചർച്ച–വിലയിരുത്തൽ–	
		അദ്ധ്യാപികയുടെ കാഴ്ചപ്പാട്	
		അവതരിപ്പിക്കൽ–തുടരന്വേഷണം–സമ	
		ഗ്രമാക്കൽ–പ്രകാശനം.	
		ഓരോഘട്ടത്തിലുമുള്ള കുട്ടികളുടെ	
		പരസ്പരമൂല്യ നീര്ണയവും	
		അദ്ധ്യാപിക്യുടെ നിരന്തര് മൂല്യ	
		നിർണ്യവും രേഖപ്പെടുത്തൽ്	
		പ്രതികരണ പേജിന്റെ ധർമം–	
		അഭിപ്രായങ്ങൾ	
	പാഠാസൂത്രണത്തിലെ	രേഖപ്പെടുത്തുന്നതിന്റെ രീതി എന്നിവ	
	പ്രതികരണ പേജ്	ചർച്ച ചെയ്യണം	
	രേഖപ്പെടുത്തുന്നതി	പഠനോപകരണങ്ങളുടെ	
	ന്റെ പ്രസക്തിയും	പ്രസക്തി–വിദ്യാർഥികളുടെ	
	രീതിയും	പങ്കാളിത്തം–ഉപകരണങ്ങളുടെ	
	••••••••••••••••••••••••••••••••••••••	ലാളിത്യം–പരിസ്ഥിതിക്കിണങ്ങുന്നത്,	
	പറസോപകരണ	ചെലവ കുറഞ്ഞത്–	
	പഠനോപകരണ		

നിർമാണ തന്ത്രങ്ങൾ	ഉപയോഗക്ഷമത– പ്രായോഗികത	
മൂല്യനിർണയത്തിന്റെ പ്രാധാന്യം.	മൂല്യ നിർണയത്തിന്റെ പ്രസക്തിയും പ്രധാന്യവും.	Essentials of Educational Measurement-Ebel,L &Frisbie,A
വിവിധമൂല്യ നിർണയ രീതികൾ–സാധ്യത കളും പരിമിതികളും.	നിലവിലിരിക്കുന്ന മൂല്യനിർണയരീതികളുടെ ഗുണദോഷ വിചാരം.	
നിരന്തരവും സമഗ്രവുമായ മൂല്യ നിർണയ മേഖലകൾ.	നിരന്തരമൂല്യനിർണയം,പരസ്പര മുല്യനിർണയം, സമഗ്ര മൂല്യനിർണയം– ആത്യന്തിക മൂല്യനിർണയം.	
വൈവിധ്യമുള്ള പഠന പ്രവർത്തനങ്ങളെ മൂല്യ നിർണയം ചെയ്യുന്നതിന്നുള്ള സൂചകങ്ങൾ.	ഓരോ പഠന പ്രവർത്തനത്തിന്റെയും മൂല്യ നിർണയസൂചകങ്ങൾ രൂപപ്പെടുത്തൽ. സിദ്ധി ശോധകം–നിർവചനം–ധർമ്മം.	
സിദ്ധി ശോധങ്ങളുടെ നിർമാണവും പ്രയോഗവും. മാനസിക പ്രക്രിയകളുടെ മൂല്യ നിർണയം.	മാനസിക പ്രക്രിയക്ക് പ്രാധാന്യം കൊടുത്ത് സിദ്ധിശോധകം രൂപപ്പെടുത്തൽ. സിദ്ധിശോധക രൂപകല്പനാ തന്ത്രങ്ങൾ–ഉപയോഗപ്പെടുത്തൽ ഗ്രേഡിംഗ് സമ്പ്രദായത്തിന്റെ പ്രസക്തിയും പ്രാധാന്യവും. ഗ്രേഡിംഗ്	
ഗ്രേഡിംഗ് സമ്പ്രദായതിന്റെ പ്രസ ക്തിയും നിർവ്വഹണവും	സമ്പ്രദായം–നിർവ്വഹണരീതി	

	CURRICULU	M AND RESOURCES OF MALAY	ALAM EDUCATION
O B	TOPIC	SCOPE OF TOPIC	REFERENCE
1	പാഠ്യപദ്ധതി–ആശയം പഠ്യപദ്ധതിയും സിലബസ്സും പാഠ്യപദ്ധതി രൂപീകരണ തത്വങ്ങൾ ഭാഷാ പാഠ്യ പദ്ധതിയുടെ സ്വഭാവം പാഠ്യപദ്ധതി രൂപീകരണത്തിലെ ആധുനിക പ്രവണത	പാഠ്യപദ്ധതി– നിർവ്വചനം–പ്രസക്തി–ധർമ്മം പാഠ്യപദ്ധതിയും സിലബസ്സും തമ്മിലുള്ള വ്യത്യാസം പാഠ്യപദ്ധതി രൂപീകരണതത്വങ്ങൾ ഭാഷാ പാഠ്യപദ്ധതിക്ക് മറ്റ് പാഠ്യ പദ്ധതികളിൽ നിന്നുമുള്ള വ്യത്യാസം പാഠ്യപദ്ധതി രൂപീകരണത്തിലെ ആധുനിക പ്രവണതകൾ–ഗുണദോഷ വിചാരം–ഉദ്ഗ്രഥന സാധ്യത	Ideology and curriculum- Apple,m.w. Curriculum Development:Programme improvement-charles. Principles of curriculum-V.K.Rao. Curriculum:Teaching the what,how and why of living-Berman,L.M &Roderick,.J.k.
2	പഠന ബോധന പ്രക്രിയയിൽ വിഭവങ്ങളുടെ പ്രാധാന്യം. പഠന വിഭവങ്ങൾ	പഠന ബോധന പ്രക്രിയയിൽ പഠനോപകരണങ്ങളും മറ്റു വിഭവങ്ങളും ഉപയോഗിക്കുന്നതിന്റെ പ്രസക്തിയും പ്രാധാന്യവും. പാഠ്യപദ്ധതി ഉദ്ദേശ്യങ്ങൾ സാക്ഷാത്കരിക്കാനായി പഠന	Handbook using Learning aids- UNESCO. New guide book for development and production of literary materials- UNESCO.

	ഉപയോഗിക്കാനുള്ള തന്ത്രങ്ങൾ പഠനോപകരണങ്ങൾ എന്ന നിലയിൽപാഠപുസ്തക ങ്ങൾ	പ്രവർത്തനങ്ങൾ ആസൂത്രണം ചെയ്യാന്തം പ്രയോഗിക്കാന്തം അധ്യാപന സഹായി,മാഗസിന്രകൾ, ആന്രകാലികങ്ങൾ, മറ്റു പ്രാദേശിക വിഭവങ്ങൾ, എന്നിവ ഉൾപ്പെടെയുള്ള പഠന ഉപകരണങ്ങളും മറ്റും ഉപയോഗപ്പെടുത്തുന്ന സന്ദർഭങ്ങൾ, പ്രയോഗ രീതികൾ, സാധ്യതകൾ എന്നിവ വിശദമായി ചർച്ച ചെയ്യണം.വിഭവ ശേഖരണം നടത്തുന്നതിനുള്ള ഉറവിടങ്ങളും രീതികളും ചർച്ച ചെയ്യണം	
	ഉപയോഗപ്പെടുത്തുന്നതി നുള്ള തന്ത്രങ്ങൾ	പാഠപുസ്തകത്തെ ഒരു പഠനോപകരണം എന്ന നിലയിൽ ഉപയോഗിക്കുന്ന തന്ത്രം ക്ലാസുമുറിയിൽ ചർച്ച ചെയ്യണം	
3	റേഡിയോ, ടിവി, ഒ.എച്ച്.പി, വീഡിയോ, ലാംഗേജ് ലാബ്, ഇന്റർനെറ്റ്, സിഡി, ക്ലിപ്പിംഗ്സ്, ചാർട്ടുകൾ, മാത്രുകകൾ, ചിത്രങ്ങൾ തുടങ്ങിയ ഉപകരണങ്ങൾ ഉപയോഗിക്കക	റേഡിയോ, ടിവി, ഒ.എച്ച്.പി, വീഡിയോ, ലാംഗ്വേജ് ലാബ്, ഇന്റർനെറ്റ്, സിഡി, ക്ലിപ്പിംഗ്സ്, ചാർട്ടുകൾ, മാത്രുകകൾ, ചിത്രങ്ങൾ തുടങ്ങിയ ഉപകരണങ്ങൾ ഉപയോഗിക്കുന്നതിനുള്ള സാധ്യത ചർച്ച ചെയ്യുകയും ഉപയോഗ രീതികൾ ശീലിക്കുകയും ചെയ്യുക. പഠനോപകരണങ്ങൾ	Teaching and learning with visual aids:A resource manual-UNICEF. How to make and use visual aids- UNESCO.
		നിർമ്മിക്കുന്നതിനുള്ള സാധ്യത പരിശോധിക്കുക.	
4	ഭാഷാ പഠനത്തിൽ ഗ്രന്ഥ ശാലയുടെ പ്രാധാന്യം. ക്ലാസ്സ് ലൈബ്രറി, സ്കൂൾ ലൈബ്രറി എന്നിവ സംഘടിപ്പിക്കുക. ഭാഷാ പഠനത്തിൽ ഗ്രന്ഥശാല ഉപയോഗിക്കുന്നതിനുള്ള തന്ത്രങ്ങൾ. ലാംഗ്വേജ് ലാബിന്റെ പ്രസക്തി	ഭാഷാ പഠനത്തിൽ ഗ്രന്ഥ ശാലയുടെ ഉപയോഗ സാധ്യത, പ്രാധാന്യം; ക്ലാസ്റ്റ് ലൈബ്രറി, സ്കൂൾ ലൈബ്രറി എന്നിവ തമ്മിലുള്ള വ്യത്യാസം; അവയുടെ സംഘാടനം; ഭാഷാ പഠനത്തിൽ പ്രാദേശിക ഗ്രന്ഥശാലകൾ ഉൾപ്പെടെ ഉപയോഗിക്കുന്നതിനുള്ള തന്ത്രങ്ങൾ; ജ്ഞാന നിർമ്മിതി സിദ്ധാന്തങ്ങളുടെ അടിസ്ഥാനത്തിൽ പഠന പ്രക്രിയ നടക്കുന്ന സാഹചര്യത്തിൽ ലാംഗോജ് ലാബിന്റെ പ്രസക്തി ഉപയോഗ സാധ്യതകൾ, പരിമിതികൾ, എന്നിവ് വിശദമായി ചർച്ച ചെയ്യണം	
5	ഭാഷാപഠന ക്ലാസ്സിൽ കവിതകൾ കൂട്ടമായി ചൊല്ലുന്നതിന്റെ പ്രാധാന്യം. കവിതയിലെ പ്രതീകങ്ങൾ, ബിംബങ്ങൾ,	ഭാഷാപഠന ക്ലാസ്സിൽ കവിതകൾ കൂട്ടമായി ചൊല്ലുന്നതിന്റെ ഭാഗമായി കട്ടികളിൽ വളരുന്ന താല്പര്യവും ആസ്വാദന ശേഷികളും ചർച്ച ചെയ്യണം. കവിതയിലെ പ്രതീകങ്ങൾ, ബിംബങ്ങൾ, പ്രയോഗങ്ങൾ,	

പ്രയോഗങ്ങൾ, സൂചനകൾ എന്നിവ വിശകലനം ചെയ്യുന്നതിന്റെ പ്രാധാന്യം.	സൂചനകൾ എന്നിവ വിശകലനം ചെയ്യുന്നതിന്റെ പ്രാധാന്യം, രീതി എന്നിവ ചർച്ച ചെയ്യണം. ഒരു കവിത ഉദാഹരണമായി വിശകലനം ചെയ്യണം.	
കഥകളിലെ പ്രതീകങ്ങൾ, ബിംബങ്ങൾ, പ്രയോഗങ്ങൾ, സൂചനകൾ എന്നിവ വിശകലനം ചെയ്യുന്നതിന്റെ പ്രാധാന്യം.	കഥകൾ പറഞ്ഞ് ഫലിപ്പിക്കുന്നതിന്റെ പ്രാധാന്യം. കഥകളിലെ പ്രതീകങ്ങൾ, ബിംബങ്ങൾ, പ്രയോഗങ്ങൾ, സൂചനകൾ എന്നിവ വിശകലനം ചെയ്യുന്നതിന്റെ പ്രാധാന്യം, രീതി എന്നിവ ചർച്ച ചെയ്യണം. ഒരു കഥ ഉദാഹരണമായി വിശകലനം ചെയ്യണം.ഓരോ കവിതയ്ക്കും കഥയ്ക്കും ആസ്വാദനക്കുറിപ്പുകൾ തയ്യാറക്കണം.	

