

**MAHATMA GANDHI UNIVERSITY
KOTTAYAM, KERALA**



**TWO YEAR
BACHELOR OF EDUCATION (B.Ed.)
DEGREE PROGRAMME
CREDIT AND SEMESTER SYSTEM WITH GRADING**

**BOARD OF STUDIES IN EDUCATION (UG)
MAHATMA GANDHI UNIVERSITY
2015**

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PREFACE

Teacher Education is broad and comprehensive. It is ever evolving and dynamic. In order to prepare teachers who are competent to face the challenges of the changing society, teacher education has to keep abreast of recent developments and trends. India has made considerable progress in school education since independence with reference to overall literacy, infrastructure and universal access and enrolment in schools. The country has to address the need of supplying well qualified and professionally trained teachers in larger numbers in the coming years. At the same time, the demand for quality secondary education is steadily increasing. The student teacher has to critically examine the conditions of the school, reflect and have the potential to perform the desired role even in conditions of scarcity and deficiency of various kinds which a large number of schools face in our country. It is well known that the quality and extent of learner achievement are determined primarily by teacher competence, sensitivity and teacher motivation. It is a common knowledge too that the academic and professional standards of teachers constitute a critical component of the essential learning conditions for achieving the educational goals.

The student teacher has not only to re organize his/her understanding of the subject specialization learnt previously, but also has to be well equipped with the essentials of pedagogy, competencies and skills required to create a conducive learning environment in schools for each and every learner. The two year B.Ed. programme aims at a complete development of the student teacher particularly in knowledge and skills, in individual care of the learner and also in methods and evaluation designed to facilitate learning. Over the last two decades, the issue of curriculum renewal and extended duration of secondary stage teacher education has received serious attention.

In the process of constructing curriculum for two year B.Ed. programme by the Board of Studies in Education (UG) we received inputs from educationists and experts in teacher education of long standing and experience. The crux of the entire process of teacher education lies in its curriculum, design, structure, organization and transaction modes as well as the extent of its appropriateness. A framework was formulated in the workshop conducted from 4th-7th May 2015. The 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. The new concerns of school curriculum and the expected transactional modalities have been emphasized in designing this framework. Issues related to inclusive education, perspectives for equitable and sustainable development, gender perspectives, ICT as well as e-learning become the centre-stage in the frame work. Transaction of the curriculum and evaluating the developing teacher determine the extent to which the ideas conceptualized are put into practice. The frame work is visualized to act as a catalyst to change the profile of teacher education so that the teacher education institutions become active centres not only of research but also of practical experiments directed to the improvement of education methods and curricula. Group reflection, critical thinking and meaning-making have been encouraged. The maturity of student teachers has been kept in mind while visualizing modes of learning engagements, instead of continuous teacher monitoring and giving greater autonomy to learners.

We are grateful for the constructive suggestions, inspiring guidance and patronage extended by the Honorable Vice Chancellor Dr. Babu Sebastian, the BOS places on record its deep gratitude to Dr. Sheena Shukkur the Pro Vice Chancellor who supported us always wholeheartedly. We thankfully acknowledge Prof. (Dr.) A. Sukumaran Nair, the former Vice Chancellor and International Teacher Educator for his creative suggestions and proper guidance. We take this opportunity to thank one and all who were involved in the process of development of two year B Ed Curriculum.

Kottayam
16/06/2015

Dr. Sreelatha Amma R.
Chairperson
Board of Studies in Education (UG)
Mahatma Gandhi University

CURRICULUM VISION

Enrichment of the new generation teachers with values and life skills, equip them to be professionally competent, adaptable and socially committed to meet the challenges of tomorrow and to become the transmitters, inspirers and promoters of children's eternal quest for knowledge

The Vision Highlights

- Facing the challenges of Education in the modern world.
- Development of Teacher Competence, Sensitivity and Teacher Motivation.
- Laying importance on professional preparation.
- Making conformity with the values enshrined in the constitution.
- Moulding teachers to be technologically competent.
- Knowing of ICT enabled curriculum and e-learning.
- Realizing the importance of inclusive education and gender issues.
- Imbibing Yoga, Health and Physical Education for future life styles.
- Knowing about the 'nature' and measures for environmental sustainability.
- Nurturing children's creativity and aesthetic sensibilities.
- Realizing the importance of evidence based performance assessment.
- Experiencing life skill training.

GENERAL OBJECTIVES

Structuring of the curriculum for two year B Ed programme is designed to enable the student teacher to:

1. uphold the value system based on the cultural, social, political and moral bases of Indian society.
2. identify and solve the prevalent major social and environmental issues / challenges and equip the classroom learner to face those challenges.
3. develop teacher competence, sensitivity and teacher motivation.
4. get ready for professional preparation.
5. become technologically competent and realize the importance of ICT and e-learning.
6. apply the theoretical and practical information to get a holistic understanding about the importance of nurturing positive attitudes, skills and healthy behavior for living in the present and future.
7. imbibe the aptitude for understanding the principles and practices related to the varied psychological, sociological and philosophical areas to facilitate productive cognition.
8. focus on communicative English which will help the student teachers to communicate well in diverse settings and groups.
9. conceptualize different formal and informal evidence based performance assessment strategies and develop ability to evaluate the continuous intellectual, social and physical development of the learners.
10. enhance drama and art education to nurture children's creativity and aesthetic sensibilities.
11. enhance the critical thinking skills through strategies that encourage precise approach to inquiry, collaboration and active participation in the classrooms.
12. acquire the right attitude with qualitative commitment using multiple levels of tools and techniques.

CURRICULUM REGULATIONS, 2015

(WITH EFFECT FROM 2015 ADMISSIONS)

1. TITLE

These regulations shall be called “Regulations for the Two Year B.Ed. Programme” under Credit and Semester System with Indirect Grading, 2015.

2. SCOPE

- 2.1** Applicable to Regular B.Ed. programme conducted by Mahatma Gandhi University, Kottayam with effect from 2015-2017 Admissions.
- 2.2** The Programme conducted in distance /off campus and private registration shall not come under the purview of this regulation.
- 2.3** The provisions herein supersede all the existing regulations for the regular B.Ed. programme to the extent herein prescribed.

3. DEFINITIONS

- 3.1 Programme:** - Programme means a patterned combination and sequences of courses in the discipline education spreading over four semesters, according to the regulations, the successful completion of which would lead to the award of the degree.
- 3.2 Semester:** Semester means a term consisting of a minimum of 600 contact hours distributed over 100 working days exclusive of admission and examination days within 20 academic weeks.
- 3.3 Academic week:** Academic week is a unit of five working days in which distribution of work is organized from day one to day five, with six contact hours on each day. A sequence of 20 such academic weeks constitutes a semester.
- 3.4 Credit:** Credit is a unit of input measured in terms of student’s study hours devoted to various aspects of the teaching-learning process. One credit for the B.Ed. programme is deemed equivalent to 20 study hours. Students can earn and accumulate credits on the basis of the number and types of tasks, they have successfully completed. All the tasks that carry credits are compulsory.

- 3.5 Course:** Course means a complete integrated series of instructional content/lessons which are identified by a common title and will be taught and evaluated within a semester.
- 3.6 Core course:** Core course means a course that comes under the category of courses which is compulsory for all students undergoing B. Ed. Programme.
- 3.7 Pedagogic Course:** - Pedagogic Course means a course in the subject of specialization within the B.Ed. Programme.
- 3.8 Associate Course:** Associate Course means a course which would enrich B.Ed. Programme.
- 3.9 College Coordinator:** College Coordinator is a teacher nominated by the college staff council to coordinate the continuous evaluation undertaken by various course coordinators within the college. He/ She shall be nominated to the college level monitoring committee.
- 3.10 Course coordinator:** Course coordinator is a teacher nominated by the college to coordinate the continuous evaluation undertaken in that course.
- 3.11 Staff Council:** Staff Council means the body of all teachers of the college.
- 3.12 Faculty Advisor:** Faculty Advisor means a teacher from the college nominated by the staff council who will advise the students in the academic matters.
- 3.13 Grace Marks:** Grace Marks shall be awarded to candidates as per the University Orders issued from time to time.
- 3.14 Grade:** Grade means a letter symbol (eg: A, B, C, etc.) which indicates the broad level of performance of a student in a Course/ Semester/ Programme.
- 3.15 Grade Point:** Grade point is the numerical indicator of the percentage of marks awarded to a student in a course.
- 3.16** Words and expressions used and not defined in this regulation shall have the same meaning assigned to them in the University Act and Statutes.
- 4. ELIGIBILITY FOR ADMISSION AND RESERVATION OF SEATS:**
- 4.1** Eligibility for admission, Norms for admission and Reservation of seats for B.Ed. Programme shall be according to the rules framed by the University and Government from time to time.
- 5. DURATION**
- 5.1** Duration of B.Ed. programme shall be 4 semesters spread over two years.

- 5.2** The duration of odd semester shall be from June to October and that of even semesters from November to March. There shall be three days semester break after each semester and two months vacation during April and May in every academic year.
- 5.3** A student may be permitted to complete the programme, on valid reasons within a period of three years from the date of admission to the programme.
- 5.4 Re-admission:** Those candidates who discontinue the course can be given the provision of readmission if otherwise eligible as long as the same scheme exists. If there is a change in the scheme any time later, candidate will have to join the course as a fresh entrant, if otherwise eligible.
- 5.5 Transitory regulations:** Whenever a course/ scheme of instruction is changed in a particular year, two more examinations immediately following thereafter shall be conducted according to the old syllabus/ scheme. Failed candidates or candidates who could not appear for these examinations have to attend classes for the new course, according to the changed syllabus/ regulations.

6. REGISTRATION

- 6.1** The strength of students for the programme shall be in accordance with the NCTE Regulations, Government rules and orders and University rules
- 6.2** Each student shall register for the course in the prescribed registration form in consultation with the faculty advisor within two weeks from the commencement of each semester. Faculty adviser shall permit registration on the basis of the preferences of the students and availability of seats.
- 6.3** The number of courses/ credits that a student can take in a semester is governed by the provisions in these regulations pertaining to the minimum and maximum number of credits permitted.
- 6.4** A student can opt out of a course/ courses registered subject to the minimum credits requirement within seven days from the commencement of the semester.
- 6.5** The college shall send a list of students registered for B.Ed. Programme in each semester giving the details of courses registered including repeat course to the University in the prescribed form within 20 days from the commencement of the semester.

7. 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.

8. ATTENDANCE

8.1 A student shall be considered to have satisfactory attendance to appear the examination if he/she attends not less than 80% of the working days for all the theory courses and practicum and 90% of the working days for 20 weeks (4+16) School Internship. Condonation of shortage of attendance shall be as per existing University statutes and rules. Candidates with shortage of attendance beyond the condonable limit will not be eligible to register for End Semester University Examination. In such cases the candidate has to repeat the programme/course by taking re-admission with the concurrence of the University. Condonation of attendance shall be limited to once during the entire programme.

8.2 All the courses carrying credits/grades should be compulsorily attended by all the candidates for the successful completion of the programme. Only such candidates are permitted to register for the End Semester University Examination.

8.3 Candidates who register his/her name for the End Semester University Examination for a semester will be eligible for promotion to the next semester.

8.4 A student who has completed the entire curriculum requirement, but could not register for the semester examination can register notionally for getting eligibility for promotion to the next semester subject to the concurrence of University.

8.5 All the practical works (Engagement with the field) related to all the courses have to be compulsorily completed by all the students to be eligible for appearing for the practical examination of the External Practical Board.

8.6 Students who are eligible/have attended the practical examinations of the External Practical Board, alone will be permitted to register for theory examinations.

9. EXAMINATION

9.1 The evaluation of each theory course shall contain two parts.

(a) Internal or In Semester Assessment (ISA)

(b) External or End Semester Assessment (ESA)

- 9.2** The evaluation of practical course shall be conducted by internal or In Semester Assessment. Standardization of the assessment shall be done by external examination board constituted by the University.
- 9.3** There will be no supplementary examinations. For reappearance / improvement, the students can reappear along with the next batch.
- 9.4** A candidate who has not secured minimum marks/ credit in internal examinations can re-do the same in concurrence with the University. They should register and reappear for external examination along with the subsequent batch.
- 9.5** A candidate who has not secured minimum marks/ grades in external examinations in any of the course/ courses can reappear for the same within the specified period mentioned in 5.3.
- 9.6** A candidate who has secured minimum marks/ grades in external examinations in all the courses and fails to get semester minimum has to reappear for all the courses within the specified period mentioned in 5.3.
- 9.7** A candidate who failed to secure minimum grade points in any of the courses of B.Ed. programme, can re-do the same with the ensuing batch in concurrence with the University.
- 9.8** All courses shall have unique alphanumeric code. Each teacher working in affiliated institutions shall have a unique identification number and this number is to be attached with the codes of the courses for which he/she can perform examination duty.

10. CREDIT POINT AND CREDIT POINT AVERAGE

- 10.1** Credit Point (CP) of a course is calculated using the formula,

$$\text{CP} = \text{C} \times \text{GP}, \text{ Where C= Credit, G P = Grade Point}$$

- 10.2** Credit Point Average (CPA) of a Semester / Programme is calculated using the formula,

$$\text{CPA} = \frac{\text{TCP}}{\text{TC}}, \quad \text{Where TCP = Total Credit Point}$$

TC = Total Credit

10.3 Semester Credit Point Average shall be denoted as SCPA and Cumulative Credit Point Average as CCPA.

10.4 Cumulative Credit point Average (CCPA)
 $= \frac{\text{SCPA I} + \text{SCPA II} + \text{SCPA III} + \text{SCPA IV}}{4}$

where, SCPA is Credit Point Average (CPA) of a Semester

10.5 For all courses (Theory and Practical), grades are given on a 7 point scale based on the total percentage of marks as given below. For theory courses total mark is calculated by adding internal and external marks. For practical courses total mark is calculated by considering the internal assessment of each component during 1st semester and that of 2nd, 3rd and 4th semesters are calculated by considering internal marks and the standardization procedure executed by the respective external examination boards.

Percentage of Marks	Grade	Grade Point
90 and above	A+ - Outstanding	10
80-89	A - Excellent	9
70-79	B - Very Good	8
60-69	C - Good	7
50-59	D - Satisfactory	6
40-49	E - Adequate	5
Below 40	F - Failure	4

Note: Decimals are to be rounded to the next whole number

Overall grade and Semester grade for the B. Ed. Programme is calculated on a 7 point scale. Grades for the different semesters and overall programme are given based on the corresponding **CPA** as shown below.

Grades for the different semesters and overall programme based on the corresponding CPA

CPA	Grade
Above or equal to 9.5	A+ - Outstanding
Above or equal to 9, but below 9.5	A - Excellent
Above or equal to 8, but below 9	B -Very Good
Above or equal to 7, but below 8	C - Good
Above or equal to 6, but below 7	D – Satisfactory
Above or equal to 5, but below 6	E –Adequate
Below 5	F – Failure

10.6 For a pass in the examination of B.Ed. programme, a candidate should secure a minimum of E Grade (CPA= 5) in aggregate for each semester with a minimum of E Grade (40% marks) in each theory course and D Grade (50% marks) for each practical course (Engagement with the field) and viva-voce. A separate minimum of 30% marks each for internal and external assessment of all individual theory courses is required for pass for a course.

11. GRIEVANCE REDRESSAL MECHANISM

Internal assessment shall not be used as a tool for personal or other type of vengeance. A student has all rights to know, how the teacher arrived at the marks. In order to address the grievance of students a three-level Grievance Redressal mechanism is envisaged. A student can approach the upper level only if grievance is not addressed at the lower level.

Level 1: Dept. Level: The department cell chaired by the College Coordinator; and the Course Coordinator and the Faculty advisor, as members.

Level 2: College Level: A committee with the Principal as Chairman, College Coordinator; Course Coordinator and Faculty advisor, as members.

Level 3: University Level: A Committee constituted by the Vice-Chancellor as Chairman and Pro-Vice-Chancellor, Convener - Syndicate sub-

committee on Students Discipline and Welfare, Chairman- Board of Examinations as members and the Controller of Examinations as member-secretary.

12. INTERNAL ASSESSMENT

The internal assessment of all components of theory courses are to be published before the University Examinations and are to be acknowledged by the candidates. All the details of internal assessment are to be kept in the college for two years after the end of the programme and shall be made available for verification by the University if needed. All the documents and records pertaining to the practical courses shall be made available before the External Examination Board constituted by the University. The responsibility of internal assessment is vested on the course coordinator. If any irregularities are found in the matter of examination, it shall be reported to the University.

13. MARK CUM GRADE CARD

The University under its seal shall issue to the students a MARK CUM GRADE CARD on completion of each semester, which shall contain the following information:

- (a) Name of the University
- (b) Name of the College
- (c) Title of the Programme
- (d) Name of the Semester
- (e) Name and Register Number of the student
- (f) Code, Title, Credits and Max. Marks (Int., Ext. & Total) of each course opted in the semester.
- (g) Internal, External and Total Marks awarded, Grade, Grade point and Credit point in each course opted in the semester
- (h) University Average of the External Exam in each course.
- (i) The total credits, total marks (Max. & Awarded) and total credit points in the semester
- (j) Semester Credit Point Average (SCPA) and corresponding Grade.
- (k) Cumulative Credit Point Average (CCPA) corresponding to Core courses, Pedagogic Courses and Associate Courses (separately and together) and whole programme, as the case may be.

- (l) The final Mark Cum Grade Card issued at the end of the final semester shall contain the details of all courses taken during the final semester examination and shall include the final grade/marks scored by the candidate from **I to III** Semesters, as the case may be, and the overall grade/marks for the total programme.

14. There shall be **3 level monitoring committees** for the successful conduct of the Programme. They are:

Level 1: Dept. Level: The department cell chaired by the College Coordinator; and the Course Coordinator and the Faculty advisor, as members.

Level 2: College Level: A committee with the Principal as Chairman, College Coordinator; Course Coordinator and Faculty advisor, as members.

Level 3: University Level: A Committee constituted by the Vice-Chancellor as Chairman and Pro-Vice-Chancellor, Convener - Syndicate sub-committee on Students Discipline and Welfare, Chairman- Board of Examinations as members and the Controller of Examinations as member-secretary.

15. TRANSITORY PROVISION

Notwithstanding anything contained in these regulations, the Vice-Chancellor shall, for a period of one year from the date of coming into force of these regulations, have the power to provide by order that these regulations shall be applied to any programme with such modifications as may be necessary.

16. PROVISION

The CBCSS Regulations 2014, now in force are applicable to programme offered by the University to admissions made up to and including the academic year 2014-2015.

Annexure 1a : Model Mark Cum Grade Card (I Sem)
MAHATMA GANDHI UNIVERSITY
Priyadarshni Hills P.O.

Section:

Student ID:

Kottayam

Date:

MARK CUM GRADE CARD

Name of the Candidate :
Name of the College :
Permanent Register Number (PRN) : Degree : Bachelor of Education
Programme : B.Ed
Stream : English Education
Name of Examination : First Semester Examination November 2015

Course Code	Course Title	Credits (C)	Marks						Grade Awarded (G)	Grade Point (GP)	Credit Point (C x GP)	Institution Average (IA)	University Average (UA)	Result
			External		Internal		Total							
			Awarded (E)	Max	Awarded (I)	Max	Awarded (E+I)	Max						
CORE COURSES														
EDU 101	Contemporary India and Education	5	62	80	15	20	77	100	B	8	40	34.32	28.48	Pass
EDU 102	Childhood and Growing Up	5	46	80	16	20	62	100	C	7	35	29.34	27.89	Pass
EDU 103	Development and Resources in Educational Technology.	3	37	50	6	10	43	60	B	8	24	18.09	12.34	Pass
PEDAGOGIC COURSES														
EDU 104.11	Understanding the Discipline of English	3	46	50	6	10	52	60	A	9	27	22.46	20.45	Pass
EDU 105.11	Learning to function as English teacher	3	48	50	7	10	55	60	A+	10	30	26.89	20.34	Pass
ASSOCIATE COURSES														
EDU 106	Elective	3	38	50	8	10	46	60	B	8	24	16.90	21.98	Pass
PRACTICAL COURSES														
EDU 107.1	Core	2	-	-	30	40	30	40	B	8	16	12	13	Pass
EDU 107.2	Pedagogic	4	-	-	70	80	70	80	B	8	32	30	29	Pass
EDU 107.3	Health & Physical Education	1	-	-	15	20	15	20	B	8	8	6	5	Pass
EDU 107.4	Drama & Art in Education	1	-	-	15	20	15	20	B	8	8	6	5	Pass
	TOTAL	30						600			244			Pass

	SCPA I : 8.06; SG : B													
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Annexure 1b : Model Mark Cum Grade Card (IISem)
MAHATMA GANDHI UNIVERSITY

Section: Priyadarshni Hills P.O.

Student ID:

Kottayam
Date:

MARK CUM GRADE CARD

Name of the Candidate :
 Name of the College :
 Permanent Register Number (PRN) : Degree : Bachelor of Education
 Programme : B.Ed
 Stream : English Education
 Name of Examination : Second Semester Examination November 2015

Course Code	Course Title	Credits (C)	Marks						Grade Awarded (G)	Grade Point (GP)	Credit Point (C x GP)	Institution Average (IA)	University Average (UA)	Result
			External		Internal		Total							
			Awarded (E)	Max	Awarded (I)	Max	Awarded (E+I)	Max						
	CORE COURSES													
EDU 201	Knowledge and Curriculum	5	62	80	15	20	77	100	B	8	40	34.32	28.48	Pass
EDU 202	Learning and Teaching	5	60	80	16	20	76	100	B	8	40	39.34	37.89	Pass
EDU 203	Assessment for Learning	3	40	50	6	10	46	60	B	8	24	18.09	22.34	Pass
	PEDAGOGIC COURSES													
EDU 204.11	Pedagogical Dimensions of English	3	46	50	6	10	52	60	A	9	27	22.46	20.45	Pass
EDU 205.11	Curriculum and Resource Development in English Education	3	48	50	7	10	55	60	A+	10	30	26.89	30.34	Pass
	PRACTICAL COURSES													
EDU 206.1	Core	4	-	-	75	80	75	80	B	8	32	30.9	31.98	Pass
EDU 206.2	Pedagogic	5	-	-	91	100	91	100	A+	10	50	42.90	40	Pass
EDU 206.3	Health & Physical Education	1	-	-	15	20	15	20	B	8	8	7	6	Pass
EDU 206.4	Drama & Art in Education	1	-	-	15	20	15	20	B	8	8	7	5	Pass
	TOTAL	30						600		259				Pass
	SCPA II 8.63; SG : B													

Annexure 1c : Model Mark Cum Grade Card (III Sem)
MAHATMA GANDHI UNIVERSITY

Section: Priyadarshni Hills P.O.

Student ID:

Kottayam

Date:

MARK CUM GRADE CARD

Name of the Candidate :
 Name of the College :
 Permanent Register Number (PRN) : Degree : Bachelor of Education
 Programme : B.Ed
 Stream : English Education
 Name of Examination : Third Semester Examination November 2015

Course Code	Course Title	Credits (C)	Marks						Grade Awarded (G)	Grade Point (GP)	Credit Point (C x GP)	Institution Average (IA)	University Average (UA)	Result
			External		Internal		Total							
			Awarded (E)	Max	Awarded (I)	Max	Awarded (E+I)	Max						
	ASSOCIATE COURSE													
EDU 301	Language Across the Curriculum	3	42	50	8	10	50	60	A	9	27	24.3	18.48	Pass
	PRACTICAL COURSES													
EDU 302.1	Core	4	-	-	72	80	72	80	A	9	36	34.5	27.89	Pass
EDU 302.2	Pedagogic	18	-	-	300	360	300	360	B	8	144	133.13	123.34	Pass
EDU 302.3	Health & Physical Education	2	-	-	36	40	36	40	A	9	18	18.017	10.45	Pass
EDU 302.4	Drama & Art in Education	1	-	-	17	20	17	20	A	9	9	9.1	8.6	Pass
	Viva-voce	2	-	-	35	40	35	40	A+	10	20	18	17	Pass
	TOTAL	30						600			254			
	SCPA III : 9; SG : A													

Annexure Id : Model Mark Cum Grade Card (IVSem)

MAHATMA GANDHI UNIVERSITY

Section: Priyadarshni Hills P.O.

Student ID: Kottayam
Date:

MARK CUM GRADE CARD

Name of the Candidate :
 Name of the College :
 Permanent Register Number (PRN) : Degree : Bachelor of Education
 Programme : B.Ed
 Stream : English Education
 Name of Examination : Fourth Semester Examination November 2015

Course Code	Course Title	Credits (C)	Marks						Grade Awarded (G)	Grade Point (GP)	Credit Point (C x GP)	Institution Average (IA)	University Average (UA)	Result
			External		Internal		Total							
			Awarded (E)	Max	Awarded (I)	Max	Awarded (E+I)	Max						
	CORE COURSES													
EDU 401	Gender, School and Society	5	62	80	15	20	77	100	B	8	40	54.32	48.48	Pass
EDU 402	Personality Dynamics in Education	5	46	80	16	20	62	100	C	7	35	49.34	47.89	Pass
	PEDAGOGIC COURSE													
EDU 403	Professional Development of English teacher	3	41	50	6	10	47	60	B	8	24	58.09	52.34	Pass
	PRACTICAL COURSES													
EDU 404.1	Core	7	-	-	130	140	130	140	A	9	63	62	53	Pass
EDU 404.2	Pedagogic	6	-	-	110	120	110	120	A	9	54	30	29	Pass
EDU 404.3	Health & Physical Education	1	-	-	15	20	15	20	B	8	8	6	5	Pass
EDU 404.4	Drama and Art in Education	1	-	-	10	20	15	20	B	8	8	6	5	Pass
EDU 404.5	Communicative English	2	-	-	30	40	30	40	B	9	18	17	16	Pass
	TOTAL	30						600			250			

SCPA IV : 8.16, SG : B SCPA III :9, SG :A SCPA II :8.63, SG :B SCPA I :8.06, SG :A														
CCPA OF PROGRAMME	8.46	G:B												

Annexure - Reverse side of the Mark Cum Grade Card (common to all semesters)

Description of the Evaluation Process

Grade and Grade Point

Grades and Grade Points are given on a 7-point Scale based on the percentage of Total Marks as given in Table 1

Table 1

%Marks	Grade	Grade Point
90 and above	A+ - Outstanding	10
80-89	A - Excellent	9
70-79	B - Very Good	8
60-69	C - Good	7
50-59	D - Satisfactory	6
40-49	E - Adequate	5
Below 40	F - Failure	4

Overall grade and Semester grade for the B. Ed. Programme is calculated on a 7 point scale. Grades for the different semesters and overall programme are given based on the corresponding **CPA** as shown below.

CPA	Grade
Above or equal to 9.5	A+ - Outstanding
Above or equal to 9, but below 9.5	A - Excellent
Above or equal to 8, but below 9	B -Very Good
Above or equal to 7, but below 8	C - Good
Above or equal to 6, but below 7	D – Satisfactory
Above or equal to 5, but below 6	E –Adequate
Below 5	F – Failure

Credit point (**CP**) of a Course is calculated using the formula
 $CP = C \times GP$, where **C = Credit**, **GP = Grade Point**

Credit Point Average (**CPA**) of a **Semester** is calculated using the formula

$$SCPA = \frac{TCP}{TC}$$

Where **TCP = Total Credit Point**;
TC = Total Credit

MAHATHMA GANDHI UNIVERSITY, KOTTAYAM

CURRICULUM DESIGN OF TWO YEAR B.Ed. PROGRAMME- 2015

The Board of Studies in Education (U.G.) proposed the Curriculum Design of Two Year B.Ed. programme in tune with the guidelines of NCFTE (2009), NCTE (2014), and NCERT. The restructured programme shall be implemented with effect from 2015-17 academic year. The layout of the new programme is conceived as comprising of three broader areas as follows:

A.PERSPECTIVES IN EDUCATION - Learner Studies, Contemporary Studies, Educational Studies

B.CURRICULUM AND PEDAGOGIC STUDIES - Curriculum Studies and Pedagogic Studies

C. ENGAGEMENT WITH THE FIELD - Professional capacities, Teacher sensibilities and skills. (School Internship)

I. PROGRAMME FRAMEWORK

Semester	Working Days	Working Hours	Marks		Credits		Total	
			Theory	Practical	Theory	Practical	Marks	Credit
I	100	600	440	160	22	8	600	30
II	100	600	380	220	19	11	600	30
III	100	600	60	540	3	27	600	30
IV	100	600	260	340	13	17	600	30
Total	400	2400	1140	1260	57	63	2400	120

II. COURSE STRUCTURE OF THE PROGRAMME

A. Theory Courses :

Courses	Sem I	Sem II	Sem III	Sem IV
Core Courses	EDU 101 EDU 102 EDU 103	EDU 201 EDU 202 EDU 203		EDU 401 EDU 402
Pedagogic Courses	EDU 104 EDU 105	EDU 204 EDU 205	-----	EDU 403
Associate Courses	EDU 106	----	EDU 301	

B. Engagement with the field (Practical): Comprised of College Based, School Based and Community Based Practicals

Courses	Semester I	Semester II	Semester III	Semester IV
Core- EPC1,EPC2,EPC3,EPC4	EDU 107.1	EDU 206.1	EDU 302.1	EDU 404.1
Pedagogic- EPC1,EPC2EPC3,EPC4	EDU 107.2	EDU 206.2	EDU 302.2	EDU 404.2
Health & Physical Education, EPC4	EDU 107.3	EDU 206.3	EDU 302.3	EDU 404.3
Drama and Art in Education-EPC2	EDU 107.4	EDU 206.4	EDU 302.4	EDU 404.4
Communicative English- EPC 1	-----	-----	-----	EDU 404.5

NB: EPC-Enhancing Professional Capacities

- EPC 1-Reading and Reflecting on Texts
- EPC 2-Drama and Art in Education
- EPC 3-Critical Understanding of ICT
- EPC 4- Understanding the Self

III.SEMESTER WISE PROGRAMME FRAME

Semester 1

Category	Course Code	Course Name	Instructional Hours	Marks			Credit
				External	Internal	Total	
Theory	Core EDU101	Contemporary India and Education	100	80	20	100	5
	Core EDU102	Childhood and Growing Up	100	80	20	100	5
	Core EDU103	Development and Resources in Educational Technology	60	50	10	60	3
	Pedagogic EDU104	Understanding the Discipline of ----- Education	60	50	10	60	3
	Pedagogic EDU105	Learning to function as.....teacher	60	50	10	60	3

	Associate- EDU 106	Elective	60	50	10	60	3
Practical/ Engagem ent with the field	EDU 107.1	Core- EPC1, EPC2, EPC3, EPC4	40	--	40	40	2
	EDU 107.2	Pedagogic- EPC1, EPC2, EPC3, EPC4	80	--	80	80	4
	EDU 107.3	Health& Physical Education- EPC4	20	--	20	20	1
	EDU 107.4	Drama and Art in Education- EPC2	20	--	20	20	1
Semester Total			600	360	240	600	30

Semester II

Category	Course code	Course name	Instructional Hours	Marks			Credit
				External	Internal	Total	
Theory	Core EDU201	Knowledge and Curriculum	100	80	20	100	5
	Core EDU202	Learning and Teaching	100	80	20	100	5
	Core EDU203	Assessment for learning	60	50	10	60	3
	Pedagogic EDU204	Pedagogical Dimensions of... ..	60	50	10	60	3
	Pedagogic EDU205	Curriculum and Resource Development in....Education	60	50	10	60	3
Practical/ Engagement with the field (Includes School Internship-Phase I)	EDU206.1	Core- EPC1,EPC2,EPC3,E PC4	80	--	80	80	4
	EDU206.2	Pedagogic- EPC1,EPC2, EPC3,EPC4	100	--	100	100	5
	EDU206.3	Health& Physical Education- EPC4	20	--	20	20	1
	EDU206.4	Drama and Art in Education- EPC2	20	--	20	20	1
Semester Total			600	310	290	600	30

Semester III

Category	Course Code	Course name	Instructional Hours	Marks			Credit
				External	Internal	Total	
Theory	EDU 301	Language Across the Curriculum	60	50	10	60	3
Practical/ Engagement with the field(Includes School Internship- Phase II)	EDU302.1	Core- EPC1,EPC2,EPC3,EPC4	80		80	80	4
	EDU302.2	Pedagogic- EPC1,EPC2, EPC3,EPC4,	360		360	360	18
	EDU302.3	Health& Physical Education, EPC4	40		40	40	2
	EDU302.4	Drama and Art in Education- EPC2	20		20	20	1
		Viva-voce	40	40	----	40	2
Semester Total			600	90	510	600	30

Semester IV

Category	Course code	Course name	Instructional Hours	Marks			Credit
				External	Internal	Total	
Theory	Core EDU401	Gender, School and Society	100	80	20	100	5
	Core EDU402	Personality Dynamics in Education	100	80	20	100	5
	Pedagogic EDU403	Professional Development of..... Teacher	60	50	10	60	3
Practical/ Engagement with the field	EDU404.1	Core- EPC1,EPC2, EPC3,EPC4	140	--	140	140	7
	EDU404.2	Pedagogic- EPC1,EPC2, EPC3,EPC4,	120	--	120	120	6
	EDU404.3	Health& Physical Education- EPC4.	20	--	20	20	1
	EDU404.4	Drama and Art in Education- EPC2	20	--	20	20	1
	EDU404.5	Communicative English- EPC 1	40		40	40	2
Semester Total			600	210	390	600	30
Programme Total			2400	970	1430	2400	120

IV. SCHEME OF ASSESSMENT

A . Internal evaluation of theory courses

a. Theory Courses with Credit 5

Title	No of Tasks @ course	Marks	Total Marks
Internal Test	2	10	20
Practicum	1	10	

b. Theory Courses with Credit 3

Title	No. of Tasks @ course	Marks	Total marks
Internal Test	2	5	10
Practicum	1	5	

NB: A detailed report of the Practicum is to be prepared by each student teacher for each course.

B. External evaluation of Theory Courses

Semester 1

Course Code	Course name	Duration of examination External (Hrs)	Marks		
			External	Internal	Total
Core EDU 101	Contemporary India and Education	3	80	20	100
Core EDU 102	Childhood and Growing up	3	80	20	100
Core EDU 103	Development and Resources in Educational Technology	2	50	10	60
Pedagogic EDU 104	Understanding the Discipline of ----- Education	2	50	10	60
Pedagogic EDU 105	Learning to function as ----- Teacher	2	50	10	60
Associate EDU 106	Elective	2	50	10	60

Semester II

Course Code	Course name	Duration of examination External (Hrs)	Marks		
			External	Internal	Total
Core EDU 201	Knowledge and Curriculum	3	80	20	100
Core EDU 202	Learning and Teaching	3	80	20	100
Core EDU 203	Assessment for Learning	2	50	10	60
Pedagogic EDU 204	Pedagogical Dimensions ofEducation	2	50	10	60
Pedagogic EDU 205	Curriculum and Resource Development in.....Education	2	50	10	60

Semester III

Course code	Course title	Hours	External marks	Internal marks	Total marks
Associate Course EDU 301	Language Across the Curriculum	2 hours	50	10	60

Semester IV

Course code	Course name	Duration of examination- External (Hrs)	Marks		
			External	Internal	Total
Core EDU 401	Gender, School and Society	3	80	20	100
Core EDU 402	Personality Dynamics in Education	3	80	20	100
Pedagogic EDU 403	Professional Development ofTeacher	2	50	10	60

C. Pattern of Questions

Form of questions	Number of questions		Total marks	
	Courses with Credit 5	Courses with Credit 3	Courses with Credit 5	Courses with Credit 3
Very short answer	10	10	10	10
Short answer	8/12	5/6	16	10
Short Essay/Problem Solving	6/9	5/7	24	20
Essay/Higher Order Thinking	2/4	1/2	30	10
Total	35	25	80	50

V. LIST OF COURSES

A.CORE COURSES

EDU 101 Contemporary India and Education

EDU 102 Childhood and Growing up

EDU 103 Development and Resources in Educational Technology

EDU 201 Knowledge and Curriculum

EDU 202 Learning and Teaching

EDU 203 Assessment for Learning

EDU301 Language Across the Curriculum

EDU401 Gender, School and Society

EDU402 Personality Dynamics in Education

B. PEDAGOGIC COURSES

EDU 104.1 1 Understanding the Discipline of English Education

EDU 104.1 2 Understanding the Discipline of Malayalam Education

EDU 104.1 3 Understanding the Discipline of Hindi Education

EDU 104.1 4 Understanding the Discipline of Sanskrit Education

EDU 104.1 5 Understanding the Discipline of Arabic Education

EDU 104.1 6 Understanding the Discipline of Mathematics Education

EDU 104.1 7 Understanding the Discipline of Physical Science education

EDU 104.1 8 Understanding the Discipline of Natural Science Education

EDU 104.1 9 Understanding the Discipline of Social Science Education

EDU 104.20 Understanding the Discipline of Commerce Education

**EDU 104.21 Understanding the Discipline of IT and Computer Science
Education**

EDU 105.11 Learning to function as English teacher

EDU 105.1 2 Learning to function as Malayalam teacher

EDU 105.1 3 Learning to function as Hindi teacher

EDU 105.1 4 Learning to function as Sanskrit teacher

EDU 105.15 Learning to function as Arabic teacher

EDU 105.1 6 Learning to function as Mathematics teacher

EDU 105.1 7 Learning to function as Physical Science teacher

EDU 105.1 8 Learning to function as Natural Science teacher

EDU 105.1 9 Learning to function as Social Science teacher

EDU 105.20 Learning to function as Commerce teacher

EDU 105.21 Learning to function as IT and Computer Science teacher

EDU 204.11 Pedagogical Dimensions of English
EDU 204.12 Pedagogical Dimensions of Malayalam
EDU 204.13 Pedagogical Dimensions of Hindi
EDU 204.14 Pedagogical Dimensions of Sanskrit
EDU 204.15 Pedagogical Dimensions of Arabic
EDU 204.16 Pedagogical Dimensions of Mathematics
EDU 204.17 Pedagogical Dimensions of Physical Science
EDU 204.18 Pedagogical Dimensions of Natural Science
EDU 204.19 Pedagogical Dimensions of Social Science
EDU 204.20 Pedagogical Dimensions of Commerce
EDU 204.21 Pedagogical Dimensions of IT and Computer Science

EDU 205.11 Curriculum and Resource Development in English Education
EDU 205.12 Curriculum and Resource Development in Malayalam Education
EDU 205.13 Curriculum and Resource Development in Hindi Education
EDU 205.14 Curriculum and Resource Development in Sanskrit Education
EDU 205.15 Curriculum and Resource Development in Arabic Education
**EDU 205.16 Curriculum and Resource Development in Mathematics
Education**
**EDU 205.17 Curriculum and Resource Development in Physical Science
Education**
**EDU 205.18 Curriculum and Resource Development in Natural Science
Education**
**EDU 205.19 Curriculum and Resource Development in Social Science
Education**
EDU 205.20 Curriculum and Resource Development in Commerce Education

EDU 205.21 Curriculum and Resource Development in IT and Computer Science Education

EDU 403.11 Professional Development of an English teacher

EDU 403.12 Professional Development of Malayalam teacher

EDU 403.13 Professional Development of Hindi teacher

EDU 403.14 Professional Development of Sanskrit teacher

EDU 403.15 Professional Development of Arabic teacher

EDU 403.16 Professional Development of Mathematics teacher

EDU 403.17 Professional Development of Physical Science teacher

EDU 403.18 Professional Development of Natural Science teacher

EDU 403.19 Professional Development of Social Science teacher

EDU 403.20 Professional Development of Commerce teacher

EDU 403.21 Professional Development of IT and Computer Science teacher

C. ASSOCIATE COURSE –ELECTIVE

EDU 106.11 Health and Physical Education

EDU 106.12 Guidance and Counselling

EDU 106.13 Elementary Education

EDU 106.14 Environmental Education

EDU 106.15 Special Education

VI . PROCEDURE OF ASSESSMENT

The performance of student teachers shall be evaluated by both external and internal assessment mechanisms. A student teacher portfolio showcasing all practical and practicum and its internal assessment shall be maintained by every student teacher. It shall be duly signed by course coordinator, college coordinator, and the principal and shall be made available for verification. A separate certificate for Competency Profile together with a college certified digital copy of the best class presented by the student teacher shall be given to him/her along with the University Certificate.

Competency Profile shall be prepared by the institution. The following competencies may be considered for preparing competency profile.

- Knowledge management
- Communication
- Instructional Designing
- Class room Management
- Instructional Management
- Student Assessment
- Student Diagnosis
- Professionalism

A. EXTERNAL EVALUATION:

i. External evaluation of all theory courses shall be done by End Semester Examinations conducted by the university.

ii. External evaluation of practical courses in the III and IV semesters shall be done by the examination board constituted by the University from time to time. There shall be no external examination for practical courses in the I and II semesters. The present practice of appointing Zonal Examination Boards on the basis of existing norms shall be continued. In addition, each Zonal Examination Board shall have one expert from the stream of core or associate courses. The examination board of the IV semester shall comprise of the Zonal chairperson and one expert from the stream of Core or Pedagogic courses. The examination board of the III semester shall comprise of the Zonal chairperson and experts from the stream of Pedagogic Courses and Health and Physical Education. The examination board shall evaluate the teaching competence of each student teacher by observing the classroom teaching in the III semester. The examination board shall evaluate all the documentary evidences in the form of records, reports, materials and soft copies in respect of the student teacher portfolio in the respective semesters. The standardization process of internal assessment shall be done by estimating the average of internal and external assessment marks assigned by the Institution and External Board respectively. The institution shall hand over the internal assessment marks only to the Zonal Chairperson/Coordinating Chairperson. It is the duty of the Zonal Chairperson to

compile the internal assessment and external assessment marks. If there exists a difference of 20% or above between internal and external assessment, a third evaluation by the Zonal chairperson shall be done. The decision of the Zonal chairperson shall be the final. If any discrepancies are observed in the matter of documental evidences, it shall be reported to the University. A minimum of 16 school students are to be present for conducting classes for practical examination.

