

**MAHATMA GANDHI UNIVERSITY
KOTTAYAM, KERALA**



**TWO YEAR
BACHELOR OF EDUCATION (B.Ed.)
REVIEWED DEGREE PROGRAMME**

CREDIT AND SEMESTER SYSTEM WITH GRADING
Reviewed w. e. f July 2018

BOARD OF STUDIES IN EDUCATION (UG)
MAHATMA GANDHI UNIVERSITY
2018

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PREFACE

As per the NCTE regulations 2014 a two year B.Ed curriculum was structured and implemented in 2015. Two batches have passed out since the implementation and a need was thus felt among the teaching and student community for minor modifications with regard to the content in the syllabus of theory and practicals. It is at this juncture that the Board of Studies (UG) initiated this venture to review the two year B.Ed curriculum.

As an initial step, a review sub-committee was formed with Dr. Sunila Thomas as convener and Dr. Anitha S M, Dr. Shaiju Francis and Mr. Pramod Thomas George as members. The review committee invited feedback and suggestions from students, teachers and stakeholders via mail. For reviewing the syllabus, several meetings of BOS members were arranged. A workshop was arranged from 22/5/18 to 24/5/18 with teachers of various training colleges and members of Board of Studies as conveners for various courses. Based on the suggestions and recommendations from subject experts, the syllabus was reviewed with minor modifications.

We deeply acknowledge with gratitude the whole hearted cooperation rendered by honorable Vice Chancellor Dr. Babu Sebastian, Pro Vice Chancellor Dr. Sabu Thomas, Registrar Prof. M R Unni, Dean, faculty of education, Dr. T V Thulaseedharan, Syndicate Members and subject experts from various training colleges.

Kottayam
18/06/2018

Dr. Varghese K Cheriyan
Chairman
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

Applicable to Regular B.Ed. programme conducted by Mahatma Gandhi University, Kottayam with effect from 2015-2017 Admissions.

The Programme conducted in distance /off campus and private registration shall not come under the purview of this regulation.

The provisions herein supersede all the existing regulations for the regular B.Ed. programme to the extent herein prescribed.

3. DEFINITIONS

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.

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.

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.

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.

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.

Core course: Core course means a course that comes under the category of courses which is compulsory for all students undergoing B. Ed. Programme.

Pedagogic Course: - Pedagogic Course means a course in the subject of specialization within the B.Ed. Programme.

Associate Course: Associate Course means a course which would enrich B.Ed. Programme.

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.

Course coordinator: Course coordinator is a teacher nominated by the college to coordinate the continuous evaluation undertaken in that course.

Staff Council: Staff Council means the body of all teachers of the college.

Faculty Advisor: Faculty Advisor means a teacher from the college nominated by the staff council who will advise the students in the academic matters.

Grace Marks: Grace Marks shall be awarded to candidates as per the University Orders issued from time to time.

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.

Grade Point: Grade point is the numerical indicator of the percentage of marks awarded to a student in a course.

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:

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

Duration of B.Ed. programme shall be 4 semesters spread over two years.

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.

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.

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.

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

The strength of students for the programme shall be in accordance with the NCTE Regulations, Government rules and orders and University rules

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.

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.

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.

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

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.

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.

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

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.

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.

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

The evaluation of each theory course shall contain two parts.

- (a) Internal or In Semester Assessment (ISA)
- (b) External or End Semester Assessment (ESA)

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.

There will be no supplementary examinations. For reappearance / improvement, the students can reappear along with the next batch.

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.

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.

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.

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.

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

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

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

Credit Point Average (CPA) of a Semester / Programme is calculated

using the formula,

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

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

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

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

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

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 Ia : 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	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													

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 Ic : 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	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	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