	PROFESSIONALISING MALAYALAM EDUCATION			
O B	TOPIC	SCOPE OF CONTENT	REFERENCE	
1	മലയാള ഭാഷയും സമൂഹവും.	ഐക്യ കേരള സമൂഹം രൂപപ്പെടുന്നതിൽ മലയാള ഭാഷ വഹിച്ച പങ്ക്– ചരിത്രം. ഒരു പ്രദേശത്തിന്റെ സംസ്കാരം	കേരളം മലയാളികളുടെ മാത്രുഭൂമി– ഇ.എം.എസ്. നമ്പൂതിരിപ്പാട്	
	ഭാഷയും സംസ്കാരവും.	രൂപപ്പെടുന്നതിൽ ആ പ്രദേശത്തെ ജനങ്ങൾ സംസാരിക്കുന്ന ഭാഷയ്ക്കുള്ള സ്ഥാനം. കേരളീയ സംസ്കാരം രൂപപ്പെടുന്നതിൽ മലയാള ഭാഷ വഹിച്ച പങ്ക്–ചരിത്രം.		
	മലയാള ഭാഷയും നാടോടി വിജ്ഞാനീയവും (കലകൾ,സാഹിത്യം തുടങ്ങിയവ).	മലയാള നാട്ടിലെ നാടോടി സാഹിത്യം, നാടൻ കലകൾ,നാടോടി വിജ്ഞാനീയം, നാടോടി ഭാഷാ പ്രയോഗ രീതി എന്നിവ മലയാള ഭാഷയുമായി ഏതെല്ലാം വിധത്തിൽ ബന്ധപ്പെട്ടു കിടക്കുന്ന –ഇന്നം നമ്മുടെ നാടോടി സാഹിത്യത്തിൽ പ്രയോഗിക്കുന്ന നാട്ടു ഭാഷാരീതി.		
	പ്രാദേശിക ഭാഷാരീതി.	കേരളത്തിലെ വിവിധ ദേശങ്ങളിൽ പ്രയോഗിക്കുന്ന ഭാഷാ രീതികൾ അവിടുത്തെ ജീവിതരീതി,തൊഴിൽ, വിദ്യാഭ്യാസം,മതപരമായകാര്യങ്ങൽ എന്നിവ എങ്ങനെ സ്വാധീനിക്കുന്നു എന്ന് വിശദമായി ചർച ചെയ്യണം.		
	പ്രാദേശിക വിഭവങ്ങളുടെ തരവും ഉപയോഗവും	ഒരുവിദ്യാലയം സ്ഥിതിചെയ്യുന്ന പ്രദേശത്തെ വിഭവങ്ങൾ (സാഹിത്യ– സംസ്കാരിക പ്രവർത്തകർ,കലാകാരന്മാർ,സാമൂഹിക പ്രവർത്തകർ, വിദഗ്ദ്ധ തൊഴിലാളികൾ,കർഷകർ, സ്ഥാപനങ്ങൾ, ലൈബ്രറികൾ തുടങ്ങിയവ)ഭാഷാ പഠനത്തിനായി ഉപയോഗിക്കാവുന്ന സാധ്യതകൾ ചർച്ച ചെയ്യണം.		
2	സാഹിത്യ സമാജം, തിയറ്റർ, സിനിമ ക്ലബ്ബ് എന്നിവയുടെ	മലയാളഭാഷാ പഠനവുമായി ബ്ന്ഡപ്പെട്ട് സ്കൂൾ സാഹിത്യ സമാജം, ക്യാമ്പസ്		

	n		
സംഘാടനവും പ്രവർത്തനവും	എ സ ചാ ആ	യറ്റർ, ഫോക്ക്ലോർ ക്ലബ്, സിനിമ ക്ലബ്ബ്) ന്നിവ സംഘടിപ്പിക്കുന്നതിനുള്ള സാധ്യതയും മംഘാടന രീതികളും ർച്ചചെയ്യണം.ഓരോന്നിന്റെയും ഉഭിമുഖ്യത്തിൽ ഏറ്റെടുക്കാവുന്ന വർത്തനങ്ങൾ നിർവചിക്കപ്പെടണം.	
3 കുട്ടികളിലെ പഠറ വൈഭവവും ഭാഹ സർഗ്ഗാത്മകതയു പുഷ്ഠിപ്പെടുത്ത	ഷാപരമായ നി ശ്ര സ ൽ കര ഇന്ത്ര	ാന വൈഭവം, സർഗ്ഗാത്മകത എന്നിവ ർവചിക്കൽ– വിശേഷതകൾ ണ്ടെത്തൽ– വ പുഷ്ടിപ്പെടൂത്താനുള്ള മാർഗങ്ങൾ ഉരായുക, അതിനുള്ള സാഹചര്യ മൊരുക്കുക.	
4 ഭാഷാ ബോധനം വിവര സാങ്കേതി ഉപയോഗപ്പെടുത് കമ്പ്യൂട്ടർ ഉപയേ ഭാഷാ ബോധനം ഇ–ലേർണിംഗ് റ ഉപയോഗിച്ചുള്ള ഭാഷാപഠനം. വീഡിയോ കോൺഫറൻസ് E-Contentമൊറ രൂപപ്പെടുത്തൽ.	ക വിദ്യയെ എ ഞൽ. സ ഉറ ാഗിച്ചുള്ള കൾ റ. ഈ ഭാ വിഭവങ്ങൾ കേ ലം വർ പർ പർ പർ പർ പർ പർ സ	വര സാങ്കേതിക വിദ്യ എന്നാൽ എന്ത് ന്നതും ഭാഷാ ബോധനത്തിനായി വിവര കെതിക വിദ്യയെ എങ്ങനെയെല്ലാം പയോഗപ്പെടുത്താം എന്നതും ചർച്ച ചെയ്യണം. മ്പ്യൂട്ടർ ഉപയോഗിച്ചുള്ള ഭാഷാ ബോധനം, –ലേർണിംഗ് വിഭവങ്ങൾ ഉപയോഗിച്ചുള്ള ഷാബോധനം, വീഡിയോ കാൺഫറൻസിംഗിലൂടെയുള്ള ഭാഷാ പഠനം, Content ഉപയോഗിച്ചുള്ള ഭാഷാബോധനം ന്നിവയുടെ സാധ്യതകൾ സ്കൂൾ ാഠ്യപദ്ധതി യുമായി ബന്ധപ്പെട്ട് രിശോധിക്ക്കെയും പ്രായോഗിക പരിശീലനം ട്ടികൾക്ക് ലഭിക്കുകയും വേണം. വഡിയോ കോൺഫറൻസിംഗ്, E-Content മാഡ്യൾ രൂപപ്പെടുത്തൽഎന്നിവ മാഡ്യൾ രൂപപ്പെടുത്തൽഎന്നിവ മായാഗിക പരിശീലനവും കുട്ടികൾക്ക്	Audio visual methods in teaching-Dale
5 ബോധന മാത്രും അർഥവും സാധ മലയാള ഭാഷാം ത്തിനുതകന്ന ഒ മാത്രുകകൾ. ആശയാധാന മാ (Concept attain model),സിനെറ്റ മാത്രുക (Synetics mode	ലം കകൾ– ഒറ ഗൃതകളും. സ ബാധന മല വാധന മാ ആ വാധന മാ ആ വാധന മാ ആ വാധന മാ സ വിക്സ് ഭാ സ el) ഒറ മാ സ ലി) ഒറ മാ സ ലി) ഒറ്റ് മാ ന്ന്ന് മാ ന്ന്ന് മാ ന്ന്ന് മാ ന്ന്ന് മാ ന്ന്ന് മാ ന്ന്ന് മാ ന്ന്ന് മാ ന്ന്ന്ന് മാ ന്ന്ന് മാ ന്ന്ന്ന് മാ ന്ന്ന്ന് മാ ന്ന് മാ ന്ന് മാ ന്ന് മാ ന്ന്ന് മാ ന്ന് മാ ന്ന് മാ ന്ന് മാ ന്ന് മാ ന്ന് ന്ന്	ടിയോഗിക പരിശ്വലനവും കുട്ടികശക്ക് ട്ടിക്കണം. മ്പാധന മാത്രുകകൾ–അർഥവും മെയാള ഭാഷാബോധനത്തിനു തകുന്ന ബോധന ത്രുകകൾ. ഉശയാധാന മാത്രുക, നിനെറ്റിക്സ് മാത്രുക വാധന മാത്രുകകൾ– സിദ്ധാന്തവും യോഗവും. ഷാ ബോധനത്തിൽ ബോധന മാത്രുകകളുടെ മാധ്യതയും പരിമിതികളും. മാധന മാത്രുകകളുടെ അടിസ്ഥാന പട്ടങ്ങളും രീതികളും. ഉശയാധാനം, സിനെറ്റിക്സ് എന്നീ ത്രുകകൾ വിശദമായി ചർച്ച ചെയ്യുകയും ഷാ ബോധന സാധ്യതകൾ രിശോധിക്കുകയും ചെയ്യുക. ഈ മാത്രുകകളുടെ അടിസ്ഥാനത്തിൽ തെസൂത്രണം ചെയ്യുകയും ണ്ടത്തി ആസൂത്രണം ചെയ്യുകയും മായോഗിക പരിചയം നേടുകയും ചെയ്യുക.	Models of teaching – Joycee,B&weil,M
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അധ്യാപനം വൈദഗ്ദ്ധ്യം ആവശ്യമുള്ള ഒരു തൊഴിൽ. തൊഴിൽ പരമായ ധാർമ്മികത. അധ്യാപകനുണ്ടായിരി ക്കേണ്ട വ്യക്തിപരവും തൊഴിൽ പരവുമായ ഗുണങ്ങൾ. ഭാഷാധ്യാപകനുണ്ടായിരിക്കേ ണ്ട സവിശേഷമായ ഗുണങ്ങൾ.	Teacher education for curriculum renewal, position paper: NCf,2007
ഭാഷാധ്യാപകരുടെ തൊഴിൽ വൈദഗ്ദ്ധ്യം വികസിപ്പിക്കാനുള്ള മാർഗ്ഗങ്ങൾ. തൊഴിൽ വൈദഗ്ദ്ധ്യത്തിന്റെ	
സവിശേഷതകൾ (NCERT).	

Re structuring of Curriculum-2012 Credit Based Semester and Grading System

HANDBOOK FOR TEACHER EDUCATORS (ARABIC)

Programme: Bachelor of Education (B Ed) With effect from 2012-13 Academic Year

BOARD OF STUDIES EDUCATION (UG)

	EDU. 111. METHODOLOGY OF TEACHING ARABIC Contact Hours: 75 Hours (Instruction) &15 hours (process) Marks: 50 (End semester Examination) & 10 (CE)			
Content	Scope of the Content	Nature of the Process	References	
MODULE I Arabic Language Significance Need and Significance of Arabic Language Teaching Problems of Learning Foreign Language	 Language Meaning & functions Arabic Language Importance of Arabic Scope of Arabic Aims of Teaching Arabic Purpose of language teaching Problems of learning foreign language Problems of teaching Arabic 	 Prepare a report on different opportunities avail through learning of Arabic Language 	Al Muwajjahul Ameli li Muderrisi Luga Al Arabiyya : Abid Thoufeeqe Al hasmi, Al Risala Publishing House Bairoot Lebanon	
MODULE II Language and Language acquisition a. Language skills- acquisition of skills- listening and reading skills, teaching to attain these skills, different kinds of reading, methods of teaching to read- importance of pronounciati on souds- organisation of speech- training for correct pronounciati on etc. Productive skills- speaking and writing skills. Their	The hierachical order of learning language skills- listening - speaking- reading - writing Listening • Significance of listening • Listening techniques Speaking • Importance of speaking • Techniques for developing speaking • Techniques for developing speaking • Techniques for developing speaking • Techniques for developing speaking • Causes of bad spelling • Training for correct pronunciation Reading • Aims of Teaching reading • Types of Reading • Intensive Reading • Loud reading • Loud reading • Qualities of good Loud Reading • Silent Reading • Advantages of Silent Reading • Types of writing • Types of writing • Types of writing • Techniques for developing writing • Hand writing • Characteristics of good hand writing	2. Conduct a debate on any topic in Arabic Language and prepare a report.	Teaching and Learning English, a source book for Teaching and Teacher Training: Orient Longman, Hyderabad. An Introduction to language and Communication : Publisher Prentice hall Active listening building skills : Marc Helgesen and Steven Brown Cambridge	