B. INTERNAL EVALUATION

- i. Internal evaluation of theory courses** shall be done by class tests and the related practicum. Two class tests and one practicum shall be done by all students for every course. The detailed report of internal assessment shall be maintained in the college and shall be produced if needed.
- ii. Internal evaluation of practical courses** shall be done by means of appropriate instruments and suitable criteria designed and developed by teacher educators or by means of standardized instruments. Details in this regard are given below:

SEMESTER I

COURSE CODE	COURSE NAME	NAME OF PRACTICAL	FIELD	NAME OF TOOL FOR ASSESSMENT	DOCUMENTS TO BE MAINTAINED	MARK DISTRIBUTION	TOTAL MARKS	CREDIT
EDU107.1	Core :	Survey on a social issue (EDU 101)	Community	Set criteria	Report of survey	10	40	2
		SUPW- Campus cleaning/Biofarming /Ecofriendly activities (EDU 101)	College	Set criteria	Report of proceedings	5		
		Psychology test-administration @ 1 tool (Institution shall take care to adopt different tools for different groups of student teachers) (EDU 102)	College	Set criteria	Report	5		
		Preparation and uploading of e-learning material in the blog@1 (EDU 103)	College	Set criteria	Report and material(hard and soft copy)	10		
	Core : (Associate: Elective)	Package for Awareness Class- Preparation and administration(on any theme of social relevance. Group or Individual) (EDU 106)	College	Set criteria	Package and Report	10		

EDU 107.2	Pedagogic :	Micro teaching lesson plans-3 skills for each student	College	Set criteria	record	10	80	4
		Micro teaching class – 1 skill by each student	College	Peer observation Rating scale	Record and preferably Video record	10		
		Link Practice- lesson plan and class@ 1	College	Peer observation Rating scale	Record and preferably Video record	10		
		ICT enabled skills- Plan and class @ 1	College	Peer observation Rating scale	Record and preferably Video record	10		
		Reflective Journal on micro teaching (Institution shall design a format or model for journaling)	College	Rubric	Reflective Journal	10		
		Project or Educational Survey @1 event	Community	Rubric	Report	30		
EDU107.3	Health and Physical Education	Demonstration of various Yogic Asanas/Meditation by Student	College	Task performance indicator	Record (Procedure of any two asanas)	10	20	1
		Survey on Health practices/issues (Group/Individual)	Community	Set criteria	Report	10		
EDU107.4	Drama and Art in Education(E PC2)	Theatre Practice Participation in Workshop/training	College	Task performance indicator	Report and script	10	20	1
		Designing and Performance of different art/ Creative	College	Set criteria	Report and product	5		

		writing @1						
		SUPW: Handwork- Jewellery making, Embroidery, Painting and the like - Two products.	College	Set criteria	Report and Products	5		
Semester Total						160	160	8

SEMESTER II

COURSE CODE	COURSE NAME	NAME OF PRACTICAL	FIELD	NAME OF TOOL FOR ASSESSMENT	DOCUMENTS TO BE MAINTAINED	MARK DISTRIBUTION	TOTAL MARKS	CREDIT
EDU206.1	Core :	School Profile and practices (Shall include all the activities of the student support systems like P.T.A., Alumni, various forums and Clubs, School Assembly and the like)(EDU 201)	School	Set criteria	Report	25	80	4
		Critical evaluation of time table/text book in any one of the schools . (EDU 201)	School	Set criteria	Report	5		
		Sociogram(EDU 202)	School	Set criteria	Report	10		
		Psychology test administration @1 (EDU 202)	School	Set criteria	Report	10		

		Learning disability survey/project (May be pertaining to any issue/challenge in the domain of learning disability) (EDU 202)	School/ Community	Set criteria	Report	20		
		Analysis of prevailing assessment practices (EDU 203)	School	Rubric	Report	10		
EDU206.2	Pedagogic :	Discussion lesson plans-5	College	Rating scale	Record	10	100	5
		Demonstration class observation -5 (classes shall be in different methods including ICT enabled class)	College	Rating scale	Record	10		
		Criticism Lesson Plans-5	College	Rating scale	Record	10		
		Criticism class and evaluation :Preferably Video recording of the class and evaluation @ 1	College	Set criteria	Record	10		
		Class room teaching during school induction@ 5 classes	School	Set criteria	Record and supervision diary	50		
		Reflective Journaling on school induction(Institution shall design a format or model for journaling)	College	Rubric	Reflective Journal	10		
EDU206.3	Health and Physical Education	Participation in 1 outdoor and 1 indoor / minor games.	College	Set criteria	Report	10	20	1
		Conduct sports meet	College	Set criteria	Record	10		

		(Awareness and participation in athletic events – running events, throwing events, jumping events)						
EDU206.4	Drama and Art in Education (EPC2)	Report on the Cultural Heritage of India.	Community	Rating scale	Record/Report	10	20	1
		Preparation of criteria for evaluating different art forms–Drawing, Painting, Dance, Music, Drama, Creative Writing (any 2)	College	Set criteria	Record/Report	10		
Semester total						220	220	11

SEMESTER III

COURSE CODE	COURSE NAME	NAME OF PRACTICAL	FIELD	NAME OF TOOL FOR ASSESSMENT	DOCUMENTS TO BE MAINTAINED	MARK DISTRIBUTION	TOTAL MARKS	CREDIT
EDU302.1	Core :	Value education class @2 (EDU 101, 201)	School	Rating scale	Report	10	80	4
		Action research @1 (EDU 203)	School	Set criteria	Report	20		
		Case study (EDU 202)	School	Set criteria	Record	20		
		Project on problems of learning –(Based on Psychological variable) (EDU 202)	School	Set criteria	Report	30		
EDU302.2	Pedagogic :	50 classes – Teaching competence	School	Set criteria	Supervision Diary	100	360	18
		50 lesson plans	School	Set criteria	Record	100		

		Lesson plan and Classes based on Innovative methods -teaching competence@5	School	Set criteria	Supervision Diary	40		
		Club/Forum activities	School	Rating scale	Report	10		
		Learning materials- Innovative charts and models @2 each (Institution shall conduct workshop for the preparation of the materials)	College	Set criteria	Report	20		
		Self Assessment Tool: Preparation and practice (Target group is school pupils)	School	Set criteria	Report	10		
		Peer evaluation of classes @ 2	School/College	Rating scale	Peer review report	10		
		Diagnostic test and Remedial Programme- Preparation and administration	School	Set criteria	Record	20		
		Achievement test and analysis and interpretation @ 1	School	Rating scale	Record	20		
		Unit plan and Unit test @ 1	School	Rating scale	Record	10		
		Reflective journaling on school internship(School	Rubric	Reflective Journal	20		

		Institution shall design a format or model for journaling)						
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EDU302.3	Health and Physical Education	Physical Education Lesson Plan and class @ 3	School	Rating scale	Record	15	40	2
		Health Education Lesson Plan and class@2	School	Rating scale	Record	10		
		Yoga Lesson Plan and Class@ 3	School	Rating scale	Record	15		
EDU302.4	Drama and Art in Education (EPC2)	Evaluate the Artistic talents of the students@2 forms	School	Rating scale	Record	10	20	1
		Class on different Art forms in India	School	Rating scale	Record	5		
		Organize an activity to conscientise aboutthe cultural heritage of India	School	Rating scale	Report	5		
	Viva-voce	Valedictory presentation and viva voce	College	Rubric	Student teacher portfolio and PowerPointPre sentation	30	40	2
		Documents verification	College	Set criteria	All documents as per student teacher portfolio	10		
Semester total						540	540	27

SEMESTER IV

COURSE CODE	COURSE NAME	NAME OF PRACTICAL	FIELD	NAME OF TOOL FOR ASSESSMENT	DOCUMENTS TO BE MAINTAINED	MARK DISTRIBUTION	TOTAL MARKS	CREDIT
EDU404.1	Core	Community camp for minimum 5 days (EDU 401)	College /other premise	Set criteria	Report	50	140	7
		Documentary/short film presentation/project related to any social issue (EDU 401)	Community	Set criteria	Report and product	20		
		Study tour (EDU 402)	Community	Set criteria	Report	20		
		Extension Activities (Social Service) @2 (EDU 402)	Community	Set criteria	Report	50		
EDU404.2	Pedagogic	Developing vision and mission as a teacher-SWOT Analysis	College	Set criteria	Report	20	120	6
		Student Teacher Portfolio	College	Rubric	portfolio	20		
		Reflective journal presentation and discussion.(Entries made during all semesters shall be presented and discussed)	College	Rubric	Reflective journal and report	30		
		Educational journal review @1 each	College	Set criteria	Report	20		
		Preparation and Uploading of journal	College	Set criteria	Report and Article	30		

		article in the blog (Article may be based on the survey/ psychology test or any other activity undertaken by the student teachers)						
EDU404.3	Health and Physical Education	Credible Participation in games (major/minor) and sports -minimum 2 events	College	Set criteria	Report	10	20	1
		Rules and regulations of Volleyball and shuttle badminton	College	Set criteria	Record	10		
EDU404.4	Drama and Art in Education(EPC 2)	Organize a cultural event	College	Set criteria	Report	5	20	1
		Credible Participation in Art fest	College	Task performance indicator	Report	10		
		Script on Street Play /Educational Documentary/Film review	College	Task performance indicator	Report	5		
EDU404.5	Communicative English	Internal test – Oral /Written / Online	College	Set criteria	Test Result	20	40	
		Practical in accordance with the syllabus @ 2 items	College	Set criteria	Report	20		
	Semester total					340	340	17
	Programme total					1260	1260	63

VII SCHOOL INTERNSHIP

The B.Ed. Programme envisages school internship of 20 weeks duration spreading over two phases, first phase of four weeks during II semester and 16 weeks during III semester. It shall be designed to lead to the development of a broad repertoire of perspectives, professional capacities teacher sensibilities and skills among the prospective teachers. In the first phase, there shall be four week of school engagement. In the second phase, there shall be a minimum of 16 weeks intensive school internship and one week observation of a regular class room with a regular teacher. During the internship student teachers shall work as a regular teacher and participate in all school activities, including planning, teaching and assessment, interacting with school teachers, community members and children. School internship shall be undertaken in the schools within the purview of 30 kilometers from the Institution and shall be with the concurrence of the institution.

VIII SUPERVISION OF SCHOOL INTERNSHIP

The supervision of Practice Teaching is a joint responsibility of the Training Colleges and Practice-Teaching Schools. Continuous observation and briefing is essential for developing the teaching skill of the novice teacher. The subject teachers have to observe all the lessons of student-teachers and enter their suggestions in the supervision diary maintained by the student-teacher. The Teacher Educators have to observe the maximum number of practice lessons of the student-teacher. Observation of one lesson during the first phase of internship and three lessons (probably at the beginning, middle and at the end of Practice Teaching) during the second phase of internship by the Pedagogic course coordinators is mandatory. The course coordinators of all courses shall evaluate the respective practical courses during the period of induction and internship. Assessment of Practice Teaching shall be done on the basis of the proforma for assessment of teaching.

IX COMMUNITY LIVING CAMP/CITIZENSHIP TRAINING CAMP

The camp shall be organized with a view to sensitize the participants on ‘Civic sense and social skills’ prescribed in the Indian constitution and to be more aware of the rights and duties of a good citizen.

All the colleges have to organize a residential Community Living Camp/Citizenship Training Camp in a convenient location of their choice or in institution for minimum of 5 days. The major goals are:

- i. developing social responsibility.
- ii. imbibing social, moral and cultural values.
- iii. learning to plan and execute community service.
- iv. learning to live together, sharing duties and responsibilities.
- v. developing personal and social skills.
- vi. practising democratic living and managing events.
- vii. practising division of labour, dignity of labour, community work.

A record mentioning all the activities have to be prepared and submitted by each Student-Teacher. Community Living Camp can be organized by the institution at their convenience in a convenient location or in the institution, keeping certain formalities and following a well planned time table.

Organization of the camp: Select a main theme related to Education, Society, Culture and Environment for each year by each institution for the Community Camp. Objectives should be framed on the basis of the theme and prepare a module for the camp. The common objectives of the camp shall be in tune with the common goals of the camp.

Programme suggested for community living camp:

1. Speeches in Social and Educational issues
2. Introduction of writers, actors, artists, film directors etc.
3. Visit to social institutions to study their functioning
4. Visit to culturally important places
5. Visit to schools and residence of differentially abled children
6. Visit to old age homes, orphanages and hospitals
7. Social services like constructing roads and buildings
8. Taking part in cooking, serving and cleaning
9. Experiencing the life in a different community - SES

Assessment of participation in Community Living Camp has to be done on the basis of the Assessment Schedule prepared by the institution. The schedule shall include the following criteria viz.

1. Attendance
2. Active participation

3. Responsibility
4. Teamwork
5. Discipline

X STUDY TOUR

It is a trip to a place of educational or historical importance. The expected outcome includes:

- i. providing a platform for the student-teachers to learn and get acquainted with the process of organizing /conducting a study tour/field work.
- ii. getting an understanding about the environment around.

A Report of tour has to be prepared by all student-teachers. The report should highlight the objectives of the tour, identification of the spot, detailed plan, execution of the plan, benefits derived from the tour, problems faced and suggestions. The Study tour can be organized by the institution at their convenience as a general programme/Optional requirement, for duration of minimum 3 working days.

SEMESTER I

CORE COURSES

EDU 101: CONTEMPORARY INDIA AND EDUCATION

NO. OF CREDITS	:	5
CONTACT HOURS	:	100
MARKS	:	100 (External 80 + Internal 20)
DURATION OF EXAMINATION	:	3 hours

OBJECTIVES

On completion of the course, the prospective teachers would be able to:

- appreciate the Educational Heritage of India
- understand the nature of education as a discipline and its correlation with other disciplines.
- examine issues related to interdisciplinary nature of education.
- comprehend the values, aims and ideals of society enshrined in the Constitution of India.
- critically examine the pivotal issues of contemporary India.
- analyse vision, aims of education and recommendations of various commissions after independence in shaping the present education system of India.
- evaluate the basic concepts/issues of education with reference to kind of concerns the NCF (2005) and NCFTE (2009) have raised.
- discuss the emerging dimensions of teacher education and professional growth of teachers.

MODE OF TRANSACTION

Lecture cum discussion, demonstration, group presentations, seminars, debates, assignments, brain storming sessions, peer group discussion, interaction with community, case study, survey and dialogue, ICT based teaching and learning

COURSE OUTLINE

Module 1 – Education (30 hours)

- 1.1 Indian and Western Concept of Education - Aims - Functions of Education in Individual, Social, National, and global levels.
- 1.2 Educational heritage of India with special reference to Vedic, Buddhist and Medieval periods-Significance of Upanishad in maintaining world peace and

sustainable development –Educational Implications of Bhagavad Gita-Traditional values of India.

- 1.3 Western system of education in India with special reference to Macaulay's Minutes and Wood's Despatch
- 1.4 Education system in India
- 1.5 Types of Education–Formal, informal, and non-formal
- 1.6 Education as Investment – Human Resource Development
- 1.7 Interdisciplinary approach in education – correlation with different disciplines and its implications

Module 2 – Indian Constitution and Education (10 hours)

- 2.1 Indian Constitution – Preamble-Fundamental Rights and Directive principles
- 2.2 Constitutional values -Duties of citizens
- 2.3 Right to Education and its implications

Module 3 – Features and Issues of Indian Society (30 hours)

- 3.1 Multiculturalism-Unity in diversity
- 3.2 Inequality and marginalisation
- 3.3 Universalisation and Democratisation of Education
- 3.4 Impact of Liberalisation, Privatisation and Globalisation on Indian Society
- 3.5 Role of Education in compacting Social evils- Corruption, Terrorism, Antinational activities, Violence against women, Drug abuse and Alcoholism
- 3.6 Educational Problems of Contemporary India-Population Education, Peace Education and Inclusive Education
- 3.7 Educated unemployment, wastage and stagnation, women empowerment
- 3.8 Human rights Education-meaning and significance

Module 4 -Education Commissions in India (10 hrs)

- 4.1 Radhakrishna Commission (1949),
- 4.2 Mudaliyar Commission(1953),
- 4.3 Kothari Commission(1966)
- 4.4 National Policy on Education(1986) Revised Policy(1992)
- 4.5 National Curriculum Framework (NCFSE) 2005
- 4.6 National Curriculum Framework for Teacher Education(NCFTE)2009

Module 5 – Recent Trends/Initiatives in Indian Education (20 hours)

- 5.1 Critical Pedagogy

- 5.2 District Primary Education Programme (DPEP)
- 5.3 Sarva Shiksha Abhiyan (SSA)
- 5.4 Rashtriya Madhyamic Shiksha Abhiyan (RMSA)
- 5.5 Rashtriya Uchathar Shiksha Abhiyan (RUSA)
- 5.6 Role of various organisations/Agencies in Education - UGC, NCTE, NCERT, SCERT, NUEPA, NAAC, DIET, General Awareness on KER and KSR
- 5.7 Professional Growth of Teachers – Pre-service and In-service Teacher Education
- 5.8 Professional Organizations - Accountability of teachers – Code of ethics for teachers

PRACTICUM (any one)

1. Conduct a study on the Mid day meal Programme in developing health index and social values.
2. Conduct a debate or panel discussion on recent trends and initiatives in education
3. Dramatisation of role of education in eradicating social evils

REFERENCES

- Aggarwal J. C. (1998). *Theory and principles of education, Philosophical and Sociological bases of education*, New Delhi: Vikas Publishing House.
- Agnihotri, R.K. (1995). Multilingualism as a classroom resource. In K. Heugh, A. Siegrühn, & P. Plüddemann (Eds.), *Multilingual education for South Africa* (pp. 3–7). Heinemann Educational Books.
- Apple, M.W. (2008). Can schooling contribute to a more just society? *Education, Citizenship and Social Justice*, 3(3), 239–261.
- Carini, P.F. (2001). Valuing the immeasurable. In *Starting strong: A different look at children, schools, and standards* (pp. 165–181). New York: Teachers College Press.
- Carr, D. (2005). *Making sense of education: An introduction to the philosophy and theory of education and teaching*. Routledge.

- Castells, M. (2011). *The rise of the network society: The information age: Economy, society, and culture* (Vol. I, II & III). John Wiley & Sons.
- Delpit, L.D. (1988). The silenced dialogue: Power and pedagogy in educating other people's children. *Harvard Educational Review*, 58(3), 280–299.
- Deng, Z. (2013). School subjects and academic disciplines. In A. Luke, A. Woods, & K. Weir (Eds.), *Curriculum, syllabus design and equity: A primer and model*. Routledge.
- Freire, P. (1998). *Pedagogy of freedom: Ethics, democracy, and civic courage*. Rowman & Littlefield.
- Ghosh, S.C. (2007). *History of education in India*. Rawat Publications.
- Glaser, R., Chudowsky, N., & Pellegrino, J.W. (Eds.). (2001). *Knowing what students know: The science and design of educational assessment*. National Academies Press.
- GOI. (1966). *Report of the education commission: Education and national development*. New Delhi: Ministry of Education.
- GOI. (1986). *National policy of education*. GOI.
- GOI. (1992, 1998). National policy on education, 1986 (As modified in 1992). Retrieved from http://mhrd.gov.in/sites/upload_files/mhrd/files/NPE86-mod92.pdf
- GOI. (2009). The right of children to free and compulsory education act, 2009. Retrieved from http://mhrd.gov.in/sites/upload_files/mhrd/files/rte.pdf
- GOI. (2011). Sarva shiksha abhiyan- Framework for implementation based on the right of children to free and compulsory education act, 2009. GOI. Retrieved from [http://www.upefa.com/upefaweb/admin/myuploads/SSA_Frame_work_\(revised\)_9-6-2011.pdf](http://www.upefa.com/upefaweb/admin/myuploads/SSA_Frame_work_(revised)_9-6-2011.pdf)
- Govinda, R., & Josephine, Y. (2004). *Para teachers in India: A review*. New Delhi: National Institute of Educational Planning and Administration.
- Hall, C., & Hall, E. (2003). *Human relations in education*. Routledge.
- Heathcote, D., & Bolton, G. (1994). *Drama for learning: Dorothy Heathcote's mantle of the expert approach to education*. Portsmouth, NH: Heinemann Press.

- Hindustani Talimi Sangh. (1938). *Basic national education: Report of the Zakir Hussain committee*. Sagaon, Wardha: Hindustani Talimi Sangh.
- Hodson, D. (1987). Science curriculum change in Victorian England: A case study of the science of common things. In I. Goodson (Ed.), *International perspectives in curriculum history*. Croom Helm.
- Krishnamurti, J. (1992). Education and world peace. In *Social responsibility*. Krishnamurti Foundation.
- Kumar, K. (2013). *Politics of education in colonial India*. India: Routledge.
- Mathew, T. K. (2013). Teacher education to contemporary learning. Changanacherry, Lilly Publishing House. ISBN 978 - 81-922911 - 6-1
- Mishra, A. (2007). Everyday life in a slum in Delhi. In D. K. Behera (Ed.), *Childhoods in South Asia*. New Delhi: Pearson Education India.
- Montuschi, E. (2003). *Objects of social science*. London: Continuum Press.
- Mukunda, K.V. (2009). *What did you ask at school today? A handbook of child learning*. Harper Collins.
- Naik, J.P. (1982). *The education commission and after*. APH Publishing.
- Nambissan, G.B. (2009). *Exclusion and discrimination in schools: Experiences of dalit children*. Indian Institute of Dalit Studies and UNICEF.
- NCERT. (2006a). *Position paper-National focus group on education with special needs (NCF 2005)*. New Delhi: NCERT.
- NCERT. (2006b). *Position paper-National focus group on gender issues in the curriculum (NCF 2005)*. NCERT.
- NCERT. (2006c). *Position paper-National focus group on problems of scheduled caste and scheduled tribe children (NCF 2005)*. New Delhi: NCERT.
- NCERT. (2006d). *Position paper-National focus group on teaching of Indian language (NCF 2005)*. New Delhi: NCERT.
- Nirantar. (2010). *Textbook regimes: A feminist critique of nation and identity*. New Delhi.

- Olson, D.R., & Bruner, J.S. (1996). Folk psychology and folk pedagogy. In D.R. Olson & N. Torrance (Eds.), *The handbook of education and human development* (pp. 9–27). Blackwell.
- Parekh, B.C. (2000). *Rethinking multiculturalism: Cultural diversity and political theory* (pp. 213-230). Palgrave.
- Pathak, A. (2013). *Social implications of schooling: Knowledge, pedagogy and consciousness*. Aakar Books.
- Phillips, D.C. (1995). The good, the bad, and the ugly: The many faces of constructivism. *Educational Researcher*, 5–12.
- Ravikumar, K.V. (2014). *Education in emerging Indian society*, Ernakulam: Vasu Publishers.
- Sternberg, R.J. (2013). Intelligence, competence, and expertise. In A. J. Elliot & C. S. Dweck (Eds.), *Handbook of competence and motivation* (pp. 15–30). Guilford Publications.
- Stiggins, R. (2005). From formative assessment to assessment for learning: A path to success in standards-based schools. *Phi Delta Kappan*, 324–328.
- Sykes, M. (1987). *The story of Nai Talim*. Wardha: Nai Talim Samiti.
- Tagore, R. (2003). Civilization and progress. In *Crisis in civilization and other essays*. New Delhi: Rupa & co.
- UNESCO. (1989). *UN convention on the rights of the child*. UNESCO.
- UNESCO. (2006). *United Nations convention on the rights of persons with disabilities*. UNESCO.
- UNESCO. (2009). *Policy guidelines on inclusion in education*. UNESCO.
- Brown, Francis J. (1947). *Educational Sociology*. New York: Prentice Hall.
- Brubacher John S. (1962) *Modern philosophies of Education*. New Delhi: Tata McGraw-Hill publishing Co. Pvt. Ltd.
- Dewey John (1900). *The School and Society*. Chicago: The university of Chicago Press.
- Humayun Kabir (1959). *Education in new India*, London: George Allen & Unwin Ltd.

- Jacob Mani (2002). *Resource Book for Value Education*. New Delhi: Institute of Value Education.
- Valerian Rodrigues. (2002). Democracy. In *The essential writings of B. R. Ambedkar* (pp. 60–64). New Delhi: Oxford University Press.
- Jagannath Mohanty (1995). *Adult and non-formal education*, New Delhi: Deep and Deep Publications.
- James S. Ross. (1952). *Ground works of educational theory* - George G. Harrap & Co. Ltd.
- John. S. Brubacher (1969). *Modern Philosophies of education* New Delhi: Tata Mc. Graw, Hill Publishing Co.
- Kalam Abdul, A.P.J. (1998). *India 2020 – A Vision for the New Millennium*, Penguin Books India Ltd.
- Mary Joseph & Thomas, P.J (2010) *Philosophical and Sociological Bases of Education*.
- Mathew, T. K. (2013). *Teacher education to contemporary learning*. Changanacherry, Lilly Publishing House. ISBN 978 - 81-922911 - 6-1
- Nath Prem (1979). *The Bases of Education. A Philosophical and Sociological Approach*. New Delhi: S. Chand & Company Ltd.
- NCTE (1998). *Gandhi on Education*, New Delhi:
- NCTE (2000) *Human Rights and Indian Values*, New Delhi.
- Oommen, N. M.(2015). *An epitome of ideal teaching: Jesus Christ*, Tiruvalla, Titus IITeachers College, ISBN 978-81-930097 -1 -0.
- Oommen, N. O. (2015). *Paulo Freire: A humanistic visionary*, Tiruvalla, Titus II Teachers Colleg. ISBN 978 - 81 -930097 -8 -9
- Ozmon Howard A & Craver Samuel M. (1986). *Philosophical foundations of Education*. Columbus: Merrill publishing Company.
- Payne, E. George (1928). *Principles of Educational Sociology An Outline*. New York: NY New York U.P.

- Peters, R. S. (1967). *The Concept of Education*. New York: Humanities Press.
- Robert. B. Wagner (1989). *Accountability in Education*. London: Routledge.
- Ruhela, S. P. (1968). *Human Values and Education*. New Delhi: Sterling Publishers.
- Satya Priya Gupta (1979). *The in-service educational needs of Secondary teacher educators*, New Delhi: NCERT.
- Sharma R. A. (1993). *Teacher education, Theory, Practice and Research*. Meerut: International Publishing house.
- Singh L. C. (1990). *Teacher education in India*. N.C.E.R.T.
- Sivadasan Pillai K., (1998). *Vidyabhyasam, Trivandrum, Kalanikethan*.
- Taneja, V. R. (2003). *Educational Thoughts and Practice*. New Delhi: Sterling Publishers.
- Thankachan T.C., (2009) *Philosophical and Sociological Bases of Education*, V. Publishers.
- Thankachan T.C., (2010) *Development and Management of Education in India*, Prakash Publishers.
- Yati, Nitya Chaithanya (2002) *Parivarthanonmugha Vidhyabhyasam*, Kottayam; Current Books.

EDU 102: CHILDHOOD AND GROWING UP

NO. OF CREDITS	:	5
CONTACT HOURS	:	100
MARKS	:	100(External 80 + Internal 20)
DURATION OF EXAMINATION	:	3 hours

OBJECTIVES

On completion of the course, the prospective teachers would be able to

- understand the basic concepts and principles of Educational Psychology
- understand the characteristics of human growth and development in childhood and adolescence and the developmental process of the individual in different dimensions.
- help adolescent in better adjustment and development
- understand the nature of motivation in learning as relevant to classroom management
- understand the mental processes of learners
- apply psychological principles in the teaching learning process effectively
- provide guidance and counselling services to adolescents
- help learners to develop proper mental health and hygiene
- understand various adjustment mechanisms and help learners for better adjustment and development
- understand the strategies for enhancing effective memorization in children

MODE OF TRANSACTION

Lecture –cum-demonstrations, Seminars, Assignments, Peer learning strategies, Community visit, Brain storming , Debate, Group discussion, Problem-solving , Scenario-based learning strategies and survey method.ICT based teaching and learning

COURSE OUTLINE

Module 1 - Psychology, Education and Emerging learner (25 hours)

1.1 Meaning, nature and functions of educational psychology

- 1.2 Relevance of educational psychology to teachers, learners, teaching and learning
- 1.3 Schools of Psychology – Behaviorism, Structuralism, functionalism, psycho-analysis, Humanism, Gestalt psychology, Nativism, Constructivism, Cognitive Neuro Science, and Positive Psychology.
- 1.4 Concepts, Principles and Stages of Growth and development
- 1.5 Dimensions of growth and development-Physical, cognitive, social, moral and emotional
- 1.6 Psychological needs of children
- 1.7 Erickson’s view of psycho social development - Kohlberg’s view of moral development

Module 2 - Complexities in Adolescence (20 hours)

- 2.1 Characteristics of adolescents
- 2.2 Needs of Adolescence
- 2.3. Problems of adolescents (Information overloading, substance abuse, suicidal tendencies, depression, psycho-somatic diseases, sex abuse etc)
- 2.4 Management of adolescent problems – role of teacher
- 2.5 Helping adolescents for better adjustment

Module 3 - Cognitive Processes (20 hours)

- 3.1 Concepts of sensation, perception, attention, concept formation and problem solving
- 3.2 Thinking – types and assessment. Convergent thinking, divergent thinking, creative thinking (steps) – developing creative thinking in learners, Metacognition
- 3.3 Memory – Information processing –Atkinson-shriffrin model of information processing-Assessment of memory
- 3.4 Strategies for improving effective memorization

Module 4 - Motivating the learner (15 hours)

- 4.1 Motivation – meaning and significance
- 4.2 Types of motivation,Achievement motivation
- 4.3 Strategies for enhancing motivation in learners
- 4.4 Maslow’s theory of motivation

Module 5 -Mental health & Adjustment (20 hours)

- 5.1 Mental health & mental hygiene

- 5.2 Adjustment and maladjustment
- 5.3 Behavioural problems in children
- 5.4 Adjustment /Defence mechanisms
- 5.5 Stress and coping strategies

PRACTICUM (any one)

1. Visit Anganwadi /Primary / Secondary Schools and prepare a report on the pupil characteristics and diversity among children, with special reference to developmental stages.
2. Prepare a report on the current issues of Indian Adolescents
3. Conduct a survey on stress and coping strategies among peers.

REFERENCES

- Alison, Clarke- Stewart, Susan, Friedman, & Joanne Koch. (1985). Child development – Atropical approach. New York: John Wiley & Sons, Inc.
- Anita Woolfolk - (2004) Educational Psychology - The Ohio State University – PearsonEducation
- Ausubel, David, P, Joseph. D Novak & Helen Hanesian. (1968). Educational psychology: Acognitive view. Holt, Rinchart and Winston In
- Bichler, R.F., & Snowman, J. (1993). Psychology Applied to Teaching (7th ed.) Boston:Houghton Mifflin Co.
- Bruner, J. S. (1986). Actual minds, possible worlds. Cambridge, Mass: Harward UniversityPress.
- Cronbach, L.J. (1969). Essentials of psychological testing (3rd ed.). New York: Harper and Row.

- Dandapani, S. (2000). *Advanced Educational Psychology*. New Delhi: Anmol Publications Pvt.Ltd.
- Dandekar, W.N. & Sanyogtala, Makhiya. (2002). *Psychological foundations of education (3rded.)*. Mc. Millan India Ltd.
- Eggen, P.D., Kauchak, D.P., & Harder, R.J. (1979). *Strategies for teachers, informationprocessing model in the classroom*. New Jersey: Prentice Hall Inc.
- Gagne, R.M. (1965). *The conditions of learning*. New York: Holt, Rinehart and Winston Inc.
- Gagne, R.M. (1985). *The cognitive psychology of school learning*. Boston: Little
- George, A (2008). *Learning Strategies*. New Delhi: Common Wealth
- Guilford, J.P. (1965). *Fundamental statistics in psychology and education*. New York: Mc Graw Hill Hill INC.
- Hal, R. Arkes, & John, P. Garske. (1977). *Psychological theories of motivation*. California:Wordsworth Publishing Company Ltd.
- Herman, T.M. (1977). *Creating learning Environments: The Behavioural approach to education*. Boston: Allyn and Bacon.
- Hilgard, E.R., & Bower, G.H. (1977). *Theories of learning*. New Delhi: Prentice Hall of India Pvt.Ltd.
- Hurlock, Elizabeth, B. (1990). *Developmental Psychology- A life Span approach*. New York: Mc Grow Hill Inc.

- Illich, I. (1970). De schooling Society. New York: Harper and Row.
- Joyce, Bruce, & Weil, Marsha (1997). Models of teaching (5th ed.). New Delhi: Prentice Hall of India. Ltd.
- Kolesnik, Walter, B. (1970). Educational psychology (2nd, ed.) New York: Mc. Graw Hill Book Co.
- Laura, Berk, E. (2001). Child Development (3rd ed.). New Delhi: Prentice Hall Co.
- Morgan, Clifford. T. (1986). Introduction to Psychology. New York: MC. Graw-Hill Books Co.
- Shaffer, David, R. (1996). Developmental psychology- childhood and adolescence (4th ed.)USA. Brooks/Cole Publishing Co.‘
- Sibichen K.K (2010). An Introduction to Psychological bases of Education, Mannanam,Kottayam, St.Joseph’s Training College.
- Sousa A David (2009). How the Brain influences Behaviour. California, Corwin Press.
- Sousa, A David (2001). How the Brain Learns. California, Corwin Press, INC.
- Sylvester, Robert (2007). The Adolescent Brain. California, Corwin Press
- Thomas, Good, L., & Jene, Brophy, E. Looking in classrooms (5th ed.) Harper CollinsPublishers.

EDU 103: DEVELOPMENT AND RESOURCES IN EDUCATIONAL TECHNOLOGY

NO. OF CREDITS	3
CONTACT HOURS	60
MARKS	: 60 (External 50 + Internal 10)
DURATION OF EXAMINATION	: 2 hours

OBJECTIVES

On completion of the course, the prospective teachers would be able to

- understand the nature , scope and various forms of educational technology.
- know the modes of development of self learning material
- develop the ability for critical appraisal of the audio-visual media
- develop basic skills in the production of different types of instructional material
- know the recent innovations and future perspectives of Education Technology
- blend the merits of multimedia in the process of teaching and learning
- develop an awareness about the application of information technology in the process of learning
- recognize the importance of effective communication and interaction in classroom
- apply appropriate instructional approaches in teaching and learning

Module 1 - Educational Technology- Concept, Approach and Scope (10hrs)

- 1.1 Concept, meaning, definition, significance and approaches of educational technology-hardware, software and systems approaches. Multi sensory and multimedia approach.
- 1.2 Audio-visual aids: Educational significance of audio-visual aids, its merits and demerits, classifications and Edgar Dale's cone of experience
- 1.3 Resource centres for Educational Technology, CIET, UGC, IGNOU, NOS, SIET, AVRC, EMRC, NIST, SITE, UGC-CEC, C-DIT, EDUSAT, IT@SCHOOL ,

VICTERS channel, AKSHAYA, GYAN DARSAN, INFLIB NET- their role in the improvement of teaching learning.

Module 2 - Individualized and Mass Instructional Strategies (10 hrs)

- 2.1 Individualised instruction, Individualised instructional strategies: programmed instruction, personalized system of instruction (PSI), modular instruction, language laboratory.-brief outline
- 2.2 Mass media in education- ETV, radio, news papers, journals, movies, CD/DVD's, internet, social networking sites

Module 3: Communication and Classroom Interaction (8 hrs)

- 3.1 Communication - concept, components, types of communication, steps in communication, communication cycle, factors affecting communication, barriers of communication
- 3.2 Classroom climate - teacher behaviour, Flanders' interaction analysis category system (FIACS) - categories, procedures and interpretation.

Module 4: Instructional Technology- Principles and Approaches (12 hrs)

- 4.1 Instructional technology- meaning, principles and maxims of teaching, phases and levels of teaching.
- 4.2 Micro teaching - teaching skills, micro teaching cycle, micro teaching steps, phases in micro teaching, link practices, simulation
- 4.3 Models of teaching – meaning, basic elements of a model and families of models
- 4.4 Team Teaching, reflective teaching, differential teaching-conceptual overview

Module 5: ICT in Education (20 hrs)

- 5.1 ICT in education – meaning, scope and role of ICT in education, Digital Divide, Concept of Digital Immigrants and Digital Natives, Blended Learning - Role of Teacher and learner .
- 5.2 Education through ICT: Computer assisted instruction (CAI), Power point - presentation, prezi presentations.
- 5.3 Free and Open source software – Introduction to GNU/Linux, Ubuntu, Educational Softwares: GeoGebra, Stellarium – conceptual overview
- 5.4 E-learning : concept, nature, definition, meaning, modes, characteristics and benefits- e-resources, m-learning, e-learning materials: e-textbooks, e-journals, digital library, e-Governance, e-content development-fundamentals

- 5.5 Web based learning, online learning, virtual learning, massive open online course (MOOC), audio and video conferencing. e-communication: Forums, blogs, bulletin boards, social networks, Webinar – brief outline.
- 5.6 Learning Management Systems (LMS) and Course Management Systems (CMS): LMS/CMS Software : Blackboard, Moodle, Desire2Learn - brief outline.
- 5.7 Flipped Classrooms, Augmented Reality-pedagogical potentials, Techno pedagogical content knowledge (TPACK) - conceptual overview
- 5.8 Cyber crime and Cyber ethics

PRACTICUM (any one)

1. Create a blog
2. Set up a power point/prezis presentation
3. Conduct a debate or panel discussion on the influence of social media among school pupils

REFERENCES

- Aggarwal J.C. (2006).Essentials of Educational Technology-Teaching Learning- innovations in Education. New Delhi. Vikas Publishing House .
- Alexis, Leon & Others (1999). Fundamentals of Information Technology. New Delhi: Vikas Publlishing House Pvt. Ltd.
- Alexey Semenov, UNESCO, (2005): Information and Communication Technologies inSchools: A Handbook for Teachers.
- Aoki, K (1994). Virtual communication in Japan: Pacific Telecommunications.
- Allen, D. W. (1992). School for a new country, New York.
- Andal, N. (1998). Communication Theories and Models. Mumbai : Himalaya Publishing House.
- Anderson, L.W. International Encyclopedia of Teaching and Teacher Education (Second Edition).Elsevier Science Ltd. Oxford. 1995.
- Battacharjee Shymali, (2007). Media and Mass communication. An introduction. NewDelhi: Kanishka Publishers.
- Bharihoke, Deepak(2000). Fundamental of Information Technology. New Delhi: Pentagon Press

- Bhatia R. L. and Ahuja B. N. (1994). Principles of Educational Technology and their approach. New Delhi : Surject Publications.
- Chadha, Gaurav S.M.& Kumail, Nafay (2002) E-Learning: An Expression of the Knowledge Economy, Tata McGraw-Hill Publication.
- Chandra Ramesh, (2005). Teaching and Technology for human development. New Delhi;Kalpaka Publishers.
- Chaudhary,Jagdeesh&Pathak, R.P. (2012). Educational Technology. Dorling Kindersly (India) Pvt. Ltd.
- Chauhan,S.S.(1983).Innovations in Teaching Learning Process. New Delhi:Vikas Publishing House Pvt.Ltd.
- Conrad, Kerri (2001), Instructional Design for Web – Based Training HRD Press.
- Dale, EA (1969). Audio-visual Methods in Teaching New York: Holb, Reinchart and Winston.
- Das, R.C. (1993): Educational Technology – A Basic Text, Sterling Publishers Pvt. Ltd.
- Evaut, M. The International Encyclopaedia of Educational Technology.
- Flanders, NA () Analysing Classroom Behaviour, Addison Wesley.
- Gardner,John&Holmes,Bryn.(2006). e-learning-concepts and practice. New Delhi: Sage Publications Pvt. Ltd.
- Harasim, L. (1993) Global Networks Computers and International CommunicationCambridge; NIT Press 5.
- Henson, Kenneth.T(1978): Curriculum development for Education reform. Harper Collins College publishers.
- Hoole H.S. Ratnajeevan & Hoole Dushyanthi. (2005). Information and communicationtechnology. New Delhi: Foundation Books PVT. LTD.
- Horton, W (2001): Designing web-based Training John Wiley & Sons.
- Jain, Madhulika & et.al. (2000). Information Technology Concepts. New Delhi: BPB Publications.
- John T and Lalitha R (1995) In search of virtual class : Education in an information society. London :Routledge.
- Keith Hudson: Introducing CAL – Practical guide to writing CAL Programmes, Chapmanand Hall, London.

- Khan, BoH (1997) Web-based Instruction. Englewood Cliffs: Educational Technology Publications.
- Kopp, Kathleen(2012). Using Interactive Whiteboard in the Classroom. Shell Education
- Krishnamurthy, R.C.(2003). Educational Technology: Expanding Our Vision. New Delhi: Authors Press.
- Kulkarni.S.S(1986) Introduction to Education Technology, Oxford and IBH Publishing
- Kumar K. L. (1981). Mass Communication in India. Delhi : Jaico Publishing House.
- Kumar, K.L.(2008).Educational Technology. New Delhi: New Age International Publishers.
- Leon A & Leon M (2000). Information Technology. Channai : Vikas Publishing House Pvt. Ltd.
- Madhukumar Indira. (2005). Internet based distance learning . New Delhi: Global Network.
- Mayer Richard E(2001); Multimedia Learning, Cambridge University Press, UK.McDonald &Evans Ltd. 1975
- Merrill, Paul F.; Reynolds, Peter L.; Christensen, Larry B.(1995) Computers in Education, Allyn & Bacon.
- Michael W. Allen, Michael Allen (2002), Guide to E-Learning, Wiley Publication, 2002.
- Mohanty, Jagannath (1997). Educational Technology. New Delhi : Deep and Deep Publications.
- Mohanthy Laxman & Vohra Nehrika, (2006) ICT Strategies for school. A guide for school Administrators. New Delhi: State Publishers.
- Morison, R. Gary & Lowlher, L. Deborah & DeMeulle Lisa. (1995). Integrating computertechnology in the class room. New Jersey: Prentice Hall.
- Mukopadhyay, M (1990) Educational Technology Challenging Issues New Delhi : SterlingPublishers Pvt. Ltd.
- Oliver, Ron, Reeves, Thomas C. & Herrington, Jan (2010). A Guide to Authentic e-learning, New York: Routledge.
- Phillips. R (1997) Interactive Multimedia London: Kogan Page.

- Prasad Janardan, (2007). Audio Visual education. Teaching innovative technique.
NewDelhi: Kanishka Publishers..
- Progrow S (1983). Education in the Computer Age. Sage Publications. Beverly Hills,
CA.
- Rajesekaran S. (2007) Computer Education and Educational Computing, New Delhi:
NeelKamal Publishing Pvt. Ltd.
- Roblyer, M.D. (2008). Integrating educational technology into teaching. New Delhi:
Pearson.
- Rosenberg, M.J. (2001) e-learning New York: McGraw Hill.
- Rosenberg, Marc Jeffry(2006).e-learning: Strategies for Delivering Knowledge in the
Digital Age. New Delhi: McGraw Hill India Pvt Ltd.
- Sampath,K.&Paneerselvam A.(2006).Introduction to Educational Technology. New
Delhi: Sterling Publishers Pvt. Ltd.
- Schank, R.C. (2001) Virtual Learning McGraw Hill.
- Singh,P.P.& Sharma, Sandhir (2005), E-Learning: New Trends and Innovations, New
Delhi: Deep & Deep Publications.
- Srinivasan, T.M. (2002), Use of Computers and Multimedia in Education, Horton.
- Sutherland, R., Robertson,S.& Peter John.(2009). New Delhi: Improving Classroom
Learning with ICT.Routledge.
- Vanaja, M.(2006). Educational Technology. Hyderabad: Neelkamal Publication
Pvt.Ltd.
- Vaughan, T. (1999) Multimedia making it work, New Delhi: Tata McGraw Hill
[Fourth Edition].
- William H. Dutton, Malcolm Peltu(1996) Information and Communication
Technologies: Visions and Realities Oxford University Press.

PEDAGOGIC COURSES

EDU 104.11: UNDERSTANDING THE DISCIPLINE OF ENGLISH EDUCATION

NO.OF CREDITS	: 3
CONTACT HOURS	: 60
MARKS	: 60 (External 50 + Internal 10)
DURATION OF EXAMINATION	: 2 hours

OBJECTIVES

On completion of the course, the prospective teachers would be able to:

- justify the relevance of English language learning and teaching.
- develop authentic classroom practices based on theoretical underpinnings.
- apply an integrated approach in developing the four-fold language skills.
- develop the ability for self-study.
- understand the role of English language teaching in Educational Reports based on KCF AND NCF.

MODE OF TRANSACTION

Lecturing, Discussion, Debates, Investigative learning, Problem-based learning, Web-based learning, Cooperative learning, Seminars, Debates, Assignments, Peer group discussion, Interaction with community, Case study, Survey, Dialogue and ICT based teaching and learning.