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importance , peculiarities- causes of bad spelling- editing process reference and study skills MODULE III General Principles and methods of language learning with special reference to Arabic Principles and maximums of language learning- Learning environment - its qualities. Methods of Teaching Arabic. Traditional and modern, Translation method Direct method Structural approach Communicative approach Bilingual approach Discussion Method Role play	 Legibility, beauty, proper spacing, speed Techniques to improve hand writing Dictation Importance of dictation Types of dictation General Principles General principles of language learning Methods of teaching Arabic Methods- Advantages-Limitations Traditional and modern method Translation method Direct method Structural method Communicative approach Bilingual approach Discussion method Dramatization method Play way method Project method Learning by doing 	3. Preparation of Power point presentation./ Internet browsing	An Introduction to language and Communication : Publisher Prentice hall The Oxford Guide to Writing and : John Seley Reading Improve your communication skills : Alan Barker. The Skills of Communication : Billscott, Mumbai
method Direct method Structural approach Communicative approach Bilingual approach Discussion Method	approaches:-behaviourism ,proponent	Making multiple	The teaching of
MODULE IV Language and language learning	,basic principles - cognitivism-,proponent, basic principles. constructivism-social constructivism –neuro-linguistic theories. importance and significance of universal grammar.	lesson plans on a single topic based on different approaches to experience the difference in outlooks.	language a practical Approach B.N. Safaya Tuition to Intuition : Dr. K.N Anadan
MODULE V a. Teaching of prose- b. Teaching	aims of teaching prose, methods of reading prose-different types of prose lessons. aims of teaching poetry, methods of teaching poetry	Suggest a way to strengthen vocabulary and prepare a short	An Introduction to language and Communication : Publisher Prentice hall

	place of grammar approaches and methods; functional formal, inductive-deductive. -its types, methods, strategies Vocabulary strengthening teaching of literature	learning material suitable to realize your idea.	The Principle and Methods of Teaching : Bhatia and Bhatia
MODULE VI	-issue based learning-discourse oriented and narrative strategies Group learning-co	Prepare a list of any five social issues that	Tuition to Intuition : Dr. K.N Anadan
Critical pedagogy	operative learning collaborative learning- multiple level learning	can be addressed in Arabic class	

EDU 131 PEDAGOGIC PRACTICES IN ARABIC Contact Hours: 75 Hours (Instruction) &15 hours (process) Marks : 50 (End semester Examination)& 10 (CE)				
Content	Scope of the Content	Nature of the Process	References	
MODULE I The objective based instruction	Bloom's Taxonomy-: Cognitive, Affective, Psychomotor domasins Significance and importance 1.preparation of the lesson plans as per the model. 2 Constructivist and social constructivist models -Preparation of lesson plans -selection of activities.3 Issue based curriculum –Highlighting the Issues,	Prepare a pictorial representation of Instructional Objectives relevant to Arabic Education/ Discussion on issue based curriculum	The teaching of language a practical Approach B.N. Safaya . Essentials of Educational Technology – Teaching Learning Innovations in Education : J.C. Agarwal	
MODULE II a. Teaching skills	Micro teaching – Definition, steps ,phases and cycles ;Merit and Demerits. Acquaintance with core skills. (8 core skills related to language), Skill based practice- 3different skills and Link practice Prescribed in Practicals	Skill practice, scheduled observations of the practicing, Video recording and comparison with master documents	Active listening building skills : Marc Helgesen and Steven Brown Cambridge Atharbiyathu wa Thuruqu athedrees	

	Mooning and principles of content	Dorform content	The Drinciple and
	Meaning and principles of content analysis- purpose of pedagogic	Perform content analysis, find out	The Principle and Methods of Teaching :
	analysis. subject matter and language-	specifications,	Bhatia and Bhatia
	Learning experiences-Evaluation	objectives in	
	Acquaintance with subject matter.	behaviourist system.	
	systematic braking of curriculum-	Find out issues, sub	
	modular approach	issues-modular	
DULE III		approach-activities etc	
Pedagogic Analysis		in constructivist pattern	
of Lessons-		Find out curricular	
		objectives and	
		activities. Preparation	
		of any five discourses	
		(notice, classical	
		literature, poem, etc.,)	
		and perform it in	
		classroom.	
<u> </u>	Planning, importance, objectives and	Write discussion	Atharbiyathu wa
	levels of planning: Lesson plan, unit	lessons in various	, Thuruqu athedrees
	plan, year plan. Ways of introducing	strategies	Essentials of
	various topics, effectively developing	demonstration,	Educational
	the productive and receptive skills and	criticism lessons	Technology – Teaching
	study skills note taking note making	according to	Learning Innovations
MODULE IV	paraphrasing. How to create language	constructivist pattern	in Education : J.C.
Lesson Planning	rich environment. Types of learning	Acquisition of language	Agarwal
	experiences required for different	skills through	
	methods of teaching-	communicative	
		discourses.	
		Preparation of Year	
		Plan of any Arabic Text	
		Book.	
	Importance; objectives of evaluation;	Make sample question	Essentials of
	Tools of evaluation-formative and	paper for objective	Educational
	summative methods- continuous and	based test and new	Technology – Teaching
	comprehensive evaluation;	type tests with blue	Learning Innovations
MODULE V	achievement test-tools used for CCE –	print, value points and	in Education : J.C.
Evaluation of	Grading system-The evaluation system	question wise analysis	Agarwal
student	existing in Kerala	OR	Modern trends in
achievements		Make mark list or grade	teaching technology :
		list of students using	Romesh Varma,
		spread sheet and	Suresh Sarma
		analyze it (2 marks)	
		Comparison of grading	
		with marking system	

	EDU. 151. CURRICULUM AND RESOURCES OF ARABIC				
	Contact Hours: 75 Hours (Instruction) &15 hours (process)				
Content	Marks: 50 (End semester Examination)& 10 (CE) Content Scope of the Content Nature of the Process				
MODULE I Curriculum	Meaning, definition and types of curriculum. principles of curriculum construction, approaches to curriculum construction- modern trends in curriculum construction- A critical study of Arabic curriculum for all classes from V to XII	A comparison of Arabic text books in Kerala with that of English /Critically evaluate the Arabic curriculum for all classes from V to XII Debate upon present curriculum and report it.	Atharbiyathu wa Thuruqu athedrees		
MODULE II Learning aids	Importance and Principles of using learning aids Psychological basesTeaching- learning material: Test Book importance and principles of construction and its qualities. hand book, local text, magazines, reading corner etcAV aids :ICT. language lab, improvised leaning aids, mass media, digital learning recourses etc. Activity aids: club activities, field trips etc.	Select a topic and prepare a learning aid suited to the topic and practice it in the classroom and find out the scope of it./ Formation of language club. Conducting an Arabic quiz programme using LCD/Visit important historical places and report it. /Prepare a manuscript magazine (group work)	Alan Barker.		
MODULE III Library	Importance of library –school library- class library- digital library, online library etc. Essential qualities of library.	Making a book review./ Arrange class library. Visit a library and make a brief report in Arabic./ Presentation of Holy Quran through CD and make a discussion on the topic. /Visit the library and translate an article from any English News Paper into Arabic /Present any topic in Arabic using any technological strategy	Atharbiyathu wa Thuruqu athedrees		
MODULE IV Models of teaching	Scope and importance of models of teaching. Acquaintance with families of models teaching. some typical model: Concept Attainment, Advance Organizer, Inductive-Deductive models	Prepare a lesson plan on any topic USING Models of Teaching.	Models of Teaching : Bruce Joyce – Mersha Wein		

EDU. 171. PROFESSIONALIZING ARABIC EDUCATION				
	Contact Hours: 75 Hours (Instruction) &15 hours (process) Marks: 50 (End semester Examination)& 10 (CE)			
Content	Scope of the Content	Nature of the Process	References	
MODULE. I Arabic Language	Arabic language-its significance- historical background-world language-modern and classical language-link with other languages and literature Contribution to other subjects Arabic language and India. Arabic language and Kerala Place of Arabic in the state schools of Kerala.	Preparation a list of 4 classic books in Arabic and prepare short notes on how they reflect social life in them. Discussion on the contributions of Arabic writers in Kerala/Conducting a seminar on the influence of Arabic language in Kerala. /Collect some poem written in Arabic by Kerala Arabic poets	Al Muwajjahul Ameli li Muderrisi Luga Al Arabiyya : Abid Thoufeeqe Al hasmi, Al Risala Publishing House Bairoot Lebanon. An Introduction to language and Communication : Publisher Prentice hall.	
MODULE. II Co-curricular activities of Arabic	Programmes included in Arabic Kalolsavam- their rules and regulations- Club and literary activities ,associations-school language broadcasting magazines	Prepare a year plan for an Arabic language club in the school. Formation of literary club and conducting various competitions/ Find out rules and regulations of Arabic kalolsavam /Participate in planning, execution of Arabic kalolsavam and evaluate the merits and demerits	An easy way to commercial and journalistic Arabic : Mohammed Ismail Mujaddidi. Sahara Publications, Markaz complex, Calicut.	
MODULE. III Characteristics of talented children	Identification & techniques of nurturing talented children in Arabic.	Prepare an enrichment material in Arabic grammar of Standard 8/ Discussion on the techniques for nurturing talented children	The teaching of language a practical Approach B.N. Safaya	
MODULE. IV New aids for Arabic teaching	computer assisted Instruction, CDs, VCD's Internet etc	Arrange a seminar with power point presentation.	The Skills of Communication : Billscott, Mumbai . Al Muwajjahul Ameli li Mudarrisi Luga Al Arabiyya : Abdul Haleem Ibrahim. Daru Maarif Egypt.	
MODULE. V Profession	Definition of profession, Teaching as a profession. Professional ethics. Traits of professionalism- competencies listed by NCTE. Soft Skills for a teacher. The Arabic teacher, qualities of a good Arabic teacher, nature of work and duties-Qualifications	Prepare a report on qualities of a good Arabic teacher./ Find out the professional ethics and competencies listed by NCTE	Althaeleema wa nabriyathuhu : Darul Ilmu LilMallayeen Beirut Teaching and Learning English, a source book for Teaching and Teacher Training : Orient Longman, Hyderabad.	

Re structuring of Curriculum-2012 Credit Based Semester and Grading System

HANDBOOK FOR TEACHER EDUCATORS (ENGLISH)

Programme: Bachelor of Education (B Ed) With effect from 2012-13 Academic Year

> BOARD OF STUDIES EDUCATION (UG)

EDU. 112.METHODOLOGY OF TEACHING ENGLISH Contact Hours:75 (Instruction)&15 Process Marks:50 (End Semester Examination)&10 (CE)			
Module	Scope of Content	Process	
Module I Language- its meaning, characteristics, functions, varieties of language – First language, second language	Meaning, definition and characteristics of language. Functions as described by Halliday. Varieties of language imply the dialect, sociolect and idiolect. Language Register. (2 Hrs)	Make some items thatwould help to evaluate the writing skill of the trainees. Here the students are expected to do some writing	
andforeign language Learning and acquisition ,Related theories	Meaning and features of first, second and foreign language. (1 Hr)	tasks that reflect their ability in the selection of words, structure and style and in organizing and sequencing events. Variety of tasks can	
Position of English in the Language family.	Definition and features of learning and acquisition. Points of difference between them. Factors affecting language acquisition and learning. Influence of mother tongue on second language learning. Views of Stephen Krashen, BF.Skinner, Benjamin Lee Whorf and Noam Chomsky on language acquisition. (3 Hrs)	be preferred.	
Features of English Importance of English English as a global language	Indo- European family of languages. Language family means a group of languages that share common ancestor. Role of Linguistics in language teaching (2 Hrs)		
Status of English in India	Unphonetic nature, Illogical spelling and morphological features of English. (1 Hr)		
	English as the international link language, library language, language of trade and commerce, language of science and technology etc. (1 Hr)		
	English as the Associate Official Language of India, a national link language, the facilitator of national integration, library language, language of high courts and supreme court, etc. (1 Hr)		

Module II		Film ravious of area
	Difference between skill subject and content	Film review of any two English films.
English as a skill subject—	subject, English as a skill subject, Language	two English mills.
LSRW skills and the process	skills – listening, speaking, reading and writing	Preparation of review of any
skills.	- their types and component skills.	two recent English films.
SKIIIS.	Classifications of language skills – Active and	Word limit – 500.
	Passive, Expressive or Productive and	word mine 500.
	Receptive, and Aural – Oral and Graphic	Preparation and presentation
Techniques to develop LSRW	motor. (7 Hrs)	of a
skills		minimum of tenDiscourses. (
	Activities for developing the skills of listening,	Limit one A 4 page each)
	speaking, reading and writing in pupils.	1.8
	(3Hrs)	
Module III	Behaviourism – meaning, view of learning,	4. Preparation of lesson plans
	teacher, learner, procedure of teaching and	– (behaviorist &
Behaviourism	activities. Limitations of Behaviourism. (3 Hrs)	constructivist) on a single
English Constructivism		topic based on different
Multiple Intelligence	Constructivism – meaning and types.	approaches to experience the
Chomskyan concept of	Vygostky's Social constructivism, view of	difference in outlooks. (Two
Language	learning, teacher, learner, procedure of	each).
Development	teaching and activities. Limitations of	
Stephen Krashen's theory Dr.	constructivism. (5Hrs)	
N.S.Prabhu's CBLT programme		
	Theory of Multiple Intelligences by Howard	
	Gardner. Its implications for language	
	teaching. (3 Hrs)	
	Champler's concert of language development	
	Chomsky's concept of language development –	
	LAD (1 Hr)	
	Stephen Krashen's theory of language	
	acquisition. (2Hrs)	
	acquisition. (21113)	
	Competence Based Language Teaching	
	(CBLT). (1 Hr)	
	CBLT is an application of the principles of	
	Competency-based Education (CBE) to	
	language teaching. It focuses on what learners	
	are expected to achieve with the target	
	language. It sees the outputs more important	
	than the learning process. It emerged in the	
	United States in the 1970s.	
Module IV		
	Methods, Approaches, Techniques and	
Method, approach, technique &	Strategies – their implications. (1Hr)	
strategy.		
	Characteristics, principles, advantages and	
Grammar – translation	limitations of Translation Method, Direct	
method, Direct Method,	Method, Structural Approach, Communicative	
Bilingual Mothod Structural Approach	Approach, Humanistic Approach and Holistic	
Method. Structural Approach,	Approach. (13 Hrs)	
Communicative Approach,		

Integration of Approaches. Team teaching. (2 Hrs)	
Principles of selection and grading of language materials. (3 Hrs)	
	Book review on anytwo
	literary works
	published in the last tenyears.
developing pupils' vocabulary. Language	Word limit: 500 each.
games. (3 Hrs)	
Importance of teaching grammar, functions	
and linguistic forms to express them, formal	
-	
5 (115)	
Importance of teaching pronunciation, methods	
of teaching pronunciation, techniques to	
Hrs)	
Prose – intensive and extensive readers and	
their features and importance. Techniques of	
teaching prose and poetry. Arguments for and	
	Get familiarised with the IT
	sources / packagesthat are
English in the state and central school	helpful inteaching English.
curricula. (2 Hrs)	
Language and sulture (2 Here)	Prepare a brief report
Language and culture.(2 Hrs)	showing the IT materials you can profitably use in the
Measures for overcoming the challenges. (2	English class rooms.
	 Hrs) Principles of selection and grading of language materials. (3 Hrs) Vocabulary – meaning. Types of vocabulary – active and passive vocabulary. Kind of words – function words and content words. Techniques of teaching vocabulary. Measures for developing pupils' vocabulary. Language games. (3 Hrs) Importance of teaching grammar, functions and linguistic forms to express them, formal and functional grammar, methods of teaching grammar – deductive and inductive methods. (3 Hrs) Importance of teaching pronunciation, methods of teaching pronunciation, techniques to improve pupils' pronunciation of English. (3 Hrs) Prose – intensive and extensive readers and their features and importance. Techniques of teaching prose and poetry. Arguments for and against teaching of poetry in language class rooms. (4 Hrs) Interference of Malayalam on English language learning. Varying positions of English in the state and central school curricula. (2 Hrs) Language and culture.(2 Hrs)

EDU. 132.PEDAGOGIC PRACTICES IN ENGLISH Contact Hours:75 (Instruction) &15 Process					
Marks:50 (End Semester Examination) &10 (CE)					
Module and Topic	Process				
MODULE I	Aims of teaching English. (2 Hrs)	Make a pictorial presentation of			
Aims of teaching English. Objectives-types of Objectives. Objectives of teaching English at secondary level.	Objective – meaning and definition. Types of objective – Process Objectives and Product Objectives. Objectives of teaching English at secondary level. (3 Hrs)	taxonomy of educationalobjectives.			
Taxonomy of educational Objectives. Philosophical, psychological, sociological & technological principles of language teaching.	Bloom's Taxonomy of Educational Objectives. (3 Hrs) Philosophical, psychological, sociological & technological principles of language teaching. (6 Hrs)				
MODULE II Core skills.	Teaching Skill – definition. Core skills and their components. (2 Hrs)	Prescribed in practical			
Micro teaching—definition, principles - micro teachingcycle, limitations.	Micro teaching – meaning, definition, characteristics, objectives, principles, steps in teaching, advantages and limitations. Micro teaching Cycle. (5 Hrs)				
	Integration of skills. (1 Hr)				
MODULE. III Pedagogy & Androgogy. Content analysis –Pedagogic analysis—objectives &	Pedagogy & Androgogy – meaning and characteristics. (2 Hrs) Content analysis – meaning, objectives, components and advantages. (5 Hrs)	Make a contentanalysis of any unit ofEnglish in standard 8 or 9.			
components.	Pedagogic analysis – meaning, objectives, components and advantages. (5 Hrs)				
MODULE. IV Importance of planning—year plan,unit plan, lesson plan.	Planning- meaning and importance. (2 Hrs)	Prepare a year plan orunit plan			
	Year plan, Unit plan & Lesson plan –	(Standard 8 or 9)			
		313			

	magning importance and shallonges (
Store of losson alon	meaning, importance and challenges. (
Steps of lesson plan.	7 Hrs)	
Types of planning—	Herbartian steps – merits and demerits.	
behaviourist,	(3 Hrs)	
Constructivistprose & poem.		
	Lesson plans in Behaviourist and	
	Constructivist format for teaching	
	prose and poem. (6 Hrs)	
MODULE. V	Evaluation – meaning and definition.	Prepare a questionbank on a
	Product evaluation and process	unit of yourown choice from
Evaluation - Different types of	evaluation. (2 Hrs)	8th or9th std English
test items - merits and demerits.		TextBook.
	Types of test items - Objective type,	(Limit: 100 questions.
	short answer type and essay type-	Different types of different
	merits and demerits. Importance of	may be included)
	Essay type test in language teaching. (
	4 Hrs)	Preparation of unit
Construction and administration		test,diagnostic test
ofAchievement tests.	Achievement test- definition and	andremedial lesson plan.
	construction. Qualities of a good	(Minimum one each)
Continuous and Comprehensive	achievement test. (5 Hrs)	
Evaluation, Evaluation Criteria		
for Assignment, Seminar and	Continuous and comprehensive	
Project.	Evaluation – meaning and features. (1	
5	Hr) Evaluation Criteria for	
Diagnostic test-importance-	Assignment, Seminar and Project –	
process of construction	scoring indicators. (2 Hrs)	
1	· · · · · · · · · · · · · · · · · · ·	
Error analysis-remedial teaching	Diagnostic test – definition,	
— meaning.	characteristics, importance and process	
Grading—importance &types.	of construction. (5 Hrs)	
	Error analysis – meaning. Remedial	
	teaching – definition, importance and	
	steps. (4 Hrs)	
	Grading – meaning, features and	
	importance.	
	Types of grading – Direct grading and	
	indirect grading. Means of indirect	
	grading – relative grading and absolute	
	grading. (2 Hrs)	
	5100111g. (2 1115)	

EDU. 152. CURRICULUM AND RESOURCES OF ENGLISH Contact Hours:75 (Instruction) &15 Process				
Marks Module and Topic	s:50 (End Semester Examination) &10 (C Scope of Content	Process		
MODULE I (10 hours) Curriculum—meaning,types. Principles of curriculumconstruction. Nature of language curriculum. Syllabus—types of syllabus—	Curriculum – meaning and definition. Types – Teacher centred curriculum, learner centred curriculum, experience curriculum, undifferentiated curriculum, core curriculum, hidden curriculum and spiral curriculum. Nature of language curriculum. (7 Hrs)	Compare the styles oforganisation of curriculum development,selecting asingle topic from State and CBSE syllabi. (Limit: 2 A 4 pages)		
features and limitations	Syllabus – meaning and importance. Types of syllabus – Product oriented syllabus and process oriented syllabus. (3 Hrs)			
MODULE II (20 hours)				
Course books, qualities of a goodcourse book. Source books—work book.	Course book – meaning and importance. Qualities of a good course book. Source book – meaning and importance. Qualities of a good Source book Work book - meaning and importance. Features of a good work book. (10 Hrs)	Evaluation of 8 & 9 th standard course books. (Limit: 4 A 4 pages)		
E-book, CD's etc	Supplementary reader – meaning, importance and qualities of a good supplementary reader. Types of supplementary reader – Plateau type and progressive type. (7 Hrs E- book, CDs – meaning, advantages and limitations (3 Hrs)			
MODULE. III (20 hours)	and limitations. (3 Hrs)			
Audio-visual aids— radio,TV,tape recorder,OHP,computer,languag elab,videoclippings,pictures,cha rts,flashcards, realia, models etc.	Audio Visual Aids –Advantages and limitations of using Audio Visual aids in language class room. Use of radio, tape recorder, OHP, Pictures, charts, flash cards, realia, models, TV and computer in English language classes. Points to be kept in mind while using each of them. (16 Hrs)	Prepare flash cards toteach any five words.		

	Language lab- meaning, types, components, uses, advantages and limitations. (4 Hrs)	
 MODULE IV (15 hours) Importance of library in languagelearning. E-library, inflibnet. Principles of selecting languagebooks. 	Library, Importance of library in language learning, Techniques to inculcate interest in students to use library. (9 Hrs) E-library, inflibnet – meaning, features and advantages. (3 Hrs) Principles of selecting books for a language class library. (3 Hrs)	List out 10 storybookssuitable for secondary school students. E Library meaning, advantage & limitation. INFLIBNET.(Minimum 5 journals and prepare brief report of each without exceeding 250 words)
		Maintain a class library.
MODULE V (10 hours) Reference skills—use ofdictionary. Note-taking, notemaking,summarizing, paragraphing, informationtransfer.	Reference skills- meaning and importance. Techniques for developing reference skills in pupils. (4 Hrs) Note-taking, notemaking,summarizing, Paragraphing and informationtransfer. – meaning and features. (6 Hrs)	Make a dictionary with20 words. Include meaning, phonemic transcription and part of speech of the words selected.

EDU. 172. PROFESSIONALISING ENGLISH EDUCATION Contact Hours:75 (Instruction) &15 Process Marks:50 (End Semester Examination) &10 (CE)						
Module and Topic	Content	Process				
MODULE I (25 hours						
		Prepare a report on any on-line language				
	Professionalism –	teachingProgramme. (Size : Maximum one page A 4)				
Professionalization of	meaning.					
teaching -	Professionalisation of					
meaning,need,challenges	teaching, - meaning,					
andtechniques.	need and challenges. (4					
	Hrs)					
In-service & pre-service	· · ·					
courses.	In service and pre					
	service courses and					
	programmes – nature,					
Global opportunity	importance and					
	limitations. (4 Hrs)					

IELTS, TOEFL,TESL.	Global demand for English teachers. Attractions and challenges. Measures to equip student teachers to meet global demands. (4 Hrs)	
	International Tests of English language proficiency :	
Language trainer,on- lineteaching. Content	IELTS - International English Language Testing System.	
writing,outsourcing.	TOEFL - Teaching Of English as a Foreign Language TESL – Teaching English as a Second Language. (2 Hrs)	
	Language trainer – qualities of a good language trainer. On line teaching – meaning, advantages and limitations. (3 Hrs)	
	Content writing - meaning. Importance of content writing as a profession. Qualities of a good content writer. (4 Hrs) Out sourcing – meaning, techniques to equip student teachers to make	
	effective use of out sourcing- advantages and challenges. (4 Hrs)	

MODULE II (10 hours) Online editing,	Online editing, teleconferencing,social networking – meaning,	Experiencing the making of a multi-media Package/very shortfilm/shortdocumentary/theatreeducation/puppetry.
teleconferencing,social networking.	characteristics and advantages. (6 Hrs)	
Preparation of e- learningmaterials.	E – learning materials – meaning and nature. Preparation of e learning materials. (4 Hrs)	
MODULE. III (15		Prepare a manuscriptmagazine and publish in theclass.
hours)	Editing – meaning and	(group work) - Minimum 20 works of art.
Magazine	levels of editing.	
editing,reporting,running	Qualities of a good	
commentary	editor. Reporting and	
Anchoring face to	running commentary –	
Anchoring, face to facecommunication,	nature and importance. (5 Hrs)	
interview,	Anchoring – meaning	
eventmanagement.	and features. Importance	
Language related co-	of face to	
curricularactivities.	facecommunication,	
	interview,	
Principles of	eventmanagement. (4	
organization.	Hrs)	
	Language related co-	
	curricular activities –	
	activities such as preparation of	
	manuscript magazine,	
	competitions in	
	versification, story	
	writing, essay writing	
	etc. (5 Hrs)	
	Principles of organizing	
	co curricular activities.	
	(1 Hr)	
MODULE IV (8 hours		Prepare an enrichmentmaterial on English
) Concert - f1(* 1	Concept of multiple	grammar of Standard 8. (Maximum 2 a 4 pages)
Concept of multiple	intelligences. Characteristics of	
intelligences. Characteristics of	talentedchildren.	
talentedchildren.	Identification &	
Identification &	techniques ofnurturing	
techniques ofnurturing	talented children	
talented children	inEnglish. (8 Hrs)	
inEnglish.		