COURSE OUTLINE

Module I – Conceptual Background of English (10 hrs)

- 1.1 Importance of English Language (International language, window to the world, library language, link language, language of scientific research, trade & commerce)
- 1.2 Historical development of English in India during the pre-& post-colonial periods (Charter Act, East-West controversy, Macaulay's Minutes, Downward Filtration Theory, Three-language Formula)

- 1.3 Present Status of English in India (Medium of instruction, Associate Official Language, NCF & KCF reports on English Language)
- 1.4 General Aims of teaching English in India (cultural, literary, utility-based)
- 1.5 Conditions under which English is taught in schools today.

Module 2 - Psychological Bases of English Teaching (15 hrs)

- 2.1 Linguistic principles, psycho-linguistic principles
- 2.2 Implications of theories related to language development- Behaviourism, Cognitivism, Constructivism, Critical Pedagogy, Gardner's Multiple Intelligence
- 2.3 Chomskyan theory of language learning -Language Acquisition Device (LAD), Universal Grammar (UG)
- 2.4 Learner factors in second language acquisition (age, gender, intelligence, aptitude, attitude, cognitive style, motivation)
- 2.5 CREDE Model of Instruction (Joint productive activity, Language development, Contextualization, Challenging activities, Instructional conversation)

Module 3 - Development of Language Skills (15 hrs)

- 3.1 Listening skill -sub-skills, developmental activities, types of listening (casual, focused, intensive, extensive)
- 3.2 Speaking skill- sub-skills, developmental activities
- 3.3 Reading skill– sub-skills, developmental activities, mechanics of reading, reading problems & their solutions, types of reading (intensive, extensive, loud, silent, individual, choral, literal, interpretive, critical, creative)
- 3.4 Writing skill– sub-skills, developmental activities, characteristics of good handwriting, types of punctuation marks, and types of composition (free & guided)
- 3.5 Integration of language skills through Task-based instruction.
- 3.6 Evaluating the four-fold skills (Analytical & Global impression scheme).

Module 4 - Vocabulary and Grammar in Language Teaching (10 hours)

- 4.1 Importance of vocabulary & grammar in language learning
- 4.2 Principles of selection and gradation of vocabulary & grammar
- 4.3 Different types of vocabulary (active, passive, content and structural)
- 4.4 Different types of grammar (prescriptive, descriptive, formal and functional)

- 4.5 Techniques of presenting vocabulary
- 4.6 Methods of teaching grammar (Inductive and deductive).

Module 5 - Developing Study Skills (10 hrs)

- 5.1. Importance of developing study skills
- 5.2 Locating & gathering information (skimming & scanning)
- 5.3. Storing Information (note-taking, note-making, summarizing)
- 5.4 Developing reference skills (using the Dictionary & Thesaurus)
- 5.5. Retrieving information using technology & computers .

PRACTICUM (any one)

- 1. Summarize a Journal article on any education-related topic.
- 2. Create a Dictionary of 50 words selected from the English textbook prescribed for upper-primary students and specify the meaning, form, pronunciation, synonyms and antonyms.
- 3. Identify five activities that can help integrate the language skills.

REFERENCES

- Arora, V.N. & Chandra, Lakshmi.(1993). Improve your writing. New Delhi: Oxford University Press.
- Agnihotri, R.K. and Khanna, A.L. (1994). Second language acquisition: Socio-cultural and linguistic aspects of English in India. New Delhi: Sage Publications.
- Baker, Joanna & Westrup, Heather. (2008). The English Language Teacher's Handbook. London: Continuum International Publishing Group.
- Bloomfield, Leonard. (1969). Language. London: George Allen&Unwin Ltd.
- Cook, Vivian.(1991). Second language learning and language teaching. New York: Chapman and Hall Inc.
- Cook, V.J. & Newson, Mark. (2007). Chomsky's Universal Grammar: An Introduction. UK: Blackwell Publishing.

- Crystal, David (1997). Cambridge Encyclopaedia of Second Language Education.
United Kingdom: Cambridge University Press.
- Culpeper, J.(2001). Language and characterisation: People in playsand other texts.
Harlow; Longman.
- Ellis, Rod .(1987). Understanding second language acquisition, Oxford: Oxford
University Press.
- Gardner,H. (1983). Frames of Mind: The theory of multiple intelligences. New York:
Basic Books Inc. Publishers.
- Kincheloe, J. (2008). Critical Pedagogy (2 ndEdn.). New York: Peter Lang.
- Lyons,John. (2003). Language and Linguistics. Cambridge: Cambridge University
Press.
- Shanahan,Dan.(2007). Language, feeling and the brain. New Jersey: Transaction
Publishers.
- Tickoo, M.L. (2003). Teaching and Learning English. New Delhi: Orient Longman
Pvt. Ltd.
- Underhill, Nick. (1987). Testing spoken language. A handbook of oral testing
techniques. Cambridge: Cambridge University press.

EDU 105.11: LEARNING TO FUNCTION AS AN ENGLISH TEACHER

NO. OF CREDITS	:	3
CONTACT HOURS	:	60
MARKS	:	60 (External 50 + Internal 10)
DURATION OF EXAMINATION :		2 hours

OBJECTIVES

On completion of the Course, the prospective teachers would be able to:

1. use appropriate strategies to develop the target skills or sub-skills.
2. understand the important contribution of the various methods in enriching language.
3. create a positive learning environment by ensuring involvement of all the learners.
4. apply relevant strategies to develop the target language.
5. use English appropriately when explaining, instructing, prompting, eliciting, conveying meaning, and motivating learners.
6. monitor learners and provide feedback on language and tasks, including oral or written correction.

MODE OF TRANSACTION

Lecturing, Discussion, Debates, Investigative learning, Problem-based learning, Web-based learning, Cooperative learning, Seminars, Debates, Assignments, Peer group discussion, Interaction with community, Case study, Survey, Dialogue, ICT based teaching and learning

COURSE OUTLINE

Module 1: Approaches and Methods in Teaching English (15 hrs)

- 1.1. Maxims of teaching English (simple to complex, known to unknown, particular to general, concrete to abstract)
- 1.2. Approaches in teaching English (Structural-oral-situational, Communicative, Community Language Learning, Suggestopedia).
- 1.3. Methods of teaching English (Grammar Translation, Direct, Bilingual)

Module 2: Techniques of teaching English (15hrs)

- 2.1. Techniques and devices: Questioning, brain-storming, seminar, workshop, symposia, role-play, debate, self-directed learning (SDL)
- 2.2 Language Games: vocabulary games, spelling games
- 2.3 Reflective Journaling as a technique

Module 3: Innovative Strategies of teaching English (10hrs)

- 3.1 Collaborative learning, co-operative learning, Think-Pair-Share strategy
- 3.2 Mapping Strategies: concept-mapping, mind-mapping
- 3.3 SOAP strategy in Language learning

Module 4 :Training in Teaching Skills (10hrs)

- 4.1. Micro-teaching: Objectives, and Phases of teaching
- 4.2. Micro-teaching skills- Skill of reinforcement, skill of fluency in questioning, skill of stimulus variation
- 4.3. Link Practice: its meaning and significance

Module 5-Pedagogical Skills Development (10 hrs)

- 5.1. Pedagogy-Pedagogical Knowledge-Pedagogical Competence-meaning and significance
- 5.2. Pedagogical Skills- Content related skills, Classroom Management, Promoting Culturally Inclusive Classroom Environment
- 5.3. Multiple Learning Styles of Students (Kolb and VAK)-Implications in classroom
- 5.4. Evaluation of Student's writings-Diagnosis&Remediation

Practicum (any one)

1. Conduct a debate /workshop/symposium based on any relevant topic of social concern by following the rules and regulations.
2. Administer a tool to identify the learning styles of students.
3. Make any three language games to teach spelling/vocabulary.

REFERENCES

- Bhatnagar, Nitin & Bhatnagar, Mamta. (2012). Effective communication and soft skills: Strategies for success. New Delhi: Dorling Kindersley (India) Pvt. Ltd.
- Jones, Lee. (2000). Cambridge Advanced English Teacher's Book. Cambridge: Cambridge University Press.
- Kumar, Sanjay & Lata, Pushp. (2012). Communication Skills. New Delhi: Oxford University Press.
- Larsen, D.F. (2000). Techniques and principles of language teaching. Oxford: Oxford University Press.
- Lyons, T. (2002). Language and linguistics : An Introduction. Cambridge : Cambridge University Press .
- Naiman, N. Frohlic, M. et al. (1978). The good language learner. Toronto: Ontario Institute for Studies in Education.
- NCERT.(1992). Fifth Survey of Educational Research. New Delhi: NCERT.
- Reid, J. (1998). Understanding learning styles in the second language classroom. New York: Prentice-Hall.
- Rutherford, Andrea J. , Thorpe, Edgar et al. (2011). Communication Skills. New Delhi: Dorling Kindersley (India) Pvt. Ltd.
- Silver, H.E. & Hanson, J.R. (1998). Learning styles and strategies(3rd ed.). Woodbridge, NJ: The Thoughtful Education Press.
- Sheorey, Ravi. (2006). Learning and teaching English in India. New Delhi: Sage Publications India Pvt Ltd.
- Tomlinson, Brian. (1998). Material development in language teaching. United Kingdom: Cambridge University Press.
- Thomas, Malamah. (1987). Classroom interaction. Oxford: Oxford University Press.
- Ur, Penny. (1991). A Course in Language Teaching: Practice and Theory. UK: Cambridge University Press.
- Wenden, A. (1987). Learner strategies in language learning. Englewood Cliffs: N.J.: Prentice Hall.

**EDU 104.12 : UNDERSTANDING THE DISCIPLINE OF MALAYALAM
EDUCATION**

NO. OF CREDITS	:	3
CONTACT HOURS	:	60
MARKS	:	60 {External 50 + Internal 10}
DURATION OF EXAMINATION:		2 hours

OBJECTIVES

On completion of the course, the prospective teachers would be able to:

- analyze the interrelationships of Disciplines like ICT, Theatre, Drama and other languages in teaching Malayalam
- examine how the language skills can be practiced in an effective way in different levels of schooling
- apply the theory and innovative methods in transacting prose and poetry
- analyse importance of learning grammar in language classes and ways to transact the same
- examine the contributions of psychological theories in Malayalam language learning

MODE OF TRANSACTION

Lecture cum discussion, demonstration, group presentations, seminars, debates, and assignments, brain storming sessions, and peer group discussion, interaction with community, case study, dialogue. ICT based teaching and learning

COURSE OUTLINE

Module 1- Evolution of the subject(10hrs)

- 1.1. Historical development of Malayalam language, mother tongue as the medium instruction, Influence of mother tongue in the formation of culture, Malayalam and other language
- 1.2. Aims and objective of teaching Malayalam, Maxims of teaching Malayalam , Principles, Gradation and Motivational Factors of teaching Malayalam.
- 1.3. Correlation with other disciplines (other Languages, ICT and Performing Arts- Drama and Theatre)

Module2 - Language Skills (10hrs)

- 2.1 Basic language skills (Listening, Speaking, Reading and Writing)
- 2.2 Practising LSRW at different levels of schooling
- 2.3 Classroom Communication (factors and barriers)
- 2.4 Different methods for vocabulary development (Dictation, Reference, Frayar model, Semantic map etc.)

Module 3- Teaching of Prose and Poetry(15hrs)

- 3.1 Teaching of prose and poetry
- 3.2 Aims and objectives of teaching poetry and prose
- 3.3 Traditional and new methods for teaching prose and poetry
- 3.4 Approaches of teaching prose and poetry at different levels of schooling
- 3.5 Creativity in language classroom

Module 4 - Teaching Grammar and Composition (10hrs)

- 4.1 Importance of grammar in language learning, methods of learning grammar (inductive and deductive)
- 4.2 Method of teaching composition at different levels, forms of composition
- 4.3 New trends in teaching grammar and composition,

Module 5 –Contributions of Psychology (15 hours)

- 5.1 Behaviorism in Teaching Malayalam
- 5.2 Constructivism as a Theoretical Backing for Malayalam Education
- 5.3 Implications of the Theory of Multiple Intelligence (Howard Gardner)
- 5.4 Critical Pedagogy as an approach to address Social Issues
- 5.5 Chomskian theory of language acquisition (LAD and Universal Grammar)
- 5.6 Incorporating these theories in Malayalam language learning.

PRACTICUM (any one)

- 1) Develop a manuscript of journal/special issue based on any one social theme
- 2) Prepare any two lesson plans for practicing composition at secondary level
- 3) Prepare your own pattern/ steps for teaching prose /poetry at secondary level

REFERENCES

- Anveshanangalkku oru kaippusthakam;
- Bhashapadanavum Bhodhanasasthravum-Dr.Sreevrinda Nair.N,
D.C .Books,kottayam.2015
- Bhashapadanavum Sidhanthagalum - Dr.Sreevrinda Nair.N
D.C Books,Kottayam. 2015.
- Divaswapna, Gijubhai Bhadeka, National Book Trust
- Engane Malayalattil Blogam, Baburaj PM, DC Books, Kottayam
- Freire, Paulo. (1998). Pedagogy of the Oppressed. USA: Continuum Pub. Co.
- Gadyarachana, Dr.CK Chandrasekharan Nair, Kerala Bhasha Institute
- Gadyashilpam, CV Vasudeva Bhattathiri, Kerala Bhasha Institute
- Gardner, H. (1983). Frames of Mind: The Theory of Multiple Intelligences. New York: Basic Books.
- Kerala Panineeyam, AR Rajaraja Varma , DC Books, Kottayam
- Kincheloe, J. (2008). Critical Pedagogy (2nd Edn.) New York: Peter Lang
- Kuttikale Padanathil Sahayikkam, PK Abdul Hammed Karassery, DC Books,
Kottayam
- Malayala Bhasha Bodhanam, CV Vasudeva Bhattathiri, Kerala Bhasha Institute
- Malayala Kavithapadhanamgal, K Sachidanandan, Mathrubhoomi Books
- Malayala Sahithya Charithram, Dr. Kalpatta Blakrishnan, Kerala Bhasha Institute
- Malayala Sahithya Charithram, PK Parameswaran Nair, Sahithya Academy
- Malayala Sahithya Niroopanam, Dr. Panmana Ramachandran Nair, Current Books,
Kottayam
- Malayala Sahithya Vimarshanam, Dr. Sukumar Azheekkode, DC Books, Kottayam
- Mumbilulla Jeevitham, J Krishnamoorthi, DC Books, Kottayam
- Nalla Malayalam, CV Vasudeva Bhattathiri, DC Books, Kottayam
- Nammude Bhasha, EMS Namboothiripad, Kerala Bhasha Institute
- Padhana Projectukalkku oru Kaippustakam, Prof. MK Prasad, Kerala
Shaasthrasaahitya Parishad
- Parivarthanonmugha Vidhyabhyabyasam, Guru Nithyachaithanya Yathi, Narayana
Gurukulam, Varkala
- Prayogika Vyakaranam, Irinjayam Ravi

Purogamana Vidyabhyaasa chinthakal, PV Purushothaman, Kerala Shaasthrasaahitya
Parishad
Thettillatta Malayalam, Prof. Panmana Ramachandran Nair, DC Books, Kottayam
Tirakkadha Rachana – Kalayum Sidhanthvum, Jose K Manuel, Current Books,
Kottayam

EDU 105.12: LEARNING TO FUNCTION AS MALAYALAM TEACHER

NO. OF CREDITS	:	3
CONTACT HOURS	:	60
MARKS	:	60 {External 50 + Internal 10}
DURATION OF EXAMINATION	:	2 hours

OBJECTIVES

On completion of the course, the prospective teachers would be able to:

- critically examine teaching learning processes that incorporate Inquiry, Discovery, Conceptual Development ,Activity Based and Brain Based learning within the classroom
- practice the techniques of Drama and Theatre in the process of teaching and learning to nurture children’s creativity and aesthetic sensibilities
- explore the instructional options available to support learning.
- relate the understanding of the concepts acquired, with what children bring to the classroom from their environment and experience, given their diverse backgrounds and interests.
- develop diverse processes throughout the year to ensure better motivation and learning, and help children for self assessment with insights about learning.

MODE OF TRANSACTION

Lecture cum discussion, demonstration, group presentations, seminars, debates, assignments, brain storming sessions, and peer group discussion, interaction with community, case study, and Educational survey and dialogue, ICT based teaching and learning

COURSE OUTLINE

Module 1-Approaches and Methods in Teaching Malayalam (10 hrs)

1.1. New Trends and Development in teaching Malayalam

1.2. Direct method – play way method – Dalton plan – project method – Dramatisation – Lecture method.

1.3. Buzz session ,Brain Storming

1.4. Discourse oriented pedagogy – importance of discourses in Malayalam language teaching – Debate, Drama, Seminars, Posters, Narratives, Screen play, Editorials, Travelogues etc. (Construction and Functions)

Module 2- Innovative Strategies for teaching Malayalam (15hrs)

21. Co-Operative Learning- Basic Elements-Specific Strategies-implementation in classroom

22. Collaborative Learning-Meaning-strategies-implementation in classroom

23. Team Teaching-meaning-Significance-Types –advantages-planning and implementation

24. Peer tutoring-Elements-Benefits-Implementation in classroom

2.5. Language Games, Role Play

Module 3-Brain Based Learning (10hrs)

3.1 History-Definition-Meaning –significance-Impacts on Education

3.2 Instructional Techniques-Core Principles and Twelve Design Principles

3.3 Using Brain Based learning in Classroom

3.4 Mapping Strategies-Graphic Organizer-Concept Mapping-Mind Mapping

Module 4 -Training in Teaching Skills (15 hrs)

4.1. Introduction to Core Teaching Skills and Micro Teaching

4.2. Micro Teaching (Skills -Stimulus Variation, Questioning, using Black Board/White Board)-Link Practice-Integration of skills

4.3. Development of ICT enabled skills

Module 5-Pedagogical Skills Development (10 hrs)

5.1. Pedagogy-Pedagogical Knowledge-Pedagogical Competence-meaning and significance

5.2. Pedagogical Skills- Content related skills, Classroom Management

5.3. Multiple Learning Styles of Students, Kolb’s learning style -Implications in classroom

5.4. Evaluation of Student’s writings and Student examinations- Diagnosis-Remediation and Motivational Techniques

PRACTICUM (any one)

1. Develop a tool to evaluate your performance in classroom teaching (EPC4).
2. Develop a lesson transcript based on any one of Brain Based Technique
3. Prepare any two discourses for teaching Malayalam at secondary level

REFERENCES

- Allen DW, Wang W. Beijing: Xinhua Press; 1996. Microteaching.
- Benjamin Samuel Bloom (1956): Taxonomy of Educational Objectives: The Classification of Educational Goals (Vol.1): Green, Longman.
- Berk, E.L. (2003). Child Development. New Delhi: Pearson Education
- Chen Q, Zeng F, Yang Z. Study on the effects of multimedia monitoring system in medical teacher's microteaching training. Comput Inf Sci. 2010; 3:241–3.
- Elliot J. A microteaching experiment at MEDUNSA. S Afr Med J. 1982;62:868–70.
- Krishna Kumar (2005): National Curriculum Framework: New Delhi, NCERT , MHRD, Govt. of India.
- Malayala Bhasha Bodhanam, CV Vasudeva Bhattathiri, Kerala Bhasha Institute
- Malayala Bhashadyapanam, Dr.K Sivarajan, Calicut University
- Malayala Kavithapadhanamgal, K Sachidanandan, Mathrubhoomi Books
- Malayala Sahithya Charithram, Dr. Kalpatta Blakrishnan, Kerala Bhasha Institute
- Malayala Sahithya Charithram, PK Parameswaran Nair, Sahithya Academy
- Malayala Sahithya Niroopanam, Dr. Panmana Ramachandran Nair, Current Books, Kottayam
- Malayala Sahithya Vimarshanam, Dr. Sukumar Azheekkode, DC Books, Kottayam
- Mathrubhashabhodhanam: Pravanathakalum Reethikalum, Bindhu,C.M., Scorpio, Calicut
- Micro teaching, Allen,D & Ryan, K, Adison Wesley, London
- Mumbilulla Jeevitham, J Krishnamoorthi, DC Books, Kottayam
- Nalla Malayalam, CV Vasudeva Bhattathiri, DC Books, Kottayam
- Nammude Bhasha, EMS Namboothiripad, Kerala Bhasha Institute
- Parivarthanonmugha Vidhyabhyabyasam, Guru Nithyachaithanya Yathi, Narayana Gurukulam, Varkala
- Prayogika Vyakaranam, Irinjayam Ravi

Purogamana Vidyabhyaasa chinthakal, PV Purushothaman, Kerala Shaasthrasaahitya Parishad
Thettillatta Malayalam, Prof. Panmana Ramachandran Nair, DC Books, Kottayam
Tirakkadha Rachana – Kalayum Sidhanthvum, Jose K Manuel, Current Books, Kottayam
Toto Chan, Tetsuko Koriyo Nagi, Kerala Shaasthrasaahitya Parishad
Tuition to Intuition, Dr. KN Anandan, Transcend, Malappuram
Ucharanam nannavan, Dr.VR Prabodhachandran, Kerala Bhasha Institute
Vidhyabhyasathil Viplavam, Osho, Silence, Kozhikkode
Vidyabhyaasa chinthakal, Asis Tharuvana, Olive, Kozhikkode
Vidyabhyasa Parivarthanattinoru Amugham, Kerala Shaasthrasaahitya Parishad
Vyakarana Mitham, Sheshgiri Prabhu

EDU 104.16 : UNDERSTANDING THE DISCIPLINE OF MATHEMATICS EDUCATION

NO. OF CREDITS	:	3
CONTACT HOURS	:	60
MARKS	:	60 (External 50 + Internal 10)
DURATION OF EXAMINATION :		2 hours

OBJECTIVES

On the completion of this course, the prospective teachers would be able to

- acquaint with the evolution of Mathematics as a discipline
- inquire into the contribution of eminent mathematicians
- appreciate the conception and significance of Mathematics as a Discipline.
- get a perspective on scope of Mathematics
- make sense of the, aims, objectives and skills of teaching Mathematics.
- internalize the values of teaching mathematics
- gain an insight of the Interdisciplinary Nature of Mathematics
- conceptualize the ideology of Behaviorism, Constructivism in Mathematics teaching

MODE OF TRANSACTION

Lecture cum discussion, demonstration, group presentations, seminars, debates, assignments, holding camps, brain storming sessions, and peer group discussion, Peer tutoring, Project, interaction with community, case study, educational survey and dialogue, ICT based teaching and learning.

COURSE OUTLINE

Module 1 - Historical Background of Mathematics(10 hours)

- 1.1 Evolution of Mathematics as a discipline- origin and recent developments
- 1.2 Branches of Mathematics- New Math movement
- 1.3 Contribution of Mathematicians - Indian and western Aryabhata, Bhaskaracharya, Brahmagupta, Ramanujan, Pythagorus, Rene Descarte, Bertrand Russel, Euclid
- 1.4 Relevance of learning History of mathematics

Module 2 - Conceptual Background of Mathematics (10 hours)

- 2.1 Nature of Mathematics - Meaning and Characteristics .
- 2.2 Language and Symbols of Mathematics
- 2.3 Paradigm shift in the nature
 - Pure and applied
 - Empirical to rational
 - Induction, Intuition, and logical
- 2.4 Scope of mathematics – role in the social realm –A vehicle for Nation Building in the 21st century

Module 3 - Aims and objectives of Teaching mathematics(15 hours)

- 3.1 Aims and Values- Utilitarian, Disciplinary, Cultural, Vocational, Aesthetic
- 3.2 Mathematical Thinking as a goal of mathematics education.
- 3.3 General Objectives of teaching mathematics at different stages-Primary, Secondary, Higher secondary
- 3.4 Mathematical creativity.

Module 4 - Inter and Intra disciplinary nature of Mathematics Education (10 hours)

- 4.1 Correlation with Life
- 4.2 Correlation with different subjects-Science, Social sciences, I C T, Languages, Arts, Music,
- 4.3. Correlation with Different branches and topics

Module 5 - Theoretical bases of Mathematics education(15 hours)

Conceptual analysis of:

- 5.1 Behaviorism
- 5.2 Constructivism – cognitive, social
- 5.3 Theory of Multiple Intelligence
- 5.4 Experiential learning

PRACTICUM (any one)

1. Prepare an artistic document on values of teaching mathematics
2. Present a digital album on contributions of mathematicians EPC3?
3. Prepare a critical report on evolutionary aspect of symbols in mathematics. EPCI?

REFERENCES

- Aiyankar, Kuppuswami. The Teaching of Mathematics.
- Anderson, L. (2006). Taxonomy academy handbook. Retrieved July, 2006, from <http://www.andersonresearchgroup.com/tax.tyml>.
- Anderson, L., & Krawth Wohl, D.E. (2001). A taxonomy for learning, teaching and assessing: A revision of Bloom's taxonomy of educational objectives (Abridged). New York: Addison Wesley Longman, Inc.
- Andrews, J.J.W, Saktowski, D.H. & Janzen, H.L. (2001). Handbook of psycho educational assessment. Academic press.
- Apple, M.V. (2000). Mathematics reform through conservative modernization: Standards, markets and inequality in education. Reported by Boaler, J. (Ed). Multiple perspectives on mathematics teaching and learning. 243-259, West Port, CT: Ablex.
- Artz, A.G., & Armour -Thomas, E. (2001) .Becoming a reflective mathematics teacher: A guide for observations and self-assessment. Mehweh, N.L. Lawrence Erlbaum Associates
- Barell, J. (2007). Problem based learning (IIEd.). Thousand Oaks, CA: Corwin press.
- Barrows, H.S. (1986). A taxonomy of problem based learning methods. Medical Education, 20, 481-486.
- Bella, N.J. (2004). Reflective analysis of student work. Thousand Oaks: CA. Corwin Press.
- Bellard, P.B. Teaching the Essentials of Arithmetic
- Bender, W.N. (2005). Differentiating Math instruction strategies that work for K-8 classrooms. Thousand Oaks, CA: Corwin press.
- Burke, K. (2006). From standards to rubrics in six steps. Thousand Oaks, CA: Corwin press.
- Butler and Wren (1965). The teaching of Secondary School Mathematics, London.
- Cooney, T.J. and Other (1975). Dynamics of Teaching Secondary School Mathematics,

- Deepka,E.(2007).Designing assessment for mathematics.(2ndEd).Thousand Oaks,CA:Corwin Press.
- Eves, Howard (1963). The History of Mathematics, New York: Holt Rineheart and Winston.
- Godfrey, C & A, W. Siddons. The Teaching of Elementary Mathematics.
- Iglewicz, Boris and Stoyale, Judith (1973). An Introduction to Mathematical Reasoning, New York; The Mac Millan Co.
- Korner, S. The Philosophy of Mathematics, New York; Herper Torch Books, the science Library
- Malhotra,V (2007). Encyclopaedia of Modern Methods of Teaching Science. New Delhi: Crescent Publishing Corporation.
- Mangal, S.K. (1984). The teaching of Mathematics, Ludhiana: R.P. Fadon Prakash brothers.
- Merrilyn goods,Ggloria Stillman and Colleen vale .Teaching secondary school mathematics-Researches and practices for the 21st century
- NCERT (2006). National Curriculum Framework for School Education 2005. New Delhi.
- NCERT. A Text Book of content – cum – methodology of Teaching Mathematics, New Delhi: NCERT.
- NRC, (2001) National Research Council. Mathematics learning study: Center for Education, Division of Behavioural and Social Sciences and Education, Adding it up: Helping children learn mathematics. Edited by J. Kilpatrick et al., Washington, DC: National Academy Pre<http://www.edel.edu/pbl>
- Paul Chambers .Teaching mathematics-developing as a reflective secondary teacher
- Rai, B.C. Methods of Teaching Mathematics.
- Schultze, A. The Teaching of Arithmetics in Secondary School.
- Servas, Wand T. Varga. Teaching School Mathematics – UNESCO Service Book.
- Shah, G. B., New Dimensions in the Teaching of Mathematics.
- Sidhu, K.S. (1984). The Teaching of Mathematics, New Delhi: Sterling Publications Pvt. Ltd.
- Soman, K (1988). Ganitha Sasthra Bodhanam, Trivandrum: State Institute of Language (Kerala).
- Sumner, W.L. The Teaching of Arithmetic & Elementary Mathematics.
- Sundarajan. S. Theory and Practice of Teaching School Mathematics.

EDU 105.16 : LEARNING TO FUNCTION AS MATHEMATICS TEACHER

NO. OF CREDITS	:	3
CONTACT HOURS	:	60
MARKS	:	60 (External 50 + Internal 10)
DURATION OF EXAM	:	2 hours

OBJECTIVES

On completion of the course, the prospective teachers would be able to:

- explore the distinctive features of varied instructional approaches, techniques and methods of teaching Mathematics
- equip with innovative strategies of mathematics teaching
- entwine models of differentiated teaching in effectual instructional practices of Mathematics education.
- fine-tune themselves as innovative pedagogic practitioner.
- develop an understanding about individual difference and its remediation.
- outfit prospective teacher s in up surging skills for effectual teaching in Mathematics

MODE OF TRANSACTION

Lecture cum discussion, demonstration, group presentations, seminars, debates, and assignments, holding camps, brain storming sessions, and peer group discussion,Peer tutoring,Project, interaction with community, case study, educational survey and dialogue, ICT based teaching and learning

COURSE OUTLINE

Module 1 – Maxims, Approaches and Methods for productive learning of Mathematics(10 hrs)

- 1.1 Maxims of learning-simple to complex-Known to unknown-Particular to general-concrete to abstract
- 1.3 Approaches-Teacher centered vs Learner centered, Heuristic –Investigative
- 1.4 Methods-Lecture method-Inductive Deductive method-Analytic and synthetic method -Problem Solving method-Projectmethod

Module 2 - Techniques and Devices of Teaching Mathematics(10 hrs)

- 2.1 Techniques and Devices: Ability grouping, Gradation, Questioning, Brain storming, Drill work, Seminar, Simulation, Assignment, Supervised study.
- 2.2 Motivational Techniques in teaching of Mathematics

Module 3- Innovative Strategies (15 hours)

- 3.1 Innovative Strategies: Peer tutoring, Team teaching, Co-operative learning, Problem based learning
- 3.2 Mapping strategies – Principles and characteristics -concept mapping, graphic organizers, and brain based learning,
- 3.3 Reflective Journaling: -Brief out line
- 3.4 Web quest model of Inquiry-conceptual view
- 3.5 Differentiated strategies for inclusiveness: Think pair, Flexible Grouping.

Module 4 - Pedagogical Skills Development (15 hrs)

- 4.1 Pedagogy-Pedagogical Knowledge-Pedagogical Competence-meaning and significance
- 4.2 Pedagogical Skills- Content related skills, Classroom Management, Promoting Culturally Inclusive Classroom Environment
- 4.3 Multiple Learning Styles of Students (Kolb and VAK)-Implications in classroom
- 4.4 Diagnosis-Remediation
- 4.5 Catering to the needs of the gifted, slow learners, under achievers, Learning disabled.

Module 5- Teaching Skills. (10 hrs)

- 5.1 Teaching skills- Micro teaching procedure
- 5.2 Skills and its components. -Stimulus Variation, Questioning, using Black Board/White Board, Set Induction, Reinforcement
- 5.3 Link Practice-Integration of skills
- 5.4 Development of ICT Enabled Skills

PRACTICUM (any one)

1. Prepare concept map/graphic organiser on any unit of Mathematics
2. Conduct a survey on the learning styles of peers. EPC4
3. Prepare a digital programme for motivating learners at secondary/Hr. secondary level EPC3.

REFERENCES

- Aiyankar, Kuppaswami. The Teaching of Mathematics.
- Anderson, L. (2006). Taxonomy academy handbook. Retrieved July, 2006, from <http://www.andersonresearchgroup.com/tax.tyml>.
- Anderson, L., & Krawth Wohl, D.E. (2001). A taxonomy for learning, teaching and assessing: A revision of Bloom's taxonomy of educational objectives (Abridged). New York: Addison Wesley Longman, Inc.
- Andrews, J.J.W, Saktowski, D.H. & Janzen, H.L. (2001). Handbook of psycho educational assessment. Academic press.
- Apple, M.V. (2000). Mathematics reform through conservative modernization: Standards, markets and inequality in education. Reported by Boaler, J. (Ed). Multiple perspectives on mathematics teaching and learning. 243-259, West Port, CT: Ablex.
- Artz, A.G., & Armour -Thomas, E. (2001) .Becoming a reflective mathematics teacher: A guide for observations and self-assessment. Mehweh, N.L. Lawrence Erlbaum Associates
- Barell, J. (2007). Problem based learning (IIEd.). Thousand Oaks, CA: Corwin press.
- Barrows, H.S. (1986). A taxonomy of problem based learning methods. Medical Education, 20, 481-486.
- Bella, N.J. (2004). Reflective analysis of student work. Thousand Oaks: CA. Corwin Press.
- Bellard, P.B. Teaching the Essentials of Arithmetic
- Bender, W.N. (2005). Differentiating Math instruction strategies that work for K-8 classrooms. Thousand Oaks, CA: Corwin press.
- Burke, K. (2006). From standards to rubrics in six steps. Thousand Oaks, CA: Corwin press.

- Butler and Wren (1965). The teaching of Secondary School Mathematics, London.
- Cooney, T.J. and Other (1975). Dynamics of Teaching Secondary School Mathematics,
- Dash, B.N. (2005). Psychology of Teaching Learning Process, New Delhi: Dominant Publishers and Distributors.
- Deepka, E. (2007). Designing assessment for mathematics. (2nd Ed). Thousand Oaks, CA: Corwin Press.
- Gardner, H. (1983) Frames of Mind: The Theory of Multiple Intelligences. New York: Basic Books.
- Godfrey, C & A, W. Siddons. The Teaching of Elementary Mathematics.
- Goleman, D. (1995). Emotional Intelligence. New York McGraw Hill
- Joyce, Bruce; Weil, Mursha (2003). Models of Teaching,
- Kincheloe, J. (2008). Critical Pedagogy (2nd Edn). New York: Peter Lang.
- Korner, S. The Philosophy of Mathematics, New York; Herper Torch Books, the science Library
- Malhotra, V (2007). Encyclopaedia of Modern Methods of Teaching Science. New Delhi: Crescent Publishing Corporation.
- Malhotra, V. (2006). Methods of Teaching Mathematics, New Delhi: Crescent Publishing Corporation.
- Mangal, S.K. (1984). The teaching of Mathematics, Ludhiana: R.P. Fadon Prakash brothers.
- Merrilyn goods, Gloria Stillman and Colleen vale .Teaching secondary school mathematics-Researches and practices for the 21st century
- NCERT (2006). National Curriculum Framework for School Education 2005. New Delhi.
- NCERT. A Text Book of content – cum – methodology of Teaching Mathematics, New Delhi: NCERT.
- NRC, (2001) National Research Council. Mathematics learning study: Center for Education, Division of Behavioural and Social Sciences and Education, Adding it up: Helping children learn mathematics. Edited by J. Kilpatrick et al., Washington, DC: National Academy Press <http://www.edel.edu/pbl>

- Pandey,S,K and Sharma, R.S (2008). Encyclopaedia of Modern Techniques of Teaching, New Delhi: Commonwealth Publishers.
- Paul Chambers .Teaching mathematics-developing as a reflective secondary teacher
- Rai, B.C. Methods of Teaching Mathematics.
- Servas, Wand T. Varga. Teaching School Mathematics – UNESCO Service Book.
- Shah, G. B., New Dimensions in the Teaching of Mathematics.
- Sharma. R. A. Teaching Learning Strategies and Mathematical Creativity.
- Sidhu, K.S. (1984). The Teaching of Mathematics, New Delhi: Sterling Publications Pvt. Ltd.
- Soman, K (1988). Ganitha Sasthra Bodhanam, Trivandrum: State Institute of Language (Kerala).
- Sumner, W.L. The Teaching of Arithmetic & Elementary Mathematics.
- Sundarajan. S. Theory and Practice of Teaching School Mathematics.
- Tiwari.D.(2007). Encyclopaedia of Modern methods of Teaching , New Delhi: Crescent Publishing Corporation.

**EDU 104 .17: UNDERSTANDING THE DISCIPLINE OF PHYSICAL SCIENCE
EDUCATION**

No. OF CREDITS	:	3
CONTACT HOURS	:	60
MARKS	:	60 (External 50 + Internal 10)
DURATION OF EXAM	:	2 hours

OBJECTIVES

On completion of the course, the prospective teachers would be able to

- acquaint with the evolution of Science as a discipline
- inquire into the contribution of eminent Scientists
- appreciate the conception and significance of Science as a Discipline.
- get a perspective on scope of Science
- make sense of the, aims, objectives and skills of teaching Physical Science in order to adopt a holistic Approach at Primary, Secondary and Higher Secondary levels.
- internalize the values of teaching Physical Science
- gain an insight of the Interdisciplinary Nature of Physical Science and Correlate it with other subjects for effective classroom teaching.

MODE OF TRANSACTION

Lecture cum discussion, demonstration, group presentations, seminars, debates, and assignments, holding camps, brain storming sessions, and peer group discussion, Peer tutoring, Project, interaction with community, case study, educational survey and dialogue, ICT based teaching and learning

COURSE OUTLINE

Module 1 - Historical Background of Science (10hrs)

- 1.1 Evolution of Science as a discipline- Development of Science in Ancient, medieval and Modern Periods- Landmarks in the development of Science Education in India
- 1.2 Branches of Science-Fundamental and New branches- Emergence of interdisciplinary subjects

- 1.3. Contribution of Eminent Scientists- Indian and western – Einstein, Newton, Madam Curie, Mendeleev, Rutherford, Stephen Hawking, C. V. Raman, M.N. Saha, Subrahmanyan Chandrasekhar, Homi Jehangir Bhabha, A.P.J. Abdul Kalam,
- 1.4. Relevance of learning History of Science

Module 2 - Conceptual Background of Science (10hrs)

- 2.1 Nature of Science
 - Meaning, Definitions and Characteristics .
- 2.2 Paradigm shift
 - Product to Process
 - Interdependency of Product and Process
- 2.3 Scope of Science
 - Science as a social endeavor
 - Science for sustainable Development
 - Rationale for inclusion of Science in the Core curriculum- Intellectual,Disciplinary, Utilitarian, Cultural, Vocational, Recreational, Aesthetic, Moral, Social, Integrating Life Skills in Science Teaching.

Module 3 - Aims and objectives of Teaching Physical Science (10hrs)

- 3.1 Aims and Objectives- Meaning and Differences
- 3.2 Objectives and specifications-Objective based instruction and evaluation
- 3.3 General Aims of teaching Physical science
- 3.4 Anticipated outcomes of teaching Physical Science –Developing Scientific Attitude – Scientific Temper-Scientific Literacy
- 3.5 Scientific Creativity

Module 4 - Inter and Intra disciplinary nature of Physical science Education (15)

- 4.1 Concept of Correlation-Incidental and Systematic
- 4.2 Correlation with different Branches of Physical science
- 4.3 Correlation with other disciplines
- 4.4 Correlation with Life Situation

Module 5 - Psychological bases of Physical Science education (15)

- 5.1 Behaviorism-Implications
- 5.2 Constructivism – cognitive and social

5.3 Critical Pedagogy as an approach to address social issue

PRACTICUM (any one)

- 1 Apply scientific method in a specific problem situation and present the report on it.
- 2 Prepare of a digital album or short film on the life and contributions of a scientist.
3. Prepare an artistic document on 'Science in Life'

REFERENCES

- Arons, A.B. (1983) Achieving wider scientific literacy. *Daedalus*, 112, 91-122.
- Bhatt, B. D., 7 Sharma S.R. (1996). *Methods of teaching science*. Delhi: Kanishka Publishing House.
- Bloom, B. S. (Ed.) (1956). *Taxonomy of educational objectives: The classification of educational goals. Handbook 1 : Cognitive Domain*. New York: David McKay Company.
- Bloom, B.S(Editor) 1956. *Taxonomy of Educational Obectives: Hand book I: Cognitive domain*. New York: David Mc key company, Inc.
- Bloom, B.S. (1968). *Taxonomy of educational objectives: handbook1. Cognitive domain*, New York: David Mc key company, Inc.
- Bloom, B.S.; Hastings, J.T. and Madaus,G.F. (1971). *Hand book on formative and summative evaluation of student learning*. New York: Mc-Graw Hill.
- Das, R.C. (1985). *Science teaching in schools*. New Delhi: Sterling Publishers. Fitzpatrick, F.L. (1959). The Science Man power project, *Science Education*, vol. 43, issue 2, pp.121-125.
- G. Sarton(1927). "Introduction to the history of science," Williams and Wilkins, Baltimore,
- Ghosh,B.N. (1986). *Lectures on scientific method*. New Delhi: Sterling Publishers Pvt. Ltd.
- Gupta, S. K. (1983). *Teaching of physical science in secondary schools*.New Delhi: Sterling Publications (Pvt.) Limited.
- Joseph, T. T. (1982). *Modern trends in science education*. (2nd ed.) Kottayam,Kerala : Author.

- Kohli, V. K. (1986). How to teach science. Ambala City, Haryana: Vivek Publishers.
- Llewellyn, D. (2007). "Inquire within – implementing Inquiry based Science standards in Grades 3 -8, Corwin Press, CA: Thousand Oaks.
- Maitra, K. (1991). Teaching of physics. New Delhi: Discovery Publishing House.
- Mathew , T.K., & Mollykutty, T. M. (2011). Science education : Theoretical bases of teaching and pedagogic analysis. Chenganoor: Rainbow Book Publishers.
- Mill, J.S (1949). A system of Logic (8th ed.), London, Longmans, Green and Co.
- Mohan, R.(1995). Innovative science teaching for physical Science. New Delhi:Prentice Hall.
- N.C.E.R T. (1989). Instructional objectives of school subjects. New Delhi: N.C.E.R.T.
- Rajan, K. M., Sindhu, B.S., Josen George, Siby G. Netto & Sajan , R.K. (2010).Teaching of Physical science: Theory, Perspectives & Practice (2nd rev. ed.).Kottayam: St. Joseph's Training College, Mannanam.
- Rajan, K.M. (1999). Perspectives in physical scienceteaching. Kottayam: Vidyarthi Mithram.
- Sharma, R. C. (1985). Modern science teaching. New Delhi: Dhanpat Rai & Sons. Suresh K.P. and Joseph, Celene (2012). Teaching and Testing Science Process skills . New Delhi: Shipra Publications .
- Thurber, W. A., & Collette, A. T. (1964). Teaching science in today's secondary school. New Delhi; Prentice Hall Of India Limited.

EDU 105.17 LEARNING TO FUNCTION AS PHYSICAL SCIENCE TEACHER

NO. OF CREDITS	:	3
CONTACT HOURS	:	60
MARKS	:	60 (External 50 + Internal 10)
DURATION OF EXAMINATION :		2 hours

OBJECTIVES

On completion of the course, the prospective teachers would be able to

- explore the distinctive features of varied instructional approaches, techniques and methods of teaching Physical Science
- equip with innovative strategies of Physical Science teaching
- interweave models of differentiated teaching in effectual instructional practices of Physical Science education.
- fine-tune themselves as innovative pedagogic practitioner.
- develop an understanding about individual difference and its remediation.
- outfit prospective teacher s in up surging skills for effectual teaching in Physical Science

MODE OF TRANSACTION

Lecture cum discussion, demonstration, group presentations, seminars, debates, assignments, brain storming sessions, and peer group discussion, interaction with community, case study, and Educational survey, ICT based teaching and learning

COURSE OUTLINE

Module 1 –Maxims, Approaches and Methods for productive learning of Physical Science (10hrs)

- 1.1 Maxims of learning-simple to complex-Known to unknown-Particular to general-
Concrete to Abstract
- 1.2 Approaches-Teacher centered vs Learner centered—Inductive and Deductive-
Analytic and synthetic -Process and Product -Investigative (Inquiry,Discovery)

- 1.3 Methods-Lecture method- Lecture-Cum-Demonstration Method-Heuristic method - Problem Solving method--Project Method-Historical Method-The Dalton Plan-Role Play
- 1.4 Scientific Method-Steps-Elements of Scientific method: Logical and Technical- Mill's Canon of Induction.