MODULE V (17		
hours)	Communication skills	Preparation of a briefreport about 10 recent
,	and their components.	researches in ELT.
Development of	Techniques to develop	
communicationskills,	communication skills.	
presentation skills	Presentation skills,	
&leadership qualities.	measures to develop	
	presentation skills. (5	
	Hrs)	
	Leadership – meaning	
	and types. Qualities of	
Qualities of a	good leadership. (3)	
professionalteacher of	Qualities of a	
English.	professionalteacher of	
	English. (2 Hrs)	
Ways to	Ways to	
inculcateprofessionalism	inculcateprofessionalism	
in teaching.	in teaching. (2 Hrs)	
in touching.	in touoning. (2 mis)	
	Role of teacher-	
Role of teacher-	educators indeveloping	
educators indeveloping	professionalism inELT.	
professionalism inELT.	(2 Hrs)	
Reflective teaching.		
	Reflective teaching –	
	meaning, steps,	
	advantages and	
	limitations. (3 Hrs)	

Re structuring of Curriculum-2012 Credit Based Semester and Grading System

HANDBOOK FOR TEACHER EDUCATORS (MATHEMATICS)

Programme: Bachelor of Education (B Ed) With effect from 2012-13 Academic Year

BOARD OF STUDIES EDUCATION (UG)

	PAPER 1 METHODOLOGY OF TEACHING MATHEMATICS (EDU 120)					
SI No	Content	Scope	Special transactio nal Methods/ strategies	Process	Suggested Readings	
1	Nature of Mathematics	Origin of the word- Meaning-some definitions, characteristics of mathematics.(1hr) Development of mathematics as a science-The three stages-empirical, intuitional & rational (2hrs) Inductive and deductive reasoning- meaning, their role in mathematics.(2hrs) Axioms & postulates- meaning, examples-role in mathematics language-symbols, language and its characteristics (1hr) Pure and applied mathematics- difference between the two- examples(1hr) Modern mathematics-meaning- structure, content, language &approach importance (2hrs) Fundamental branches- Arithmetic,algebra, geometry, and trigonometry- development of each-relation between them-(4hrs)	Brain storming seminar	Library work, Discussion in class followed by home assignment- A brief report on development of areas like calculus, statistics and probability, Mathematical physics, Graph theory, Operation research hydrodynamics, etc. Individual report to be submitted. Origin, need, major mathematicians in the area are expected to be reported. (5-10 pages) Or Library work-Class discussion- submission of individual report- Symbol selected-origin-purpose are essential. Related/identical notations if any may be included.	Kumar,S. & Ratnalikar, D.N (2007). The Teaching of Mathematics.Anmol Pub. New Delhi. Mangal S K.(1984). The Teaching of Mathematics. Ludhiana; Fadon Prakash Brothers. <u>http://www-history.mcs.st-</u> <u>andrews.ac.uk/Extras/Poinc</u> <u>are_Intuition.html</u> Soman, K. (1988). Ganitha Sasthra Bodhanam. State Institute of Language, Tvm. Methodology of Teaching Mathematics. The ICFAI University 2004.	

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		Development of mathematics	Time line to be prepared on	Travers, K, J., Pikaart,L.,
		education-Historical roots-	the development of	Suydam, M.N., & Runion,
		mentioning mathematics education	mathematics of any century-	G. E. (1977). Mathematics
		in America and India(4hrs)	Major developments in	teaching. London: Harper&
			mathematics to be noted	Row.
			together with year and any	Ramanujam, R., &
			other available information-	Subramannian, K. (2012).
		Values of teaching mathematics-	better 18 th century onwards.	Mathematics Education in
		practical, disciplinary, social,	Time line to be evaluated	India: Status and Outlook
	u	cultural, aesthetic etc. (6 hrs)	w.r.t comprehensiveness,	(Eds). Homi Bhabha
	Education		neatness, clarity in	Centre for Science
	nce		presentation, originality in	Education, TATA Institute
	Еd		presentation and accuracy.	of Fundamental Research.
2	Mathematics		(Class work followed by	Mumbai.
	nati		library work) Or	
	nen		Biographies of five	Stillwell, J. (1991).
	ath		mathematicians preferably	Mathematics and its
	Σ		related to school level	History, New York:
			mathematics-at least two	Springer-Verlag.
			Indians- variety in	
			presentation - poster	Ramakrishnapillai, K.
			presentation recommended.	(2010). Ganithasasthrathile
			Photographs to be	Athikayanmar. Sasthra
			incorporated (if available).	Sahitya Parishat, TCR.
			Better if focus on different	-
			biographical aspects are	
			given in each case.	

	r				
3.	Approaches, methods and techniques of teaching mathematics	Process oriented approach-process abilities in mathematics- ability to detect mathematical regularities (discovery), construct examples (particularization),interpret mathematical descriptions, describe mathematical ideas, make logical inferences and axiomatise. (2hrs) Heuristic approach- basic principles-application in teaching mathematics.(1hr) Realistic Mathematics Education- basic concepts-characteristics- importance (2hrs) Methods: Inductive – deductive method, analytic-synthetic method, problem solving method, laboratory method, project method- major characteristics of each – importance in teaching of mathematics- limitations of each, examples. Seminar- procedure of conducting a seminar-evaluation of a seminar-advantages and limitations. (12hrs) Questioning-importance- characteristics of a good question; brain storming-functions-procedure –limitations; assignment-types- importance-evaluation of an assignment.(3hrs)	Discussion	Individual project plan- selection of topic suitable for a B.Ed student, methodology, analysis and conclusion, references, time schedule.(Class discussion followed by home assignment) Or Laboratory activity- selection of suitable content- arrangement of the materials needed – prescribing the activity- managing the activity- Generalising the result- description of each step. (To be done hypothetically, report to be written as Class work) Or Analytic questions –suitable topic to be selected- analytic questions to be listed one by one (answers may be included) -accuracy, relevance, sequence and grammatical correctness of the questions to be considered while evaluating. (as class work)	Simmons, M. (1993). The effective teaching of mathematics. England: Longman group. http://www.learner.org/cou rses/teachingmath/grades6 8/session_04/section_03_a. html Cooney, T. J., Davis, E.J., & Henderson, K.B. (1975). Dynamics of teaching secondary school mathematics. New York: Houghton Mifflin Company. http://www.fisme.science.u u.nl/en/rme/ Any book on methodology of teaching mathematics. Source book on Evaluation by SCERT James, A. (2005). Teaching of Mathematics. New Delhi: Neelkamal Publications Pvt. Ltd. Orlich, D., Harder R.J., Callahan R. C., & Gibson H.W. (2001). Teaching Strategies-A Guide to better Instruction. New York: Houghton Mifflin Company. Borich, G.D. (2012). Effective teaching Methods- Research based
					Borich, G.D. (2012). Effective teaching

4.	Theoretical bases of different approaches	Behaviorism-theoretical outlines- basic idea of s-r learning- reinforcement- concept of learning- role of teacher- (4hrs) Constructivism - social & cognitive – Vygotski, Piaget, Bruner- basic assumptions-characteristics of constructivist learning environment-role of teacher- difference between behaviourist and constructivist classrooms.(6hrs) Co-operative learning- concept- characteristics-types-role of teacher.(4hrs) Peer tutoring-types-importance-role of teacher.(2hrs) Learning as generative process- Basic concept of Wittrock's generative learning theory – knowledge generation,Meaning making, motivation processes and self regulation-a combination of Constructivism, Behaviourism, Cooperative learning. Management of class room environment- group work, individual work. (4hrs)	Any of the Co-operative learning strategy	Analysis of KCF as class room discussion w.r.t mathematics teaching and learning- submission of individual report on the suggestions followed by evaluation of the present system. Or Plan for implementing Cooperative learning strategy including a small mathematical concept, type of the co operative learning strategy selected-its implementation, references or materials to be provided in the group, group management and evaluation.	Any reference book in educational psychology Chambers, P. (2008). Teaching Mathematic- Developing as a reflective secondary teacher. New Delhi: Sage Srivastava, K. (2008). Traditional and Constructivist Educational Perspectives. Indian Journal of teacher Education Anweshika, 5(1), 11-19. Lee, H.W., Linn, K.Y., & Grabowski, B. (n.d). Generative learning: Principles and implications for making meaning. http://faculty.ksu.edu.sa
5	Trends in teaching mathematics	The current practices in schools- (1hr) Critical pedagogy-concept- applicability in mathematics classroom-(4hrs) issue based approach-significance- applicability in mathematics teaching and learning. (3hrs) edubuntu-practical oriented session for familiarizing with the programme (2 hrs)	Discussion Demonstrati o-n followed by discussion	Selection of the suitable topic and programme, preferably of high school level. Individual presentation.(Approximatel y 5mts; No report needed)	Books by SCERT, DIET, etc. National Curriculum Framework, 2005. NCERT.

	PAPER II PEDAGOGIC PRACTICES IN MATHEMATICS (EDU 140)					
Sl No.	Content	Scope	Transacti onal Strategies	Process	Suggested Readings	
1	Aims and Objectives	Aims and objectives of teaching mathematics at various level with special emphasis to secondary level.(2hrs) Bloom's taxonomy-Meaning- classification and hierarchical arrangement-explanation of each level objective with suitable examples- importance. (4hrs) Revised Bloom's taxonomy –change in terminology, structure and emphasis. (1hr) Major competencies to be developed- ability to compute, logical thinking, inquisitiveness, ability to find cause effect relationship etc Basic mathematical skills- computation, geometrical and drawing and interpretation of graphs.(3 hr)	Discussion	RBT to be compared with other taxonomies like that of Cormack & Yagar with respect to the terminology, classification etc . Report to be submitted after library work and class discussion. comprehensiveness, clarity, accuracy, variety of presentation are to be considered while evaluating	www.netskills.ac.uk/content/ projects//07 Blooms Taxono my.doc www.coe.uga.edu/epltt/ bloo m.htm Bloom,B.S. (1956) Taxonomy of Educational Objectives: Hand book - Cognitive domain.New York: David Mckay company Inc. Patel,R.N. (1997). Educational Evaluation- Theory and practice.Mumbai:Himalaya publishing house. Soman, K. (1988). GanithaSasthra Bodhanam. TVM: State Institute of Language.	
2	Skills of teaching mathematics	Teaching skill-Meaning- list by NCERT- major skills- Explanation of each.(6hrs) Micro teaching- meaning-importance- procedure-preparation of micro lesson. (7hrs)	Lecture cum demonstrat ion Video presentatio n		Paintall.(1982).MicroTeaching: A Hand book forteachers. New Delhi: OxfordUniversity Press.Passi, B.K. (1976).Becoming Better Teachers:Micro Teaching Approach.Ahamedabad:SahithyaMudranalaya.	

3	Pedagogical analysis	Pedagogic analysis-meaning- purposes-importance-steps-difference from content analysis (5hrs) Content analysis (of selected topics from different areas like arithmetic, algebra, geometry and trigonometry)- listing of the major and minor concepts, terms, facts, definitions, principles, theorems, -possibility of misconcepts among students- examples & remedial measures(15hrs)	Discussion Discussion in groups followed by presentatio n in class	A unit(may be of four to five lessons) to be selected from any of the areas – content to be analysed comprehensively and accurately. (class discussion followed by home assignment) Or List minimum three misconcepts-the probable causes/ reasons for such misconcepts - suggestions for rectifying the misconcepts- submission of report by each individual. (Class discussion and home assignment).	Mathematics Text books and hand books of standard 8 th &9 th Tanner, H. & Jones, s. (2000).Becoming a successful teacher in Mathematics. New York: Routledge Palmer.
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				Unit plan to be	Soman,k.(1972).	
				prepared for a	Uddesyadhishtitha	
		Stages of planning-year plan –unit		specific unit	Bodhanam. Tvm:	State
		plan- lesson plan – meaning-need-		selected by the	Institute of Language.	State
		functions of each-steps to be followed		individual	0.0	
		in the preparation of each.(3hrs)	Small	incorporating the	Books on teaching	
			group	essential	Mathematics	
		Lesson planning- objective based	discussion	components of a		
		instruction-objectives- learning		unit plan-Content,		
		experience- evaluation-explanation of		objective, methods		
		each-their inter relationship. (10hrs)		& materials and		
		Constructivist format of lesson		evaluation		
		planning-curricular objectives,		procedure are to be		
	u	process skills, learning activities,		included(What,		
	tio	evaluation.(7hrs)		why, how and how		
	Inc			far aspects)		
	Planning of instruction					
	ofi			Submission of unit		
4	ng			plan after		
	ini			discussion in the		
	Jaı			class.		
	I			Or		
				Prepare either		
				behaviorist or		
				constructivist		
				lesson first and the		
				same should be		
				transformed to the		
				other – To be		
				conducted as supervised study-		
				class work and		
				individual		
				submission		
				500111551011		
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		Evaluation-meaning-criterion	Select an affective	
		referenced and norm referenced-need	outcome of learning	Carey, L.M. (1988).
		for each-test items- types- guidelines	mathematics and	Measuring and evaluating
		for preparation of each- practice in	prepare at least ten	School Learning. Boston:
		preparation (3hrs)	items to measure	Allyn and Bacon, Inc.
		Achievement test in mathematics-	the outcome	Harper, A. E.& Harper. E.S.
		steps-functions	selected- it may be	(1990). Preparing Objective
		Diagnostic testing-importance in	interest in	Examinations- A Hand book
		mathematics-steps	mathematics/attitud	for Teachers, Students and
		Difference between achievement test	e towards	Examiners. New Delhi:
		& diagnostic test (4hrs)	mathematics/	Prentice Hall of India.
		CCE-concept-need- procedure-	motivation in	r rentice fran of mula.
		evaluation criteria of collection,	mathematics/	
		seminar, assignment, project,	anxiety in	Source books on Evaluation
		practical, portfolio (3hrs)	mathematics or	published by SCERT, DIET
		Non cognitive areas- evaluation of	related.(to be done	etc
		interest, attitude, skill-various	as supervised study	
		techniques & instruments- importance	and individual	
		in teaching learning process. (2hrs)	submission needed)	
	Evaluation		Or	
5	lati		Diagnostic test-	
5	'alı		select a small	
	ы́		mathematical	
			concept of 8 th /9 th	
			standard, identify	
			and analyse the	
			learning points/the	
			learning tasks and	
			prepare items	
			covering all	
			learning points/	
			tasks and arrange	
			the items	
			sequentially with	
			proper instruction.	
			(Class work	
			followed by home	
			assignment)-	
			Individual	
			submission of the	
			diagnostic test	
			needed.	