Module 2 - Techniques and Devices of Teaching Physical Science (10 hrs)

- 2.1 Techniques and Devices : Questioning ,Brain storming, Drill work, Seminar,Debate,Symposium,Simulation, Assignment,Supervised study

Module 3 - Innovative Strategies of Teaching Physical Science (15 hrs)

- 3.1 Innovative Strategies: Peer tutoring, Team teaching
Co-operative learning, Problem based learning
- 3.2 Mapping strategies – principles and characteristics -concept mapping, graphic organizers, Brain based learning
- 3.3 Reflective Journaling: Brief outline
- 3.4. Differentiated strategies for inclusiveness: Think pair, Flexible Grouping.

Module 4 - Pedagogical Skills Development (10 hrs)

- 4.1 Pedagogy-Pedagogical Knowledge-Pedagogical Competence-meaning and significance
- 4.2 Pedagogical Skills- Content related skills, Classroom Management, Promoting Culturally Inclusive Classroom Environment
- 4.3 Multiple Learning Styles of Students (Kolb and VAK)-Implications in classroom
- 4.4 Diagnosis-Remediation
- 4.5 Motivational Techniques
- 4.6 Catering to the needs of the gifted, slow learners, under achievers ,Learning disabled

Module 5– Training Procedures in Teaching Skills (15 hrs)

- 5.1 Micro Teaching – Characteristics, Phases
- 5.2 Micro Teaching skills - Stimulus variation, questioning, black board writing
- 5.3 Integration of skills- link practice
- 5.4 Development of ICT Enabled Skills

PRACTICUM (any one)

1. Prepare concept map/graphic organizer/mind map on any unit of Physical Science
2. Conduct a survey on the learning styles of peers
3. Prepare a digital programme for motivating learners at Secondary/Hr. secondary level

REFERENCES

- A guide to the seminar method. Agora foundations. [http://www. Greatbooksojai.com/The_Agora_Foundation- the_Guide_to_the_Seminar_Method_6-16-09.pdf](http://www.Greatbooksojai.com/The_Agora_Foundation-the_Guide_to_the_Seminar_Method_6-16-09.pdf)
- Alvermann, D.E., Dillon, D.R., & O'Brien, D.G. (1987). *Using discussion to promote reaching comprehension*. Newark, DE: International Reading Association.
- Banathy, B. (1968). *Instructional Systems*. Palo Alto, California: Fearon Publishers.
- Barrett, T. (2010). *The problem-based learning process as finding and being in flow*. *Innovations in Education & Teaching International*, 47(2), 165-174. doi:10.1080/14703291003718901
- Bhatt, B. D., & Sharma S.R. (1996). *Methods of teaching science*. Delhi: Kanishka Publishing House.
- Carin and Bass (2000). *Activities of teaching science as inquiry*. [http://www.pearsonhighered.com/educator/product/ methods for teaching science as inquiry](http://www.pearsonhighered.com/educator/product/methods_for_teaching_science_as_inquiry).
- Carin, A.A. & Sund, Robert, B. (1970). *Teaching modern science*. Columbus, Ohio: Charles E. Merrill Publishing Company. A Bell & Howell Company.
- Cooperative learning in technical courses: procedures, pitfalls, and payoffs", Richard M. Felder, North Carolina State University & Rebecca Brent, East Carolina University
- Das, R.C. (1985). *Science teaching in schools*. New Delhi: Sterling Publishers.
- Dash, B.N. (2005). *Psychology of Teaching Learning Process*, New Delhi: Dominant Publishers and Distributors.
- Dave, R.H. (1969). *Developemnts in Educational Testing*, Vol. I. London: University of London Press.
- Gardner, H. (1983) *Frames of Mind: The Theory of Multiple Intelligences*. New York: Basic Books.

- Glynn, S. M. (1994). Teaching science with analogies: A strategy for teachers and textbook authors. Reading Research Report No. 15. Athens, GA: National Reading Research Center.
- Glynn, S. M. (1996). Teaching with analogies: Building on the science textbook. *The Reading Teacher*, 49, 490-492.
- Goleman, D. (1995). Emotional Intelligence. New York McGraw Hill
- Gupta, S. K. (1983). Teaching of physical science in secondary schools. New Delhi: Sterling Publications (Pvt.) Limited.
- Holt, Larry C. and Kysilka, Marcella (2006). Instructional patterns: Strategies for maximizing student learning. New Delhi: Sage Publications.
- Johnson, D.W., & Johnson, R.T., Holubec, E.J. (1987). *Structuring cooperative learning: Lesson plans for teachers*. Edina, MN: Interaction Book Company.
- Johnson, D.W., & Johnson, R.T., Holubec, E.J. (1988). *Cooperation in the classroom* (rev. ed.). Edina, MN: Interaction Book Company.
- Johnson, S. M. (1990). Teacher at work. New York: Basic Books Inc. Publishers.
- Joseph D. Novak & Alberto J. Cañas (2006). "The Theory Underlying Concept Maps and How To Construct and Use Them", Institute for Human and Machine Cognition. Accessed 24 Nov 2008.
- Joseph, T. T. (1982). Modern trends in science education. (2nd ed.) Kottayam,
- Joyce, B., & Weil, M. (2000). Models of teaching (6th ed.). Boston: Allyn and Bacon
- Kincheloe, J. (2008). Critical Pedagogy (2nd Edn). New York: Peter Lang
- Kohli, V. K. (1986). How to teach science. Ambala City, Haryana: Vivek Publishers.
- Krathwohl, Bloom and Masia (1964). Educational Objectives. Affective domain, Handbook II. New York.: David McKay.
- Jewell, D. (2007). "Inquire within – implementing Inquiry based Science standards in Grades 3 -8, Corwin Press, CA: Thousand Oaks.
- Lyman, F. T. (1981). The responsive classroom discussion: The inclusion of all students. In A. Anderson (Ed.), *Mainstreaming Digest* (pp. 109-113). College Park: University of Maryland Press.
- Madhavan, T. Teaching of Science, First Year Source Book (D.T.Ed.) Tamil Nadu Textbook Society, Chennai <http://jtmadhavan.files.wordpress.com/2009/11/seminar-method.pdf>
- Maitra, K. (1991). Teaching of physics. New Delhi: Discovery Publishing House.

- Malhotra, V (2007). *Encyclopaedia of Modern Methods of Teaching Science*. New Delhi: Crescent Publishing Corporation.
- Mathew , T.K., & Mollykutty, T. M. (2011). *Science education : Theoretical bases of teaching and pedagogic analysis*. Chenganoor: Rainbow Book Publishers.
- Mohan Radha (2007). *Innovative Science Teaching* . New Delhi: Prentice Hall of India Pvt. Ltd.
- Mohan, R.(1995). *Innovative science teaching for physical Science*. New Delhi: Prentice Hall.
- NCERT (2006). *National Curriculum Framework for School Education 2005*. New Delhi
- Pandey, S, K and Sharma, R. S (2008). *Encyclopaedia of Modern Techniques of Teaching*, New Delhi: Commonwealth Publishers.
- Rajan, K. M., Sindhu, B.S., Josen George, Sibin G. Netto & Sajan , R.K. (2010). *Teaching of Physical science: Theory, Perspectives & Practice (2nd rev. ed.)*. Kottayam: St. Joseph's Training College, Mannanam.
- Rajan, K.M. (1999). *Perspectives in physical scienceteaching*. Kottayam: Vidyarthi Mithram.
- Science Education in Scottish Schools: Looking to the Future. A consultative paper*, Scottish Consultative Council on the Curriculum.
- Sharan, S i Sharan, I. (1976). *Small group teaching*. Englewood Cliffs, NJ, Educational Technology Publications.
- Sharma, R. C. (1985). *Modern science teaching*. New Delhi: Dhanpat Rai & Sons. Sharma, R.C. (2003). *Modern Science Teaching*. New Delhi: Dhanpat Rai Publishing Company (P) Ltd
- Shawn M. Glynn (1989). *Teaching With Analogies Model*. <http://www.coe.uga.edu/twa/>
- Singh, Avtar (2004). *Instructional objectives of school subjects*. New Delhi: NCERT.
- Sitzmann, T. & Ely, K. (2009). *Web-Based Instruction: Design and Technical Issues which Influence Training Effectiveness*. Retrieved Nov, 2, 2009: <http://webboard.adlnet.org/Technologies/Evaluation/Library/Additional%20Resources/Presentations/ASTD%202009%20Presentation%20Slides.pdf>
- Slavin, R.E.(1995). *Cooperative Learning: Theory, Research and Practice*.(2 nd ed).Michigan: Allyn & Bacon.
- Suresh K.P. and Joseph, Celene (2012). *Teaching and Testing Science Process skills* . New Delhi: Shipra Publications .

- Thurber, W. A., & Collette, A. T. (1964). Teaching science in today's secondary school. New Delhi; Prentice Hall Of India Limited.
- Tiwari.D.(2007). Encyclopaedia of Modern methods of Teaching , New Delhi: Crescent Publishing Corporation.
- Trowbridge, L. W. & Bybee, R. W. (1996). Teaching secondary school science.(6thed.). Englewood Cliffs. NJ: Prentice – Hall Inc.

**EDU 104.18 : UNDERSTANDING THE DISCIPLINE OF
NATURAL SCIENCE EDUCATION**

NO. OF CREDITS	: 3
CONTACT HOURS	: 60
MARKS	: 60 (External 50 + Internal 10)
DURATION OF EXAMINATION	: 2hrs

OBJECTIVES

On the completion of the course, the prospective teachers would be able to

- acquaint with the evolution of Natural science as a discipline
- understand the psychological bases of Natural science education
- identify the role of Natural science in the social realm
- apply the theoretical background of Natural Science in teaching
- internalise the values of teaching Natural science
- gain an insight of the interdisciplinary nature of Natural Science and Correlate it with other subjects for effective classroom teaching.
- appreciate that science is a dynamic and expanding body of knowledge
- conceptualize the ideology of Behaviorism, Constructivism in Natural Science

MODE OF TRANSACTION

Lecture cum discussion, demonstration, group presentations, seminars, debates, assignments, brain storming sessions and peer group discussion, interaction with community, case study, educational survey and dialogue, ICT based teaching and learning

COURSE OUTLINE

Module 1 - Historical Background of Natural science (10 hrs)

- 1.1 Evolution of Life Science as a Discipline, origin and recent developments.
- 1.2 Applied Branches of Natural Science
- 1.3 Contributions of Eminent Scientists leading to social change –Luis Pasture, Alexander Fleming, Ronald Ross, Gregor Mendel M S Swaminathan,H G Khorana, J C Bose,Salim Ali,Birbal Sahni

1.4 Relevance of learning the history of LifeScience.

Module 2 - Understanding the Discipline of Natural Science (10hrs)

2.1 Meaning, nature and scope of Natural science - as a domain of enquiry, dynamic body of knowledge and as a process of constructing knowledge.

2.2 Paradigm shift in the nature of life science – product to process, inter dependency of product and process.-scientific method

2.3 Natural sciences and society

Natural Science for environment, health and hygiene, raising the standard of living. (Population control, effecting social changes, removal of superstitions, agriculture).

Module 3 - Aims and Objectives of Teaching Natural Science (10hrs)

3.1 Aims and Objectives -Meaning

3.2 General Objectives of Teaching Natural Science at Primary Secondary and Higher Secondary school level.

3.3 Anticipated outcomes of Teaching Natural Science - Developing Scientific Literacy, Scientific attitude and Scientific temper- nurture the natural curiosity, aesthetic senses and creativity in biology, acquire skills to understand the methods and process that lead to exploration.

Module 4 - Inter and Intra Disciplinary Nature of Natural Science (15hrs)

4.1 Correlation with different branches of biological science and topics

4.2 Correlation with other Disciplines – Languages, General Science, Mathematics, ICT, Social Sciences, Performing Arts -Theatre and Drama.

4.3 Correlation with life situations –wise use of natural resources preservation of environment, solving problems of everyday life.-pollution-waste disposal-health problems-energy conservation etc

Module 5 - Contributions of Psychology (15hrs)

5.1 Implications of Behaviorism in Learning Natural Science

5.2 Constructivism as a Theoretical backing for Natural Science Education

5.3 Implications of the Theory of Multiple Intelligence – Howard Gardner.

5.4 Critical Pedagogy as an Approach to address social issues

PRACTICUM (any one)

1. Conduct any three scientific experiments and evaluate your experience .(EPC 4)
2. Prepare a digital album on any one theme depicting contribution of Natural Science to society
3. Prepare an e- document on Life and contribution of an eminent scientist (EPC3)

REFERENCES

- Anderson, C and K. Roth. (1992). Teaching for meaningful and self regulated learning of science. *Advances in Research of Teaching*, Vol. I, J. Brophy, ed. Greenwich, Conn: JAI.
- Arons, A. B. (1983). Achieving wider scientific literacy. *Daedalus* Spring 91-122.
- Das, R. C. (1985). *Science Teaching in Schools*, Sterling Publication Innovation in Teacher Education, Science Teacher Education Projects (STEP) Mac Graw Hills, New York.
- Educational Psychology*, John W Santrock,(University of Texas at Dallas)December 2010 ; McGraw-Hill Higher Education
- Freire, Paulo. (1998). *Pedagogy of the Oppressed*. USA: Continuum Pub. Co
- Gardner, H. (1983). *Frames of Mind: The Theory of Multiple Intelligences*. New York: Basic Books.
- Jayasree and Digumarti Bhaskara Rao (2004) Discovery Publishing House.
- Lowman, J (1995). *Mastering the Technique of Teaching*. Second Edition, San Fransico.
- Teaching of Biology*. S. Choudhary (2004). APH Publishing Corporation.
- Uttam Kumar Singh and A. K. Nayak Science Education Common Wealth Publishers.

EDU 105.18 – LEARNING TO FUNCTION AS NATURAL SCIENCE TEACHER

NO. OF CREDITS	: 3
CONTACT HOURS	: 60
MARKS	: 60 (External 50 + Internal 10)
DURATION OF EXAMINATION	: 2hrs

OBJECTIVES

On the completion of the course, the prospective teachers would be able to

- explore the distinctive features of various approaches, techniques, methods and devises of teaching natural science
- critically examine teaching learning processes that incorporate inquiry, discovery, conceptual development ,activity based learning etc. within the classroom
- develop the lesson plans based on the Models of Teaching
- develop diverse processes throughout the year to ensure better motivation and learning, and help children for self assessment with insights about learning.
- understand the concept, tools and techniques of evaluation
- explore diverse methods and tools for assessing an array of learning/performance outcomes of diverse learners.

MODE OF TRANSACTION

Lecture cum discussion, demonstration, group presentations, seminars, debates, assignments, brain storming sessions, and peer group discussion, interaction with community, case study, and Educational survey

COURSE OUTLINE

Module 1 - Approaches, Maxims, and Methods of Teaching Natural science(10 hrs)

- 1.1 Approaches - Teacher Centred-Learner- Centred, Inductive-Deductive, Product - Process, Conceptual-Factual, Inquiry-Discovery
- 1.2 Maxims of Teaching –Applicable to classroom Science Teaching

- 1.3 Methods – Lecture, Lecture cum Demonstration, Project Method, Problem Solving, Heuristic, Biographical, Dalton Plan.

Module 2 - Techniques and Devices of teaching Natural Science (10hrs)

- 2.1 Techniques and Devices - Role Play, Buzz Session, Brain Storming, Panel Discussion, Seminar, Symposium, Debate. Supervised Study, Assignment, Questioning , Simulation

Module 3 - Innovative Strategies (15hrs)

- 3.1 Co-Operative Learning –Jigsaw-Think Pair and Share, Team Teaching-Differential teaching, Peer tutoring
- 3.2 Concept Mapping, Brain based learning, Project Based Learning
- 3.3 Reflective Writing
- 3.4 Learning packages – characteristics

Module 4 - Pedagogical Skills Development (10hrs)

- 4.1 Pedagogy-Pedagogical Knowledge- Pedagogical Skills - Pedagogical Competence-meaning and significance.
- 4.2 Identifying Individual Differences - Catering to the needs of Gifted, Creative Learners, Under Achievers and Learning Disabled
- 4.3 Multiple Learning Styles of Students –Kolb and VAK Models – Implications in classroom
- 4.4 Diagnosis, Remediation and Motivational Techniques

Module 5 - Training in Teaching Skills (15 hrs)

- 5.1 Introduction to Core Teaching Skills and Micro Teaching
- 5.2 Micro Teaching (Skills -Stimulus Variation, Questioning, using Black Board/White Board, Set Induction)
- 5.3 Link Practice-Integration of skills
- 5.4. Development of ICT Enabled Skills

PRACTICUM (any one)

1. Write a Drama/Theatre script on a relevant social issue connected with the Secondary School Biology Syllabus (EPC2).
2. Prepare an e-assignment on the relevance of Learner Centred Approach in Natural Science (EPC3)
3. Prepare a Concept Map /Mind Map on any topic in Natural Science.

REFERENCES

- Bhatt, B. D., Sharma S.R. (1996). Methods of teaching science. Delhi: Kanishka Publishing House.
- Cronbach, L. J. & Snow, R. E. (1977). Aptitude and instructional methods. New York: Irvington Publishers.
- Das, R.C. (1985). Science teaching in schools. New Delhi: Sterling Publishers. Gupta, S. K. (1983). Teaching of physical science in secondary schools. New Delhi: Sterling Publications (Pvt.) Limited.
- Entwhistle N. Styles of Learning and Teaching; an integrated outline of educational psychology for students, teachers and lecturers. Chichester, UK: John Wiley; 1981.
- Felder R.M. Reaching the second tier: learning and teaching styles in college science education. *J. Coll. Sci. Teach.* 1993;23(5):286–290.
- Felder R.M., Silverman L.K. Learning and teaching styles in engineering education. *Engr. Educ.* 1988;78(7):674–681.
- Gopakumar P. S. and Antony V. T. A Text book of Zoology Class 17. Valsala Kumar E. (2001) Biology
- James W.B., Gardner D.L. Learning styles: Implications for distance learning. *New Dir. Adult Contin. Educ.* 1995;67:19–32.
- Kolb D.A. Learning styles and disciplinary differences. In: Feldman K., Paulson M., editors. *In: Teaching and Learning in the College Classroom.* Needham Heights, MA: Ginn Press; 1994.
- Kolb D.A. *Experiential Learning: Experience as a Source of Learning and Development.* Englewood Cliffs, NJ: Prentice Hall; 1984.

- Models of teaching Joyce, B., & Weil, M. (2000). Models of teaching (6th ed.). Boston: Allyn and Bacon.
- NCERT (1996). Science for classes IX and X, New Delhi.
- Sarasin L.C. Learning Style Perspectives: Impact in the Classroom. Madison, WI: Atwood Publishing; 1998.
- Schmeck R.R. Learning Strategies and Learning Styles. New York: Plenum Press; 1998.
- Sharma, R.C. : Modern Science Teaching Dhanpat Rai and Sons, Delhi.
- Shulman, L.S. “Knowledge and Teaching : Foundations of the New Reforms,” Harvard Educational Review (1987). 57,1-22.
- Sood, J. K. (1985). Teaching Life Sciences, Kohli Publications, Delhi.
- Watson, S. B. and J. E. Marshall 1995. Effects of cooperative incentives and heterogeneous arrangement on achievement and interaction of cooperative learning groups in a college life course.

EDU 104.19: UNDERSTANDING THE DISCIPLINE OF SOCIAL SCIENCE EDUCATION

NO. OF CREDITS	:	3
CONTACT HOURS	:	60
MARKS	:	60 {External 50 + Internal 10 }
DURATION OF EXAMINATION :		2 hours

OBJECTIVES

On completion of the course, the prospective teachers would be able to:

- analyze the Disciplines and School Subjects which are products of History and Geography that emerged in particular Social, Political and Intellectual contexts and evaluate the drastic changes in Social Science.
- conceptualize the background of Social Science and evaluate its practicability.
- examine how the content was selected, framed in the syllabus, and how it could be transformed so that the learners construct their own knowledge through it.
- internalize the aims and objectives of teaching Social Studies/Social Science in order to adopt a holistic approach at the Primary, Secondary and Higher Secondary levels.
- evaluate the interdisciplinary nature of Social Science and correlate it with the other subjects for effective classroom teaching.
- apply the theoretical background of Social Science to teaching.
- develop positive attitudes and proper value systems based on the Cultural, Moral, Social and Political basis of Indian society.

MODE OF TRANSACTION

Lecture cum discussion, demonstration, group presentations, seminars, debates, and assignments, holding camps, visits to tribal areas, brain storming sessions, and peer group discussion, interaction with community, case study, educational survey and dialogue, ICT based teaching and learning

COURSE OUTLINE

Module 1 – Historical Development in Social Science (10 hours)

- 1.1 Early Development in Social Science
- 1.2. Development in 20th Century
- 1.3. Modern Trends in Social Science

Module 2 – Social Science as a Core Subject (10 hours)

- 2.1 Meaning and Definition of Social Science and Social Studies
- 2.2. Comparison between Social Science and Social Studies
- 2.3 Nature and Scope of Social Science
- 2.4. Rationale for inclusion of Social Science in the Core – curriculum

Module 3 - Aims and Objectives of Teaching Social Science (10 hours)

- 3.1. Aims and Objectives- Meaning and Differences
- 3.2. General aims of Teaching Social Science
- 3.3. Values of Teaching Social Science
- 3.4. Anticipated outcomes of teaching Social Science

Module 4-Inter and Intra Disciplinary Nature of Social Science (15 hours)

- 4.1. Correlation with different Branches (Political Science, Geography, History, Economics, Sociology and Psychology)
- 4.2. Correlation with other Disciplines (General Sciences, Languages, Mathematics, ICT and Fine Arts and Performing Arts -Drama and Theatre –Impact on Creative Learning)

Module 5 –Contributions of Psychology (15 hours)

- 5.1. Behaviourism in Teaching Social Science
- 5.2 Constructivism as a Theoretical Backing for Social Science Education
- 5.3. Implications of the Theory of Multiple Intelligence
- 5.4. Critical Pedagogy as an approach to address Social Issues

PRACTICUM (any one)

1. Prepare a digital album/PPT on Historical developments in Social Science (EPC 3).
2. Read and Reflect on any one Secondary School Social Science Textbooks to find out to what extent they satisfy the National and Global requirements (EPC1).
3. Prepare a script to explore the possibilities of drama / theatre to promote creative learning (EPC2).

REFERENCES

A Dictionary of Sociology, Article: Comte, Auguste

A History of the Jana Natya Manch: Plays for the People" by Arjun Ghosh; Published by SAGE Publications India, New Delhi; 2012

Adam Kuper and Jessica Kuper, *The Social Science Encyclopedia* (1985)

Akhtar, S. W. (1997). "The Islamic Concept of Knowledge", *Al-Tawhid: A Quarterly Journal of Islamic Thought & Culture***12** (3).

Dash, B. N. (1998). *Content cum Methods of Teaching Social Studies*. Ludhiana: Kalyani Publishers.

Dictionary of the Social Sciences, Article: Comte, Auguste

Edigar, M. & Rao, B. (2003). *Teaching Social Studies Successfully*. New Delhi: Discovery Pub. House.

Freire, Paulo. (1998). *Pedagogy of the Oppressed*. USA: Continuum Pub. Co.

Gardner, H. (1983). *Frames of Mind: The Theory of Multiple Intelligences*. New York: Basic Books.

Gianfranco Poggi (2000). *Durkheim*. Oxford: Oxford University Press. Chapter 1.

H. Mowlana (2001). "Information in the Arab World", *Cooperation South Journal***1**.

<http://plato.stanford.edu/entries/weber/> "Max Weber". *Stanford Encyclopaedia of Philosophy*.

"Islamic Anthropology" and the "Anthropology of Islam", *Anthropological Quarterly***68** (3), *Anthropological Analysis and Islamic Texts*, p. 185–193.

Kincheloe, J. (2008). *Critical Pedagogy* (2nd Edn.) New York: Peter Lang.

Kumar, sudheesh & Noushad (2011). *Social Studies in the Classroom Trends and Methods*, Scorpio Publishers, Calicut, Kerala

- Salahuddin Ahmed (1999). *A Dictionary of Muslim Names*. C. Hurst & Co. Publishers.
ISBN 1-85065-356-9.
- Schumpeter JA. (1954). *History of economic analysis*. pp. 70–142. Retrieved 2009-04-21.
- Varma, O. P. & Vedanayagam, E. G. (1993). *Geography Teaching*. N. Delhi: Sterling.
- Vashist, S.R. (2004) *Theory of Social Studies*. New Delhi: Anmol Pub. Pvt. Ltd.
- Vessuri, Hebe. (2000). "Ethical Challenges for the Social Sciences on the Threshold of the 21st Century". *Current Sociology* 50, no. 1 (January): 135–150, Social Science Ethics: A Bibliography, Sharon Stoerger MLS, MBA
- Walbridge, J. T. (1998). "Explaining Away the Greek Gods in Islam", *Journal of the History of Ideas* 59 (3), p. 389–403.
- Wilson, Horace Hayman (tr. from the Original Sanskrit) (1827). *Select Specimens of the Theatre of the Hindus*. V. Holcroft at the Asiatic Press, Calcutta.

EDU 105.19 : LEARNING TO FUNCTION AS SOCIAL SCIENCE TEACHER

NO. OF CREDITS	: 3
CONTACT HOURS	: 60
MARKS	: 60 (External 50 + Internal 10)
DURATION OF EXAMINATION	: 2hrs

OBJECTIVES

On completion of the course, the prospective teachers would be able to:

- critically examine teaching learning processes that incorporate Inquiry, Discovery, Conceptual Development ,Activity Based and Brain Based learning within the classroom
- practice the techniques of Drama and Theatre in the process of teaching and learning to nurture children’s creativity and aesthetic sensibilities
- explore the instructional options available to support learning.
- relate the understanding of the concepts acquired, with what children bring to the classroom from their environment and experience, given their diverse backgrounds and interests.
- develop diverse processes throughout the year to ensure better motivation and learning, and help children for self assessment with insights about learning.

MODE OF TRANSACTION

Lecture cum discussion, demonstration, group presentations, seminars, debates, assignments, brain storming sessions, and peer group discussion, interaction with community, case study, and Educational survey and dialogue, ICT based teaching and learning

COURSE OUTLINE

Module 1-Approaches, Maxims, Devices and Methods in Teaching Social Science (10 hrs)

1.1. Approaches

Teacher Centred - Learner- Centred, Inductive-Deductive, Conceptual-Factual,

Inquiry-Discovery

1.2. Maxims and Devices

Maxims-Known to Unknown, Simple to Complex, Concrete to Abstract,
Empirical to Rational.

Devices - Questioning-Assignment

1.3 Methods of Teaching Social Science

Lecture Method, Source method, Heuristic Method,
Project Method and Problem Solving Method

Module 2-Techniques of Teaching Social Science (10hrs)

2.1 Panel Discussion-Symposium-Seminar-Workshop-Debate-Simulation

Brain Storming and Buzz session

2.2 Dramatization and Role play

Module 3- Innovative Strategies (10hrs)

3.1 Co-operative Learning

3.2. Team Teaching -Peer tutoring

3.3. Brain based Learning-Instructional Techniques- Principles

Mapping Strategies- Graphic Organizer, Concept Mapping, Mind Mapping

3.4. Reflective Journaling

Module 4 - Teaching Skills (15 hrs)

4.1. Introduction to Core Teaching Skills and Micro Teaching

4.2. Micro Teaching (Skills -Stimulus Variation, Questioning, using Black
Board/White Board, Set Induction)-Link Practice-Integration of skills-

4.3. Devices for developing Time sense– Chronology charts, Time lines, Progressive,
Regressive, Pictorial and Comparative charts

4.4 Devices for developing Space sense- globe, maps and atlas

4.5 ICT enabled Skills

Module 5-Pedagogical Skills Development (15 hrs)

5.1. Pedagogy-Pedagogical Knowledge-Pedagogical Competence

- 5.2. Pedagogical Skills- Content related skills, Classroom Management, Promoting Culturally Inclusive Classroom Environment
- 5.3. Evaluation of Student's writings
- 5.4. Diagnosis-Remediation and Motivational Techniques

PRACTICUM (any one)

1. Develop a tool to evaluate your performance in peer tutoring (EPC4).
2. Read and Reflect on the Uniqueness of Ancient Indian Education System (EPC1).
3. Prepare a Concept Map /Mind Map on any topic in Social Science.

REFERENCES

- Allen DW, Wang W. Beijing: Xinhua Press; 1996. Microteaching.
- Berk, E.L. (2003). Child Development. New Delhi: Pearson Education
- Chen Q, Zeng F, Yang Z. Study on the effects of multimedia monitoring system in medical teacher's microteaching training. *Comput Inf Sci.* 2010; 3:241–3.
- Ediger, M. (2004). The importance of Social Studies. *Experiments in Education.*
- Elliot J. A microteaching experiment at MEDUNSA. *S Afr Med J.* 1982;62:868–70.
- Foley RP. Microteaching for teacher training. *Public Health Pap.* 1974;61:80–8.
- Hyman, R. T. (1970). *Ways of teaching.* New York, NY: J.B. Lippincott Company.
- Joyce, B. & Weil, M. and Calhoun, E. (2008). *Models of teaching, 8th ed.* Englewood Cliffs, NJ: Prentice-Hall. (there is now a 9th, 2014 edition)
- Kaltsounis, Theodore (1979). *Teaching Social Studies in the Elementary School – The Basics for Citizenship.* New Jersey: Printice Hall, Inc.
- Kauchak, D. P. & Eggen, P. D. (1998). *Learning and teaching: Research-based methods.* Needham Heights, MA: Allyn and Bacon.
- Kochhar, S. K. (2001). *The Teaching of Social Studies.* N. Delhi: Sterling.

- Kumar, sudheesh & Noushad (2011). *Social Studies in the Classroom Trends and Methods*, Scorpio Publishers, Calicut, Kerala
- Miller, J. P. (1988). *The holistic curriculum*. Toronto: The Ontario Institute for Studies in Education (OISE Press).
- Miller, J. P., Cassie, B. J. R., and Drake, S. M. (1990). *Holistic learning: a teacher's guide to integrated studies*. Toronto, Ontario: The Ontario Institute for Studies in Education (OISE Press).
- Philips, C.R. (1974) .*Teaching for Thinking in High School Studies*. USA: Addison & Wesley Publishing Company, Inc.
- Singh LC, Sharma RD. New Delhi: Department of Teacher Education NCERT; 1987.
Micro-teaching – Theory and Practice.

ASSOCIATE COURSE-ELECTIVE

EDU 106.11 HEALTH AND PHYSICAL EDUCATION

NO. OF CREDITS	: 3
CONTACT HOURS	: 60
MARKS	: 60 (External 50 + Internal 10)
DURATION OF EXAMINATION	: 2hrs

OBJECTIVES

On completion of the course, the prospective teachers would be able to:

- develop positive attitude towards health
- gain knowledge about various hypo kinetic and communicable diseases and its prevention
- acquire knowledge about nutrition ,energy requirement and expenditure
- understand the practice of Yogasanas and its importance
- organize and assist in the conduct of sports and games
- apply the techniques of First Aid
- develop awareness about physical fitness

MODE OF TRANSACTION

Lecture cum Discussion , Demonstration , Use of Audio- Video , Field Trips and Practical, ICT based teaching and learning.

Module 1 - Concept of Health and Physical Education (10 Hrs)

- 1.1 Health – Meaning – Definition
- 1.2 Dimensions of health –Physical, Mental, Social and Spiritual
- 1.3 Health Education- Definition – Aims and Objectives
- 1.4 Importance of Health Education
- 1.5 Health hazards: Alcoholism – Smoking
- 1.6 Physical Education – Definition – Aims and Objectives
- 1.7 Importance of Physical Education

Module 2 -Hypo-Kinetic and Communicable Diseases (10 Hrs)

- 2.1 Hypo-kinetic diseases – causes
- 2.2 Diabetes – Obesity
- 2.3 Body Mass Index (BMI)
- 2.4 Causes and prevention of HIV/ AIDS – Hepatitis A & B – Dengue Fever – Leptospirosis

Module 3 -Nutrition, Health and First Aid (10 Hrs)

- 3.1 Components of Food and Nutrition
- 3.2 Vitamins – Deficiency Diseases – Sources
- 3.3 Balanced Diet
- 3.4 First Aid-Meaning, Definition, Aims, Basic Principles and Procedures of FIRST AID
- 3.4. First-Aid for Sprain- Strain – Cramp – Fainting – Dislocation – Fracture
- 3.5. Artificial Respiration – Cardio Pulmonary Resuscitation – Basic Procedures of CPR

Module 4 – Tournamentsand Fixtures (10hrs)

- 4.1 Tournaments -- Types of Tournaments – Knock – Out / Elimination – League / Round Robin – Single League – Double League – Combination
- 4.2 Byes and Seeding
- 4.3 Methods of drawing fixtures under each type

Module 5- Yogic Practices, Physical Fitness And Wellness (20 Hrs)

- 5.1 Yoga – Introduction – Meaning – Need and Importance
- 5.2 Ashtanga Yoga
- 5.3 Meditative Asanas - Sukhasana - Vajrasana –Padmasana
- 5.4 Therapeutic Asanas – Padahasthasana – Trikonasana – Paschimottanasana – Halasana – Sarvangasana – Salabhasana – Dhanurasana – Bhujangasana
- 5.5 Physical fitness – Meaning and definition – Components of Health Related Physical Fitness.
- 5.6 Wellness – Meaning – Definition
- 5.7. Effect of exercise on Circulatory system and Respiratory system

PRACTICUM (any one)

1. Conduct a survey on ‘Lifestyle Diseases’ in your locality

2. Design a recreational game and upload in your Blog
3. Prepare a report on Contemporary National / International Sports Event

REFERENCES

- Ajmer, S. et al. (2004). *Essentials of Physical Education*. New Delhi: Kalyani Publishers.
- Ajmer, S. et al. (2004), *Modern Text Book of Physical Education, Health and Sports*. New Delhi: Kalyani Publishers.
- Ajmer, S. et al. (2000). *Essentials of Physical Education*, New Delhi: Kalyani Publishers.
- American Alliance for Health, Physical Education and Recreation. (1988). *Physical best*. Reston, VA: AAHPER.
- American Association for Health, Physical Education and Recreation. (1958). *AAHPER youth fitness test manual*. Washington: National Education Association.
- American Psychological Association. (2009). *Publication manual* (6th edition). Washington, D C: Author.
- Anil. R, (2011). *Handbook of health fitness and wellness*. Calicut: Akademia Publications.
- Barrow, H. M., & McGee, R. (1979). *A practical approach to measurement in physical education*. London: Henry Kempton Publishers.
- Bucher, C. A. (1968). *Foundations of physical education*. St Louis: The C. V. Mosby and Co. Ltd.
- Carl, W. W. (1977). *Health teaching in secondary schools*. Philadelphia: W. B. Saunders Company.
- Dheer, S. (1991). *Introduction to health education*. Delhi: Friends Publications.
- Fleishman, E. A. (1964). *The structures and measurement of physical fitness*. Englewood cliffs. N. J: Prentice Hall.
- Gupta, et.al. (1999). *Text book of food and nutrition, child care and psychology*. Ludhiyana: Kalyni Publishers.
- Hensley, L. D., & East, W. B. (1989). Testing and grading in the psychomotor domain. In *Measurements in physical education and exercise science*, cited in Safrit and Wood. Champaign, IL: Human Kinetics.
- Kirby, R. F. (1991). *Kirby's guide to fitness and motor performance tests*. Cape Girardeau, MO: Ben Oak.

- Kithani an Reema, A. Z. (2002). *Handbook of diet and exercise*. New Delhi: Khel Sahitya Kendra.
- Kithani an Reema, A. Z. (1998). *Physica fitness*. New Delhi: Khel Sahitya Kendra.
- Mary, B. M. (1990), *Teen health*. Glencode: Macmillan/ McGraw-Hill, Illinois Columbus, California Peoria Illinois.
- Morrow, J. R., Jackson, A.W., Disch, J. G., & Mood, Dale. P. (2005). *Measurement and evaluation in human performance*. U. S. A. Human Kinetics.
- Muller, J. P. (2000). *Health exercise and fitness*. New Delhi: Khel Sahitya Kendra.
- Safrit, M. J. & Wood, R. (1989). *Measurement concepts in physical education and exercise science*. Champaign: Human Kinetics.
- Scott, M. G. and French, E. (1959). *Measurement and Evaluation in Physical Education*. Dubuque, Iowa: C. Brown Co-Publishers.
- Sharma, O.P. (1998). *Athletic injuries*. New Delhi: Khel Sahitya Kendra.
- Singh, H. (1991). *Science of sports training*. New Delhi. D. V. S Publication. Harrow, A. J. (1972). *Taxonomy of the psychomotor domain*. New York: Mc. Kay.
- Strand, B. N., & Wilson, R. (1993). *Assessing sports skills*. Champaign: Human Kinetics.
- Sukhla, S. P. (2001). *Educational administration, organization and health education*. Agra: Vinod Pustak Mandir.
- Thomas, J. R., & Nelson, J. K. (1996). *Research methods in physical activity*. Champaign: Human Kinetics.
- Tirunarayanan, C and Hari Hara Sharma, S (1982). *Methods in physical education*. Karaikudi: South Press.

EDU 106.12 : GUIDANCE AND COUNSELLING

CORE COURSE	:	EDU 106.2
No. Of CREDITS	:	3
CONTACT HOURS	:	60
MARKS	:	60 (External 50 + Internal 10)

OBJECTIVES

On completion of the course, the prospective teachers would be able to:

- acquaint with the nature of guidance and counselling
- develop ability to organize guidance programmes in school.
- understand the counselling process
- develop the skills and qualities needed for a counsellor
- develop the ability to provide counselling to children and adolescents

MODE OF TRANSACTION

Lecture-cum-discussion, Guidance and counselling, Case studies, Use of video-clips and transcripts of classroom teaching, Project reviews, Use of narratives based on research and documentation, Observations, Interviews, Recording of observations and experiences, Panel or group discussion on psychosocial issues, Individual projects, Using library, Laboratory and ICT based teaching and learning, Psychological tests.

COURSE OUTLINE

Module 1- Guidance and Counselling - a Conceptual Analysis (8 Hours)

- 1.1 Meaning, need and significance of guidance and counselling in schools.
- 1.2 Objectives of guidance and counselling at various levels- primary, secondary and higher secondary.
- 1.3 Organisation of a guidance bureau in schools - installation and activities

Module 2 - Guidance in Schools (10 Hours)

- 2.1 Types of guidance: educational, personal, vocational and career guidance -

- Objectives at various levels. Individual and group guidance.
- 2.2 Teacher as a guidance worker and career master.
 - 2.3 Career Guidance. Career information- components and sources. Job analysis.
Organizing career guidance - career corner, career talk, career conference, career bulletin. Role of parents in career decision making

Module 3 - Process of Counselling (16 Hours)

- 3.1 Type of counselling: Directive, Non-directive and Eclectic (based on role of counsellor); Crisis, Preventive and Facilitative (based on purpose); Individual and group counselling (based on number of clients)
- 3.2 Psychology in counselling - counselling procedures according to Behaviouristic, Psychoanalytic and Humanistic schools, Gestalt Therapy, Transactional Analysis.
- 3.3 Stages in counselling - functions of various stages - establishing rapport, deciding plan of action, integrative understanding, facilitating development, etc.

Module 4 - Skills and Qualities of Counsellor (10 Hours)

- 4.1 Counselling skills- Attending skills, Responding skills, Skill of personalizing and Initiating skills.
- 4.2 Qualities of a counsellor - Well adjusted personality, empathy, sincere interest, knowledge, professional competence, availability, confidentiality.
- 4.3 Essential communication skills - Non-verbal communication, Active listening, Selective perception, Effective questioning, Reflecting feelings.

Module 5 - Teacher as Counsellor (16 Hours)

- 5.1 Class as a heterogeneous group - concept of individual difference
- 5.2 Tools and techniques for collecting data - Interview, observation, case study, sociometry, checklist, rating scale, anecdotal record, cumulative record.
- 5.3 Problems related with various aspects physical, mental, social, emotional, etc. (general description)
- 5.4 Common behaviour problems of children and adolescents - aggression and hostility, attention seeking, lying, stealing, sex problems, shyness and withdrawal, learning disability, examination anxiety, alcoholism and drug abuse, juvenile delinquency, cybercrimes, truancy.

- 5.5 Role of teacher in dealing with the heterogeneous class - Identifying probable causes and suggesting remedial measures for behaviour problems.

PRACTICUM (any one)

1. Prepare your own plan to organise guidance bureau in schools and also its activities
2. Design an individualised guidance procedure for a high school student.
3. Conduct a peer counselling and submit the report

REFERENCES

- Anand, S. P.(1998). ABCs of Guidance in Education: (III rd Edition) Bhubaneswar: New Delhi: Unique Publication.
- Asha, B. (1999). Guidance and Counselling: Theoretical Perspective, Vol.1, New Delhi: Vikas Publishing House.
- Bakha, S. (2004). Management and Evaluation of Counselling. Oxford. Oxford University Press. ISBN 978 019 5732177.
- Baker, B. S.(1992). School Counselling for the 21st Century. New York. Mcmillan Publishing Company.
- Ball, B. (1984). Career Counselling Practice. London: Palmer Press.
- Barkhe,B.G. and Mukhopadhyay,B. (1989). Guidance and Counselling: A Manual. New Delhi: Sterling Publishers.
- Bernard, H.W. and Fullyness,D.F.(1997) Principles of Guidance, New York.
- Chauhan, S. S. (1982). Principles of Guidance. New Delhi: Vikas Publishing House.
- Corners, L.S. and Hacheery,M.(1987).The Professional Counsellor. New Jersey: Prentice Hall Cliffs Englewood.
- Crow, L.D. and Crow A.(1966). Introduction to Guidance. New York: Mc Graw Hills.
- Crowell, B.M.E.(1963).Guidance and Counselling in Group. New York: Mc Graw Hills.
- Clyde, N. M. (1981).Counselling Youth. Michigan: Grand Rapids.
- Currie, J.(1981). The Barefoot Counsellor. Bangalore: Asian Trading Company.
- Mbiti, M. D.(1974).Foundations of School Administration and Counselling. Oxford: Oxford University Press.ISBN 978 019 5733693.
- Mutie,E.K. etal. (1999). Guidance and Counselling. Oxford: Oxford University Press. ISBN 978 019 5729160.