	CURRICULUM AND RESOURCES OF MATHEMATICS EDUCATION (EDU 160)					
Sl No.	Content	Scope	Transacti onal strategies/ methods	process	Suggested Readings	
1	Curriculum in Mathematics	Curriculum-meaning-types: traditional, activity centered, experience centered, life centered, balanced, hidden, undifferentiated, differentiated-brief explanation of each. (5hrs) Curriculum development- basis: social needs, nature of the learner, nature of the subject-principles of curriculum construction, curriculum organization-principles and approaches.(10 hrs). Place of mathematics in school curriculum (1hr) Curricular reforms-need – SMP, SMSG, Nuffield (4hrs)		Correlation of mathematics with other subjects like physical science, biological sciences, humanities, commerce, behavioural sciences etc (Minimum 5 subjects of different nature recommended), within the subject and with daily life- Discussion in the class and submission of the report. Or Content from algebra/ arithmetic/ geometry/trigonometry- its possible relation with the others-either as application or pedagogical aspect	Sidhu K S. (1995). The Teaching of Mathematics. New Delhi; Sterling Publishers. James, A. (2005). Teaching of Mathematics. New Delhi: Neelkamal Publications Pvt. Ltd Hoyles, Celia., Morgan, Candia.,& Woodhouse, Geoffrey(1999). Rethinking the Mathematics Education. London: Falmer Press.	

2	Resources for mathematics teaching/ learning	Text books: qualities, importance and functions, hand books: importance, work books: purpose, characteristics, procedure of construction, reference books: citation of at least two from each area , journals: importance, at least two journals with its bibliographic details , resource cd's -examples, e- materials-examples (16 hrs) Audio-visual aids-meaning- importance in mathematics teaching- classification- Improvisation of teaching aids- meaning-advantages- steps- objective, design, development, feed back, examples. (5hrs) Recreational activities-role of games, puzzles, riddles- examples for each. (4hrs)	Visit to Library and discussion in class	Identify and list two e- contents, observe them, analyse the content transacted through the materials, and the effectiveness of the e material. (observation of the e materials as group work preferably of 5 members, different materials to be observed by different groups and individual analysis to be done) Or Work book – content to be selected, preferably a composite of 4/5 lessons of a unit –summary of the topic taught in the class- selection of related activity to practice the content taught, application of the learned material and extension of learning –are to be included. (class work followed by home assignment). Or Improvised aid of pedagogical value to be prepared-it should be planned,bring the required materials on the prescribed date announced by the teacher educator- on the spot preparation by the student. Pedagogical importance, - accuracy- neatness-materials used etc to be considered for evaluation.	Any book on Methodology of teaching Mathematics. Foster, Colin., (2010). Resources for teaching Mathematics 14-16. NewYork: Continuum International Publishing Group Journal articles on importance of games, puzzles,etc
3	Resource room	Mathematics laboratory-functions- equipments needed-importance-how to organize a maths lab. (5 hrs) Mathematics library-functions-nature of materials to be included-how to ensure effective functioning of the library, selection of books, book keeping, preparation of accession register, issuing, encouraging students to use library etc.(5 hrs)	Lecture cum demonstration Formation of a maths library in the class and its functioning	List of five books- better if different types like content based, history,methodology etc. are included. Author/authors; year of publishing; title of the book; edition; publishing company, place ; price; and dealers of the book(if possible) are to be mentioned.	Any book on Mathematics teaching.

	teaching	Meaning and definitions of models of teaching-characteristics-brief explanation of the four families of models-(6hrs) Information processing family-	Lesson plans of both models to be encouraged in the class-different concepts to be selected by the students.	Joyce, B.; Weil, M. & Calhoun, E. (2009). Models of Teaching. New Delhi: PHI Learning
4	Models of te	concept attainment model- theoretical overview-preparation of lesson plan.(8hrs). Inductive thinking model- theoretical overview- lesson planning. (6hrs)	Lesson plan to be evaluated w.r.t. suitability of the content, phases followed and accuracy of the content discussed.	Pvt. Ltd. Singh, L.C. (1995). Multiple models of Teaching for Educators. Delhi: Vikas Publishing House Pvt. Ltd.

	PAPER IV: PROFESSIONALISING MATHEMATICS EDUCATION (EDU 180)					
Sl No	Content	Scope	Transactional strategies	Process	Suggested readings	
1	Mathematics and society	Mathematics in the development of civilization- its role in scientific and technological development, economic development. (5hrs) Mathematics in social life- areas like astrology, religious observances, architecture, weather forecasting, folk arts etc to be discussed(5hrs)	Small group discussion and presentation. Project method, assignments, small group discussion	Report on application of mathematics in astrology/ various religious observances like prayer/architecture/ weather forecast/folk arts/ or any related areas of social life. (not exceeding 5 pages).Selected area, its specific features/ role in social life, mathematical concepts/ principles /operations / constructions etc to be included in it.	http://www.math.nus.e du.sg/aslaksen/projects /kh-urops.pdf. www.matheon.de/boo klet/matheon booklet eng pdf math. Anzona edu/- atp-mena/- /Thomaskutty Math_civil_Society Restivo, Sal.,(1992). Mathematics in Society and History: Sociological Inquiries. Netherlands: Kulwer Academic Publishers. Sutton, O.G. (1962). Mathematics in ActionLondon: The English Language Book Society & G Bell and Son	

2	Managing co- curricular activities	Co-curricular activities-meaning, importance and objectives-field trip- educational value- its organisation. (4hrs) Mathematics club-importance- functions-activities conducted-maths fair-how to organize, exhibition- organization, evaluation criteria of major items-quiz-organisation of a quiz programme (6 hrs)	Organising a field trip Conducting such programmes in class	Group wise organization of the quiz programme in the class. Planning, organizing and evaluating the programme (Report not needed). Or List to be comprehensive and suitable for learners of secondary stage. Item prepared to be original and to be valued against prescribed criteria for evaluating the specific item. (Better if a visit to maths fair is organized before the work). Item preparation to be done in the class room.	Any book on teaching mathematics. Carnahan ,Walter H.,(1958). Mathematics Clubs in High Schools : National Council of Teachers of Mathematics .
3	Exceptional children in mathematics	Mathematical giftedness- characteristics-identification-special programmes for mathematically gifted: enrichment program to be discussed in detail. (7hrs) Mathematics Olympiad-purpose- details about its execution-syllabi (3hrs) Slow learner-characteristics-causes and remediation. (5hrs)		Remedial measures for slow learner- content analysis at minute level- simplifying the content- appropriate and adequate learning aids-proper organization of the content. or Intensive/ extensive- challenging- relevant to the learner-related to the content selected. (To be done as class room activity).	Johnsen,Susan K., Kendrick , James(2005). Math Education for Gifted Students.Texas : Prufrock Press Inc Methodology of Teaching Mathematics. The ICFAI University 2004. Ramanujam, R., & Subramannian, K. (2012). Mathematics Education in India: Status and Outlook (Eds). Homi Bhabha Centre for Science Education, TATA Institute of Fundamental Research. Mumbai.

4	Integrating IT in teaching mathematics	Computer aided teaching- Role of computers in Mathematics teaching –(1hr) E-learning-meaning, advantages, systems (Proprietory&open source),(1hr) E-content-Forms(short learning objects, modules) Modules-meaning, Steps of preparation of module – conceptualization, composition ,script writing, correcting the script, collection of needed materials, preparation of story board, preparation for narration, video shooting and editing the video.(13hrs)	Practice oriented sessions	As class room activity script for a module is to be written under the super vision of teacher educator.	Chambers, P. (2008). Teaching Mathematic- Developing as a reflective secondary teacher. New Delhi: Sage Bruck, P.A.; Buchholz, A.; Karssen, Z.; Zerfass, A. (Eds.),(2005), E- content : Technologies and Perspectives for the European Market, Springer Bruck, Peter A. (Ed.), (2009), Multimedia and E-Content Trends : Implications for Academia, Springer <u>www.cec-ugc.org</u> <u>www.sakshat.ac.in</u> .
5	Competenci-es of a mathematics teacher	Profession-characteristics- teaching as a profession- Professional growth of teacher- Membership in professional associations- Role of NCERT& SCERT- programmes like research, training, dissemination of educational information:, Printed- newspaper, journals, magazines etc. Internet resources- e journals and e magazines, educational websites. (10hrs) Qualities –general, personal & specific (2hrs) Teacher competencies as listed by NCTE. (13 hrs).	Discussion Seminar	Check list should include major skills, and competencies of a mathematics teacher, not mentioning the name of teacher. Or Discussion on changing role of teacher to be conducted after library period for preparation- news paper cuttings and other articles are recommended for the discussion to be authentic. A class report on the discussion made is to be kept.	Chambers, P. (2008). Teaching Mathematic- Developing as a reflective secondary teacher. New Delhi: Sage http://www.oct.ca/stan dards/standards_of_pr actice.aspx http://www.nbpts.org/ userfiles/file/what_tea chers.pdf Any book on teaching mathematics Dave, R.H. (1998). Towards EffectiveTeacher Education. New Delhi:NCTE

UNIVERSITY OF CALICUT

Re structuring of Curriculum-2012 Credit Based Semester and Grading System

HANDBOOK FOR TEACHER EDUCATORS (SOCIAL SCIENCES)

Programme: Bachelor of Education (B Ed) With effect from 2012-13 Academic Year

BOARD OF STUDIES EDUCATION (UG)

EDU 123 METHODOLOGY OF TEACHING SOCIAL SCIENCES

Contact Hours: 75 Hours (Instruction) &15 hours (process) Marks : 50 (End semester Examination)& 10 (CE)

CONTENT	SCODE	DEEEDENCES
CONTENT MODULE L (15 Harres)	SCOPE	REFERENCES
MODULE I (15 Hours)	Social Sciences – Preliminary	Aggarwal, J.C. (2003).
Social Sciences – Preliminary Considerations	Considerations	Teaching of Social Studies: A
	Meaning and definition of social Sciences (4 hours)	Practical Approach. Mumbai:
1.1 Meaning and Definition of Social	Social sciences	Vikas Publishing House
Sciences		Kumar S D V &
1.2 Classification of Definitions	Origin	Kumar, S.P.K &
of	meaning different social sciences	Noushad, P.P. (2009). Social Studies in the Classroom:
Social Sciences by John U		Trends and Methods. Calicut
Michaelis	synonymous usage of social sciences and social studies	University: Scorpio Publishers
1.3 Social Studies Vs Social	Classification of definitions by J	Oniversity. Scorpto Fublishers
Sciences	U Michaelis (2 hours)	Michaelis, J.U & Garsia, J.
1.4 Scope of Social Sciences	Citizenship transmission	(2000). Social Studies for
1.5 Semi Social Sciences, Social	Social science education	Children: A guide to Basic
Sciences and Natural Sciences	Reflective thinking	Instruction. New York: Allyn &
Sciences and Natural Sciences	Social criticism and action	Bacon
	Personal development	Bacon
	Social studies V s Social	Sills, D.L. (1972) International
	Sciences (2 hours)	Encyclopedia of Social
	Similarities and differences	Sciences. New York: McMillan
	Scope of social sciences (2	Sciences. New TOIK. Meininan
	hours)	Or any other relevant book
	Relationships	Of any other relevant book
	Home, neighbourhood, society,	
	nation, world etc	
	Semi social sciences (2 hours)	
	Ethics, education, philosophy,	
	psychology	
	Social sciences (2 hours)	
	history, economics, political	
	science, sociology etc.	
	natural sciences (1 hour)	
	biology, physics etc	
Module 2 (8 hours)	Evolution of Social Sciences	Gross, R.E., Messick, R.,
Evolution of Social Sciences	History of Teaching Social	Chapin, J.R & Sutherland.
2.1 History of Teaching Social	Sciences in 20th Century	(1978). Social Studies for our
Sciences	(4hours)	<i>Times.</i> New York: John Wiley
in 20th Century	early development	
2.2 Vision of Teaching Social	post war development	NCERT(2005) National
Sciences	development of social sciences as	Curriculum Framework.
in NCF(2005) and KCF(2007)	a core subject	New Delhi: NCERT