- Narayana Rao. (2002). *Counselling and Guidance*. II Edition. New Delhi: Tata Mc Graw Hill Publishing Company.
- Nayak, A. K. (2004). *Guidance and Counselling*. New Delhi: APH Publishing Company.
- Njenga, F. (2010). *What is wrong with this child?* Oxford: Oxford University Press. ISBN 978 019 5736441.
- Prasantham, B. J.(1978). *Indian Case Studies in Therapeutic Counselling*. Vellore: Counselling Centre.
- Rao, N.S. (2004). *Guidance and Counselling*. New Delhi: Discovery Publishing House.
- Sharma, R. N. And Sharma R.(2004).*Guidance and Counselling in India*. New Delhi: Atlanta Publishers.

EDU 106.13 : ELEMENTARY EDUCATION

NO. OF CREDITS	: 3
CONTACT HOURS	: 60
MARKS	: 60 (External 50 + Internal 10)
DURATION OF EXAMINATION	: 2hrs

OBJECTIVES

On completion of the course, the prospective teachers would be able to:

- understand the need, concept, and scope of elementary education in historical perspectives.
- enable the prospective teachers to understand the development of elementary education in India and about the different constitutional provisions related to education
- acquaint the prospective teachers with different educational reports and policies on elementary education.
- acquaint the prospective teachers with the programmes for achieving UEE
- understand the recent changes in curriculum structuring and the mode of curriculum transaction at elementary level
- gain insight into the role of various organisation in the quality improvement of elementary education

MODE OF TRANSACTION

Lecture cum demonstration, discussion, group work, case study, problem-solving sessions, seminars, debates, assignments, brain storming sessions, panel discussions, peer learning, community visits, survey and dialogue mode, ICT based teaching and learning

COURSE OUTLINE

Module I - Conceptual Framework of Elementary Education (15hours)

- 1.1 Concept, meaning, scope, historical perspectives, issues and its present status - Elementary Education in India

- 1.2 Constitutional provision for elementary education in India -86th Constitutional Amendment-Right to Education
- 1.3 The right of children to free and compulsory education Kerala Rule 2010
- 1.4 Development of elementary education in India.

Module 2- Reports and Policies on Elementary Education (10 hours)

- 2.1 Views of education commissions on elementary education-Kothari Commission,NPE1986, Revised NPE1992, National Curriculum Framework 2005, Kerala Curriculum Frame Work 2007
- 2.2 Educational Planning at District level and Panchayati Raj Institutions
- 2.3 Microplanning

Module 3- Programmes for achieving UEE (20Hours)

- 3.1 Multigrade and Multilevel teaching learning process
- 3.2. Strategies for Universal provision and access, enrolment and retention - Quality for elementary education
- 3.3 Education for all-Operation Blackboard
- 3.4 District Primary Education Programme (DPEP)
- 3.5 Sarva Shiksha Abhiyan (SSA)
- 3.6 National Programme for Education of Girls at Elementary Level (NPEGEL)
- 3.7 Kasturba Gandhi Balika Vidyalaya (KGBV)
- 3.8 Lok Jumbish
- 3.9 Shiksha Karmi Project
- 3.10 Early Childhood Care and Education

Module 4- Curriculum and its transaction at elementary level (10hours)

- 4.1 Curriculum for elementary education-meaning, principles and relevance
- 4.2 Nature of curriculum: experience centred, activity centred and learner centred.
- 4.3 Competency based education-meaning and principles, Minimum level of learning and Mastery learning.
- 4.4 Multiple modes of learning-play-way, joyful learning, group learning and teacher guided learning.

Module 5- Role of various organisations in the quality improvement of elementary education (5 hours)

- 5.1 Role of NGOs towards Universalisation of elementary education
- 5.2 Role of DIET, resource centres, SCERT, NCERT, NEEM, and NCTE in the quality improvement of elementary education.

PRACTICUM (any one)

1. Design an ICT oriented instructional plan of a unit in a subject at elementary level
2. Evaluate a textbook of elementary class with reference to its adequacy and appropriateness in achieving expected learning outcomes in any subject
3. Prepare a report based on discussion with teachers/parents/students about the existing elementary school system.
4. A study on the evaluation patterns and assessment tools which are used in primary schools and its use in any one local school.

REFERENCES

- Aggarwal, J.C. & Aggarwal, S.P. (1992). Educational Planning in India, Vol.I, New IASE, JMI, Delhi; Concept Publishing Co.
- Aroma G L (1988) Curriculum and Quality in Education, NCERT, New Delhi.
- Burke J W (Ed) (1989) Competency-based Education and Training : London: Flamer Press
- Chopra, R.K., (1993). State of Teachers in India, New Delhi: N.C.E.R.T.
- Dewey J (1899) School and Society, Chicago, University of Chicago Press
- Dewey J (1952) Experience in Education, Collier Macmillan
- Dewey J (1966) Democracy & Education, New York: Macmillan Co.
- Gandhi, M.K., (1956). Basic Education, Ahmdabad: Nalijban
- Goal B R (1990) Handbook for Teachers on Multigrade teaching, NCERT, New Delhi.
- Kelley A V (1978) Mixed Ability Grouping, Theory and Practice, London : Harper
- Kurrien, J (1983), Elementary Education in India : Myth, Reality, Alternative, New Delhi : Vikas Publishing House Pvt. Ltd.
- Khan, R.S. & Ahmad, I. (1998). Elementary Education and The Teacher, New Delhi: IASE, JMI.
- Lockheed, M E & Verspoor A M (1991) Improving Primary Education in Developing Countries, Oxford/Washington Oxford University Press/World Bank

- Malhotra, P.L., (1986). School Education in India, Present Status and Future Needs, New Delhi: NCERT.
- MHRD (1986, 1992), National Policy of Education 1992, Modification and their POA's MHRD.
- Mohanty, J. (2002). Primary and Elementary Education. New Delhi: Deep & Deep Publication Pvt. Ltd.
- Mohanty, J. (1984). Indian Education in Emerging Society. New Delhi: Sterling Publishers.
- Naik J P (1975) Equality Quality and Quantity : The Elusive Triangle in Indian Education, Bombay : Allied Publishers.
- NCERT. (1997). Code of Professional Ethics for Teachers, New Delhi: NCERT.
- NCERT (2005), National Curriculum Framework for School Education, New Delhi: NCERT
- NCTE. (1988). Gandhi on Education, New Delhi: NCTE.
- Ruhela, S.P. & Ahmad I. (1977). Uniqueness of Zakir Husain and His Contributions, New Delhi: Regency Publications Educations.
- Sadler, J.E. (1985). Concept in Primary Education. New York: Oxford University Press.
- Salamatullah, (1979). Education in Social Context: New Delhi.
- SCERT (2007). Kerala Curriculum Framework. Thiruvananthapuram: SCERT
- Syed, Nurullah & Naik, J. P. (1943). History of education in India-During British Period. Bombay: McMillan & Co. Ltd.
- The Right of Children to Free and Compulsory Education Kerala Rules 2010.

EDU 106.14 : ENVIRONMENTAL EDUCATION

NO. OF CREDITS	: 3
CONTACT HOURS	: 60
MARKS	: 60 (External 50 + Internal 10)
DURATION OF EXAMINATION	: 2hrs

OBJECTIVES

On completion of the course, the prospective teachers would be able to:

- understand the Multidisciplinary nature of environmental education.
- realise the interdependence of life and environment and the need for preservation of our cultural heritage.
- think critically, ethically, and creatively while evaluating environmental issues and making judgments.
- develop a sense of responsibility and favourable attitudes, values and skills towards protection and conservation of environment, biodiversity and sustainable development.
- know the importance of undertaking Environmental Impact Assessment (EIA)
- develop awareness about rules, regulations and legal provisions for protection, preservation and conservation of the environment.
- understand different strategies for environmental education and apply them effectively.

MODE OF TRANSACTION

Lecture cum demonstration, panel discussion, brain storming sessions, peer group discussion, survey, field trip, debate, project work, survey, assignments, seminars, dramatization, exhibition, film show, video show, ICT based teaching and learning.

COURSE OUTLINE

Module1 –Environmental Education(15 Hours)

- 1.1 Meaning, Nature, Objectives and Psychological Perspectives of Environmental Education.

- 1.2 Role of national and international organizations in the promotion of environmental education.
- 1.3 National Movements to protect the environment
Western Ghats: It's relevance as UNESCO world heritage site. Bio diversity of Western Ghats. Its role in controlling climate of Kerala . Threats to Western Ghats.
- 1.4 Environmental Impact Assessment
- 1.5 Legislative measures for environmental protection at national and international level.
- 1.6 Methods and Strategies for Environmental Education at Primary, Secondary and Higher secondary Level
- 1.7 Cultivating Eco literacy through activities – Field trips, workshops, exhibitions, video shows, nature clubs, nature walk and celebration of environment days, Use of prompts ,broachers, pamphlets and booklets etc. Practical measurers - saving energy, hygiene and sanitation programmes, eco-friendly behaviour, organic farming, 'clean and green campus' programme.
- 1.8 Measures to ensure public participation- Role of Media, Governmental and Non-governmental agencies.
- 1.9 Environmental Citizenship – Importance. Environmental ethics and Environmental Accountability

Module 2 – Our Environment(6 hours)

- 2.1 Concept of an eco system
- 2.2 Characteristic features, structure and functions of land and aquatic eco systems
- 2.3 Energy flow in the eco system
- 2.4 Ecological succession
- 2.5 Ecological Pyramids,
- 2.6 Bio-geo chemical cycles
- 2.7 Carrying capacity and Ecological balance

Module3 – Challenges of Environment (15 hours)

- 3.1 Environmental Pollution- Causes, effects and remedial measures
Air Pollution (b)Water Pollution(c) Soil Pollution (d)Thermal Pollution(e)Radio Active Pollution (f) Noise Pollution (g) E waste pollution

- 3.2 Deforestation, Soil erosion, Climate change, Green house effect, Global warming, Ozone depletion, Acid rain, Bio-magnification, Eutrophication.
- 3.3 Population explosion –Urbanization
- 3.4 Role of individuals in preventing the degradation of the quality of Environment.
- 3.5 Waste management - Role and Responsibility of Individuals and Institutions in the management of E waste, Nuclear waste, Medical Waste, Plastic Waste. Zero waste management.
- 3.6 Concept of Environmental Sensitivity Index Mapping
- 3.7 Disasters: Their impact on the environment.
 - (a) Natural – Epidemics, Forest fire, Floods, Earth quakes, Droughts, cyclones, landslides, tsunami
 - (b) Man made - Technological and industrial
- 3.8 Need and importance of Disaster management training. Role of teachers and educational Institutions in Disaster Management

Module 4 – Education for Sustainable Development (ESD)(20rs)

- 4.1 Sustainable Development- Meaning and Importance .Concept of Education for sustainable development – ESD
- 4.2 Conservation of renewable and non renewable resources.
- 4.3 Natural resources and associated problems
 - (a) Forest resources: use and over exploitation and deforestation
 - (b) Water resources: use and over utilization of surface and ground water, floods, drought, conflicts over water. Water conservation-dams, rain water harvesting, water shed management.
 - (c) Mineral Resources: use and exploitation
 - (d) Food resources: World food problems, changes caused due to agriculture, effects of modern agriculture, fertilizer- pesticide problems,
 - (e) Energy resources: Growing energy needs, renewable and non renewable energy sources and use of alternate energy source.
 - (f) Land resources: Land as a resource, Land degradation, man induced landslides, soil erosion and desertification, Role of an individual in conservation of natural resources
- 4.4 Bio-diversity and its conservation:
 - (a) Definition- genetic, species and ecosystem diversity.

- (b) Threats to biodiversity: habitat loss, poaching of wild life, man-wild life conflicts
- (c) Conservation of biodiversity: In-situ and ex-situ conservation; wildlife and Biosphere Reserves in India.

Module 5 – Environment and Behaviour (4 hours)

- 5.1 Environmental Sensitivity and Environmental stress
- 5.2 Stressors: Natural disasters, Pollution , Overcrowding
- 5.3 Effect of stressors on health and behaviour – Morbidity, respiratory problems, skin problems, nervous system diseases, hypertension, aggression, performance impairment etc.

PRACTICUM (any one)

1. Prepare an E - Document on an environmental problem in your locality and suggest possible remedial measures. (EPC3)
2. Read and Reflect on any one Environmental Education Article in an online textbook and find out to what extent it satisfy the National and Global requirements (EPC1).
3. Prepare any five eco friendly products and evaluate how it helps you in developing environmental accountability (EPC4).

REFERENCES

- Agarwal, K.C. 2001 Environmental Biology, Nidi Publ. Ltd. Bikaner.
- Carson, Sean Mc B (1978) Environmental Education – Principles and Practices, London, Edward, Arnold Publishers.
- Chatterjee, B (2003) Environmental laws: Implementation, problems and prospects , Deep and Deep Publications
- Cunningham, W.P. Cooper, T.H. Gorhani, E & Hepworth, M.T. 2001, Environmental Encyclopedia, Jaico Publ. House, Mumabai, 1196p.
- Education for a Sustainable Future: A Resource for Curriculum Developers, Teachers, and Administrators* (Winnipeg, Manitoba, Canada : Manitoba EducationandYouth,2000.Onlineat<http://www.edu.gov.mb.ca/ks4/docs/support/future/sustainededucation.pdf>)

- Environmental Education: A Resource Handbook* by Joe E. Heimlich (Bloomington, IN : Phi Delta Kappa Educational Foundation, 2002. ISBN: 0873678346)
- Hawkins R.E., *Encyclopedia of Indian Natural History*, Bombay Natural History Society, Bombay.
- NCERT (1981) *Environmental Education at the School level*, New Delhi. 3. Sharma, R.C. (1981) *Environmental Education*, New Delhi.
- Odum, E.P. 1971. *Fundamentals of Ecology*. W.B. Saunders Co. USA, 574p
- Raymond De Young & Bob Grese, *Behaviour, Education and Communication*, School of Natural Resources and Environment.
- The Handbook of Environmental Education* by Joy Palmer and Philip Neal (Routledge, 1994. ISBN: 0415093147)
- Trivedi R.K., *Handbook of Environmental Laws, Rules Guidelines, Compliances and Stadards*, Vol I and II, Enviro Media (R)
- UNESCO, *Environmental Education – Principles of Teaching and Learning*, Paris.

SEMESTER II

CORE COURSES

EDU 201: KNOWLEDGE AND CURRICULUM

NO. OF CREDITS	:	5
CONTACT HOURS	:	100
MARKS	:	100 (External 80 + Internal 20)
DURATION OF EXAMINATION	:	3hrs

OBJECTIVES

On completion of the course, the prospective teachers would be able to:

- appreciate the philosophical contributions of India to the world
- analyse the basic principles of various schools of philosophy.
- find out the inter-relationship between philosophy and education.
- evaluate the need and the basic principles of sociology.
- comprehend the trends in social changes and their impact on education.
- elaborate education is in the sociological perspectives.
- critically evaluate the practices of paedocentric and activity centered education
- apply the principles of effective management of the schools.

MODE OF TRANSACTION

Lecture cum discussion, demonstration, group presentations, seminars, debates, assignments, brain storming sessions, peer group discussion, interaction with community, case study, survey and dialogue, ICT based teaching and learning.

COURSE OUTLINE

Module 1 - Introduction to Philosophy (30 hours)

1.1 Philosophy - Meaning and branches

1.2 Indian schools of philosophy-Orthodox and Heterodox-significance of vedanta-sankhya and lokayata

1.3 Indian philosophers-Swami Vivekananda, Sree Sankaracharya ,Dr S.Radhakrishnan, Mahatma Gandhi, Rabindranath Tagore, Sri Aurobindo, Dr. A.P.J. Abdul Kalam (A brief account of their contributions) .

- 1.4 Major Schools of Philosophy with reference to aims ,curriculum, method of teaching, role of teacher and discipline-Idealism, Naturalism -Pragmatism- Realism, Humanism -Importance of eclectic approach
- 1.5 Conceptual analysis of the distinction between Knowledge and Skill, Teaching and Learning, Knowledge and Information, Reason and Belief.

Module 2 - Paedocentric Education (15 hours)

- 2.1 Concept of Paedocentric education
- 2.2 Activity centered education – John Dewey
- 2.3 Discovery learning - Plato
- 2.4 Dialogue - Paulo Friere and Martin Buber
- 2.5 Basic Education –Mahatma Gandhi

Module 3 - Sociological Bases of Education (30 hours)

- 3.1 Sociology and Education
- 3.2 Meaning of Society, Culture and Modernity
- 3.3 Social and national values: Equality, Equity, Individual opportunity and Social justice and Dignity – Contributions of Dr B .R . Ambedker
- 3.4 Nationalism, Universalism and Secularism - their relationship with education – Contributions of Rabindranath Tagore and Jiddu Krishnamurti
- 3.5 Major social changes occurred in Indian society- Contributions of Social Reformers- Raja Ram Mohan Roy, Chattampi Swamikal, Sreenarayana Guru.
- 3.6 Functions of education with regard to culture preservation- Transformation and Transmission-Teacher as a social reformer

Module 4 - Curriculum and Schools of Philosophy (10hrs)

- 4.1 Curriculum - Meaning and scope
- 4.2 Influence of various schools of philosophy in the construction of curriculum
- 4.3 Role of state in curriculum construction
- 4.4 Thrust areas of Curriculum for School Education
- 4.5 Value Education – Aims and strategies - Hidden curriculum

Module 5 - School Administration and Management (15 hours)

- 5.1 Effective Management – Role and functions of the Head of the institution
- 5.2 Administrative frame work of schools in Kerala-
- 5.3 Headmaster – qualities and responsibilities
- 5.4 Importance of Co-curricular Activities - Utilization of community resources
- 5.5 Management of time and resources - School time table – need and importance
- 5.6 Staff council—PTA- School records - kinds
- 5.7 School Parliament -Organisation of Grievance Redressal cell

PRACTICUM (any one)

1. Practice of Schools of philosophy. (It may be dramatic presentation/artistic imprints etc.)
2. Identify /appraise the hidden curriculum in any one schools in the state
3. Organise a debate and prepare a report of the Paedeocentric education Vs teacher centered education.

REFERENCES

- Aggarwal J. C. (1998). *Theory and principles of education, Philosophical and Sociological bases of education*, New Delhi: Vikas Publishing House.
- Aggarwal J.C. (1997). *School Organization and Administration Management*, New Delhi : Doaba House, Book Sellers and Publishers.
- Alka Kalra (1977). *Efficient School Management and Role of Principles*, APH Publishing Corporation, New Delhi.
- Anand C. L. & et al. (1983). *The teacher and education in the emerging Indian Society*, New Delhi: N.C.E.R.T.
- Anderson, R.J., Spiro & W.E. Montanaque (2012 eds) *Schooling and the acquisition of knowledge* (PP. Hillsdale, NJ: Erlbaum.
- Banrs, J.A. (1996), *Cultural diversity and education: Foundations curriculum and teaching* (4th ed.) Boston: Alynand, Becon.
- Beyer, L.E. (Ed.) (1996) *Creating democratic classrooms: The struggle to integrate theory and Practice*. New York: Teachers College Press.
- Bhatnagar, RP and Agarwal, V (1986). *Educational Administration and Management*, Loyal Book Depot, Meerut.

- Broudy, H.S. (1977) *Types of knowledge and purposes of education*. In R.C. Brubacher, John S.; (1969) *Modern Philosophies of education*, Tata McGraw-Hill, Publishing Company Pvt LTD, New Delhi.
- Bruner, J.S. (1996), *The Culture of education*. Cambridge, M.A.: Harward University Press.
- Butchvarov, P. (1970) *The Concept of knowledge*. Evanston, Illinois, North Western University Press.
- Chandola, R. P. (2003) *The Real Problems of Indian Education*. Jaipur : Book Enclave.
- Chaube. S. P. (1988). *Indian and Western Educational Philosophies*, Agra: Vinod Pustak Mandir.
- Dash B.N. (2002). *Teacher and education in the emerging Indian society* (2 volumes). Hyderabad: Neelkamal Publications.
- Dearden R. F. (1984). *Theory and practice in Education*. Routledge K Kegan & Paul.
- Debra Heyes, Martin Hills, Pam Chistie and Bob Lingard (2007) *Teachers and schooling: Making a Difference*, Allen and Unwin, Australia.
- Delors, Jacques, et al; (1996). *Learning: The Treasure within report of the international commission on education for 21st century*, UNESCO.
- Dewey John (1900). *The School and Society*. Chicago: The university of Chicago Press.
- Dewey, J. (1916/1977): *Democracy and Education: An introduction to the philosophy of education*. New York: Macmillan.
- Freire, P. and Shor, I. (1987). *A Pedagogy of liberation*. London, Macmillan Education.
- International Encyclopedia of Education. (1994) 2nd edition. Vol.10. Perganon Press.
- Freire, Paulo (1970). *Pedagogy of the oppressed*. New York: Continuum.
- George Z. F. Bereday (1964). *Comparative method in education*. New Delhi: Oxford & IBH Publishing Co.
- Gore M.S. (1994). *Indian Education – Structure and Process*, New Delhi; Rawat publishers.
- Humayun Kabir (1959). *Education in new India* London: George Allen & Unwin Ltd.
- Jagnannath Mohanty (1998). *Modern trends in Indian education*. New Delhi: Deep and Deep Publications.
- James S. Ross. (1952). *Ground works of educational theory* - George G. Harrap & Co. Ltd.

- Kohli V.K. (1987). *Indian Education and its problems*. Haryana: Vivek Publishers.
- Mary Joseph & Thomas, P.J (2010) *Philosophical and Sociological Bases of Education*.
- Matheson, David (2004). *An Introduction to the study of education* (2nd edition). David Fulton Publishers, Slattery, Patrick and Dana Rapp.
- MHRD, (1992), *Programme of action*. Govt. of India, New Delhi.
- MHRD, Gov. of India (1992), *National policy on education* (revised) New Delhi.
- Naik J. P. (1998). *The Education Commission and after*, New Delhi: Publishing Corporation.
- Naik, J.P. (1975) *Equality, quality and quantity: The elusive triangle of Indian education*, Allied Publications, Bombay.
- NCERT (1961). *New Trends in Secondary education*. N.C.E.R.T. New Delhi.
- NCERT. (2005). *National curriculum framework*. NCERT.
- NCERT. (2006a). *Position paper-National focus group on education with special needs (NCF 2005)*. New Delhi: NCERT.
- NCERT. (2006b). *Position paper-National focus group on gender issues in the curriculum (NCF 2005)*. NCERT.
- NCERT. (2006c). *Position paper-National focus group on problems of scheduled caste and scheduled tribe children (NCF 2005)*. New Delhi: NCERT.
- NCERT. (2006d). *Position paper-National focus group on teaching of Indian language (NCF 2005)*. New Delhi: NCERT.
- NCTE (2000) *Human Rights and Indian Values*, New Delhi.
- NCTE (2009) *National Curriculum Framework for Teacher Education*, New Delhi.
- Palmer, Joy A, (2001). *Fifty Modern thinkers on education: From Piaget to the present Day*. Routledge Flamer. London. USA. Canada.
- Peters, R. S. (1967). *The Concept of Education*. New York: Humanities Press.
- Peters, R. S. and Hirst P. H. (1971). *The Logic of Education*. New York: Humanities Press.
- Peters, R.S. (1967), *The Concept of education*, Routledge, United Kingdom.
- Peters, R.S. (ed), (1975). *The Philosophy of education*. Oxford University Press, London.
- Purkait B. R. (2000). *Principles and practices of education India*: New Central Book Agency.
- Rai B.C. (2001). *History of Indian Education*. Lucknow: Prakashan Kendra.

- Reddy, G.L, Thankachan T.C., Alex George & Shylaja M (2015) Human Rights Education, Neelkamal Publishers: Hyderabad.
- Report of secondary Education Commission.* Kothari, D. S. (1965). New Delhi : Ministry of Education.
- Robert. B. Wagner (1989). *Accountability in education.* London: Routledge.
- Safaya, R and Shaida, BD (1977). *Administration and Organization*, Dhanpat Rai and Sons, Delhi.
- Sharma R. A. (1993). *Teacher education, Theory, Practice and Research.* Meerut : International Publishing house.
- Singh L. C. (1990). *Teacher education in India.* N.C.E.R.T.
- Sivadasan Pillai K., (1998). Vidyabhyasam, Trivandrum., Kalanikethan.
- Sivarajan K. (2001). *Trends and developments in modern educational practice Kerala:* Calicut University.
- Suresh Bhatnagar (1984). *Kothari Commission Recommendations and Evaluation with a text on N. P. E.* Meerut: Loyal Book Depot.
- Sushi T et al (1980). *Approaches to School Management*, London: Harper & Row.
- Sykes, M. (1987). *The story of Nai Talim.* Wardha: Nai Talim Samiti.
- Taneja, V. R. (2003). *Educational Thoughts and Practice.* New Delhi: Sterling Publishers.
- Thankachan T.C., (2009) Philosophical and Sociological Bases of Education, V. Publishers
- UNESCO. (1989). *UN convention on the rights of the child.* UNESCO.
- UNESCO. (2006). *United Nations convention on the rights of persons with disabilities.* UNESCO.
- UNESCO. (2009). *Policy guidelines on inclusion in education.* UNESCO.
- Venkataih, N (1993). *Curriculum Innovations for 2000*, New Delhi: Ashish Publishing House.
- Yati, Nitya Chaithanya (2002) Parivarthanonmugha Vidhyabhyasam, Kottayam; Current Books.

EDU 202 : LEARNING AND TEACHING

NO. OF CREDITS	: 5
CONTACT HOURS	: 100
MARKS	: 100 (External 80 + Internal 20)
DURATION OF EXAMINATION	: 3hrs

OBJECTIVES

On completion of the course, the prospective teachers would be able to :

- understand the process of learning and different approaches to the teaching learning process
- understand different perspectives of schools of psychology on learning
- get acquainted with the individual differences among and within the individual
- identify and cater to the educational needs of various types of children
- help student teachers to develop leadership skills
- understand the characteristics of children with special needs and help them provide appropriate learning in accordance with their needs
- acquaint student teachers with group dynamics
- understand the basic principles and techniques of guidance and counselling
- develop skills in guidance and counselling
- understand the concept of transfer of learning and apply the principles to foster maximum positive transfer

MODE OF TRANSACTION

Lecture cum-demonstration, Seminar, Assignment, Peer learning strategies, Community visit, Brainstorming, Debate, Group discussion, Problem-solving, Scenario-based learning strategies and survey method. ICT based teaching and learning

COURSE OUTLINE

Module 1 - Learner in Action (20 hours)

- 1.1 Process of Learning –Principles of learning
- 1.2 Factors affecting learning – Nature of the learner, nature of the learning material and nature of learning situation.
- 1.3 Learning styles-KOLB and VAK

- 1.4 Principles of learning
- 1.5 Learning curves & learning plateaus
- 1.6 Transfer of learning – types of transfer – teaching for positive transfer

Module 2 - Approaches to Learning (20 hours)

- 2.1 Behaviourism – theories of Thorndike, Skinner and Pavlov
- 2.2 Constructivism – Social constructivism (Vygotsky) and Cognitive constructivism (Piaget and Bruner) – Constructivist methods of teaching and learning
- 2.3 Social cognitive learning – Bandura
- 2.4 Cognitive theory -Insight learning –Gestalt school
- 2.5 Gagne’s hierarchy of learning – Eight types of learning
- 2.6 Experiential learning-

Module 3 Differences among learners (20 hours)

- 3.1 Areas of Individual differences
- 3.2 Factors causing individual differences – Heredity and environment
- 3.3 General provisions for fostering individual differences in the classroom
- 3.4 Exceptional learners – concept, catering to the needs
- 3.5 Characteristics of:
 - a) Creative learners
 - b) Gifted
 - c) Underachiever
 - d) Slow learner
 - e) Learning disabled
 - f) Mentally challenged
 - g) physically disabled
 - h) Socially & Culturally disadvantaged
 - i) Delinquency
- 3.6 Tools and techniques for collecting data - Interview, observation, case study, sociometry, checklist, rating scale, anecdotal record, cumulative record.

Module 4 - Psychology of the Group (25 hrs)

- 4.1 Psychological group- meaning and characteristics
- 4.2 Group Dynamics – meaning and scope
- 4.3 Group cohesion and group Communication

- 4.4 Social relationship in the classroom – sociometry- application of Social Psychology in Education
- 4.5 Skill Development - study skill development - oral, written, presentation skill - positive thinking skill
- 4.6 Classroom Psychology - classroom behaviour in school settings - class control and management-
- 4.7 Leadership – concept- types /styles of leadership in the classroom - qualities of a leader - inculcating leadership qualities in the learner

Module 5 - Teacher as Guide and Counsellor (15 hrs)

- 5.1 Concept of Guidance and counselling
- 5.2 Types of Guidance – Educational, Vocational, Personal and Group guidance
- 5.3 Types of Counselling – Directive, Non-directive, and Eclectic
- 5.4 Counselling skills – qualities of a counsellor
- 5.5 Counselling with reference to gender needs –Peer counselling
- 5.6 Significance of guidance bureau in schools.

PRACTICUM (any one)

1. Prepare a report on any three school practices which foster the mental health of students in their practising schools.
2. Prepare a report on the learning difficulties faced by students in the school classrooms
3. Conduct a survey on the leadership styles of select leaders in your neighbourhood

REFERENCES

- Anand, SP (1998). ABCs of Guidance in Education; (III rd Edition), Bhuvanewar: Unique Publication
- Anderson, R.C. Faust, G.W. (1973), **Educational Psychology**, London: N.Y. London Harper.
- Asha, Bhatnagar (1999). Guidance and Counselling : Theoretical Perspective, Vol. 1, New Delhi:Vikas Publishing House.
- Baker, B. Stanley (1992) School Counselling for the Twenty First Century, New York,Macmillan Publishing Company.
- Ball, Bem (1984). Career Counselling Practice, London: Palmer Press.
- Bernard Harold, Psychology of learning and teaching McGraw Hill, New York.

- Bernard, H.W. and Fullyness, D.F. (1977). Principles of Guidance, New York.
- Chauhan , S.S. (1982). Principles of Guidance, New Delhi: Vikas Publishing House
- Clyde Nrramore, M. (1981) Counselling Youth, Michigan, Grand Rapids.
- Cornes, L.S. and Hacheery, H. (1987). The Professional Counsellor, New Jersey: Prentice Hall
- Crawe, L.D and Craw A. (1966). Introduction to Guidance , New York: American BookCompany.
- Crowell, Binet , ME (1963). Guidance and Counselling in Group, New York: Mac Graw Hills.
- Currie, Joe (1981) The Barefoot Counsellor, Bangalore, Asian Trading Coporation.
- Koshy, John S. (2004) Guidance and Counselling Dominant publishers and Distributors, NewDelhi
- Krumboltz, John D, Thoresen, Carl E. (1976) Counselling Methods, New York, Holt, Rinehart and Winston.
- Nayak A.K. (2004), Guidance and Counselling, APH publishing corporation, New Delhi.
- Prasantham, B. J. (1978) Indian Case Studies in Therapeutic Counselling, Vellore, Counselling Centre.
- Ramesh Chaturvedi (2007) Guidance and Counselling Techniques – Crescent Publishing corporation, New Delhi
- Rao, Narayana S. (2002) Counselling and Guidance Second Edition – Tata Mc Graw Hill Publishing Company.
- Sharma, Sitaram (2005) Guidance and Counselling. An Introduction, Shri Sai pringing graphers, New Delhi.
- Tiwari, Deepak (2008). Methods of Teaching Psychology. New Delhi, Crescent Publishing Company.
- Vaidya, N. (1991). Jean Piaget with love and understanding. New Delhi: Oxford and IBW Publishing Ltd.
- Vygotsky, L. S. (1986). Mind in society: The development of higher psychological processes. Cambridge, Mass: Harvard University Press.

EDU 203 : ASSESSMENT FOR LEARNING

NO. OF CREDITS	: 3
CONTACT HOURS	: 60
MARKS	: 60 (External 50 + Internal 10)
DURATION OF EXAMINATION	: 2hrs

OBJECTIVES

On completion of the course, the prospective teachers would be able to:

- familiarize with the latest trends in evaluation
- get a perspective on scope of assessment and evaluation
- develop appropriate assessment instruments for students
- appreciate the role of teacher as a researcher
- develop competencies to evaluate learning
- apply the essentials of statistics in process of evaluation

MODE OF TRANSACTION

Lecture cum discussion, demonstration, group presentations, seminars, debates, and assignments, holding camps, brain storming sessions, and peer group discussion, Peer tutoring, Project, interaction with community, case study, educational survey and dialogue, ICT based teaching and learning.

COURSE OUTLINE

Module 1 - Assessment and Evaluation (10 hrs)

1.1- Conceptual overview of Assessment and Evaluation – classification- oral, written and performance evaluation

- formative and summative, objective based and competency based, norm and criterion referenced , product and process evaluation teacher made and standardized test
- evaluation of cognitive, affective and psychomotor domains
- Characteristics of good evaluation instrument

1.2 Functions of Assessment-assessment for learning and assessment of learning.

1.3 Qualitative and quantitative aspects of evaluation

- 1.4 Technology enabled Testing-Design, Implementation and scope
- 1.5 Differentiated assessment-Meaning and significance
- 1.6 Testing accommodations-identification and implementation

Module 2 - Tools and Techniques of evaluation (10 hrs)

- 2.1 Achievement test - characteristics, steps in construction (blue print) and standardization, types of test items - its merits and demerits.
- 2.2 Steps in the construction of diagnostic test and remedial instruction.
- 2.3 Uses of evaluation - placement, promotion, grouping, diagnosis and remediation.

Module 3 - Reforms in Evaluation (15 hrs)

- 3.1 Critical review of the prevailing assessment practices
- 3.2 Recent trends and practices in assessment and evaluation - assignments, projects, seminars, group discussion, portfolios, rubrics, student profile, Poster assessment, open book exam, participatory assessment, peer assessment
- 3.3 Culturally responsive assessment-Meaning and importance.
- 3.4 Continuous and comprehensive evaluation
 - Credit and semester system.
 - Scholastic, co-scholastic, non-scholastic evaluation
 - Internal assessment.
 - Grading - direct and indirect.
- 3.5 Dynamics of feedback mechanism-making pedagogic decisions
- 3.6 Issues in qualitative assessment

Module 4 - Introduction to Research (5 hrs)

- 4.1 Meaning, need & significance, characteristics, types and scope of research.
- 4.2 Action Research-conceptual view-phases
- 4.3 Teacher as a researcher – action research and research projects.

Module 5: Statistics in Education (20 hrs)

- 5.1 Need and importance of statistics in education
- 5.2 Classification and tabulation of data –need and procedure- Graphical representation of data - bar diagram, histogram, pie diagram, frequency polygon, frequency curve, cumulative frequency curve.
- 5.3 Statistical methods of analysis:
 - Measures of central tendency - mean, median and mode.

- Measures of variability - range, mean deviation and standard deviation -
Measures of relationship - concept of correlation, types of correlation, coefficient of correlation, Spearman's rank order correlation. Percentile and percentile ranks.
- Normal distribution - normal probability curve and its characteristics.

PRACTICUM (any one)

1. Compare and contrast the evaluation systems in the school leaving examinations of State, CBSE and ICSE boards (EPC1).
2. Prepare any 2 project proposals on any relevant themes
3. Prepare and conduct a peer assessment instrument (EPC4).

REFERENCES

- Aggarwal, D.D.(2009). Educational Technology. New Delhi: Sarup& Sons India Pvt. Ltd
- Aggarwal, Y.P.(1998). Statistical Methods-Concepts, Applications and Composition. New Delhi: Sterling Publications Pvt. Ltd.
- Aimee M.Bissonett, J.D.(2009). Cyber Law- Maximising Safety and Minimising risk in classrooms. New Delhi: SAGE Publications India Pvt. Ltd.
- Care, Esther, Mc Gaw, Barry & Griffin, Patrick (2012). Assessment and Teaching of 21st Century Skills. New York: Springer
- Cennamo, Katherine(2012). Technology Integration for Meaningful Classroom Use: A Standards- Based Approach. New York: Cengage Publishers
- Classroom testing and assessment for all students-Beyond standardization. Spencer. J.Salend
- Coolidge, Frederick L.(2013). Statistics- A Gentle Introduction-3rd edition. New Delhi:SAGE Publications Pvt Ltd.
- Gehlawat (2012) Information Technology in Education, New Delhi,
- Jefferied, Julie & Diamond, Ian (2013). Beginning Statistics- An Introduction for Social Scientists. New Delhi: Sage Publications Pvt. Ltd.
- Jimoyiannis, Athanassios(2012). Research on E-learning & ICT in Education. New York: Springer.

- Kist, William(2012). The Socially Networked Classroom- Teaching in the New Media Age. New Delhi: SAGE Publications Pvt Ltd.
- Nicols, Adelaide Doyle., Cox, J.SabrinaMims.,Johnson, Ruth1s., (2012). Developing Portfolios in Education- A guide to Reflection, Inquiry &Assessment -2nd edition. New Delhi: SAGE Publications Pvt. Ltd.
- Nitko, Anthony J. & Brookhart , (2007).New Delhi: Susan M. Educational Assessment of Students. Prentice Hall.
- Parker, JessicaK.(2012). Teaching Tech-Savvy Kids- Bringing Digital Media into the Classroom, Grade 5-12. New Delhi: SAGE Publications. Pvt. Ltd.
- Pathak (2011) Educational Technology, 1/e, New Delhi, Pearson Education
- Pathak (2012) Measurement and Evaluation in Education, New Delhi, Pearson Education
- Pearson EducationLinn (2008) Measurement and Assessment in Teaching, 9e, New Delhi, Pearson Education
- Pearson Series in Education (2012) Essentials of Educational Technology and Management, New Delhi, Pearson Education
- Quinlan, Audrey M. A Complete Guide to Rubrics: Assessment Made Easy for Teachers, KDCollege(2012).USA:Rowman Littlefield Education.
- Reid, Howard M. (2013). Introduction to Statistics-Fundamental Concepts and Procedures of Data Analysis. New Delhi: SAGE Publications Pvt Ltd.
- Santhanam, S.,Paneerselvam, A., &Sampath K. (2001). Introduction to Educational Technology. New Delhi: Sterling Publishers,Pvt. Ltd.
- Smith, Claire Wyatt &Klenowski, Valentina (2013). Assessment for Education- Standards, Judgement & Moderation. New Delhi: SAGE Publications PvtLtd.
- Stevens, Dannelle.D & Levi, Antonia J. (2005).Virginia: Introduction To Rubrics: An Assessment Tool To Save Grading Time, Convey EffectiveFeedback and promote student learning. StylusPublishing.LLC.
- Val, Klenowski.(2002). Developing Portfolios for Learning and Assessment: Processes and Principles. London. RoutledgeFalmer.
- Wright, Robert J. (2008). Educational Assessment, Tests & Measurements in the Age of Accountability. New Delhi: SAGE Publications Pvt.Ltd.
- www.712educators.about.com/od/rubrics/Rubrics_Writing_and_Grading_Rubrics.htm
- www.education.gov.uk/researchandstatistics

www.ehow.com/how_8082130_name-educational-portfolio.html

www.ltconline.net/greenl/courses

Wyatt-Smith, Claire; Cumming, Joy (Eds.) (2009). New Delhi: Educational Assessment in the 21st Century. Springer.

Zubizarreta, John. (2009). The Learning Portfolio: Reflective Practice for Improving Student Learning. USA: John Wiley and Sons. Inc

PEDAGOGIC COURSES

EDU 204.11 : PEDAGOGICAL DIMENSIONS OF ENGLISH

NO. OF CREDITS	: 3
CONTACT HOURS	: 60
MARKS	: 60 (External 50 + Internal 10)
DURATION OF EXAMINATION	: 2 hours

OBJECTIVES

On completion of the course, the prospective teachers would be able to:

- assume accountability for the teaching-learning process.
- apply relevant strategies to develop the target language.
- analyze the content with respect to the relevant aims of teaching the target language.
- design instruction catering to the diverse needs of the language classroom.
- judge the efficacy of teaching through self-assessment.
- evaluate the language skills of learners and provide remediation.

MODE OF TRANSACTION

Lecturing, Discussion, Debates, Investigative learning, Problem-based learning, Web-based learning, Cooperative learning, Seminars, Debates, Assignments, Peer group discussion, Interaction with community, Case study, Survey, Dialogue, ICT based teaching and learning.

COURSE OUTLINE

Module 1–Educational Objectives of teaching English

- 1.1 Aims & objectives of teaching English at different school levels.
- 1.2 Curricular objectives, Instructional objectives, specifications & Competencies
- 1.3 Learning Taxonomy- B. S. Bloom, Dave & Simpson (revised taxonomy)- Implications in classroom.
- 1.4 Objective-based instruction & objective based evaluation
- 1.5 Competency-based instruction & competency-based evaluation
- 1.6 Tri-polar relationship- Objective, Learning Activity, Evaluation

Module 2: Planning for Instruction (20 hrs)

- 2.1 Planning: Meaning, Importance & Objectives
- 2.2 Different types of planning: Year plan, Unit Plan, Lesson plan
- 2.3 Approaches in Lesson Planning- Herbartian & Constructivism
- 2.4 Lesson planning for teaching Prose & Poetry

Module 3 - Pedagogic Analysis of English (10hrs)

- 3.1 Content analysis of prescribed Coursebooks at school level (6-) of state syllabus.

Module4-Evaluation in English Language teaching (15 hrs)

- 4.1 Construction of Achievement test- Design, Blueprint, writing test items
- 4.2 Relevance of diagnostic test.
- 4.3 Teacher evaluation-criteria for evaluation, preparation of self evaluation tools

Module 5 – Techno-pedagogical content knowledge (15hrs)

- 5.1 Ways to link technology to Pedagogical content knowledge
- 5.2 Innovative ways of teaching – web-based learning, virtual classroom, blog-creation, use of smart boards.

PRACTICUM (any one)

1. Critically analyse any prescribed Course book from secondary level for State syllabus.
2. Administer an online test in order to evaluate students.
3. Prepare a write-up on how secondary students of State syllabus are graded according to Continuous and Comprehensive Evaluation.

REFERENCES

- Anderson, Darlene H. & Nelson, Julie A. et al.(2011). Using Dialogue Journals to Strengthen the Student-Teacher Relationship: A Comparative Case Study. College Student Journal, 45 (2).
- Allen, R.H. (2002). Impact teaching: Ideas and strategies for teachers to maximize student learning. Boston, MA:Allyn&Bacon.

- Bandler, R. (1988). *Learning strategies: Acquisition and conviction*. Boulder, CO: NLP Comprehensive.
- Broughton, Geoffery et al. (1978). *Teaching English as a second language*. London : Routledge and Kegan Paul.
- Caine,R.N. & Caine, G. (1994). *Making connections: Teaching and the human brain*. New York: Addison-Wesley. `
- Carrel, P. L., Devine, J. & Eskey, D. E. (1988). *Interactive approaches to second language reading*. Cambridge : Cambridge University Press.
- Jensen,E. (2000). *Brain-based learning: The new science of teaching and training*. Thousand Oakes, CA: Corwin Press.
- Joyce and Marsha M Weil. (2003). *Models of Teaching*. New Delhi: Prentice Hall.
- Krishnaswamy, N. (2007). *Teaching English: Approaches, methods and techniques*. New Delhi: Macmillan India Ltd.
- Larsen-Freeman, Diane & Anderson, Marti. (2011). *Techniques and principles in language teaching*. Oxford: Oxford University Press.
- Marzano, Robert J. , Pickering, Debra J. et al. (2003). *Classroom Management That Works: Research-Based Strategies for Every Teacher*. U.K.: Association for Supervision and Curriculum Development.
- Mentkowski and Associates. (2000). *Learning that lasts: Integrating learning, development and performance in college and beyond*. San Francisco: Jossey-Bass.
- Patel, Hemant. (2014). *English language teaching: Approaches, methods and techniques*. Jaipur: Paradise Publishers.
- Powell, Robert J. & Caseau, Dana. (2004). *Classroom Communication and Diversity: Enhancing Institutional Practice*. U.K.: Lawrence Erlbaum Associates.
- Richmond, Virginia P.& McCroskey . (1992). *Power in the Classroom: Communication, Control, and Concern*. U.K.: Lawrence Erlbaum Associates.

**EDU 205.11 : CURRICULUM AND RESOURCE DEVELOPMENT IN
ENGLISH EDUCATION**

NO. OF CREDITS	:	3
CONTACT HOURS	:	60
MARKS	:	60 (External 50 + Internal 10)
DURATION OF EXAMINATION :		2 hrs

OBJECTIVES

On completion of the course, the prospective teachers would be able to:

- understand the principles of curriculum construction with special reference to English teaching.
- modify the curriculum so as to address student needs.
- develop competency in evaluating a curriculum and its elements
- use the resources and instructional support effectively to transact the curriculum
- frame a curriculum based on relevant factors.

MODE OF TRANSACTION

Lecturing, Discussion, Debates, Investigative learning, Problem-based learning, Web-based learning, Cooperative learning, Seminars, Debates, Assignments, Peer group discussion, Interaction with community, Case study, Survey, Dialogue, ICT based teaching and learning

COURSE OUTLINE

Module 1- Curriculum Development (15 hrs)

- 1.1. Meaning –Definition-foundation
- 1.2. Curriculum Planning--Phases
- 1.3. Curriculum and Syllabus
- 1.4. Principles of Curriculum Development

Module 2-Curriculum Organization (15 hrs)

- 2.1. Approaches to Curriculum Organization-Topical, Unit, Concentric, Spiral, Progressive

2.2. Curriculum Transaction-Operationalizing Curriculum into Learning Situations

2.3. Curriculum Mapping- Role of Teacher.

Module 3 - Types of Curriculum (10 hrs)

3.1 Activity -based-Child-centred-Subject-centred-Community-based-Core-Hidden

3.2. Differentiated Curriculum to meet Individual Differences- Giftedness- Creative Learners-Slow Learners- -Under Achievers-Learning Disabled

3.3 Curriculum Reforms and Revisions with reference to NCF/KCF, NCERT

3.4 Critical Evaluation of New Curriculum at Secondary School Level.

Module 4 - Learning Resources in English (10 hrs)

4.1 Library & its organisation

4.2 Language Lab& its organisation

4.3. English club & its activities

4.4. e-resources for learning English

Module 5 - Instructional Support (10 hrs)

5.1 Course books/ Text books & its characteristics

5.2 Handbooks & Student workbooks – a comparison

5.3 Resource Unit& its importance

5.4 Periodicals& Journals in the teaching of English

5.5 Audio-visual aids & improvised aids in the teaching of English

5.6 Manuscript magazine

PRACTICUM (any one)

1. Arrange a visit to a special school and prepare a report based on their communicative abilities.
2. Make use of an e-learning resource to teach any lesson from the English course book.
3. Suggest activities to develop communicative skills through the English club.

REFERENCES

- Browne, Ann. (2007). Teaching and learning communication, language and literacy. London: Paul Chapman Publishing.
- Burton, Dwight L. & Simmons, John S. (1965). Teaching English in today's high schools. Chicago: Holt, Rinehart and Winston, INC.
- Celce-Murcia, M. (Ed.). (1994). Teaching English as a second or foreign language. Boston: Heinle&Heinle.
- Evans, Carol., Midgley, Alyson et al. (2010). Teaching English. New Delhi: Sage Publications India Pvt. Ltd.
- Hollingsworth, John., Ybarra, Silvia. (2013). Explicit direct instruction. California: Corwin.
- Hughes, Arthur. (1989). Testing for language teachers. UK: Cambridge University Press.
- Jadhav, B.S. (2011). Teaching English: The use of support materials. Hyderabad: Orient Blackswan Pvt. Ltd.
- Kudchedkar, S. (2002). Readings in English language teaching in India. Chennai: Orient Longman Pvt. Ltd.
- Laternau, J. (2001). Standard-based instruction for English language learners. PREL Briefing Paper (PB0102). Honolulu, HI: Pacific Resources for Education and Learning.
- McCarthy, Michael & O'Dell, Felicity. (1996). English vocabulary in use. Cambridge; Cambridge University Press.
- McDonough, Jo. & Shaw, Christopher. (2008). Materials and methods in ELT: A teacher's guide. Oxford: Blackwell Publishing.
- Murphy, Raymond. (2012). Essential English Grammar. Cambridge: Cambridge University Press India Pvt. Ltd.
- Nunan, D. (1989). Syllabus design: Language Teaching. Oxford: Oxford University Press.
- Richards, Jack C. & Rodgers, Theodore S. (1995). Approaches and methods in language teaching. Cambridge: Cambridge University Press.
- Wright, Andrew. (1989). Pictures for language learning. Cambridge: Cambridge University Press.

EDU 204.12 : PEDAGOGICAL DIMENSIONS OF MALAYALAM

NO. OF CREDITS	: 3
CONTACT HOURS	: 60
MARKS	: 60 (External 50 + Internal 10)
DURATION OF EXAMINATION	: 2 hours

OBJECTIVES

On completion of the course, the prospective teachers would be able to:

- analyze the nature of the school subject, its relation to disciplinary knowledge and its social history as a subject in the school curriculum.
- explore pedagogical approaches for the teaching of the subject at different stages of school
- develop a deeper theoretical understanding of how children in diverse and social contexts construct knowledge
- apply Innovative teaching-learning strategies and acquaint oneself with ICT enabled Teaching
- analyze the content areas of Malayalam Textbooks for Standard VIII-XII
- practice diverse methods and prepare tools for assessing an array of learning/performance outcomes of diverse learners.

MODE OF TRANSACTION

Lecture cum discussion, demonstration, group presentations, seminars, debates, assignments, brain storming sessions, Buzz Session and Co-operative learning , interaction with community, case study, and Educational survey, ICT based teaching and learning

COURSE OUTLINE

Module 1- Educational Objectives (15 hours)

- 1.1 Aims and Objectives-Meaning-Distinction
- 1.2 Learning Taxonomy – B S .Bloom, Dave and Simpson(revised taxonomy)-
Implications in Classroom
- 1.3 Implications of Psychological theories - Piaget, Bruner, Vygotsky

- 1.4 Curricular Objectives, Instructional Objectives, Specifications and Competencies
- 1.5 Tri-polar relation- Objectives-Learning Experience -Evaluation,
- 1.6 Objective based instruction-Objective based evaluation, Competence based instruction- Competence based evaluation

Module 2- Planning for Instruction (10 hrs)

- 2.1 Need and Significance
- 2.2 Levels of Planning- Year plan- Unit plan-Lesson Plan, Teaching Manual- Modules
- 2.3 Approaches in Lesson Planning-Herbartian-Constructivist-Innovative – Implications in Classroom

Module 3 - Techno Pedagogical Content Knowledge (15 hrs)

- 3.1 Technology-Pedagogy-Content
- 3.2 Techno Pedagogical Content Knowledge -Ways to link Technology to Pedagogical Content Knowledge
- 3.3 Multimedia Learning in Malayalam -Multimedia Equipments and Uses
- 3.4 Web based learning – Significance and Utilization
- 3.5 Edublog —Meaning, Significance, Steps for Blog Creation,Ways to use blogs in classroom
- 3.6 E-content development in language education Education-meaning, significance

Module 4- Pedagogic Analysis of Malayalam (10 hrs)

- 4.1 Content-Analysis of Prescribed Malayalam readers from VI-X for State.
- 4.2Language curriculum approach in secondary schools

Module 5-Evaluation (10 hrs)

- 5.1 Construction of an Achievement test and Diagnostic test
- 5.2 Data Analysis and Interpretation with Graphical representation (Mean, Median, Mode, and SD)
- 5.3 Teacher evaluation-criteria for evaluation, preparation of self evaluation tools

PRACTICUM (any one)

1. Find out any one prose or poetry through which hidden aspects of values can be easily transacted and prepare lesson plans for the same(**EPC1**)

2. Publish an article on creative writing in your Blog (**EPC 3**)
3. Conduct a survey on the use of technology for teaching Malayalam in Your practice teaching schools

REFERENCES

- AeL eContent, www.bettshow.com/ExhibitorLibrary/278/AeL_eContent_2.pdf SIVECO. Romania, Bucharest, Romania, www.siveco.ro site accessed on 29/02/08
- Aggarwal, Y.P.(1998). *Statistical Methods-Concepts, Applications and Composition*. New Delhi: Sterling Publications Pvt. Ltd.
- Alessi, S. M., & Trollip, S. R. (2001). *Multimedia for learning: methods and development (3rd ed.)*. Needham Heights, MS: Allyn & Bacon.
- Angelo, T. A., & Cross, K. P. (1993). *Classroom assessment techniques: A handbook for college teachers (2nd ed.)*. San Francisco: Jossey-Bass.
- Buchholz Andrea & Zerfass Ansgar. 2005. *E- Content in Europe: Dimensions of an Emerging Field*. MFG Baden-Wiirttemberg, Germany.
- Care, Esther, Mc Gaw, Barry & Griffin, Patrick (2012). *Assessment and Teaching of 21st Century Skills*. New York: Springer.
- Coolidge, Frederick L.(2013). *Statistics- A Gentle Introduction-3rd edition*. New Delhi:Sage Publications Pvt Ltd.
- Gardner, John(2012). *Assessment and Learning -2ndedition*. New Delhi: SAGE Publications India Pvt. Ltd.
- Nitko, Anthony J. & Brookhart , (2007).New Delhi: Susan M. Educational Assessment of Students. Prentice Hall.
- Reid, Howard M. (2013). *Introduction to Statistics-Fundamental Concepts and Procedures of Data Analysis*. New Delhi: SAGE Publications Pvt Ltd.
- Wright, Robert J.(2008).New Delhi: Educational Assessment-Tests and Measurements in the Age of Accountability. Sage Publications Pvt Ltd.
- Wyatt-Smith, Claire; Cumming, Joy (Eds.) (2009).New Delhi: Educational Assessment in the 21st Century. Springer.

EDU 205.12 : CURRICULUM AND RESOURCE DEVELOPMENT IN MALAYALAM EDUCATION

NO. OF CREDITS	:	3
CONTACT HOURS	:	60
MARKS	:	60(External 50 + Internal 10)
DURATION OF EXAMINATION	:	2 hours

OBJECTIVES

On completion of the course, the prospective teachers would be able to:

- identify various dimensions of curriculum and their relationship with the aims of education
- examine the role of the hidden curriculum and children's resilience
- decide on the curriculum best suited to address students' need and changes in society.
- develop competency in evaluating a language curriculum and its elements
- critically analyse various samples of textbooks, children's literature , teacher's handbooks and e- learning resources
- utilize various resources and activities to promote effective teaching and learning.

MODE OF TRANSACTION

Lecture cum discussion, demonstration, group presentations, seminars, debates, assignments, brain storming sessions, and peer group discussion, interaction with community, case study, and Educational survey and dialogue,ICT based teaching and learning

COURSE OUTLINE

Module 1- Curriculum Development (15 hrs)

- 1.1 Meaning –Definition-foundation
- 1.2 Curriculum Planning-Factors-Phases
- 1.3 Curriculum and Syllabus
- 1.4 Principles of Curriculum Development
- 1.5 Approaches to Curriculum Development

Module 2-Curriculum Organization (15 hrs)

- 2.1 Principles of Curriculum Organization
- 2.2 Factors contributing to Curriculum Organisation
- 2.3 Approaches to Curriculum Organization-Topical, Unit, Concentric, Spiral
Curriculum Transaction-Operationalizing Curriculum into Learning Situations

Module 3 - Types of Curriculum (10 hrs)

- 3.1 Activity Based-Child Centred -Subject Centred-Community Based-Core-
Hidden Differentiated Curriculum to meet Individual Differences- Giftedness-
Creative Learners-Slow Learners- -Under Achievers-Learning Disabled
- 3.2 Curriculum Reforms and Revisions with reference to NCF/KCF, NCERT
- 3.3 Critical Evaluation of New Curriculum at Secondary School Level

Module 4 - Resources of Learning /Teaching (10 hrs)

- 4.1 Library and its organization
- 4.2 Virtual Classroom, Smart Classroom
- 4.3 Community Resources –Significance, Types, Role of teacher in enhancing PTA
and in utilizing community resources
- 4.4 Field trip-importance, organization
- 4.5 Supplementary learning materials-Meaning-Objectives and Types
- 4.6. e- Resources for learning Malayalam

Module 5- Instructional support (10hrs)

- 5.1 Text Book-General references-Workbook- Teacher's Handbook-Journals and
Periodicals
- 5.2 Audio Visual Aids-Improvised Teaching aids

PRACTICUM (any one)

1. Make a script for short film on current issues with live, real models (Epc2).
2. Prepare a report on field trip organized by your class.
3. Prepare a workbook/handbook based on any unit of Malayalam text books at
secondary level

REFERENCES

- Aggarwal, D.D.(2009). Educational Technology. New Delhi: Sarup& Sons India Pvt. Ltd.
- Aimee M.Bissonett, J.D.(2009). Cyber Law- Maximising Safety and Minimising risk in classrooms. New Delhi: SAGE Publications India Pvt. Ltd.
- Cennamo, Katherine(2012). Technology Integration for Meaningful Classroom Use: A Standards- Based Approach. New York: Cengage Publishers
- Crowder, N.A. (1959). Action Research to Improve School Practices. New York: Columbia University.
- Gehlawat (2012) Information Technology in Education, New Delhi,
- Jefferied, Julie & Diamond, Ian (2013). Beginning Statistics- An Introduction for Social Scientists. New Delhi: Sage Publications Pvt. Ltd.
- Jimoyiannis, Athanassios(2012). Research on E-learning & ICT in Education. New York: Springer
- Kist, William(2012). The Socially Networked Classroom- Teaching in the New Media Age. New Delhi: SAGE Publications Pvt Ltd.
- Nicols, Adelaide Doyle., Cox, J.SabrinaMims.,Johnson, Ruth1s., (2012). Developing Portfolios in Education- A guide to Reflection, Inquiry &Assessment -2nd edition. New Delhi: SAGE Publications Pvt. Ltd.
- Parker, JessicaK.(2012). Teaching Tech-Savvy Kids- Bringing Digital Media into the Classroom, Grade 5-12. New Delhi: SAGE Publications. Pvt. Ltd.
- Passi, B. K. (Ed) (1976).Becoming Better Teacher: A Micro Teaching Approach. Ahamadabad: Sahithya Mudranalaya.
- Pathak (2011) Educational Technology, 1/e, New Delhi, Pearson Education
- Pathak (2012) Measurement and Evaluation in Education, New Delhi, Pearson Education
- Pearson EducationLinn (2008) Measurement and Assessment in Teaching, 9e, New Delhi, Pearson Education
- Pearson Series in Education (2012) Essentials of Educational Technology and Management, New Delhi, Pearson Education
- Rajput, J. S. (ed.) (2002). Experiences in School Education. New Delhi: NCERT.

- Santhanam, S., Paneerselvam, A., & Sampath K. (2001). Introduction to Educational Technology. New Delhi: Sterling Publishers, Pvt. Ltd.
- SCERT (2008). Kerala Curriculum Framework. Thiruvananthapuram
- Sharma, J.P. (2000). National Curriculum Framework for School Education: A discussion document. New Delhi: NCERT.
- Skinner, B. F. (1968). The Technology of Teaching. New Jersey: Prentice Hall.
- Smith, Claire Wyatt & Klenowski, Valentina (2013). Assessment for Education- Standards, Judgement & Moderation. New Delhi: SAGE Publications Pvt Ltd.
- Wright, Robert J. (2008). Educational Assessment, Tests & Measurements in the Age of Accountability. New Delhi: SAGE Publications Pvt. Ltd.

EDU 204.16 : PEDAGOGICAL DIMENSIONS OF MATHEMATICS

NO. OF CREDITS	:	3
CONTACT HOURS	:	60
MARKS	:	60 (External 50 + Internal 10)
DURATION OF EXAMINATION	:	2 hours

OBJECTIVES

On completion of the course, the prospective teachers would be able to:

- endow with the significance of Taxonomy of instructional objectives of teaching Mathematics
- capacitate systematic planning of instruction and develop skill in charting lesson designs
- apprehend the pedagogy of Mathematics of Higher Secondary and Secondary level
- acquaint with practices of feedback mechanisms and online assessment tools and techniques
- acquaint with concept of techno Pedagogy and understand the role of the teacher as a techno-pedagogue
- augment the levels of teaching competence by synchronizing IT in teaching

MODE OF TRANSACTION

Lecture cum discussion, demonstration, group presentations, seminars, debates, and assignments, holding camps, brain storming sessions, and peer group discussion, Peer tutoring, Project, interaction with community, case study, educational survey and dialogue, ICT based teaching and learning

COURSE OUTLINE

Module 1 - Educational Objectives (15 hours)

- 1.1 Aims and objectives-meaning and distinction
- 1.2 Blooms Taxonomy of Educational objectives. Revised Bloom's taxonomy-conceptual overview.

- 1.3 Objective Based Instruction and Objective based evaluation – based on Bloom’s Taxonomy (cognitive, affective, psychomotor domain)
- 1.4 Competence Based Instruction and Competence based evaluation
- 1.5 Tripolar relation - Objective, Learning experience, Evaluation
- Competence, Learning Activity, Evaluation
- 1.6 Development of skills-Computational skills, Geometrical skills, Drawing and interpreting graphs and charts.
- 1.7 Importance and techniques of developing speed and accuracy-role of drill mental calculations.
- 1.8 Implications of learning theories of Piaget, Bruner, Gagne, Vygotsky in learning Mathematics

Module 2 - Planning of instruction (15 hours)

- 2.1 Meaning, importance and purpose of lesson planning
- 2.2 Different types of Plans- Year Plan, Unit Plan, Lesson Plan
- 2.3 Approaches in Lesson planning - Herbartian, Constructivist approaches

Module 3 – Assessment in mathematics learning (10 hours)

- 1.1 Types of test items-merits and demerits
- 1.2 Construction of Achievement test and Diagnostic test
- 1.3 Teacher Evaluation –Criteria for evaluating teaching competence, self assessment

Module 4 -Techno pedagogic Content Knowledge (10 hours)

- 4.1 Pedagogic Content Knowledge-Techno Pedagogic Content Knowledge
- 4.2 Ways and means to link Technology to Pedagogic Content Knowledge.
- 4.3 Web based learning –Blog Creation, Designing virtual class room, Use of smart board
- 4.4 Teacher as a techno-pedagogue

Module 5 - Pedagogic Analysis (10 hours)

- 5.1 Content analysis of Mathematics curriculum from standard VI to X (State syllabus)

PRACTICUM (any one)

1. Analyse the content of any one unit of Std. VIII/IX/X/XI/XII of CBSE/ICSE/STATE syllabus
2. Up load a self designed innovative lesson design of your choice (EPC 3)
3. Prepare a drama script on any topic of your choice to enrich Mathematics learning (EPC 2)

REFERENCES

- Aiyankar, Kuppuswami. The Teaching of Mathematics.
- Anderson, L. (2006). Taxonomy academy handbook. Retrieved July, 2006, from <http://www.andersonresearchgroup.com/tax.tyml>.
- Anderson, L., & Krawth Wohl, D.E. (2001). A taxonomy for learning, teaching and assessing: A revision of Bloom's taxonomy of educational objectives (Abridged). New York: Addison Wesley Longman, Inc.
- Andrews, J.J.W, Saktofski, D.H. & Janzen, H.L. (2001). Handbook of psycho educational assessment. Academic press.
- Apple, M.V. (2000). Mathematics reform through conservative modernization: Standards, markets and inequality in education. Reported by Boaler, J. (Ed). Multiple perspectives on mathematics teaching and learning. 243-259, West Port, CT: Ablex.
- Artz, A.G., & Armour -Thomas, E. (2001) .Becoming a reflective mathematics teacher: A guide for observations and self-assessment. Mehweh, N.L. Lawrence Erlbaum Associates
- Barell, J. (2007). Problem based learning (IIEd.). Thousand Oaks, CA: Corwin press.
- Barrows, H.S. (1986). A taxonomy of problem based learning methods. Medical Education, 20, 481-486.
- Bella, N.J. (2004). Reflective analysis of student work. Thousand Oaks: CA. Corwin Press.
- Bellard, P.B. Teaching the Essentials of Arithmetic
- Bender, W.N. (2005). Differentiating Math instruction strategies that work for K-8 classrooms. Thousand Oaks, CA: Corwin press.
- Bloom, B.S. & et. al Handbook on Formative & Summative Evaluation.

- Bloom, B.S. (1956) *Taxonomy of Educational Objectives*. Boston: Houghton Mifflin
- Burke, K. (2006). *From standards to rubrics in six steps*. Thousand Oaks, CA: Corwin press.
- Butler and Wren (1965). *The teaching of Secondary School Mathematics*, London.
- Cooney, T.J. and Other (1975). *Dynamics of Teaching Secondary School Mathematics*, Deepka,E.(2007).*Designing assessment for mathematics*.(2ndEd).Thousand Oaks,CA: Corwin Press.
- Godfrey, C & A, W. Siddons. *The Teaching of Elementary Mathematics*.
- Iglewicz, Boris and Stoye, Judith (1973). *An Introduction to Mathematical Reasoning*, New York; The Mac Millan Co.
- Malhotra, V (2007). *Encyclopaedia of Modern Methods of Teaching Science*. New Delhi: Crescent Publishing Corporation.
- Malhotra, V. (2006). *Methods of Teaching Mathematics*, New Delhi: Crescent Publishing Corporation.
- Mangal, S.K. (1984). *The teaching of Mathematics*, Ludhiana: R.P. Fadon Prakash brothers.
- Merrilyn goods, Ggloria Stillman and Colleen vale .*Teaching secondary school mathematics-Researches and practices for the 21st century*
- NCERT (2006). *National Curriculum Framework for School Education 2005*. New Delhi.
- NCERT. *A Text Book of content – cum – methodology of Teaching Mathematics*, New Delhi: NCERT.
- NCERT. *Improving Instruction in Mathematics*
- NRC, (2001) National Research Council. *Mathematics learning study: Center for Education, Division of Behavioural and Social Sciences and Education, Adding it up: Helping children learn mathematics*. Edited by J. Kilpatrick et al., Washington, DC: National Academy Pre<http://www.edel.edu/pbl>
- Pandey, S, K and Sharma, R.S (2008). *Encyclopaedia of Modern Techniques of Teaching*, New Delhi: Commonwealth Publishers.
- Paul Chambers .*Teaching mathematics-developing as a reflective secondary teacher*
- Rai, B.C. *Methods of Teaching Mathematics*.
- Schultze, A. *The Teaching of Arithematics in Secondary School*.
- Servas, Wand T. Varga. *Teaching School Mathematics – UNESCO Service Book*.

- Shah, G. B., New Dimensions in the Teaching of Mathematics.
- Sharma. R. A. Teaching Learning Strategies and Mathematical Creativity.
- Sidhu, K.S. (1984). The Teaching of Mathematics, New Delhi: Sterling Publications Pvt. Ltd.
- Soman, K (1988). Ganitha Sasthra Bodhanam, Trivandrum: State Institute of Language (Kerala).
- State text books in Mathematics of Kerala , class VII to XII.
- Sumner, W.L. The Teaching of Arithmetic & Elementary Mathematics.
- Sundarajan. S. Theory and Practice of Teaching School Mathematics.
- Walton, J.A.(2005). Educational Objectives and Achievement Testing, New Delhi: Commonwealth Publishers.

EDU 205.16 : CURRICULUM AND RESOURCE DEVELOPMENT IN MATHEMATICS EDUCATION

NO. OF CREDITS	3
CONTACT HOURS	60
MARKS	: 60 (External 50 + Internal 10)
DURATION OF EXAMINATION	: 2 hours

OBJECTIVES

On completion of the course, the prospective teachers would be able to:

- acquaint with the concept and functions of curriculum.
- gain a perspective on the principles and approaches of curriculum construction.
- identify different types of curriculum.
- become proficient in analyzing Mathematics Curriculum.
- familiarize the nature and functions of various instructional resources
- explore e- resources to uphill the level of teaching performance

MODE OF TRANSACTION

Lecture cum discussion, demonstration, group presentations, seminars, debates, and assignments, holding camps, brain storming sessions, and peer group discussion, Peer tutoring, Project, interaction with community, case study, educational survey and dialogue, ICT based teaching and learning

COURSE OUTLINE

Module 1 – Curriculum (20 hours)

- 1.1 Meaning, definition and foundations. Curriculum Planning, Phases.-distinction from syllabus
- 1.2 Modern trends in the construction of curriculum- Objective Based, Child centered, Activity based, Correlated, Overcoming Individual differences, fulfilling the requirements of Higher Education, Flexible and Feasible.
- 1.3 Curriculum implementation and revision –critical evaluation of a curriculum— process

Module 2 - Principles of Curriculum Organization (10 hours)

- 2.1 Logical and Psychological
- 2.2 Approaches to curriculum organization- Spiral, Topical, Concentric, Unitary, and Integrated.
- 2.3 Curriculum transaction-conceptual view-Curriculum mapping -Operationalising curriculum into learning situations-teacher's role

Module 3 - Types of Curriculum (10 hours)

- 3.1 Community Based, Core, Hidden, Explicit, Implicit, Null
- 3.2 Differentiated Curriculum to meet individual differences
- 3.3 Mathematics Education- major highlights in NCF/KCF

Module 4 - Learning Resources in Mathematics (10 hours)

- 4.1 Selection and development of resources
- 4.2 Mathematics Library and its function
- 4.3 Mathematics Laboratory and its function
- 4.4 e-learning resources, online resources ,Websites, C.D's, Blogs,
- 4.5 Virtual classroom-role in mathematics learning
- 4.6 Managing group and individual work- effective class management strategies in mathematics learning

Module 5 – Instructional supports (10 hours)

- 5.1 Text Book and reference Books-characteristics
- 5.2 Work Book
- 5.3 Teachers' Hand Book
- 5.4 Improvised Aids-concept and types
- 5.5 Technological Aids-brief outline and their uses
- 5.6 Activity Aids,Hands on Experiences -significance
- 5.7 Mathematical Journal

PRACTICUM (any one)

1. Prepare a video/drama script for motivating learners from any one unit of mathematics (EPC 3)
2. Prepare a digital Question Bank on any one Unit at Secondary school level (EPC3)
3. Prepare a report on the major highlights of mathematics education in NCF/KCF

REFERENCES

- Aiyankar, Kuppaswami. The Teaching of Mathematics.
- Anderson, L., & Krawth Wohl, D.E. (2001). A taxonomy for learning, teaching and assessing: A revision of Bloom's taxonomy of educational objectives (Abridged). New York: Addison Wesley Longman, Inc.
- Anderson, L. (2006). Taxonomy academy handbook. Retrieved July, 2006, from <http://www.andersonresearchgroup.com/tax.tyml>.
- Andrews, J.J.W, Saktowski, D.H. & Janzen, H.L. (2001). Handbook of psycho educational assessment. Academic press.
- Apple, M.V. (2000). Mathematics reform through conservative modernization: Standards, markets and inequality in education. Reported by Boaler, J. (Ed). Multiple perspectives on mathematics teaching and learning. 243-259, West Port, CT: Ablex.
- Artz, A.G., & Armour -Thomas, E. (2001) .Becoming a reflective mathematics teacher: A guide for observations and self-assessment. Mehweh, N.L. Lawrence Erlbaum Associates
- Barell, J. (2007). Problem based learning (IIEd.). Thousand Oaks, CA: Corwin press.
- Barrows, H.S. (1986). A taxonomy of problem based learning methods. Medical Education, 20, 481-486.
- Bella, N.J. (2004). Reflective analysis of student work. Thousand Oaks: CA. Corwin Press.
- Bellard, P.B. Teaching the Essentials of Arithmetic
- Bender, W.N. (2005). Differentiating Math instruction strategies that work for K-8 classrooms. Thousand Oaks, CA: Corwin press.
- Bloom, B.S. & et. al Handbook on Formative & Summative Evaluation.

- Bloom, B.S. (1956) Taxonomy of Educational Objectives. Boston: Houghton Mifflin
- Burke, K. (2006). From standards to rubrics in six steps. Thousand Oaks, CA: Corwin press.
- Butler and Wren (1965). The teaching of Secondary School Mathematics, London.
- Cooney, T.J. and Other (1975). Dynamics of Teaching Secondary School Mathematics,
- Deepka,E.(2007).Designing assessment for mathematics.(2ndEd).Thousand Oaks,CA:Corwin Press.
- Godfrey, C & A, W. Siddons. The Teaching of Elementary Mathematics.
- Iglewicz, Boris and Stoye, Judith (1973). An Introduction to Mathematical Reasoning, New York; The Mac Millan Co.
- Malhotra,V (2007). Encyclopaedia of Modern Methods of Teaching Science. New Delhi: Crescent Publishing Corporation.
- Malhotra,V. (2006). Methods of Teaching Mathematics, New Delhi: Crescent Publishing Corporation.
- Mangal, S.K. (1984). The teaching of Mathematics, Ludhiana: R.P. Fadon Prakash brothers.
- Merrilyn goods,Ggloria Stillman and Colleen vale .Teaching secondary school mathematics-Researches and practices for the 21st century
- NCERT (2006). National Curriculum Framework for School Education 2005. New Delhi.
- NCERT. A Text Book of content – cum – methodology of Teaching Mathematics, New Delhi: NCERT.
- NCERT. Improving Instruction in Mathematics
- Pandey,S,K and Sharma, R.S (2008). Encyclopaedia of Modern Techniques of Teaching, New Delhi: Commonwealth Publishers.

- Paul Chambers .Teaching mathematics-developing as a reflective secondary teacher
- Rai, B.C. Methods of Teaching Mathematics.
- Schultze, A. The Teaching of Arithmetics in Secondary School.
- Servas, Wand T. Varga. Teaching School Mathematics – UNESCO Service Book.
- Shah, G. B., New Dimensions in the Teaching of Mathematics.
- Sharma. R. A. Teaching Learning Strategies and Mathematical Creativity.
- Sidhu, K.S. (1984). The Teaching of Mathematics, New Delhi: Sterling Publications Pvt. Ltd.
- Soman, K (1988). Ganitha Sasthra Bodhanam, Trivandrum: State Institute of Language (Kerala).
- State text books in Mathematics of Kerala , class VII to XII.
- Sumner, W.L. The Teaching of Arithmetic & Elementary Mathematics.
- Sundarajan. S. Theory and Practice of Teaching School Mathematics.
- Walton, J.A.(2005). Educational Objectives and Achievement Testing, New Delhi: Commonwealth Publishers.

EDU 204.17 : PEDAGOGICAL DIMENSIONS OF PHYSICAL SCIENCE

NO. OF CREDITS	:	3
CONTACT HOURS	:	60
MARKS	:	60(External 50 + Internal 10)
DURATION OF EXAMINATION	:	2 hours

OBJECTIVES

On completion of the course, the prospective teachers would be able to:

- endow with the significance of Taxonomy of instructional objectives of teaching Physical Science
- capacitate systematic planning of instruction and develop skill in charting lesson designs
- apprehend the pedagogy of Physical Science of Higher Secondary and Secondary level
- acquaint with practices of feedback mechanisms and online assessment tools and techniques
- acquaint with concept of techno Pedagogy and understand the role of the teacher as a techno-pedagogue
- augment the levels of teaching competence by synchronizing IT in teaching

MODE OF TRANSACTION

Lecture cum discussion, demonstration, group presentations, seminars, debates, and assignments, holding camps, brain storming sessions, and peer group discussion, Peer tutoring, Project, interaction with community, case study, educational survey and dialogue ,ICT based teaching and learning.

COURSE OUTLINE

Module 1 - Educational Objectives (15hrs)

- 1.1 Aims and objectives-meaning and distinction
- 1.2 Blooms Taxonomy of Educational objectives.revised Bloom's taxonomy-conceptual overview-.

- 1.3 Objective Based Instruction and Objective based evaluation – based on Bloom’s Taxonomy (cognitive, affective, psychomotor domain)
- 1.4 Competence Based Instruction and Competence based evaluation
- 1.5 Tripolar relation- Objective, Learning experience, Evaluation, Competence, Learning Activity, Evaluation
- 1.6 Development of Science Process skills -Yager and Mc Cormak classification of curricular objectives

Module 2 - Planning of instruction (15hrs)

- 2.1 Meaning, importance and purpose of lesson planning
- 2.2 Different types of Plans- Year Plan, Unit Plan, Lesson Plan
- 2.3 Approaches in Lesson planning - Herbartian, Constructivist approaches

Module 3 – Assessment in Physical Science learning (10hrs)

- 3.1 Construction of Achievement test and Diagnostic test
- 3.2 Teacher Evaluation–Criteria for evaluating teaching competence , self assessment.

Module 4 - Techno pedagogic Content Knowledge (10hrs)

- 4.1 Pedagogic Content Knowledge-Techno Pedagogic Content Knowledge
- 4.2 Ways and means to link Technology to Pedagogic Content Knowledge.
- 4.3 Web based learning –Blog Creation, Designing virtual class room, Use of smart board
- 4.4 Teacher as a techno-pedagogue

Module 5 - Pedagogic Analysis (10hrs)

- 5.1 Content analysis of Physical Science curriculum from standard VI-X State syllabus and selected topics from plus 2 (Current electricity, Wave and ray optics-Atoms, nuclear energy, Mechanical and thermal properties of matter- Thermo dynamics-kinetic energy and oscillation, Redox reactions, solutions and colloids, electrochemistry, Surface chemistry, Chemical bonding and molecular structure-states of matter- Hydrocarbons)

PRACTICUM (any one)

1. Analyse the content of any one unit of Std. VIII/IX/X/XI/XII of CBSE/ICSE/STATE syllabus
2. Up load a self designed innovative lesson design of your choice

3. Prepare an e-learning material based on any topic in Physical Science at Secondary School Level

REFERENCES

- AACTE committee (2008). Handbook of Technological Pedagogical Content Knowledge (TPCK) for Educators: Washington:DC, Rutledge / Taylor and Francis .
- Bhatt, B. D., Sharma S.R. (1996). Methods of teaching science. Delhi: Kanishka Publishing House.
- Chao, Lee (ed.)(2012) . Cloud computing for teaching and learning: Strategies for design and implementation: Hershey, PA, IGI Global.
- Cronbach, L. J. & Snow, R. E. (1977). Aptitude and instructional methods. New York: Irvington Publishers.
- Das, R.C. (1985). Science teaching in schools. New Delhi: Sterling Publishers. Gupta, S. K. (1983). Teaching of physical science in secondary schools. New Delhi: Sterling Publications (Pvt.) Limited.
- Frank Rennie & Tara Morrison (2013): E-learning and social networking handbook(Second Edition): New York, Routledge
- Frank Rennie & Tara Morrison (2013): E-learning and social networking handbook. Resources for higher education: NewYork, Taylor and Francis
- Heck, S. E., & William, C. R. (1984). The complex roles of the teacher. New York: Teachers College, Columbia University.
- Janie Gross Stein, Richard Stein(Ed.)(2001)Network of knowledge: Collaborative innovation in international learning: TorontoCanada, University of Toronto Press incorporated.
- John Loughran (1996). Developing reflective Practice: Learning about teaching and Learning through Modelling. London: Falmer Press
- Johnson, S. M. (1990). Teacher at work. New York: Basic Books Inc. Publishers.
- Joseph, T. T. (1982). Modern trends in science education. (2nd ed.) Kottayam,Kerala
- Joyce, B. & Weil, M. (1986). Models of teaching (3rd ed.) New Jersey : Prentice – Hall Inc.
- Kohli, V. K. (1986). How to teach science. Ambala City, Haryana: Vivek Publishers.

- Kosslyn, S. M. (1980). *Image and mind*. Cambridge, Massachusetts. Harvard University Press.
- Llewellyn, D. (2007). "Inquire within – implementing Inquiry based Science standards in Grades 3 -8, Corwin Press, CA: Thousand Oaks.
- Maitra, K. (1991). *Teaching of physics*. New Delhi: Discovery Publishing House.
- Mary, L.S.(1985). *State of the art : Transforming ideas for teaching and learning science. A guide for elementary education*, Washington, DC: United States, Dept. of education.
- Mathew , T.K., & Mollykutty, T. M. (2011). *Science education : Theoretical bases of teaching and pedagogic analysis*. Chenganoor: Rainbow Book Publishers.
- Mill, J.S (1949). *A system of logic* (8th ed.), London, Longmans, Green and Co.
- Mohan, R.(1995). *Innovative science teaching for physical Science*. New Delhi: Prentice Hall.
- N.C.E.R T. (1989). *Instructional objectives of school subjects*. New Delhi: N.C.E.R.T.
- Passi, B. K. (Ed.). (1976). *Becoming a better teacher: Micro teaching approach*. Ahmedabad: Sahitya Midranalaya.
- Rajan, K. M., Sindhu, B.S., Josen George, Siby G. Netto & Sajan , R.K. (2010).
- Rajan, K.M. (1999). *Perspectives in physical scienceteaching*. Kottayam: Vidyarthi Mithram.
- Rena M.Paloff & Keith Pratt (2009): *Assessing online learner: SanFransisco, Jossey – Bass*.
- Sharma, R. C. (1985). *Modern science teaching*. New Delhi: Dhanpat Rai & Sons.
- Singh. L. C., & Sharma , R. D. (1987).*Microteaching: Theory and Practice* (2nd Ed.). Agra: National Psychological Corporation.
- Slavin, R.E.(1995). *Cooperative Learning: Theory, Research and Practice*.(2 nd ed). Michigan: Allyn & Bacon.
- Smith & Anderson (1984). Cited in apples 4 the teacher.com articles, *Science Misconceptions Research and Some Implications for the Teaching of Science to Elementary School Students*.
- Suresh K.P. and Joseph, Celene (2012). *Teaching and Testing Science Process skills* . New Delhi: Shipra Publications .
- Teaching of Physical science: Theory, Perspectives & Practice* (2nd rev. ed.). Kottayam: St. Joseph's Training College, Mannanam.

- Thurber, W. A., & Collette, A. T. (1964). Teaching science in today's secondary school.
New Delhi; Prentice Hall Of India Limited.
- Tony Ghaye (2011). Teaching n and learning through Reflective Practice (2nd Edn.)
Newyork: Routledge
- Trowbridge, L. W. & Bybee, R. W. (1996). Teaching secondary school science.(6th ed.).
Englewood Cliffs. NJ: Prentice – Hall Inc.

EDU 205.17 : CURRICULUM AND RESOURCE DEVELOPMENT IN PHYSICAL SCIENCE EDUCATION

NO. OF CREDITS	: 3
CONTACT HOURS	: 60
MARKS	: 60 (External 50 + Internal 10)
DURATION OF EXAMINATION	: 2hrs

OBJECTIVES

On the completion of the course, the prospective teachers would be able to:

- acquaint with the concept and functions of curriculum.
- gain a perspective on the principles and approaches of curriculum construction.
- identify different types of curriculum.
- become proficient in analyzing physical science curriculum.
- familiarize the nature and functions of various instructional resources
- explore e- resources to uphill the level of teaching performance.

MODE OF TRANSACTION

Lecture cum discussion, demonstration, group presentations, seminars, debates, and assignments, holding camps, brain storming sessions, and peer group discussion, Peer tutoring, Project, interaction with community, case study, educational survey and dialogue, ICT based teaching and learning.

COURSE OUTLINE

Module 1 – Curriculum (20hrs)

- 1.1 Meaning, definitions and foundations. Curriculum Planning ,Phases.- distinction from syllabus
- 1.2 Modern trends in the construction of curriculum- Objective Based, Child centered, Activity based, Correlated, Overcoming Individual differences, Fulfilling the requirements of Higher Education, Flexible and Feasible.
- 1.3 Curriculum implementation and revision –critical evaluation of a curriculum—process

Module 2 - Curriculum Organization (10hrs)

- 2.1 Principles of Curriculum organization
- 2.2 Approaches to curriculum organization- spiral, Concentric, Movement down a long Road, The swing of a Pendulum, Historical , Topical,
- 2.3 Curriculum transaction-conceptual view-Curriculum mapping - Operationalising curriculum into learning situations-teachers role.

Module 3 - Types of Curriculum (10hrs)

- 3.1 Activity Based-Child Centered-Subject Centered -Community Based, core and hidden Curriculum
- 3.2 Differentiated Curriculum to meet individual differences
- 3.3 Major highlights of Physical Science education in NCF/KCF.

Module 4 - Learning Resources in Physical Science (10hrs)

- 4.1 Selection and development of resources
- 4.2 Library and its functions
- 4.3 Laboratory and its functions
- 4.4 e-learning resources-websites, CD's, Blogs,
- 4.5 Virtual classroom-role in Physical Science learning
- 4.6 Managing group and individual work- effective class management strategies in Physical Science learning.

Module 5 – Instructional supports- Traditional and Modern (10hrs)

- 5.1 Text Book and reference Books
- 5.2 Work Book
- 5.3 Teachers Hand Book
- 5.4 Improvised Aids- Concept and Types
- 5.5 Technological Aids-brief outline and their uses
- 5.6 Activity Aids,Hands on Experiences -significance
- 5.7. Science Journal

PRACTICUM (any one)

1. Prepare a manual to use 5 equipments in a Physical Science Laboratory or a work book for learning any one unit of Physical Science
2. Construction of an improvised aid for the teaching of any topic in Physical science up to plus two level.
3. Prepare a report on the critical evaluation of any one curriculum of your choice

REFERENCES

- Bean, J.A. (1995). Curriculum integration and the discipline of knowledge. *Phi Delta Kappan*, 76(8),616-622.
- Daniel, I.Y (2001). Improvisation and use of instructional materials in *Science teaching*, A paper presented at NCCE/UNESCO Workshop For train the trainers' workshop. Kotangora, Nigeria.
- Das, R.C. (1985). *Science teaching in schools*. New Delhi: Sterling Publishers.
- Joseph, T. T. (1982). *Modern trends in science education*. (2nd ed.) Kottayam,Kerala
- Kohli, V. K. (1986). *How to teach science*. Ambala City, Haryana: Vivek Publishers.
- Maitra, K. (1991). *Teaching of physics*. New Delhi: Discovery Publishing House.
- Mathew, T.K., & Mollykutty, T. M. (2011). *Science education : Theoretical bases ofteaching and pedagogic analysis*. Chenganoor: Rainbow Book Publishers.
- Mohan, R.(1995). *Innovative science teaching for physical Science*. New Delhi:Prentice Hall.
- Rajan, K. M., Sindhu, B.S., Josen George, Sibuh Netto & Sajan , R.K. (2010). *Teaching of Physical science: Theory, Perspectives & Practice* (2nd rev. ed.).Kottayam: St. Joseph's Training College, Mannanam.

Rajan, K.M. (1999). Perspectives in physical science teaching. Kottayam:
VidyarthiMithram.

Research and Some Implications for the Teaching of Science toElementary School
Students.

Sharma, R. C. (1985). Modern science teaching. New Delhi: Dhanpat Rai & Sons.

Teaching of school chemistry. New Delhi: Sterling / UNESCO.

Thurber, W. A., & Collette, A. T. (1964). Teaching science in today's secondaryschool.
New Delhi; Prentice Hall Of India Limited.