	Vision of Teaching Social	
	Sciences	SCERT(2007) Kerala
	in NCF(2005) (2 hours)	curriculum framework.
	Connect Knowledge with life	Trivandrum: SCERT
	outside School	
	Abandon rote methods	
	Provide overall development	
	rather than text book centric	
	Make evaluation more flexible	
	Education for a more	
	democratic inclusive society	
	Critical pedagogy can provide	
	an opportunity to reflect	
	critically on issues in terms of	
	their political, social,	
	economic and moral aspects	
	Social sciences in NCF (2005)	
	KCF(2007) (2 hours)	
	Social justice	
	Sustainable development	
	molding up good citizens	
	Promotion of nationalism	
	Develop awareness about	
	rights	
	Promote scientific attitude	
	Promote indigenous culture	
	Promote vocational skills	
	Acquire social and democratic	
	values	
	Promote self reliance	
	Strengthen resistance	
	Promote critical approach	
	Social sciences in KCF (2007)	
Module 3 (22 hours)	Approaches to Teaching Social	
Approaches, Techniques and	Sciences (3 hours)	
Methods	Didactic- Lecture, and expository	
of Social Science	methods – teacher initiated	
3.1 Approaches to Teaching	Socratic – question answer –	Clark, L.H.(1973). Teaching
Social	interactive methods	Social Studies in Secondary
Sciences – Didactic, Socratic and	Facilitative – learner initiated –	Schools.(2nd Ed.)New York:
Facilitative	cooperative learning	McMillan.
3.2 Methods of Teaching –	Methods of Teaching (15 hours)	
Lecture,	Lecture- How to use - When to	
Discussion, Problem Solving,	use - Criteria for good lecture -	
Project	Merits and demerits	Kumar, S.P.K &
and Source method	<i>Discussion</i> – purposes – elements	Noushad, P.P. (2009). Social
3.3 Techniques of Teaching –	– forms – steps – merits and	Studies in the Classroom:
Questioning, Role-plays and	demerits	Trends and Methods. Calicut

Cincelations E-mlansticus	Duellen estring united as	Lister Commis Deblishers
Simulations, Explorations,	Problem solving – project vs	University: Scorpio Publishers
Investigations and Guided	problem solving – steps – methods	
Discovery	of problem solving – principles –	
	advantages and limitations	
	Project – origin – meaning and	
	definition – principles – steps –	
	reporting – merits an demerits	
	<i>Source</i> – types of sources –	
	effective use – merits and	
	demerits	
	Techniques of teaching (4 hours)	
	<i>Questioning</i> – types – effective	
	use	
	Role play and simulations –	
	stages and distinction between	
	roleplay and simulations	
	Exploration	
	Characteristics	
	stages	
	investigation	
	characteristics	
	stages	
	difference between exploration	
	and investigation	
	guided discovery	
	characteristics	
	stages	
Madula 4 (25 hours)	Towards Social Construction of	
Module 4 (25 hours)		
Shift from Behaviorism to	Knowledge (6 hours)	
Constructivism	Cognitive revolution	
4.1 Towards Social Construction	Social constructivism	
of Knowledge	Constructivist Learning Design	
4.2 Constructivist Learning	(3 hours) – situation, grouping,	
Design –	bridging, exhibiting, reflecting	
Cooperative Learning, Metacognitive	Metacognitive stratrgies(4 hours)	
strategies, Concept Mapping,	Planning – monitoring –	Kumar, S.P.K &
Reflective	evaluation	Noushad, P.P.(2009). Social
Practices	Concept mapping(4 hours)	Studies in the Classroom:
4.3 Objective Based	Novak's theory	Trends and Methods. Calicut
Instruction/Behaviourit	Links and nodes	University: Scorpio Publishers
Approach	Reflective practices (4 hours)	Surversity. Scorpto r ublishers
	Attending to the experiences	
	Returning to experiences	
	Reexamining experiences	
	Objective Based Instruction (6	
	hours)	Freier (1972). Pedagogy of
	Furst Paradigm – interrelationship	oppressed. Harmondsworth:
		oppressea. mannonasworm.

	of objectives learning experiences and evaluation	Penguin SCERT(2007) Kerala
		<i>curriculum framework.</i> Trivandrum: SCERT
Module 5 (5 hours)	Present Practices in Social	
Present Practices in Social	Science	
Science	Teaching	
Teaching	Critical pedagogy and social	
5.1 Critical Pedagogy and Social	sciences (3 hours)	
Sciences – Problem posing	Critical pedagogy – basic	
education	principles, problem posing	
5.2 Recent changes in social	education, humanization, praxis	
science	etc.	
teaching in the state of kerala.	Recent changes in social science	
	teaching in the state of kerala. (2	
	hours)	
	MI Based, Constructivist learning,	
	Issue based learning	

PROCESS	DESCRIPTION
 Collect any 5 definitions of	 Each student should collect at least one
social studies and classify	definition to social studies and submit in
them Conduct a discussion on the	groups. Classify the collected definition in
vision of Teaching Social	groups based on Michaels's classification and
Sciences in NCF(2005) and	submit the group report. Group of 5 – 6 students should bring a brief
KCF (2007) Select a topic from social	note about either KCF(or NCF and conduct
sciences and prepare a group	Discussion in the class. A report of the group
project Plan/ Prepare a Script	work is to be submitted. Ensure that both the
for Role play in groups (a	documents are explored. Select topics relevant to secondary schools
group may consist of minimum	prepare either a group project plan or script for
5 trainees) Prepare a concept map on	a role play. Project plan/script is to be
any one concept in Social	submitted by each group. Random presentation
Science Subjects/prepare a list	by two groups – one on project plan and other
of any five Metacognitive	one on role play Each student should prepare and submitt a
strategies/Reflective Practices Prepare a list of any five	concept map either on school social science
social issues that can be	subject or any relevant topic of B.Ed
addressed in social science	Programme/list of five Metacognitive/reflective
class	startegies.

5. Prepare a list of five issues in groups of five
students and submit. Groups may be asked to
rank the social issues relevant to kerala society

EDU 143 PEDAGOGIC PRACTICES OF SOCIAL SCIENCES

Contact Hours: 75 Hours (Instruction) &15 hours (process) Marks : 50 (End semester Examination)& 10 (CE)

CONTENT SCOPE		REFERENCES		
Module 1 (20 hours)	Aims and Objectives of Teaching	Bining, A.C & Bining, D.H.		
Aims and Objectives of	Social Sciences	(1952) Teaching Social		
Teaching	Contributions of Social Sciences to	Studies in Secondary Schools.		
Social Sciences	the Goals of Education (3 hours)	New York: McGraw Hill		
1.1 Contributions of Social	Thinkin ability – human relationships			
Sciences to	– economic efficiency – civic	Kumar, S.P.K &		
the Goals of Education	responsibility – learning how to learn	Noushad, P.P. (2009). Social		
1.2 Conceptual, Inquiry, Skill	etc.	Studies in the Classroom:		
and	Conceptual objectives 2 hours)	Trends and Methods. Calicut		
Affective objectives of social	To develop understanding of facts,	University: Scorpio Publishers		
sciences	concepts, generalizations etc			
1.3 Bloom's Taxonomy of	Inquiry objectives (2hours)	Michaelis, J.U & Garsia, J.		
Educational	To develop competence in using	(2000). Social Studies for		
Objectives	modes, methods, processes of inquiry	Children: A guide to Basic		
1.3 Revised Bloom's	etc.	Instruction. New York: Allyn		
Taxonomy	Skill objectives (2 hours)	& Bacon		
1.4 Multiple intelligences as	Social skills			
the	Study skills	Noushad, P.P & Musthafa,		
objectives of social sciences	Group work skills	M.N. (2010). Taxonomy		
	Intellectual skills	Reframed: Educational		
	Affective objectives (2 hours)	Objectives for the 21st		
	Feelings	Century, Edutracks, 9, 16-22		
	Attitudes			
	Values			
	Blooms's Taxonomy of Educational			
	Objectives (5 hours)			
	Cognitive Domain			
	Affective Domain			
	Psychomotor Domain			
	Revised Bloom's Taxonomy (2			
	hours)			
	Differences from Original Taxonomy	Passi,B.K (1976). Becoming a		
	Knowledge Dimension	Better Teacher: A Micro		
	Cognitive Process Dimension	Teaching Approach.		
	Taxonomy Table	Ahamadabad: Sahithya		
	Multiple intelligences as the	Mundranalya		
	objectives of social sciences (2 hours)			
	how each intelligence can be an			

	objective of Social Sciences	
Module 2 (15 hours) Teaching Skills and Micro Teaching 2.1 Maxims of Teaching 2.2 Core Teaching skills 2.3 Micro Teaching Procedure	Teaching Skills and Micro Teaching Maxims of Teaching (2 hours) Simple to complex Concrete to abstract Near to far etc. Core Teaching skills (4 hours) Questioning Explaining Illustrating with examples Skill of Black board etc. Micro Teaching Procedure (9 hours) Procedure in micro teaching Micro teaching Cycle	Kenworthy, L.S.(1962). <i>Guide</i> to Social Studies Teaching. California: Wordsworth Publishing Green, G.H. (1987). <i>Planning</i> the Lesson. London: Longman Hand books of SCERT
	Preparing micro lesson plans Pedagogic Analysis (4 hours)	Hand books of SCERT
Module 3 (10 hours) Pedagogic Analysis 3.1 Pedagogic analysis – Meaning and definition 3.2 Analysis of relevant content of social science textbook of Std 8th and 9th	content analysis (4 hours) content analysis - statement of objectives - deciding prerequisites - determining inputs – assignments - activities and evaluation procedures Content analysis (6 hours) In terms of terms, facts, concepts, principles, processes, and generalizations – analysis of a sample content	Kumar, S.P.K & Noushad,P.P.(2009). Social Studies in the Classroom: Trends and Methods. Calicut University: Scorpio Publishers Or any other releavant book on educational evaluation
Module 4 (15 hours) Planning of Instruction 4.1 Need and Importance of Planning 4.2 Levels of Planning – Year plan, Unit Plan, Lesson Plan	Planning of Instruction Needs and importance of Planning(2 hours) Needs for planning Needs for lesson planning Levels of planning (13 hours) 3 levels and steps Format of Year plan, Unit plan and lesson plan produced in the SCERT hand Books may be adopted. Sample year plan, Unit plan and lesson plan are to be prepared	
Evaluation in Social Sciences 5.1 Process Evaluation and Product Evaluation 5.2 Construction of Achievement test and Diagnostic Test	Evaluation of the process and product of projects, seminars, assignment etc Construction of Achievement Test – teacher made and standardized tests Steps Design – blue print – item writing – question wise analysis – scoring key –	

5.3 Continuous and	marking scheme
	e e
Comprehensive	Diagnostic tests
Evaluation	Stages of preparation
Evaluation of Non-cognitive	Difference between AT & DT
Domain	Continuous and Comprehensive
	Evaluation
	Continuous Evaluation
	Seminars
	Assignments
	Collections
	Projects
	Internal test etc
	Comprehensive Evaluation
	Scholastic
	Co-Scholastic
	Personal
	Evaluation of Non-cognitive
	Domain
	Measurement of interests, attitudes,
	skills etc.