Trowbridge, L. W. & Bybee, R. W. (1996). Teaching secondary school science.(6thed.).
Englewood Cliffs. NJ: Prentice – Hall Inc.

EDU 204.18 : PEDAGOGICAL DIMENSIONS OF NATURAL SCIENCE

NO. OF CREDITS	: 3
CONTACT HOURS	: 60
MARKS	: 60 (External 50 + Internal 10)
DURATION OF EXAMINATION	: 2hrs

OBJECTIVES

On completion of the course, the prospective teachers would be able to:

- analyze the nature of the school subject, its relation to disciplinary knowledge.
- develop insight on taxonomy of educational objectives
- to acquaint with concept of techno Pedagogy and understand the role of the teacher as a techno-pedagogue
- develop a deeper theoretical understanding of how children in diverse and social contexts construct knowledge
- acquaint with developing year plan, unit plan, lesson plan and feedback mechanisms, assessment tools and techniques
- apply Innovative teaching-learning strategies and acquaint oneself with ICT enabled Teaching skills and competency
- analyze the content areas of Life Science Textbooks for standard VI-X

MODE OF TRANSACTION

Lecture cum discussion, demonstration, group presentations, seminars, debates, assignments, brain storming sessions, buzz Session and co-operative learning, interaction with community, case study, educational survey, ICT based teaching and learning

COURSE OUTLINE

Module 1 - Educational Objectives (15 hrs)

- 1.1 Aims and Objectives-Meaning-Distinction
- 1.2 Bloom's Taxonomy of Educational Objectives-Revised Bloom's Taxonomy-Conceptual overview-Dimensions.

- 1.3 Curricular Objectives, Instructional Objectives, Specifications and Competencies
- 1.4 Tri-polar relation - Objectives- Learning Experience - Evaluation, Competence-Learning Activity-Evaluation
- 1.5 Objective based instruction-Objective based evaluation - based on Bloom's Taxonomy (cognitive, affective, psychomotor domain)
- 1.6 Competence based instruction- Competence based evaluation
- 1.7 Science Domain - Mc Cormack and Yager's Classification

Module2 - Planning for Instruction (10hrs)

- 2.1 Need and Significance
- 2.2 Levels of Planning- Year plan- Unit plan-Lesson plan
- 2.3 Approaches in Lesson Planning- Herbartian-Constructivist-Innovative

Module 3 - Techno Pedagogical Content Knowledge (10 hrs)

- 3.1 Pedagogical Content Knowledge
- 3.2 Techno Pedagogical Content Knowledge – Scope and Challenges
- 3.3 Ways and means to link Technology to Pedagogical Content Knowledge
- 3.4 Web based learning - Blog creation, Designing virtual classroom, Smart Board
- 3.5 Teacher as a Techno - Pedagogue

Module 4 - Pedagogic Analysis of Natural Science (10hrs)

- 4.1 Content-Analysis of prescribed Biology textbooks from VI-X State syllabus

Module 5 - Assessment and Evaluation (15hrs)

- 5.1 Construction of Achievement Test and Diagnostic Test
- 5.2 Self assessment practices –Designing and Implementation of tools
- 5.3 Teacher evaluation-criteria for evaluation, preparation of self evaluation tools

PRACTICUM (any one)

1. Prepare an e-learning material based on any topic in Biology at Secondary School Level (EPC 3).
2. Prepare an e -Question Bank on any one Unit at Secondary school level (EPC3)

3. Read and Reflect on any one Secondary School Biological Science textbook and find out to what extent they satisfy the National and Global requirements (EPC1).

REFERENCES

- Alexey Semenov, UNESCO, (2005): Information and Communication Technologies in Schools: A Handbook for Teachers
- Alexis Leon and Mathews Leon Internet for Everyone (15th Anniversary Edition), New Delhi: Vikas Publishing House.
- Alexis Leon and Mathews Leon, Fundamentals of information Technology, New Delhi: Vikas Publishing House.
- Beaudin, L., and C. Hadden. 2004. Developing technopedagogical skills in preservice teachers. In Proceedings of World Conference on E-Learning in Corporate, Government, Healthcare, and Higher Education 2004, 492-498. Norfolk, VA: Association for the Advancement of Computing in Education
- Beisser, S. R., J. L. Kurth, and P. Reinhart. 1997. The teacher as learner: An undergraduate student and faculty mentorship success. AACE Society for Information Technology and Teacher Education International Conference, Orlando, FL.
- Bloom, B.S. (Ed.), Engelhart, M.D., Furst, E.J., Hill, W.H., & Krathwohl, D.R. (1956). Taxonomy of educational objectives: The classification of educational goals. Handbook 1: Cognitive domain. New York: David McKay
- Dave, R.H. (1970). Psychomotor levels. In R.J. Armstrong (Ed.), Developing and writing educational objectives (pp. 33-34). Tucson AZ: Educational Innovators Press.
- Gess-Newsome, J., and N. G Lederman. "Examining Pedagogical Content Knowledge: The Construct and its Implications for Science Education," Contemporary Trends and Issues in Science Education(2001).
- Hammill (2006) Learning ICT with Science. David Fulton Publishers, London.
- Harrow, A.J. (1972). A taxonomy of the psychomotor domain: A guide for developing behavioral objectives. New York: David McKay.
- Leon Alexis and Mathews Leon (2002). Internet in a Nutshell. New Delhi: Vikas Publishing Company.

- Malhotra, V (2007). *Encyclopaedia of Modern Methods of Teaching Science*. New Delhi: Crescent Publishing Corporation.
- Merrill, Paul F.; Reynolds, Peter L.; Christensen, Larry B.; *Computers in Education*. New York: Allyn & Bacon .
- Somekh, B. & Davis, N. (1997) *Using IT effectively in teaching and learning*. Underwood, J. (ed.) (1994) *Computer based learning: Potential into Practice*. David Fulton Publishers, London.
- Warlick, D. (2005) *Classroom Blogging: A teachers guide to the blogosphere*. Lulu.
- Wheeler, S. (2009) (Ed.) *Connected Minds, Emerging Cultures. Cybercultures in Online Learning*. Information Age Publishing, Inc, Charlotte, NC

EDU 205.18 : CURRICULUM AND RESOURCE DEVELOPMENT IN NATURAL SCIENCE EDUCATION

NO. OF CREDITS	: 3
CONTACT HOURS	: 60
MARKS	: 60 (External 50 + Internal 10)
DURATION OF EXAMINATION	: 2hrs

OBJECTIVES

On the completion of the course, the prospective teachers would be able to:

- identify various dimensions of curriculum and their relationship with the aims of education
- examine the role of the hidden curriculum and children's resilience
- decide on the curriculum best suited to address students' need and changes in society.
- develop competency in evaluating a curriculum and its elements
- critically analyse various samples of textbooks, children's literature , teacher's handbooks and e- learning resources
- utilize various resources and activities to promote effective teaching and learning.

MODE OF TRANSACTION

Lecture cum discussion, demonstration, group presentations, seminars, debates, assignments, brain storming sessions, buzz Session and co-operative learning, ICT based teaching and learning

COURSE OUTLINE

Module 1 - Curriculum Development (15 hrs)

- 1.1 Curriculum -meaning –definition -foundation
- 1.2 Curriculum Planning--Phases
- 1.3 Curriculum and Syllabus
- 1.4 Principles of Curriculum Development
- 1.5 Approaches to Curriculum Development

Module 2 - Curriculum Organisation (15hrs)

- 2.1 Principles of Curriculum Organization
- 2.2 Approaches to Curriculum Organization-Topical, Unit, Concentric, Spiral, Progressive and Regressive- Interdisciplinary
- 2.3 Curriculum Transaction- Operationalizing Curriculum into Learning Situations
- 2.4 Curriculum Mapping- Role of Teacher

Module 3 - Types of Curriculum (10hrs)

- 3.1 Activity Based-Child Centred-Subject Centred-Community Based-Core-Hidden Curriculum.
- 3.2 Differentiated Curriculum to meet Individual Differences – Giftedness - Creative Learners - Slow Learners - Under Achievers - Learning Disabled
- 3.3 Curriculum Reforms and Revisions with reference to NCF/KCF, NCERT
- 3.4 Critical Evaluation of Curriculum at Secondary School Level

Module 4 - Resources of Learning /Teaching (10hrs)

- 4.1 Library and its organization
- 4.2 Laboratory and its organization
- 4.3 e-learning resources (CD's, Websites, Online Library)
- 4.4 Virtual Classroom
- 4.5 Community Resources
- 4.6 Social Media

Module 5 - Instructional support (10hrs)

- 5.1. Text Book - Reference books, Resource unit, Supplementary Reading materials, Students Workbook - Teacher's Handbook - Journals and Periodicals
- 5.2. Audio Visual Aids - Improvised Teaching aids
- 5.3. Technological Devices
- 5.4 Activity Aids – Direct experience –Significance
- 5.5 Field trip – Science Museum - Science Fairs - Science clubs - Nature calendar - Nature rambling

PRACTICUM (any one)

1. Prepare a report on field trip organized by Natural Science class.
2. Prepare an e-Work book on any one Unit at Secondary school level (EPC3)
3. Conduct a Debate on a life science based issue and prepare a self evaluation report (EPC4)

REFERENCES

- Bean, J.A. (1995). Curriculum integration and the discipline of knowledge. *Phi Delta Kappan*, 76(8),616-622.
- Lakshmi Gadde, Bhuvanewara (2003) *Methods of teaching Life sciences*, Discovery publishers, Delhi
- NCERT (2006). *National Curriculum Framework for School Education 2005*. New Delhi.
- Passi, B. K. (Ed) (1976). *Becoming Better Teacher: A Micro Teaching Approach*. Ahamadabad: Sahithya Mudranalaya.
- Rajput, J. S. (ed.) (2002). *Experiences in School Education*. New Delhi: NCERT.
- SCERT (2008). *Kerala Curriculum Framework*. Thiruvananthapuram
- Sharma, J.P. (2000). *National Curriculum Frame work for School Education: A discussion document*. New Delhi: NCERT.
- Sharma, R. C. (1985). *Modern science teaching*. New Delhi: Dhanpat Rai & Sons.
- Skinner, B. F. (1968). *The Technology of Teaching*. New Jersey: Prentice Hall.
- Taylor D. J. and others (2004) *Biological science*, Cambridge university press, London
- Tiwari.D.(2007). *Encyclopaedia of Modern methods of Teaching* , New Delhi: Crescent Publishing Corporation.
- Trowbridge, L. W. & Bybee, R. W. (1996). *Teaching secondary school science*.(6th ed.). Englewood Cliffs. NJ: Prentice- Hall Inc.

EDU 204.19: PEDAGOGICAL DIMENSIONS OF SOCIAL SCIENCE

NO. OF CREDITS	:	3
CONTACT HOURS	:	60
MARKS	:	60 (External 50 + Internal 10)
DURATION OF EXAMINATION	:	2 hours

OBJECTIVES

On completion of the course, the prospective teachers would be able to:

- analyze the nature of the school subject, its relation to disciplinary knowledge and its social history as a subject in the school curriculum.
- explore pedagogical approaches for the teaching of the subject at different stages of school
- develop a deeper theoretical understanding of how children in diverse and social contexts construct knowledge
- apply innovative teaching-learning strategies and acquaint oneself with ICT enabled teaching
- examine the possibilities of Multimedia for learning and instruction.
- analyze the content areas of Social Science Textbooks for Standard VI-X
- practice diverse methods and prepare tools for assessing an array of learning/performance outcomes of diverse learners.

MODE OF TRANSACTION

Lecture cum discussion, demonstration, group presentations, seminars, debates, assignments, brain storming sessions, Buzz Session and Co-operative learning , interaction with the community, case study, and educational survey ,ICT based teaching and learning

COURSE OUTLINE

Module 1- Educational Objectives (15 hours)

- 1.1. General Objectives
- 1.2. Learning Taxonomy – B. S.Bloom (Revised), krathwohl and Dave
- 1.3. Instructional Objectives and specifications
- 1.4. Tri-polar relation- Objectives-Learning Experience-Evaluation

- 1.5. Objective based instruction-Objective based evaluation
- 1.6. Competence based instruction- Competence based evaluation

Module 2- Planning for Instruction (10 hrs)

- 2.1. Need and Significance of planning
- 2.2. Levels of Planning- Year plan- Unit plan-Lesson plan
- 2.3. Approaches in Lesson Planning- Herbartian- Constructivist and Innovative

Module 3 - Techno Pedagogical Content Knowledge (15 hrs)

- 3.1. Technology-Pedagogy-Content
- 3.2. Techno Pedagogical Content Knowledge
- 3.3. Teacher as a techno pedagogue
- 3.4. Multimedia Learning in Social Science -Multimedia Equipments and Uses
- 3.5. E-content development in Education-meaning, significance

Module 4- Pedagogic Analysis of Social Science (10 hrs)

- 4.1. Content-Analysis of Prescribed Textbooks from VI –X for State syllabus

Module 5 - Evaluation (10 hrs)

- 5.1 Construction of an Achievement Test and Diagnostic test
- 5.2 Self assessment practices-Designing and Implementation of tools
- 5.3 Teacher evaluation-criteria for evaluation, preparation of self evaluation tools

PRACTICUM (any one)

1. Prepare an e-learning material based on any topic in Social Science at Secondary School Level (EPC 3).
2. Prepare a report on the existing evaluation system in the schools following Kerala State Syllabus
3. Develop an innovative lesson plan in Social Science and evaluate your teaching performance by peer group (EPC4).

REFERENCES

- Ahmed, E. (1972). Coastal Geomorphology of India. New Delhi: Orient Longman.
- Bining, Arthur and Bining, H.D (1952). Teaching the Social Studies in Secondary Schools. New York: McGraw Hill Book Co. Inc.

- Bloom, B. S. (1956). *Taxonomy of Educational Objectives: Cognitive Domain*. New York: David McKay Co.
- Chapman, F. N. (1967). *Forest Types of India*. Dehra Dun: Indian Forest Records.
- Cornwell, R. D. (1985). *World History in the Twentieth Century*. England: Longman.
- Das, P. K. (1968). *The Monsoons*. New Delhi: National Book Trust of India.
- Ediger, M. (2004). *The importance of Social Studies*. Experiments in Education
- Fenton, E. (1966). *Teaching Social Studies in Secondary Schools*. London: Holt, Rinehart & Winston, Inc.
- Gansser, Augusto (1964). *Geology of the Himalayas*. London: Inter Science Pub. of John Wiley.
- Gautam, N. C. & Narayanan, L. R. A. (1988). *Waste Lands in India*. Mathura: Pink Pub. House.
- Joshi, P. S., Gholkar S.V. (1983). *History of Modern India*. N. Delhi: S.Chand & Company Ltd.
- Kaur, Dhian & Chandana, R. C. (ed.) (2006). *The Earth*: Ludhiana: Kalyani Publishers.
- Kochhar, S. K. (2001). *The Teaching of Social Studies*. N. Delhi: Sterling.
- Kumar, Sudheesh, P.K. & Noushad, P.P.(2006). *Social Studies in the Class Room: Trends and Methods*. Calicut University: Scorpio Publishers & Distributors.
- Majumdar, R. C., Raychaudhuri, H.C. & Datta, Kalikinkar (1967). *An Advanced History of India*. New York. Macmillan.
- Mangal, S. K. & Mangal, Uma (2008). *Teaching of Social Studies*. New Delhi: PHI Learning. Private Limited.

EDU 205.19 : CURRICULUM AND RESOURCE DEVELOPMENT IN SOCIAL SCIENCE EDUCATION

NO. OF CREDITS	:	3
CONTACT HOURS	:	60
MARKS	:	60 (External 50 + Internal 10)
DURATION OF EXAMINATION	:	2 hours

OBJECTIVES

On completion of the course, the prospective teachers would be able to:

- identify the various dimensions of curriculum and their relationship with the aims of education
- examine the role of the hidden curriculum and children's resilience
- decide on the curriculum best suited to address students' need and changes in society.
- develop competency in evaluating a curriculum and its elements
- critically analyse various samples of textbooks, children's literature , teacher's handbooks and e- learning resources
- utilize the various resources and activities to promote effective teaching and learning.

MODE OF TRANSACTION

Lecture cum discussion, demonstration, group presentations, seminars, debates, assignments, brain storming sessions, and peer group discussion, interaction with community, case study, and Educational survey and dialogue, ICT based teaching and learning

COURSE OUTLINE

Module 1- Curriculum Development (10 hrs)

- 1.1. Meaning -Definition
- 1.2. Curriculum and syllabus
- 1.3. Functions and foundations of curriculum
- 1.4. Principles of Curriculum Development
- 1.5. Approaches to Curriculum Development

Module 2-Curriculum Organization (15 hrs)

- 2.1. Factors contributing to Curriculum Organization
- 2.2. Approaches to Curriculum Organization-Topical, Unit, Concentric, Spiral, Progressive and Regressive
- 2.3. Curriculum Mapping- Role of Teacher

Module 3 - Types of Curriculum (10 hrs)

- 3.1. Activity Based-Child Centred-Subject Centred-Community Based-Core-
Hidden
- 3.2. Differentiated Curriculum to meet Individual Differences- Gifted- Creative
Learners-Slow Learners- -Under Achievers-Learning Disabled
- 3.3. Curriculum Reforms and Revisions with reference to NCF/KCF, NCERT
- 3.4. Critical Evaluation of New Curriculum at Secondary School Level

Module 4 - Resources of Learning /Teaching (15 hrs)

- 4.1. Library and its organization
- 4.2. Laboratory and its organisation
- 4.3. Community Resources –Significance, Types, Role of teacher in enhancing
PTA and in utilizing community resources
- 4.4. Archaeological Sources-Significance of ARPA of 1979
- 4.5. Field trip-Museum-Social Science club
- 4.6. E- learning Resources in Social Science-Smart Classroom, Virtual
Classroom Web- based learning, Edublog

Module 5- Instructional Support (10hrs)

- 5.1. Text Book-significance-criteria of a good social science textbook-
Workbook
- 5.2. Teacher's Handbook-Journals and Periodicals
- 5.4. Supplementary Reading materials
- 5.3. Audio Visual Aids-Improvised Teaching aids

PRACTICUM (any one)

1. Make a Short film on current issues with live, real models (EPC2).
2. Critically analyze the role of technology in teaching and learning of Social
Science (EPC3).
3. Create a blog and publish your article in it (EPC3).

REFERENCES

- Crowder, N.A. (1959). Action Research to Improve School Practices. New York: Columbia University.
- Edigar, M. & Rao, B. (2003). Teaching Social Studies Successfully. New Delhi: Discovery Pub. House.
- Passi, B. K. (Ed) (1976). Becoming Better Teacher: A Micro Teaching Approach. Ahamadabad: Sahithya Mudranalaya.
- Rajput, J. S. (ed.) (2002). Experiences in School Education. New Delhi: NCERT.
- SCERT (2008). Kerala Curriculum Framework. Thiruvananthapuram
- Sharma, J.P. (2000). National Curriculum Frame work for School Education: A discussion document. New Delhi: NCERT.
- Skinner, B. F. (1968). The Technology of Teaching. New Jersey: Prentice Hall.
- Vashist, S.R. (2004) Theory of Social Studies .New Delhi: Anmol Pub. Pvt. Ltd.
- Veenakumari, B. and Rao Digumarti, Baskara. (2006). Methods of Teaching Social Studies. N. Delhi: Discovery Pub. House.

SEMESTER III

ASSOCIATE COURSE

EDU 301 : LANGUAGE ACROSS THE CURRICULUM

NO. OF CREDITS	: 3
CONTACT HOURS	: 60
MARKS	: 60 (External 50 + Internal 10)
DURATION OF EXAMINATION	: 2 hours

OBJECTIVES

On completion of the course, the prospective teacher would be able to:

- create sensitivity to the language diversity that exists in the classrooms.
- understand models of language teaching and learning
- develop competence in analysing current school practices and coming up with appropriate alternatives.
- appreciate interdisciplinary approach and relevance of classroom oral and written discourses.
- develop strategies for using language to promote learning in the subject area.
- effectively prepare teaching manuals and construct achievement tests and diagnostic tests, ICT based teaching and learning.

MODE OF TRANSACTION

Lecture cum demonstration, problem solving, brain- storming session, group discussion, case- study, interaction with community, projects and power point presentations, language lab sessions, micro teaching, test construction case study, survey and dialogue ,ICT based teaching and learning.

COURSE OUTLINE

Module 1 – Language Across the Curriculum: Conceptual Analysis (10 Hours)

- 1.1 Language Across the Curriculum (LAC): Concept
- 1.2 Origins of the LAC concept
- 1.3 Language and Thinking

1.4 Basic Tenets of LAC

1.5 Multilingualism: Understanding the language background of students, first or second language users of the language used in teaching the subject. multilingualism in the classroom home language and school language, power dynamics of the 'standard' language as the school language vs home language, dialects, Deficit theory (Eller, 1989); Discontinuity theory.

Module 2 – Models of Language learning (10 hours)

2.1 Content and Language Integrated Learning (CLIL)

2.2 Bilingual teaching

2.3 LSP/ESP (Language/English for Specific Purposes)

2.4 Academic Language Teaching

Module 3 – Features and issues of Content and Language Integrated Learning (CLIL) (10 hours)

3.1 Definition and Rationale

3.2 Need and Scope

3.3 CLIL – content-subject methodology

3.4 The Advantages and Limitations of CLIL

3.5 Educational Implications of CLIL in Kerala context

Module 4 – Pedagogy of reading and writing across the curriculum (20hrs)

4.1 Classroom discourse: Oral and Written- nature, strategies for promoting learning in the subject area

4.2 Oral language: discussion as a tool for learning; the nature of questioning in the classroom – types of questions and teacher control.

4.3 Written language: reading comprehension in the content areas (informational reading). Writing in specific content areas with familiarity of different registers

4.4 Reading in the content areas – social sciences, science, mathematics; Nature of expository texts vs. narrative texts; transactional vs. reflexive texts

4.5 Schema theory , text structures

4.6 Study Skills: Examining content area textbooks; reading strategies for children – note-making, summarizing; making reading-writing connections; process

writing; analyzing children's writings to understand their conceptions; writing with a sense of purpose – writing to learn and understand.

Module 5 – Teaching units in Language across the Curriculum (10 hours)

- 5.1 Planning Lessons
- 5.2 Implementation
- 5.3 Assessment

PRACTICUM (any one)

1. Prepare a Teaching Manual for Teaching Language Across the Curriculum.
2. Prepare an achievement test/assessment tool for a unit in Language Across the Curriculum.
3. Prepare an Year Plan and a Unit Plan for a grade in your subject for Language Across the Curriculum.

REFERENCES

- CLIL Compendium www.clilcompendium.com European Commission - Languages www.europa.eu.int EuroCLIC. www.euroclil.net
- D. Coyle, P. Hood, and D. Marsh (2010). CLIL: Content and Language Integrated Learning Cambridge University Press 2010, 173 pp., £23.70 ISBN 978 0 521 13021 9
- David Graddol(2006).English Next.British Council.UK.
- Ena Harrop(2012). Content and Language Integrated Learning (CLIL):
- Helmut Johannes Vollmer(2006) . Language Across the Curriculum (LAC).University of Osnabrück, Germany
- Limitations and possibilities. Encuentro, 21, 2012, ISSN 1989-0796, pp. 57-70
- Smala, S. (2009) Introducing: Content and Language Integrated Learning (CLIL) (forthcoming, September, Vol 17, Number 3). New Literacies in a Globalised World.
- Steve Darn(2006).Content and Language Integrated Learning. Izmir University of Economics, Turkey

DETAILS OF PRACTICAL COURSES ARE DESCRIBED IN CLAUSE VI

SEMESTER IV

CORE COURSES

EDU 401: GENDER, SCHOOL AND SOCIETY

NO. OF CREDITS	:	5
CONTACT HOURS	:	100
MARKS	:	100 (External 80 + Internal 20)
DURATION OF EXAMINATION :		3hrs

OBJECTIVES

On completion of the course, the prospective teachers would be able to:

- develop basic understanding and familiarity with key concepts – gender, gender bias, gender stereotype, empowerment, gender parity, equity and equality, patriarchy and feminism;
- understand the gradual paradigm shift from women's studies to gender Studies and some important landmarks in connection with gender and education in the historical and contemporary period;
- learn about gender issues in school, curriculum, textual materials across disciplines, pedagogical processes and its intersection with class, caste, religion and region; and
- understand how gender, power and sexuality relate to education (in terms of access, curriculum and pedagogy).

MODE OF TRANSACTION

Lecture cum discussion, demonstration, group presentations, seminars, debates, assignments, brain storming sessions, peer group discussion, interaction with community, case study, survey and dialogue, ICT based teaching and learning

COURSE OUTLINE

Module 1 - Gender Issues: Key Concepts (15 hours)

- 1.1 Concepts and terms related to gender - sex, gender, sexuality, patriarchy, masculinity and feminism.
- 1.2 Gender bias, gender stereotyping, and empowerment.
- 1.3 Equity and equality in relation with caste, class, religion, culture, ethnicity.

- 1.4 Role of family, caste, religion, culture and media in equipping the pupil and their respective gender roles in society.

Module 2 - Gender Studies: Paradigm Shift (15 hours)

- 2.1 Paradigm shift from women's studies to gender studies
- 2.2 Status of women – Historical perspective - Social reform movements - Ethnicity disability, and marginalization of women in India – Highlights to Kerala context.
- 2.3 Important constitutional and legal provisions for women in India
- 2.4 Contemporary period: Recommendations of policy initiatives - commissions and committees, schemes, programmes and plans.

Module 3 - Gender and Education (25 hours)

- 3.1 Theories on Gender and Education - Socialisation theory, Gender difference, Structural theory and Deconstructive theory
- 3.2 Gender Identity and Socialisation Practices: Role of Family, Schools, peer group, community and other formal and informal organisation.
- 3.3 Schooling of Girls: Inequalities and resistances in education of the girl child. Government initiatives for promoting education of girls.

Module 4 - Gender Issues in Curriculum (20 hours)

- 4.1 Gender, culture and institution: Interrelation of class, caste, religion and region
- 4.2 Curriculum and the gender issues
- 4.3 Gender and the hidden curriculum
- 4.4 Teacher as an agent of change
- 4.5 Gender and family life education

Module 5- Gender Issues in the Society (25 hours)

- 5.1 Linkages and differences between reproductive rights and sexual rights
- 5.2 Areas of conflict: Social and emotional
- 5.3 Impact of social media on the life of students
- 5.4 Understanding the importance of addressing sexual harassment in family, neighbourhood and other formal and informal institutions
- 5.5 Agencies perpetuating violence: Family, school, work place and media (print and electronic)
- 5.6 Institutions redressing sexual harassment and abuse – National, State and School levels- Child Protection -Right to Protection
- 5.7 Gender and ethics.

PRACTICUM (any one)

1. Prepare a report on any of the government initiatives for care and security of women in our society.
2. Organise and prepare a report of a debate on Equity and Equality cutting across Gender.
3. Conduct a news paper analysis on atrocities against women and girl children.

REFERENCES

- Aggarwal J. C. (1998). *Theory and principles of education, Philosophical and Sociological bases of education*, New Delhi: Vikas Publishing House.
- Aggarwal J.C. (1997). *School Organization and Administration Management*, New Delhi : Doaba House, Book Sellers and Publishers.
- Alka Kalra (1977). *Efficient School Management and Role of Principles*, APH Publishing Corporation, New Delhi.
- Anand C. L. & et al. (1983). *The teacher and education in the emerging Indian Society*, New Delhi: N.C.E.R.T.
- Anderson, R.J., Spiro and W.E. Montanaque (eds) *Schooling and the acquisition of knowledge* (PP. Hillsdale, NJ: Erlbaum.
- Bans, J.A. (1996), *Cultural diversity and education: Foundations curriculum and teaching* (4th ed.) Boston: Allynand, Becon.
- Beyer, L.E. (Ed.) (1996) *Creating democratic classrooms: The struggle to integrate theory and Practice*. New York: Teachers College Press.
- Bhatnagar, RP and Agarwal, V (1986). *Educational Administration and Management*, Loyal Book Depot, Meerut.
- Broudy, H.S. (1977) *Types of knowledge and purposes of education*. In R.C.
- Bruner, J.S. (1996), *The Culture of education*. Cambridge, M.A.: Harward University Press.
- Butchvarov, P. (1970) *The Concept of knowledge*. Evanston, Illinois, North Western University Press.
- Dash B.N. (2002). *Teacher and education in the emerging Indian society* (2 volumes). Hyderabad: Neelkamal Publications.

- Dearden R. F. (1984). *Theory and practice in Education*. Routledge K Kegan & Paul.
- Debra Heyes, Martin Hills, Pam Chistie and Bob Lingard (2007) *Teachers and schooling: Making a Difference*, Allen and Unwin, Australia.
- Delors, Jacques, et al; (1996). *Learning: The Treasure within report of the international commission on education for 21st century*, UNESCO.
- Dewey John (1900). *The School and Society*. Chicago: The university of Chicago Press.
- Dewey, J. (1916/1977): *Democracy and Education: An introduction to the philosophy of education*. New York: Macmillan.
- Freire, Paulo (1970). *Pedagogy of the oppressed*. New York: Continuum.
- George Z. F. Bereday (1964). *Comparative method in education*. New Delhi: Oxford & IBH Publishing Co.
- Gore M.S. (1994). *Indian Education – Structure and Process*, New Delhi; Rawat publishers.
- Humayun Kabir (1959). *Education in new India London*: George Allen & Unwin Ltd.
- Jagnannath Mohanty (1998). *Modern trends in Indian education*. New Delhi: Deep and Deep Publications.
- James S. Ross. (1952). *Ground works of educational theory* - George G. Harrap & Co. Ltd.
- Kohli.V.K. (1987). *Indian Education and its problems*. Haryana: Vivek Publishers.
- Mary Joseph & Thomas, P.J (2010) *Philosophical and Sociological Bases of Education*.
- Matheson, David (2004). *An Introduction to the study of education* (2nd edition). David Fulton Publish.Slaterry, Patrick and Dana Rapp.
- MHRD, (1992), *Programme of action*. Govt. of India, New Delhi.
- MHRD, Gov. of India (1992), *National policy on education* (revised) New Delhi.
- Naik J. P. (1998). *The Education Commission and after*, New Delhi: Publishing Corporation.
- Naik, J.P. (1975) *Equality, quality and quantity: The elusive triangle of Indian education*, Allied Publications, Bombay.
- National curriculum framework for school education* (2000 & 2005). N.C.E.R.T.
- NCERT (2005). *National curriculum framework*, New Delhi.
- NCTE (2000) *Human Rights and Indian Values*, New Delhi.
- NCTE (2009) *National Curriculum Framework for Teacher Education*, New Delhi.
- New Trends in Secondary education*. (1961). N.C.E.R.T. New Delhi.

- Palmer, Joy A, (2001). *Fifty Modern thinkers on education: From Piaget to the present Day*. Routledge Flamer. London. USA. Canada.
- Peters, R. S. (1967). *The Concept of Education*. New York: Humanities Press.
- Peters, R.S. (ed), (1975). *The Philosophy of education*. Oxford University Press, London.
- Purkait B. R. (2000). *Principles and practices of education India*: New Central Book Agency.
- Rai B.C. (2001). *History of Indian Education*. Lucknow: Prakashan Kendra.
- Report of secondary Education Commission*. Kothari, D. S. (1965). New Delhi : Ministry of Education.
- Robert. B. Wagner (1989). *Accountability in education*. London: Routledge.
- Safaya, R and Shaida, BD (1977). *Administration and Organization*, Dhanpat Rai and Sons, Delhi.
- Sharma R. A. (1993). *Teacher education, Theory, Practice and Research*. Meerut : International Publishing house.
- Singh L. C. (1990). *Teacher education in India*. N.C.E.R.T.
- Sivadasan Pillai K., (1998). *Vidyabhyasam*, Trivandrum., Kalanikethan.
- Sivarajan K. (2001). *Trends and developments in modern educational practice Kerala*: Calicut University.
- Suresh Bhatnagar (1984). *Kothari Commission Recommendations and Evaluation with a text on N. P. E*. Meerut: Loyal Book Depot.
- Sushi T et al (1980). *Approaches to School Management*, London: Harper & Row.
- Taneja, V. R. (2003). *Educational Thoughts and Practice*. New Delhi: Sterling Publishers.
- Thankachan T.C., (2009) *Philosophical and Sociological Bases of Education*, V. Publishers
- Venkataih, N (1993). *Curriculum Innovations for 2000*, New Delhi: Ashish Publishing House.
- Yati, Nitya Chaithanya (2002) *Parivarthanonmugha Vidhyabhyasam*, Kottayam; Current Books.

402: PERSONALITY DYNAMICS IN EDUCATION

NO. OF CREDITS	:	5
CONTACT HOURS	:	100
MARKS	:	100 (External 80 + Internal 20)
DURATION OF EXAMINATION:		3hrs

OBJECTIVES

On completion of the course, the prospective teachers would be able to:

- understand the relevance of Intelligence, IQ, EQ, and SQ in learning and teaching.
- understand the characteristics of mature personality
- understand the different approaches to personality
- acquaint with psychological tests for measuring human behaviour
- understand the concept of intelligence
- acquainted with various tests related to intelligence, attitude and aptitude
- apply the principles of eco-psychology in conservation of natural resources
- help learners develop proper attitude towards outdoor education
- understand the significance of life-skills in leading a successful and happy life
- understand the basic principles and issues related to Inclusive education
- acquaint with experience related to inclusive education

MODE OF TRANSACTION

Lecture –cum-demonstration, Seminar, Assignment, Peer learning strategies, Community visit, Brain storming , Debate, Group discussion, Problem-solving , Scenario-based learning strategies and survey method, ICT based teaching and learning

COURSE OUTLINE

Module 1 - Cognitive Variables in Learning (25 hours)

- 1.1 Intelligence – meaning and definition –Emotional Intelligence and spiritual intelligence
- 1.2 Concept of IQ, EQ and SQ. Strategies for promoting EQ and SQ

- 1.3 Brief description of theories of intelligence – Two factor theory (Spearman), Structure of Intellect (Guilford) and Multiple Intelligence (Howard Gardner).
- 1.4 Categories of Intelligence tests – uses and limitations of intelligence testing
- 1.5 Meaning ,nature and difference between Attitude, Aptitude and Interest
- 1.6 Testing of Attitude, Aptitude and Interest- Attitude scales, GATB &DAT, Interest Inventories
- 1.7 Significance and implications of attitude scales, aptitude tests and inventories in class room teaching and learning

Module 2 - Personality of the Learner (20 hrs)

- 2.1 Personality – definition, meaning and nature
- 2.2 Mature /Integrated personality – characteristics
- 2.3 Assessment of personality – objective, subjective and projective techniques
- 2.4 A brief description of Personality disorders
- 2.5 Theories of personality – Psychoanalytic theory (Freud), Lewin’s concept on personality, Introversion/extroversion by Jung

Module 3 - Identifying the Self (20 hrs)

- 3.1 Self concept- meaning and concept
- 3.2 Developing self-concept, self esteem, self confidence and self efficacy in learners
- 3.3 Carl Roger’s theory of self-actualizing tendency
- 3.4 Concept and significance of Life skills education

Module 4 - Nurturing through Nature (10 hrs)

- 4.1 Role of Experiential learning and Outdoor education
- 4.2 Role of nature in nurturing personality of learners
- 4.3 Eco-psychology

Module 5 - Inclusive Education (25 hrs)

- 5.1 Definition, concept and significance of Inclusive education
- 5.2 Education of children with special needs(CWSN)
- 5.3 Difference between special education, integrated education and inclusive education

- 5.4 Significance of inclusive education for the education of all children in the context of right to education
- 5.5 Issues and problems in Inclusive education
- 5.6 Teacher preparation for Inclusive education – developing attitudes and competencies for inclusion.

PRACTICUM (any one)

1. Conduct a survey on attitude towards inclusive education among peers and report it.
2. Documentation of psychological articles in journals, news papers, magazines etc
3. Field visit to a place of environmental importance to develop eco-psychological awareness and submission of a report.

REFERENCES

- Adams, D. and Hamm, M. (1994). *New Designs for Teaching & Learning: Promoting active learning in tomorrow's schools*. San Francisco: Jossey-Bass Publishers.
- Anderman, E., & Corno, L. (Eds.). (2013). *Handbook of educational psychology*. Routledge.
- Ausubel, D. P., Novak, J. D., & Hanesian, H. (1968). *Educational Psychology- A Cognitive View*. New York: Holt, Rinehart and Winston, INC.
- Bandura, A. (1977). *Social Learning Theory*. Cliff, N.J; Prentice Hall.
- Bentley, Michael L. et al (2007). *Teaching constructivist science: Nurturing natural investigators in the standards-based classroom*. California: Corwin Press.
- Bhargava, M. (1964). *Introduction to Exceptional Children*. Sterling Publishers Pvt Ltd., New Delhi.
- Bigge, M. L., & Hunt, M. P. (1968). *Psychological foundations of education: an introduction to human development and learning*. Harper & Row
- Bischof, Ledford. (1970), **Interpreting Personality Theories**, London: Harper and Row Publishers.
- Bonnes, Mirilia and Secchiaroli, Gianfranco. (1995). *Environmental Psychology*. New Delhi: Sage Publications.
- Bower, G. and Hilgard E.A. (1981), *Theories of Learning (5th Edn.)* New York: Prentice Hall, Englewood Cliffs.

- Bower, G.H. and Hilgard, E.R. (1981) *Theories of learning*. Prentice Hall, Inc. Englewood cliffs, New Jersey.
- Bruner, J.S. (1977). *Process of Education*, Harward University press,
- Buzan, T. (2002). *The Power of Spiritual Intelligence: 10 ways to tap into your spiritual genius*. Australia: Harper CollinsZohar,
- Chapman, S. etal. (1992). What is Experiential Education? *The Journal of Experiential Education*. 15(2), 16-23.
- Chauhan, S.S (2006) *Advanced Educational Psychology* New Delhi : Vikas Publishing House.
- Clark, Robert W. etal(2010). *The Potential of Experiential Learning Models and Practices in career and technical teacher education*. Cited in *Journal of Career and Technical Education*. Vol. 25, No.2, pp 48.
- Crow.L.D & Crow Alice(2008) *Human Development and Learning*, New Delhi, Surjeet Publications.
- Dadhich, L.K., (2003). Emerging challenges in value based Environmental Education. *Journal of Value Education*, Vol. 3, No. 2, July 2003, NCERT.
- Daniel Goleman 'Working with Emotional Intelligence 1998.
- Ebel, R.L. (1969). *Outdoor Education*. Encyclopeadia of educational research (4th ed.). London: The Macmillan Company, pp. 921-924.
- Emmons, R. (1999). *The psychology of Ultimate concerns: Motivation and spirituality in personality*. New York: Gillford.
- Freeberg, W.H; & Taylor, L.E (2011). *Philosophy of Outdoor Education*. New Delhi: Sarup Book Publishers Pvt. Ltd.
- Gardner, Howard.(1999). *Intelligence, Reframed: Multiple Intelligences for the 21st century*.Newyork; Basic Books.
- Goleman, Daniel: *Emotional Intelligence*, Bantam books 1995
- Hilgard, R Ernest and Gordon, H Bower (1977). *Theories of learning* (4th ed.). New Delhi : Printice Hall of India
- Knapp, E. Clifford. (1996). *Just Beyond the Class room*. West Virginia :ERIC.
- Kolb, D. (1984) *Experiential Learning: Experience as the source of Learning and development*. New Jersey: Prentice Hall, Inc.
- Kuppusamy B (1964), *Advanced Educational Psychology*, Sterling Publication Co., New Delhi.

- Luckner, L John & Nadler S Reldan (1997). “*Processing the Experience: Strategies to enhance generalize learning*”. Kendall/Hunt publishing company.
- Mangal, S.K (1997) *Advanced Educational Psychology* New Delhi Prentice Hall of India.
- Maslow, A.H. (1970). *Motivation and Personality* (2nd edition). New York: Harper & Row.
- McShane, J. (1991), *Cognitive Development: An Information Processing Approach*, Oxford: Basil Blackwell.
- Piaget, J. and Inhelden, B. (1969). *Psychology of the child*, New York: Basic Books.
- Roy, Rajarshi. (2008). *Beyond Curriculum, Pedagogy and Teachers Training for Environmental Education*. New Delhi: Shipra Publishers.
- Saxena, A.B. (2003). Promoting Environmental Values through New approaches in schools. *Journal of Value Education*, Vol. 3, No.2, July 2003, NCERT.
- Sheldon K.M., abd L.King. Why positive psychology is necessary? *American Psychologist*, 2001.
- Vaughan, F. (2002). What is Spiiritual Intelligence? *Journal of Humanistic Psychology*, 42, pp 16-33.
- Zohar, D and Marshall, I(2000). *Connecting with Spiritual Intelligence*.Newyork: Bloomsbury Publishers.

PEDAGOGIC COURSES

EDU 403.11 : PROFESSIONAL DEVELOPMENT OF AN ENGLISH TEACHER

NO. OF CREDITS	: 3
CONTACT HOURS	: 60
MARKS	: 60 (External 50 + Internal 10)
DURATION OF EXAMINATION	: 2 hours

OBJECTIVES

On completion of the course, the prospective teachers will be able to:

- develop personal and professional competencies as a teacher.
- handle challenges in language education with responsibility.
- direct the mode of teaching in a professional manner.
- reflect on practices in promoting values and humane attitudes.
- handle classes effectively as a techno- pedagogue.
- understand the challenges in teaching English with reference to political, social, cultural and linguistic factors.

MODE OF TRANSACTION

Lecturing, Discussion, Debates, Investigative learning, Problem-based learning, Web-based learning, Cooperative learning, Seminars, Debates, Assignments, Peer group discussion, Interaction with community, Case study, Survey, Dialogue, ICT based teaching and learning.

COURSE OUTLINE

Module I – Teacher Qualities & Competencies (15hrs)

- 1.1 Vision and Mission of a Language Teacher
- 1.2 Essential qualities, duties & responsibilities of an English Teacher in the emerging society.
- 1.3 Professional ethics of a teacher- need for accountability

- 1.4 Teacher competencies- their importance

Module 2- Professional Development of an English teacher (10 hrs.)

- 2.1 Professional development- meaning & significance
- 2.2 Ways and means of developing professional competencies –in-service programmes – participation in seminars and workshops
- 2.3. Role of professional organizations – online teacher networks
- 2.4. E-twinning

Module 3- Teacher as a Reflective Practitioner (10 hrs)

- 3.1 Reflective Practice: Definition, significance and implications.
- 3.2 Reflective practices in instruction, assessment and class-management

Module 4- Dealing with special issues & concerns (15hrs)

- 4.1 Factors affecting language transaction in classrooms(political, social, cultural, linguistic) in relation to changing needs of society
- 4.2 Building a humane & value-oriented society
- 4.3 Need for enhancing global language competencies in teachers.

Module 5- Research Perspectives (10 hours)

- 5.1 Recent research trends in English language education,
- 5.2 New trends in teaching students with diverse learning needs & talents

PRACTICUM (any one)

1. Conduct a survey to assess the problems faced by English teachers in schools.
2. Prepare a report on the instructional practices followed in teaching English at the State & CBSE schools.
3. Prepare your personal mission and vision statements as a teacher.