PROCESS DESCRIPTION			DESCRIPTION
1.	Prepare Conceptual, inquiry. Skill and Affective objectives of a Topic in Social Sciences	1.	
2.	Prepare a sample Content analysis /Prepare instructional objectives/Learning Activity/Learning Experience of a Topic from standard 8th or 9 th	2.	Students work in groups of 5 – 6 students for content analysis of a sample topic/ prepare instructional objectives based on NCERT Classification of instructional ojectives/ learning experience/ learning activity. Ensure that different groups work on different categories and topics. A group report is to be submitted.
3.	Prepare a Year Plan for a subject in Social Science/Unit Plan for a Unit	3.	A group 5 students should prepare either a unit plan or year plan. Hand books of SCERT for Secondary school social sciences can be used as a guideline.
4.	Prepare a sample of Different Types of Test items on different objectives/ Select a concept in Social Science prepare a diagnostic test	4.	Each student should preparea minimum of one different forms of test items of students choice and consolidate in groups of five students and submit/ each student should prepare at least two simple question for a diagnostic test on a particular topic and consolidate in groups of $5 - 6$ students and submit to the teacher educator

EDU 163 CURRICULUM & RESOURCES IN SOCIAL SCIENCES

Contact Hours: 75 Hours (Instruction) &15 hours (process) Marks : 50 (End semester Examination)& 10 (CE)

Warks : 50 (End semester Examination)& 10 (CE)			
Content	Scope	References	
MODULE I (15 Hours) Social Science Curriculum 1.1 Principles of Curriculum Construction 1.2 Organizing Social Science Curriculum – Topical, Spiral and Unit Approaches	Social Science Curriculum Meaning and definition of curriculum (2 hours) Principles of Curriculum Construction (4 hours) Organizing Social Science Curriculum – Topical, Spiral and Unit Approaches (9 hours) Their relative merits and	Zais, R.M(1977) Curriculum. New York: John Wiley Aggarwal, J.C. (2003). <i>Teaching</i> of Social Studies: A Practical Approach. Mumbai: Vikas Publishing House Yajnik, K.S. (1966). <i>Teaching</i> Social Studies in India. Bombay: Orient Longman	
MODULE II (15 Hours) Social Science as a core subject 2.1 Reasons for considering social science as a core subject 2.2 Relationship of Social Sciences with other core subjects 2.3 Fusion, integration and correlation in social sciences	demerits must be emphasized Social Science as a core subject (4 hours) Definition of core subjects Core subjects suggested Secondary Education Commission Relationship with other core subjects (6 hours) General science Language Mathematics Fusion, integration and correlation in social sciences (5 hours) Fusion, Integration and correlation and their distinction	Kochhar, S.K. (2002). <i>The</i> <i>Teaching of Social Studies</i> . New Delhi: Sterling Kumar, S.P.K & Noushad,P.P.(2009). <i>Social</i> <i>Studies in the Classroom: Trends</i> <i>and Methods</i> . Calicut University: Scorpio Publishers Bining, A.C & Bining, D.H. (1952) Teaching Social Studies in Secondary Schools. New York: McGraw Hill Joyce,B & Weil, M. (2003). <i>Models of Teaching</i> (5th Ed.) New Delhi: Prentice Hall	
MODULE III (15 Hours) Resources for Teaching/Learning Social Sciences 3.1 Models of Teaching – Concept Attainment, Jurisprudential Inquiry 3.2 Social Science Laboratory 3.3 Social Science museum 3.4 Maps and Globes 3.5 Timelines	Resources for Teaching/Learning Social Sciences Models of Teaching (5 hours) Meaning and Definition Families Elements Description of Concept Attainment and Jurisprudential Inquiry Models Social Science Laboratory (2 hours)	Kochhar, S.K. (2002). The Teaching of Social Studies. New Delhi: Sterling Kumar, S.P.K & Noushad,P.P.(2009). Social Studies in the Classroom: Trends and Methods. Calicut University: Scorpio Publishers Aggarwal, J.C. (2003). Teaching of Social Studies: A Practical Approach. Mumbai: Vikas Publishing House	

	1	1
	Objectives	Clark, L.H.(1973). Teaching
	Resources	Social Studies in Secondary
	Uses	Schools.(2nd Ed.)New York:
	Social Science museum (2	McMillan.
	hours)	
	Purposes	
	Classification of materials	
	Effective utilization	
	Maps (2 hours)	
	Types	
	Elements	
	Uses	Kumar, S.P.K &
	Globes (n2 hours)	Noushad,P.P.(2009). Social
	Types	Studies in the Classroom: Trends
	Advantages	and Methods. Calicut University:
	Time lines (2 hours)	Scorpio Publishers
	Time senses	Aggarwal, J.C. (2003). <i>Teaching</i>
	Devices for developing time	of Social Studies: A Practical
	sense Different types of timelines	Approach. Mumbai:
MODULE IV (15 Hours)	Different types of timelines	Vikas Publishing House
Social Science Library and		
other	Social Science Library and	www.eric.ed.gov/
Reference Materials	other	www.funderstanding.com/
4.1 Social Science Library	Reference Materials	www.eduref.org
4.2 Social Science Text Book	Social Science Library (3	www.inflibnet.ac.in/
4.2 Workbooks, handbooks and	hours)	www.edubuntu.org/
reference	Purposes of library	
materials	Types of library materials	
4.3 Educational websites	How to utilize	
4.4 Uses of INFLIBNET	Classroom library	
4.5 Edubundu	Social Science Text Book (3	
	hours)	
	purposes	
	Qualities	Michaelis, J.U. (1976). Social
	Advantages	Studies for Children in a
	Workbooks, handbooks and	Democracy: Recent Trends
	reference materials (3 hours)	and Development (5th
	Uses and advantages of work	Edition)New Jersey: Prentice
	books	Hall
	Elements of handbooks uses of	Kumar, S.P.K &
	handbooks	Noushad, P.P. (2009). Social
	Educational websites (2 hours)	Studies in the Classroom: Trends
	Eric, eduref, funderstanding etc	and Methods. Calicut University:
	Uses of Inflibnet (2 hours)	Scorpio Publishers
	Familiraise the INFLIBNET	1
MODULE. V (15 Hours)	Facility	
Selecting and Sequencing	Edubundu (2 hours)	
Learning	Advantages of using	
activities		

 5.1 Introductory Activities 5.2 Data Gathering activities 5.3 Organizing and summarizing activities 5.4 Applicative activities 5.5 Creative activities 	Selecting and Sequencing Learningactivities Prepare activities relevant social sciences at school Introductory Activities (3 hours) provide a list of different activities that can be used as introductory activities suitable to the level ask students to prepare Data Gathering activities (3 hours) Activities list some activities to collect data from various sources Organizing and summarizing activities (3 hours) List of different activities under this category Applicative activities List of activities List of activities under this category (Needed to prepare activities suitable for planning instruction)	
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	PROCESS		DESCRIPTION
1.	1 5 6	1.	Select a Unit of the Text books of NCERT and
	curriculum in 9th standard text books of		SCERT having common content area and compare
	state and CBSE school syllabus.		the unit based on focus and organization of subject
			matter. The process is to carried out in groups of 5 –
2.	Identify and List Examples for Fusion,		6 students
	Integration and Correlation in Social	2.	Identify a list of 2-3 examples for fusion, integration
	Sciences		and correlation in groups and present randomly to
			the whole class. The list is to be submitted by the
3.	Draw different types of maps of World,		group.
	India, Kerala and locality /Create a	3.	Draw a historical/political/physical/economic map
	comparative timeline of events in India and world of Modern age/prepare a plan		of india/ world/ locality by each student and
	based on any one Model of Teaching		consolidate in to a map book/ prepare a comparative
4.	Prepare a list 10 of books/Journals in		time line the events in India and world by each
	social sciences with all bibliographic		student and submit.
	details for purchasing to the classroom	4.	Prepare a list of 10 books with all bibliographic
	library/Prepare a Text book Material for a	ĺ	details on history, economics, political science and
	Particular Topic	L	

 List any five Applictive/creative/Data Gathering/ Organizing/Summarising activities that can be used in social science teaching 	 geography in groups / prepare a text book content for a particular theme to secondary school students in groups of 5 -6 students. The text book content should reflect modern pedagogic practices/facilitate process based learning. 5. Each student should prepare a list of activities on any one type of activity and finalize them in groups of 5-6 students and submit.
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EDU 183 PROFESSIONALIZING SOCIAL SCIENCE EDUCATION				
Contact Hours: 75 Hours (Instruction) &15 hours (process)				
Marks : 50 (End semester Examination)& 10 (CE)				
CONTENT	SCOPE	REFERENCES		
MODULE I (10 Hours)	Community Resources In	Aggarwal, J.C. (2003). Teaching		
Community Resources In	Social Sciences (2 hours)	of Social Studies: A Practical		
Social Sciences	What are community resources	Approach. Mumbai:		
1.1 Important Community resources	Importance of community resources	Vikas Publishing House		
1.2 Utilising Community	Important community	Kumar, S.P.K &		
resources in	resources (4 hours)	Noushad, P.P. (2009). Social		
Social Sciences	Places of historical interests	Studies in the Classroom: Trends		
1.3 Ways of Utilising	Places of civic interests	and Methods. Calicut University:		
Community resources	Places of scientific interests etc.	Scorpio Publishers		
	Utilizing community resources			
	(4 hours)– ways of utilizing –			
	bringing school to the			
	community, bringing community			
	to schools			
MODULE II (10 Hours) Co-curricular Activities in Social Science 2.1 Club activities 2.2 Exhibitions 2.3 Field Trips 2.4 Quiz Competitions	Co-curricular Activities in Social Science(2 hours) Importance of co-curricular activities Organizing club activities (2 hours)– procedure in organizing How to conduct an exhibition(2 hours) Field trips (2 hours) Types Planning the trip Conducting the trip Evaluating the trip Quiz completions (2 hours)	Kumar, S.P.K & Noushad,P.P.(2009). Social Studies in the Classroom: Trends and Methods. Calicut University: Scorpio Publishers Or any other relevant book		
	Types Steps in organizing			

MODULE III (10 Hours) 3.Fostering Giftedness and Creativity in Social Sciences 3.1 Higher order thinking skills 3.2 Characteristics of Gifted and creative children 3.3 Fostering giftedness and creativity	Fostering Giftedness and Creativity in Social Sciences Meaning and Definition of Gifted and creative children (2 hours) Higher order thinking skills (2 hours) Critical thinking Problems solving Logical thinking etc. Characteristics of Gifted and Creative Children (2 hours) Fostering giftedness and	Mangal, S.K (1997). <i>Advanced Educational Psychology</i> . New Delhi Prentica Hall of India Or any other relevant book
MODULE IV (25 Hours) IT inputs in Social Science	creativity (4 hours) Learning experiences and special techniques IT inputs in Social Science	
Teaching 4.1 Computer aided teaching 4.2 Using Presentation softwares	Teaching Computer aided teaching Uses of computer in planning,	http://cmap.ihmc.us/ www.ndlrn.edu.au/
 4.3 Module Preparation for E content 4.4 Videoconferencing 4.5 Isograming chicate Error Soft 	instruction and evaluation Using Presentation software MS Office - Power point	www.learningobjects.com/
4.5 learning objects, Free Soft- wares in Social Science, IHMC C Map Tools	presentation Linux - Impress Module preparation for E Content	www.edubuntu.org/
	Objectives Module Glossary	www.ccc-ugc.org/
	Quiz FAQ Summary	
	Video conferencing Advantages Learning Objects	
	A learning object is a collection of content items, practice items, and assessment items that are	
	combined based on a single learning objective. Learning objects offer a new	
	conceptualization of the learning process: rather than the traditional several hour chunk, they provide smaller, self-	
	contained, re-usable units of learning	

	Free soft wares	
	IHMC Concept Map Tools	
MODULE. V (20 Hours)	concept and use	
Becoming a Professional Social	Becoming a Professional Social	
Science Teacher	Science Teacher	
5.1 Teaching as a profession	Teaching as a profession	
5.2 Professional Ethics	Characteristics of a profession	
5.3 Personal and professional	Why teaching is considered as a	
qualities	profession	
of a Social science teacher	Professional ethics	
5.4 Ways and means of	Suggested by NCTE can be used	Kumar, S.P.K &
improving	Personal qualities	Noushad, P.P. (2009). Social
Professionalism.	Human qualities	Studies in the Classroom: Trends
	Integrity etc	and Methods. Calicut University:
	Professional qualities	Scorpio Publishers
	Subject competence	www.ncte.org.in
	Knowledge of methodology etc	

PROCESS	DESCRIPTION
 Make an Observation of a place of historical interest/monument nearer to your residence and prepare a report on it/ Prepare a List of Places of Cultural/Historical// Geographical/Economic/ political/scientific interest of your locality Conduct a quiz competition in the class on a day of national importance/Prepare questions for a quiz programme/Prepare an action plan for social science club 	 Students should individually prepare either a report on a place of historical interest near to the locality of the residence or a list consisting of minimum 3 places of cultural/historical/geographical/economic/political/scien tific interest. Ensure that different students prepare list on different types of community resources 5 questions may be prepared by each group of 5-6 students and distribute the questions to other groups for answers for conducting quiz competition/ each group of 5-6 students should prepare 5 questions on different areas of the theme of the quiz/ prepare an action plan in group of 5-6 students for a club activity and submit. Individual student should prepare a list of 4 activities and submit Each group of 5 -6 students should comlete any one
3. Suggest any four learning activities for a creative/gifted child	activity and submit the product through written/electronic form.
4. Write a Script for developing an e content for a concept/Make of a multimedia package/short film/very short documentary/ puppetry/prepare a C Map using IHMC CMap Tool on topic relevant to social Sciences	 A common topic may be provided for students to prepare an essay/article on the issue by each individual student/review a relevant book/journal article by a group of 5-6 students/ conduct a discussion changing
 Prepare a scholarly article on current issues in education/review a book or journal article/Conduct a discuss on changing role of teacher 	role of teachers