REFERENCES

- Bolter, J.D. (1991). *Writing space: The computer, hypertext, and the history of writing*. New Jersey: Lawrence Erlbaum.
- Carpenter, George R. & Baker, Franklin T. (1999). *Handbook of English teaching*. New Delhi: APH Publishing Corporation.
- Gee, J.P. (2003). *What video games have to teach us about learning and literacy*. New York: Palgrave Macmillan.
- Goodman, Sharon & O'Halloran, Kieran. (2006). *The art of English: Literary Creativity*. New York: Palgrave Macmillan.
- Honigsfeld, Andrea & Dove, Maria G. (2013). *Common core for the not-so-common learner*. California: Corwin.
- Johnston, Bill. (2003). *Values in English language teaching*. New Jersey: Lawrence Erlbaum Associates, Publishers.
- Lado, Robert. (1964). *Language teaching: A scientific approach*. Bombay: Tata McGraw-Hill Publishing Co. Ltd.
- Landow, G.P.(1997). *Hypertext 2.0: The convergence of contemporary critical theory and technology*. Baltimore: John Hopkins University Press.
- Larsen, D.F. (2000). *Techniques and Principles of Language Teaching*. Oxford:Oxford University Press.
- Naiman, N., &Frohlich, M. et al. (1978). *The good language learner*. Toronto: Ontario Institute for Studies in Education.
- Perkins, D. (1995). *Smart schools: From training memories to educating minds*. New York: Free Press.
- Restak, R.M. (2003). *The new brain: How the modern age is rewiring your mind*. New York: Rodale Press.
- Robertson, I. (2000). *Mind sculpture: Unlocking your brain's untapped potential*. New York: Fromm International.
- Robinson, K. (2001). *Out of our minds: Learning to be creative*. Oxford: Capstone Publishing.
- Sousa, D. (2001). *How the brain learns: a classroom teacher's guide*. Thousand Oaks, CA: Corwin Press.

EDU 403.12 : PROFESSIONAL DEVELOPMENT OF MALAYALAM TEACHER

NO. OF CREDITS	: 3
CONTACT HOURS	: 60
MARKS	: 60 (External 50 + Internal 10)
DURATION OF EXAMINATION	: 2 hours

OBJECTIVES

On completion of the course, the prospective teachers would be able to:

- develop Professional and Personal self as a Malayalam teacher
- create and widen the popular base for human values, namely freedom, trust, mutual respect, respect for diversity, etc
- develop the special concern of Mother tongue as a unique means to Promote Nationalism, Universalism and Secularism
- identify and resolve the major challenges faced by our Mothertongue And make use of the knowledge in nurturing/equipping the learner to face those challenges

MODE OF TRANSACTION

Lecture cum discussion, demonstration, group presentations, seminars, debates, assignments, brain storming sessions, and peer group discussion, interaction with community, case study, and Educational Survey and Dialogue, Theatre techniques, ICT based teaching and learning

COURSE OUTLINE

Module 1-Vision and Mission (15 hrs)

- 1.1 Vision and Mission as a Teacher - Preparation of Teacher Portfolio
- 1.2 Qualities , Competencies and Professional ethics of a Teacher
- 1.3 Teacher Competencies-Contextual, Conceptual, Curricular and Content, Transactional, Assessment, Management (Institution, Classroom, Resources, Co-Curricular Activities) Parental Contact and Co-operation and Community Extension

Module 2 -.Professional Development (15 hrs)

- 2.1. Meaning-Significance

- 2.2. Continuous Professional Development-Need, Effects and Stages (Reflection, Identification of Needs, Learning Activity and Change in Practice)
- 2.3. Teacher as a Reflective Practitioner
- 2.4. Ways and means of developing Professionalism
- 2.5. Agencies for Professional development of teachers
- 2.6. Professional Ethics of a Teacher –Obligation towards Students, Parents, Community and Society ,Profession and Colleagues

Module 3- Teacher and Society (10hrs)

- 3.1. Agent of Social Change
- 3.2. The Teacher and Modernisation
- 3.3. Science, Technology, Values and the New Role of the Teacher

Module 4 - Special Issues and Concerns (10 hrs)

- 4.1 Challenges of learning Malayalam
- 4.2. Malayalam as its classical position
- 4.3. Social Media in the Classroom
- 4.4. Role of mother tongue in promoting nationalism and internationalism

Module 5 – Challenges in Classroom (10 hrs)

- 5.1. Promoting of Culturally Inclusive Classroom Environment
- 5.2. Implementation of Teacher Competence to Optimizing Learners Development of intellectual, Emotional and Moral Aspects

PRACTICUM (any one)

1. Formulate your own vision and mission as a Malayalam teacher (EPC4)
2. Construct a tool for continuous self evaluation for understanding yourself as a teacher (EPC4)
3. Prepare a lesson plan which promote nationalism among secondary school students

REFERENCES

- Banks, J. A. (1994) *Multiethnic Education: Theory and Practice*. Needham Heights, MA: Allyn & Bacon.
- Bromley, K. D. (1998). *Language art: Exploring connections*. Needham Heights, MA: Allyn & Bacon
- Crowder, N.A. (1959). *Action Research to Improve School Practices*. New York: Columbia University.

- Fitchman & Silva (2003). *The Reflective Educators' Guide to Classroom Research*.
California: Corwin Press, Inc.
- Garcia, E. (1994). *Understanding and meeting the challenge of student cultural diversity*.
Boston: Houghton Mifflin.
- Gollnick, D. M., & Chinn, P. C. (2001) *Multicultural Education in a Pluralistic Society*.
New York: Prentice Hall.
- Moody, M. (2010). Teaching Twitter and Beyond: Tip for Incorporating Social Media in
Traditional Courses. *Journal of Magazine & New Media Research* 11(2): pp. 1-9.
- National Commission for Protection of Child Rights . ncpcr.gov.in/
- Passi, B. K. (Ed) (1976). *Becoming Better Teacher: A Micro Teaching Approach*.
Ahamadabad: Sahithya Mudranalaya.
- 'Teacher and Society' Report of the National Commission on Teachers-1 1983-85.
- Westwood, M. J., Mak, A. S., Barker, M., & Ishiyama, I. (2000). Group procedures and
applications for developing sociocultural competencies among immigrants.
International Journal for the Advancement of Counselling, 22(4), 317-330.
- Wlodkowski, R. J., & Ginsberg, M. B. (1995). A framework for culturally responsive
teaching, *Educational Leadership*, 53(1), 17-21.
- Woods, P. R., Barker, M. C., & Daly, A. (2004). *Teaching intercultural skills in the
multicultural classroom*. Paper presented at the 4th Annual International
Conference on Business, Honolulu, June 21-24.
- www.childlineindia.org.in/rights.htm
- www.ijern.com/journal/September-2013/
- www.unicef.org/crc/index_protecting.html

EDU 403.16: PROFESSIONAL DEVELOPMENT OF MATHEMATICS TEACHER

No. OF CREDITS	: 3
CONTACT HOURS	: 60
MARKS	: 60 (External 50 + Internal 10)
DURATION OF EXAMINATION	: 2 hours

OBJECTIVES

On completion of the course the prospective teacher would be able to :

- cognize with the essential qualities, duties and responsibilities of Mathematics Teacher.
- mould to endorse the professional spirit in diverse angles.
- tone up with the rudiments of reflective practices for nurturing professionalism
- conscientize with the recent research trends in Mathematics education
- inculcate a broader perspective on the varied activities enriching Mathematics Teaching and learning.
- shape their vision and mission as a professional

MODE OF TRANSACTION

Lecture cum discussion, demonstration, group presentations, seminars, debates, and assignments, holding camps, brain storming sessions, and peer group discussion, Peer tutoring, Project, interaction with community, case study, educational survey and dialogue, ICT based teaching and learning.

COURSE OUTLINE

Module 1 - The Mathematics Teacher (15 hours)

- 1.1 Vision and Mission as a Mathematics Teacher
- 1.2 Essential qualities, Duties and responsibilities.
- 1.3 Teacher accountability-need for professionalism
- 1.4 Teacher as facilitator, researcher, and social resource-conceptual view
- 1.5 Teacher competencies –contextual, conceptual, curricular, transactional, assessment, management, extension

Module 2 - Professional Growth of Mathematics Teacher(10 hours)

- 2.1 Teacher as a professional- Characteristics,Ethics
- 2.2 Professional development – Needs ,Effects -Continuous professional development
- 2.3 Ways and Means of Developing Professionalism
 - In service Programme
 - Professional Organisation
 - Participation in Seminars and workshop
 - Published Work
 - Peer networking
 - E-twinning
- 2.4 Soft skills development –role in professionalism

Module 3 - Teacher as a Reflective Practitioner(10 hours)

- 3.1 Reflective Teaching-conceptual Overview, cycle, models
- 3.2 Reflective Practices in instruction, assessment, class management-significance
- 3.3 Meeting the challenges in mathematics teaching- role of reflection

Module 4 – Research trends in mathematics education (15 hours)

- 4.1 Recent researches in mathematics learning with special emphasis to instructional strategies and assessment practices.
- 4.2 New Trends in teaching students with diverse learning needs and talents.
- 4.3 Social and Cultural Issues in Mathematics Education-brief overview

Module 5 – Mathematics for All (15 hours)

- 5.1 Activities enriching Mathematics learning
 - Mathematics Club
 - Mathematics Contests and Fares, Mathematical Olympiad, Field trip
- 5.2 Recreational Mathematics
 - Games, Puzzles and riddles

PRACTICUM (any one)

1. Reflect on any one article in the domain of mathematics teaching and learning (EPC1).

2. Reflect on your experiences as a Mathematics teacher during internship and post it in e-platform (EPC3).
3. Prepare a drama script on any topic of your choice to enrich mathematics learning (EPC2).

REFERENCES

- Aiyankar, Kuppuswami. The Teaching of Mathematics.
- Anderson, L. (2006). Taxonomy academy handbook. Retrieved July, 2006, from <http://www.andersonresearchgroup.com/tax.tyml>.
- Anderson, L., & Krawth Wohl, D.E. (2001). A taxonomy for learning, teaching and assessing: A revision of Bloom's taxonomy of educational objectives (Abridged). New York: Addison Wesley Longman, Inc.
- Andrews, J.J.W, Saktofski, D.H. & Janzen, H.L. (2001). Handbook of psycho educational assessment. Academic press.
- Apple, M.V. (2000). Mathematics reform through conservative modernization: Standards, markets and inequality in education. Reported by Boaler, J. (Ed). Multiple perspectives on mathematics teaching and learning. 243-259, West Port, CT: Ablex.
- Artz, A.G., & Armour -Thomas, E. (2001) .Becoming a reflective mathematics teacher: A guide for observations and self-assessment. Mehweh, N.L. Lawrence Erlbaum Associates
- Barell, J. (2007). Problem based learning (IIEd.). Thousand Oaks, CA: Corwin press.
- Barrows, H.S. (1986). A taxonomy of problem based learning methods. Medical Education, 20, 481-486.
- Bella, N.J. (2004). Reflective analysis of student work. Thousand Oaks: CA. Corwin Press.
- Bender, W.N. (2005). Differentiating Math instruction strategies that work for K-8 classrooms. Thousand Oaks, CA: Corwin press.
- Bloom, B.S. & et. al Handbook on Formative & Summative Evaluation.

- Burke, K. (2006). From standards to rubrics in six steps. Thousand Oaks, CA: Corwin press.
- Butler and Wren (1965). The teaching of Secondary School Mathematics, London.
- Cooney, T.J. and Other (1975). Dynamics of Teaching Secondary School Mathematics,
- Deepka,E.(2007).Designing assessment for mathematics.(2ndEd).Thousand Oaks,CA:Corwin Press.
- Iglewicz, Boris and Stoye, Judith (1973). An Introduction to Mathematical Reasoning, New York; The Mac Millan Co.
- Kincheloe, J. (2008). Critical Pedagogy (2nd Edn). New York: Peter Lang.
- Korner, S. The Philosophy of Mathematics, New York; Herper Torch Books, the science Library
- Mangal, S.K. (1984). The teaching of Mathematics, Ludhiana: R.P. Fadon Prakash brothers.
- Merrilyn goods,Ggloria Stillman and Colleen vale .Teaching secondary school mathematics-Researches and practices for the 21st century
- NCERT (2006). National Curriculum Framework for School Education 2005. New Delhi.
- NCERT. A Text Book of content – cum – methodology of Teaching Mathematics, New Delhi: NCERT.
- NRC, (2001) National Research Council. Mathematics learning study: Center for Education, Division of Behavioural and Social Sciences and Education, Adding it up: Helping children learn mathematics. Edited by J. Kilpatrick et al., Washington, DC: National Academy Pre<http://www.edel.edu/pbl>
- Pandey,S,K and Sharma, R.S (2008). Encyclopaedia of Modern Techniques of Teaching, New Delhi: Commonwealth Publishers.
- Paul Chambers .Teaching mathematics-developing as a reflective secondary teacher
- Shah, G. B., New Dimensions in the Teaching of Mathematics.
- Sharma. R. A. Teaching Learning Strategies and Mathematical Creativity.

Soman, K (1988). Ganitha Sasthra Bodhanam, Trivandrum: State Institute of Language (Kerala).

State text books in Mathematics of Kerala , class VII to XII.

Sundarajan. S. Theory and Practice of Teaching School Mathematics.

Walton, J.A.(2005). Educational Objectives and Achievement Testing, New Delhi: Commonwealth Publishers.

EDU 403.17: PROFESSIONAL DEVELOPMENT OF PHYSICAL SCIENCE TEACHER

NO. OF CREDITS	: 3
CONTACT HOURS	: 60
MARKS	: 60 (External 50 + Internal 10)
DURATION OF EXAMINATION	: 2 hours

OBJECTIVES

On completion of the course, the prospective teacher would be able to:

- cognize with the essential qualities, duties and responsibilities of Physical Science Teacher.
- mould to endorse the professional spirit in diverse angles.
- tone up with the rudiments of reflective practices for nurturing professionalism
- conscientize with the recent research trends in Science education
- Inculcate a broader perspective on the varied activities enriching
- science Teaching and learning.
- shape their vision and mission as a professional

MODE OF TRANSACTION

Lecture cum discussion, demonstration, group presentations, seminars, debates, and assignments, holding camps, brain storming sessions, and peer group discussion, Peer tutoring, Project, interaction with community, case study, educational survey and dialogue., ICT based teaching and learning

COURSE OUTLINE

Module 1 - The Physical Science Teacher (15 hours)

- 1.1 Vision and Mission as a Teacher
- 1.2 Essential qualities, Duties and responsibilities.
- 1.3 Teacher accountability-need for professionalism
- 1.4 Teacher competencies –contextual,conceptual,curricular,and context,transactional,assessment,management, extension
- 1.5 Teacher as a facilitator, researcher and social resource- Conceptual View

Module 2 - Professional Growth of Physical Science Teacher(10 hours)

- 2.1 Teacher as a professional- Characteristics,Ethics
- 2.2 Professional development – Needs ,Effects -Continuous professional development
- 2.3 Ways and Means of Developing Professionalism
 - In service Programme
 - Professional Organisation
 - Participation in Seminars and workshop
 - Published Work
 - Peer networking
 - E-twinning
- 2.4 Soft skills development –role in professionalism

Module 3 - Teacher as a Reflective Practitioner(10 hours)

- 3.1 Reflective Teaching-conceptual Overview.
- 3.2 Reflective Practices in instruction,assessment,Class management-significance
- 3.3 Meeting the challenges in Science teaching- role of reflection

Module 4 – Research trends in Science education (15 hours)

- 4.1 Recent researches in Science learning with special emphasis to instructional strategies and assessment practices.
- 4.2. Teaching students with diverse learning needs and talents-New trends
- 4.3 Capacitating on Technology in Science teaching: ways and means
- 4.4 Social and Cultural Issues in Science Education-conceptual overview

Module 5 – Physical Science for All (10 hours)

- 5.1 Activities enriching Physical Science learning
 - Physical Science Club
 - Physical Science Contests and Fares, Science Olympiad, Field trip
- 5.2 Recreational Physical Science
 - Games, Puzzles and riddles

PRACTICUM (any one)

1. Reflect on any one article in the domain of Science teaching and learning (EPC1).

2. Reflect on your experiences as a Physical Science teacher during internship and post it in e-platform (EPC3).
3. Prepare a drama script on any topic of your choice to enrich Science learning (EPC2).

REFERENCES

- AACTE committee (2008). Handbook of Technological Pedagogical Content Knowledge (TPCK) for Educators: Washington:DC, Rutledge / Taylor and Francis .Chao, Lee (ed.)(2012) . Cloud computing for teaching and learning: Strategies for design and implementation: Hershey, PA, IGI Global.
- Frank Rennie & Tara Morrison (2013): E-learning and social networking handbook(Second Edition): New York, Routledge
- Frank Rennie & Tara Morrison (2013): E-learning and social networking handbook. Resources for higher education: NewYork, Taylor and Francis
- Gupta, S. K. (1983). Teaching of physical science in secondary schools. New Delhi: Sterling Publications (Pvt.) Limited.
- Janie Gross Stein, Richard Stein(Ed.)(2001)Network of knowledge: Collaborative innovation in international learning: Toronto Canada, University of Toronto Press incorporated.
- John Loughran (1996). Developing reflective Practice: Learning about teaching and Learning through Modelling. London: Falmer Press
- Mary, L.S.(1985). State of the art : Transforming ideas for teaching and learningscience. A guide for elementary education, Washington, DC: United States,Dept. of education.
- Mathew, T.K., & Mollykutty, T. M. (2011). Science education : Theoretical bases of teaching and pedagogic analysis. Chenganoor: Rainbow Book Publishers.
- Mohan, R.(1995). Innovative science teaching for physical Science. New Delhi:Prentice Hall.
- Rajan, K. M., Sindhu, B.S., Josen George, Siby G. Netto & Sajan , R.K. (2010).Teaching of Physical science: Theory, Perspectives & Practice (2nd rev. ed.).Kottayam: St. Joseph's Training College, Mannanam.
- Rajan, K.M. (1999). Perspectives in physical scienceteaching. Kottayam: VidyarthiMithram.

- Rena M. Palloff & Keith Pratt (2009): *Assessing online learner*: San Francisco, Jossey
–Bass.
- Sharma, R. C. (1985). *Modern science teaching*. New Delhi: Dhanpat Rai & Sons.
- Smith and Anderson (1984). Cited in apples 4 the teacher.com articles,
Science Misconceptions Research and Some Implications for the Teaching of
Science to Elementary School Students.
- Suresh K.P. and Joseph, Celene (2012). *Teaching and Testing Science Process skills* .
New Delhi: Shipra Publications .
- Thurber, W. A., & Collette, A. T. (1964). *Teaching science in today's secondary
school*. New Delhi; Prentice Hall Of India Limited.
- Tony Ghaye (2011). *Teaching n and learning through Reflective Practice (2nd Edn.)*
Newyork: Routledge
- Trowbridge, L. W. & Bybee, R. W. (1996). *Teaching secondary school
science.(6thed.)*. Englewood Cliffs. NJ: Prentice – Hall Inc.

EDU 403.18 : PROFESSIONAL DEVELOPMENT OF NATURAL SCIENCE TEACHER

NO. OF CREDITS	: 3
CONTACT HOURS	: 60
MARKS	: 60 (External 50 + Internal 10)
DURATION OF EXAMINATION	: 2 hours

OBJECTIVES

On the completion of the course, the prospective teachers would be able to:

- develop professional and personal self
- inculcate the essential qualities, duties and responsibilities of a Natural Science Teacher
- create and widen the base for human values, namely freedom, trust, mutual respect, respect for diversity, etc
- develop the special concern of Science as a means to Promote Nationalism, Universalism and Secularism
- analyse different dimensions of social reality in the class, and work towards creating increasing self-awareness amongst themselves and in the learners
- identify and resolve the major challenges faced by our society and make use of the scientific knowledge in nurturing/equipping the learner to face those challenges

MODE OF TRANSACTION

Lecture cum discussion, demonstration, group presentations, seminars, debates, assignments, brain storming sessions, buzz Session and co-operative learning , ICT based teaching and learning

COURSE OUTLINE

Module 1 - Natural Science Teacher (15 hrs)

- 1.1 Vision and Mission as a Natural Science Teacher
- 1.2 Teacher accountability-need for professionalism
- 1.3 Qualities, Responsibilities and Duties
- 1.4 Teacher Competencies –Contextual, Conceptual, Curricular and Content, Transactional, Assessment, Management (Institution,

Classroom, Resources, Co Curricular Activities) Parental contact and Co operation and Community Extension.

Module 2 - Professional Development (15hrs)

- 2.1 Professional Development – Meaning and Significance – Continuous professional development – Need , Effects and Stages (Reflection, Identification of needs, Learning activity, Change in practice)
- 2.2 Reflective Teaching – Meaning and Conceptual overview
- 2.3 Teacher as a Reflective Practitioner
- 2.4 Ways and Means of Developing Professionalism
- 2.5 Agencies for Professional Development- In service Programmes- Professional Organisations - Participation in Seminars and workshops - Published Work - Peer networking – soft skill development
- 2.6 Professional Ethics of a Teacher –Obligation towards Students, Parents, Community and Society , Profession and Colleagues

Module 3 - Natural Science Teacher and Society (10hrs)

- 3.1 Agent of Social Change
- 3.2 Role in Socialization - Promotion of Culturally inclusive classroom environment
- 3.3 Science, Technology, Values and the New Role of the Teacher

Module 4 - Special Issues and Concerns (10hrs)

- 4.1 Green Genetic Engineering
- 4.2 Food safety
- 4.3 Personalised Medicines - 3D Bioprinting,
- 4.4 Bioterrorism

Module 5 - Challenges in Teaching (10hrs)

- 5.1. Recent Research Trends in Science teaching and learning in schools – Content, Techniques, Strategies, Assessment
- 5.2 Teaching students with diverse learning needs and talents-New trends
- 5.3 Promoting Attitudes and Values among the learners
- 5.4 Implementation of Teacher Competence to Optimizing learners’ development of Intellectual, Emotional and Moral aspects

PRACTICUM (any one)

1. Prepare a personalized report on a news bulletin connected with life science.
2. Create a blog and publish your article on any one of social issues you have noticed (EPC3).
3. Conduct a Quiz Programme and prepare a self evaluation report (EPC4).

REFERENCES

- Atwater, MA. 1995. The multicultural science classroom. Part 11: Assisting all students with science acquisition. *The Science Teacher*, pp. 42-43.
- Brophy, J. (1999). Perspectives of classroom management: Yesterday, today, and tomorrow. In H. J. Freiberg (Ed.), *Beyond behaviorism* (pp. 44–55). Needham Heights, MA: Allyn and Bacon.
- Cartwright, L. (2011) ‘How consciously reflective are you?’, in McGregor, D. and Cartwright, L. *Developing Reflective Practice: A guide for beginning teachers*, Open University Press.
- Crowder, N.A. (1959). *Action Research to Improve School Practices*. New York: Columbia University.
- Das, R. C. (1985). *Science Teaching in Schools*, Sterling Publication Innovation in Teacher Education, Science Teacher Education Projects (STEP) Mac Graw Hills, New York.
- Fitchman & Silva (2003). *The Reflective Educators’ Guide to Classroom Research*. California: Corwin Press, Inc.
- Ganzer, T. (Ed.) (2000). Ambitious visions of professional development for teachers [Special Issue]. *National Association for Secondary School Principals*, (84)618
- Hobson, A. (2002) ‘Student teachers’ perceptions of school-based mentoring in initial teacher training (ITT)’, *Mentoring and Tutoring: Partnership in Learning*, vol. 10, no. 1, pp. 5–20.
- Loughran, J. (2010). *What EXPERT teachers do: Enhancing professional knowledge for classroom practice*. Crowsnest. Allen and Unwin
- Lowman, J (1995). *Mastering the Technique of Teaching*. Second Edition, San Fransico.

**EDU 403.19 : PROFESSIONAL DEVELOPMENT OF
SOCIAL SCIENCE TEACHER**

NO. OF CREDITS	: 3
CONTACT HOURS	: 60
MARKS	: 60 (External 50 + Internal 10)
DURATION OF EXAMINATION	: 2 hours

OBJECTIVES

On completion of the course, the prospective teachers would be able to:

- develop Professional and Personal self
- create and widen the popular base for human values, namely freedom, trust, mutual respect and respect for diversity
- develop the special concern of Social Science as a unique means to Promote Nationalism, Universalism and Secularism
- analyze different dimensions of social reality in the class, and work towards creating increase of self-awareness amongst themselves and in the learners.
- identify and resolve the major challenges faced by our society and make use of the knowledge in nurturing/equipping the learner to face those challenges
- appreciate the rich cultural heritage of India
- develop Research Aptitude to promote an in-depth study on the different areas of the Subject

MODE OF TRANSACTION

Lecture cum discussion, demonstration, group presentations, seminars, debates, assignments, brain storming sessions, and peer group discussion, interaction with community, case study, and Educational Survey and Dialogue, Theatre techniques, ICT based teaching and learning

COURSE OUTLINE

Module 1-Teacher Qualities and Competency (10 hrs)

- 1.1. Essential Qualities, Duties and Responsibilities
- 1.2. Teacher Competencies-Contextual, Conceptual, Curricular and Content, Transactional, Assessment, Management (Institution, Classroom, Resources,

Co-Curricular Activities) , Parental Contact and Co-operation and Community Extension

- 1.3. Vision and Mission as a Teacher - Preparation of Teacher Portfolio

Module 2 -.Professional Development (15 hrs)

- 2.1. Professional Development-Meaning-Significance
- 2.2. Continuous Professional Development-Need, Effects and Stages (Reflection, Identification of Needs, Learning Activity and Change in Practice)
- 2.3. Teacher as a Reflective Practitioner
- 2.4. Soft skills development and Professionalism
- 2.5. Ways and means of developing Professionalism
- 2.6. Agencies for Professional development of teachers
- 2.7. Professional Ethics of a Teacher

Module 3- Multifaceted Role of Teacher (10hrs)

- 3.1. Agent of Social Change
- 3.2. Teacher and Modernisation
- 3.3. Science, Technology, Values and the New Role of the Teacher

Module 4 – Dealing with Special Issues and Concerns (15hrs)

- 4.1. Controversial issues in Social Science
- 4.2. Current Events
- 4.3. Consumer Education
- 4.4. Right to Information Act-meaning and significance
- 4.5. National Integration
- 4.6. Indian Architecture-Protection and Preservation of National Heritage
- 4.7. International Understanding

Module 5 - Research in Social Science (10)

- 5.1. Research-Meaning-Significance
- 5.2. Types of research in Social Science-Basic Research-Applied Research-Action Research
- 5.3. Paradigms in Research- Quantitative Research and Qualitative Research
- 5.4. Recent Research Trends in Social Science Education

PRACTICUM (any one)

1. Relate a topic to current day social issues like Gender Sensitivity/ Child Abuse, Cyber Crime etc., and Prepare a Drama/ ‘street play ‘script (EPC 2).

2. Get involved with a mentor teacher programme or a teacher on special assignment programme to get your performance and professionalism evaluated on the 360 degree evaluation scale. (EPC4).
3. Conduct a case study based on a monument in your locality and submit a report on its protection and preservation.

REFERENCES

- Banks, J. A. (1994) *Multicultural Education: Theory and Practice*. Needham Heights, MA: Allyn & Bacon.
- Bromley, K. D. (1998). *Language art: Exploring connections*. Needham Heights, MA: Allyn & Bacon
- Crowder, N.A. (1959). *Action Research to Improve School Practices*. New York: Columbia University.
- Edigar, M. & Rao, B. (2003). *Teaching Social Studies Successfully*. New Delhi: Discovery Pub. House.
- Fitchman & Silva (2003). *The Reflective Educators' Guide to Classroom Research*. California: Corwin Press, Inc.
- Garcia, E. (1994). *Understanding and meeting the challenge of student cultural diversity*. Boston: Houghton Mifflin.
- Gollnick, D. M., & Chinn, P. C. (2001) *Multicultural Education in a Pluralistic Society*. New York: Prentice Hall.
- Moody, M. (2010). Teaching Twitter and Beyond: Tip for Incorporating Social Media in Traditional Courses. *Journal of Magazine & New Media Research* 11(2): pp. 1-9.
- National Commission for Protection of Child Rights . ncpcr.gov.in/
- Passi, B. K. (Ed) (1976). *Becoming Better Teacher: A Micro Teaching Approach*. Ahamadabad: Sahithya Mudranalaya.
- 'Teacher and Society' Report of the National Commission on Teachers-1 1983-85.
- Westwood, M. J., Mak, A. S., Barker, M., & Ishiyama, I. (2000). Group procedures and applications for developing sociocultural competencies among immigrants. *International Journal for the Advancement of Counselling*, 22(4), 317-330.
- Wlodkowski, R. J., & Ginsberg, M. B. (1995). A framework for culturally responsive teaching, *Educational Leadership*, 53(1), 17-21.

Woods, P. R., Barker, M. C., & Daly, A. (2004). *Teaching intercultural skills in the multicultural classroom*. Paper presented at the 4th Annual International Conference on Business, Honolulu, June 21-24.

www.ijern.com/journal/September-2013/

www.unicef.org/crc/index_protecting.html

EDU 404.5 : COMMUNICATIVE ENGLISH

NO. OF CREDITS	:	2
CONTACT HOURS	:	40
MARKS	:	50 (Internal Assessment)

OBJECTIVES

On completion of the course, the prospective teachers would be able to:

- work with a set of materials to provide them with the necessary skills to comprehend and produce written and oral ‘texts,’
- build on active knowledge of lexical resources and grammar in English
- enhance the latent vocational skills through intensive training in developing proficiency in English language .
- develop communicative skills in various contexts.
- contribute to the personal social and professional development.

MODE OF TRANSACTION

Discussions, seminars, debates, co-operative learning, brain-storming, dumb charades, role play, Just-a-minute, drama, writing tasks including letter-writing, preparation of resumes, group discussion, case- study, interaction with community, projects and power point presentations, language lab sessions, micro teaching, test construction case study, survey and dialogue, ICT based teaching and learning.

COURSE OUTLINE

Module 1 – Orientation to English language (8 hrs)

- 1.1 Understanding the spirit of English Language
- 1.2 Remedial Grammar and Applied Phonetics

Module 2- Oral Communication (8hrs)

- 2.1. **Listening Skill** : Listening Comprehension of discourses like Conversation
- 2.2. **Speaking Skill** : Oral Training for classroom communication

Module 3- Written Communication (8hrs)

- 3.1. **Reading Skill:** Reading Comprehension of discourses, Paragraph, Letter, Essay , Memo, Circular, Notice, Cover Letter, Resume, Summary, Précis, Speech and Graph.
- 3.2. **Writing skill:** Mechanics of writing, Copy writing , Creative Writing: Paragraph, Letter, Essay, Memo, Circular, Notice, Cover Letter, Resume, Summary, Précis, Speech and Graph.

Module 4 - Functional Writing (8 hrs)

- 4.1. **English For Teachers:** Reflective journal writing, reporting, writing reviews, logs.
- 4.2. **For Placement :** Preparation of resumes, job applications, Self- introduction, Facing an interview, Telephonic conversations, e-mail transactions.
- 4.3. **At Work :** Preparation of projects reports, thesis and research papers and presentations: text organisation, point of view, register and style, editing skills, paraphrasing, summarising, descriptive composition and argumentative composition

Module 5 - Soft Skills and Social Skills (8hrs)

- 5.1. **Interpersonal skills :** Exposure to Public Speaking, Event Management and Language related Computer Skills , Print Media, Advertisements , Translations, Mass Communication and Broadcasts (Radio, T.V. & Cinema,) web materials, telecasts, blogs podcasts and vodcasts.
- 5.2. **Travel English Language Skills :** Communication in a variety of social situations like restaurant, at the airport, In the market etc.
- 5.3. **Public Relations:** Business Communication , Office Communication for business, dealing with Clients and Customers, Public Interaction and Business reports.

PRACTICALS (any Two)

1. Prepare a script for compeering a formal school function.
2. Draft a resume for the purpose of employment.
3. Conduct a debate based on a relevant topic.
4. Prepare a reflective journal entry based on one's own experience.
5. Collect a list of terminology related to other disciplines other than one's own.

REFERENCES

- Allen, R.H. (2002). *Impact teaching: Ideas and strategies for teachers to maximize student learning*. Boston, MA: Allyn&Bacon.
- Bandler, R. (1988). *Learning strategies: Acquisition and conviction*. Boulder, CO: NLP Comprehensive.
- Baer, A. (2004). 'Call me e-mail'. www.nytimes.com/2004/04/15/technology/circuits/15nove.html
- Bex, T. (1996). *Variety in Written English: Texts in Society – Society in texts*, London, Routledge.
- Derrida, J. (1978). *Writing and difference*. Chicago: Chicago University Press.
- Jensen, E. (2000). *Brain-based learning: The new science of teaching and training*. Thousand Oakes, CA: Corwin Press.
- Kress, G. & Van Leeuwen, T. (2001). *Multimodal Discourse: The modes and media of contemporary communication*, London, Arnold.
- Lewis, Norman. (1987). *Better English*. New Delhi: W.R. Goyal Publishers & Distributors.
- Lewis, D. (2001). *Reading Contemporary Picturebooks: Picturing text*, London, Routledge.
- Mahony, David. (2010). *Fundamentals of English*. New Delhi: Viva Books Private Limited.
- Mentkowski and Associates. (2000). *Learning that lasts: Integrating learning, development and performance in college and beyond*. San Francisco: Jossey-Bass.
- Ong, W. (1982). *Orality and Literacy: The technologizing of the word*, London, Methuen.
- Reid, J. (1998). *Understanding learning styles in the second language classroom*. New York: Prentice-Hall.
- Silver, H.E. & Hanson, J.R. (1998). *Learning styles and strategies* (3rd ed.). Woodbridge, NJ: The Thoughtful Education Press.
- Sperber, D. & Wilson, D. (1995). *Relevance: Communication and cognition*, 2nd edition, Oxford, Blackwell.
- Spratt, Mary. (1996). *English for the Teacher: A Language Development Course*. Australia: Cambridge University Press.
- Swan, Michael. (2006). *Practical English Usage*. New Delhi: Oxford University Press.

COURSE : HEALTH AND PHYSICAL EDUCATION

COURSE CODE:

EDU107.3-Semester I

EDU206.3 -Semester II

EDU302.3 -Semester III

EDU404.3 -Semester IV

TOTAL CREDITS: 5

TOTAL MARKS: 100 (Internal 100)

OBJECTIVES

On completion of the course, the prospective teachers would be able to

- plan and implement a variety of developmentally appropriate instructional strategies to develop physically educated individuals
- demonstrate understanding of how individuals learn and develop and can provide opportunities that support students' physical, cognitive, social, and emotional development.
- develop and reinforce cooperative behaviour
- establish lifelong fitness goals

SEMESTER 1

EDU107.3

No. of CREDITS: 1

TOTAL MARKS: 20

CONTACT HOURS: 20

PRACTICAL (Internal 20 Marks)

College Based Activities

- Demonstration of various Yogic Asanas/Meditation
- (Procedure of any two Asanas) - Record - 10 marks
- Survey on health practices/ issues (Group/Individual) - Report -10 marks

SEMESTER II
EDU206.3

No. of CREDITS: 1

TOTAL MARKS: 20

CONTACT HOURS: 20

Module –1

- 1.1 Intramural Competition-Definition-Objectives
- 1.2. Extramural competition-Definition-Objectives
- 1.3. Organizing and Conducting a sports meet- Pre Meet work- Meet work- Post meet work
- 1.4 Track and Field events -Long jump - Rules and Regulation - Shot put - Rules and Regulation
- 1.5 Recreational Games: Aims and objectives – Recreation

PRACTICAL (Internal 20 Marks)

College Based Activities

- Particiaption one outdoor and one indoor / Minor games - Report - 10 marks
- Module I - Record - 10 marks

SEMESTER III

EDU302.3

No. of CREDITS: 2

TOTAL MARKS: 40

CONTACT HOURS: 40

PRACTICAL (Internal 40 Marks) -School Based Activities

- Physical Education-Lesson Plan and class @ 3- 15 Marks (5 each)
- Health Education Lesson Plan and class @2- 10 Marks (5 each)
- Yoga Lesson Plan and Class@ 3- 15 marks (5 each)

SEMESTER IV

EDU404.3

No. of CREDITS: 1

TOTAL MARKS: 20

CONTACT HOURS: 20

Module 1

- 1.1 First Aid- significance- First Aid for Burns- Electric shock- Snake bites- Wounds - Drowning – Sprain – Strain - Cramp - Fainting - Dislocation, Fracture - Artificial Respiration - Cardio Pulmonary Resuscitation (CPR)
- 1.2 Major games – Volleyball - Rules and Regulations with Diagram - Shuttle Badminton- Rules and Regulations with Diagram

PRACTICAL (Internal 20 Marks) - College Based Activities

- Credible participation in games (Major/Minor) and Sports -
Minimum Two events - Report 10 marks
 - Module I - Record 10 marks

COURSE : DRAMA AND ART IN EDUCATION (EPC2)

COURSE CODE:

EDU107.4-Semester I

EDU206.4 -Semester II

EDU302.4 -Semester III

EDU404.4 -Semester IV

TOTAL CREDITS: 4

TOTAL MARKS: 80 (Internal 80)

TOTAL CONTACT HOURS: 80

OBJECTIVES

On completion of the course, the prospective teachers would be able to

- appreciate India' s largest collections of songs, music, dance, theatre, folk traditions, performing arts, rites and rituals, paintings and writings, literature that are known, as the 'Intangible Cultural Heritage' (ICH) of humanity.
- integrate the school curriculum with various domains of knowledge as envisaged by NCF 2005
- evaluate significant role of Art, Music ,Drama and Theatre in Education
- Interlink education with culture and nurture children's creativity and aesthetic sensibilities
- move beyond the classroom and involve the community to participate in educational and social change
- expand the landscapes of children's art, perceive their world and explore ways to assess their work.

- Internalize the understanding generated in a group and is carried forward by the individual in diverse personal and social contexts

MODE OF TRANSACTION

- Lecture method and Practices in classroom and outside-Individual and group work
- Visit places of art, exhibitions and cultural festivals
- Classroom interactions with Art teachers and Performing artists
- Hot Seating
- Use community resources -Artists, craftsmen, performers may be invited to speak about different art forms and to conduct demonstration classes
- Interpret art works, movies and other media
- Workshops on art and crafts, theatre, music, musical instrument making, pottery, leatherwork, dance, animation, puppetry etc.
- Conduct exhibition on Art
- Any other activities that build trust and co operation, the sense of responsibility and team spirit.

SEMESTER 1

NO. OF CREDITS : 1

TOTAL MARKS: 20

CONTACT HOURS : 20

MODULE I

1. Introduction to Art and Art forms of India and Kerala
2. Significance of visual arts in Education- painting, drawing ,sculpture, architecture ,craft, photography, video, film making, graphic design and decorative art
3. Performing Arts in Education -Music ,Dance ,Drama and Theatre- Practice and apply the techniques of performing arts to enhance classroom teaching
4. SUPW-meaning and significance
5. Role of teacher in promoting aesthetic sense in students

College Based Activities

1. Theatre Practice - Participation in Workshop/training - Report and script- 10 marks
2. Designing and Performance of different art/ Creative writing @1 -- Report /product -5 marks
3. SUPW: Handwork-Jewellery making, Embroidery, Painting- fabric painting, glass painting and the like - Two products. 5 marks

(20 hours)

Note; The prospective teacher will prepare a script using Drama/theatre as teaching technique. The content will be from or based on the lesson to teach the school students.

SEMESTER II

NO. OF CREDITS: 1

TOTAL MARKS: 20

CONTACT HOURS: 20

MODULE I

1. The Cultural Heritage of India with special reference to :
 - a. significance of Indian Literature, aims and objectives of performing arts and their development through various stages
 - b. utility of performing arts during the ancient and the medieval period
 - c. contribution of Sufi and Bhakti saints to music
 - d. distinguish between Hindustani classical music and Carnatic music
 - e. contributions (Trinities, purandaradasa, Maharaja Swathithirunal) to classical music , classical dances, folk music as well as folk dances in Indian culture
 - f. the development of drama through various phases in India and the contribution of folk theatre
 - g. the present scenario of music, dance and drama and its' role in promoting the rich heritage of India
 - h. Role of performing arts to provide balance of mind, self-restraint, and love for all and also to build self-confidence and capability of adapting in all circumstances
2. Significance of National Anthem, National Song and Patriotic Songs in promoting National Integration-Practice songs
3. Role of Teacher in inculcating cultural values in students
4. Setting criteria for evaluating performances on art forms

College Based Activities

- Documentation on the Cultural Heritage of India, with special reference to India' s collections of songs, music, dance, theatre, folk traditions, performing arts, martial arts, rites and rituals, paintings and writings -Record/Report (10 marks)- REFER
- MODULE
- Preparation of criteria for evaluating different art forms –Drawing, Painting, Dance, Music, Drama, Creative Writing (any 2) -Record/Report -10(20 hours)

SEMESTER III

NO. OF CREDITS: 1

TOTAL MARKS: 20

CONTACT HOURS: 20

MODULE 1

1. Preparation for conducting classes on art forms and evaluating the talents of the school students **(20 hours)**

School Based Activities

- Evaluate the Artistic talents of the students-@2 –Report - (10Marks)
- Awareness Class on different Art forms of India–Report - (5Marks)
- Organise a conscientious activity to appreciate the rich Cultural Heritage of India –Report-(5Marks)

SEMESTER IV

NO. OF CREDITS: 1

TOTAL MARKS: 20

CONTACT HOURS: 20

MODULE 1

1. Interlink Education with culture
2. Significance of conducting art/ cultural fest at school and college levels
3. Significance of street theatre to address social issues
4. Educational Documentary/Film Review-significance

College Based Activities

- Organize a cultural event- report- 5 marks
- Credible Participation in Art fest -10 marks
 - Individual-10 marks
 - Group (any two)-5 marks each
- Script on Street Play /Documentary/Film review –(5 Marks- Group/ Individual)
(20 hours)

Note: Evaluation should be based on the Practical done and the criteria developed by the Institution.

REFERENCES

- Bandura, A. (1977). *Social Foundations of Thought and Action*, Englewood Cliffs, NJ; Prentice Hall.
- Dewey, John. (1938). *Logic: The Theory of Inquiry*. Henry Holt. <http://theatreineducation.org/>
- Joyce, B. and Weil, M. (1997). *Models of Teaching*. New Delhi: Prentice Hall.
- Krathwohl, David, R. Bloom, B. S. (1964): *Taxonomy of Educational Objectives, Hand Book 11: Affective Domain*. New York: David Mc Kay Company, Inc., pp. 95-175
- Krathwohl, David R., Bloom, B. S. (1964): *Taxonomy of Educational Objectives, Hand Book 11: Affective Domain*. New York: David Mc Kay Company, Inc., pp. 95-175
- Pavis, Patrice. (1998). *Dictionary of the theatre: Terms, Concepts and Analysis*, Trans. Christine Shanz. London :Routledge.
- Peter, C. Emberley. (1995). *Values Education and Technology: The Ideology of Dispossession* Toronto: University of Toronto Press,
- Prasad D , *Art as the bases of Education*
- Vygotsky, L.S. (1978). *Mind in society: The development of higher psychological process* Cambridge, MA: Harvard University Press.
- Warrier, Raja. (2014). *Kerala Calling*, volume 34, number 5, pp. 8-11.
- Ravindranath , *Dhakshinendhian Sangeetham*

DETAILS OF PRACTICAL COURSES ARE DESCRIBED IN CLAUSE VI