I. 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	DOCUMENTS TO BE MAINTAINED	CRITERIA FOR ASSESSMENT	MARK DISTRIBUTION	TOTAL MARKS	CREDIT
EDU 107.1	Core:	Project on socially/educationally relevant issue (Edu 101)	Community	Project report	Report writing (10 pages) -9 Marks <ul style="list-style-type: none"> • Relevance of the topic -2Marks • Creativity /Novelty -4 Marks • Procedure adopted -3 Marks Timely Submission -1 Mark	10	40	2
		Preparation of a material for a theme on any one adolescent problem (Edu102)	College	Record & Evidence	Theme - 2 Marks Learning Material - 5 Marks Report - 2 Marks Timely Submission - 1 Mark	10		
		Creation of blog and uploading of any learning material in the blog (Edu 103)	College	Report & Hard copy of the blog page	Creation of blog - 6 marks Learning material - 2 Marks Hard Copy -1 Mark Timely Submission - 1 Mark	10		
	Associate: Elective	Study on prevailing practices of respective elective course in schools/community	College	Report	Report writing (10-15 pages)- 9 Marks <ul style="list-style-type: none"> • Identification of Essential Components /Prevailing practices in school/community - 4 Marks • Depth of analysis -3 Marks • Suggestions/recommendations -2 Marks Timely Submission - 1 Mark	10		
EDU 107.2	Pedagogic :	Micro teaching lesson plans-3 skills for each student	College	Record	Lesson Plan - 2 Marks Skill components -3 Marks Total - 5x3 (skills) =15Marks	15		

		Micro teaching class – 1 skill by each student complete cycle(preferably video record)	College	Record & Reflective journal	Lesson plan -3 Marks Incorporation of skill components -5 Marks Completion of cycle -2 Marks Teaching Competence - 3 Marks Reflective journal -2 Marks	15	80	4
		Link Practice- lesson plan and class@1	College	Record	Lesson Plan - 5Marks Integration of skills -5 Marks Teaching Competence - 5 Marks	15		
		Development and presentation of learning resource materials for school pupils-ICT supported materials, and the like (school based topic) - Extension Activity	College	Report and evidence	Relevance of the resource material -5 Marks Quality of the resource material -10Marks Innovation and creativity - 5 Marks Report - 4 Marks Timely Submission - 1 Mark	25		
		Student teacher Portfolio (Practical and Practicum of all courses)	College	Portfolio	Experiences with report and evidence -4 Marks Meaningful reflection - 2 Marks Comprehensiveness and neatness -3 Marks Timely Submission - 1 Mark	10		
EDU 107.3	Health and Physical Education	Demonstration of various Yogic Asanas/Meditation by Student (Any two asanas)	College	Record	Demonstration of asanas - 6Marks Record with evidence - 3 Marks Timely Submission -1 Mark	10	20	1
		Demonstration of first aid (any two)	College	Record	Demonstration of first aid - 6Marks Report with evidence - 3 Marks Timely Submission -1 Mark	10		

EDU 107.4	Drama and Art in Education(E PC2)	Theatre Practice - Participation in workshop/training	College	Record & Evidence	Attendance - 1Mark Script writing -2 Marks Performance - 3 Marks Report writing -3 Marks Timely Submission - 1 Mark	10	2 0	1
		SUPW- Service-1 & Product -1	College	Record & Evidence	Involvement in service - 3 Marks Quality of the product - 3 Marks Report - 3 Marks Timely Submission -1 Marks	10		
Semester Total						160	160	8

SEMESTER II

COURSE CODE	COURSE NAME	NAME OF PRACTICAL	FIELD	DOCUMENTS TO BE MAINTAINED	CRITERIA FOR ASSESSMENT	MARK DISTRIB UTION	TOTAL MARKS	CREDIT
EDU 206.1	Core :	School Profile and practices (student support systems like P.T.A., Alumni, various forums and Clubs, NCC/NSS, SPC, JRC, Scouts and Guides, School Assembly and the like) (Edu 201)	School	Record & Reflective journal	Report Writing(10-15pages)- 25 Marks <ul style="list-style-type: none"> • Details of School profile and practices -10 marks • Description of all practices -10 Marks • Concluding remarks - 3Marks • -Presentation style - 2Marks Reflective Journal Writing -4 Marks Timely Submission - 1 mark	30		

		Awareness class on adolescent problems (based on the learning material prepared in first semester) (Edu 202)	School	Record & Supervision diary cum Reflective journal	Lesson Plan -5Marks Report -2Marks Supervision diary cum Reflective Journal -2Marks Timely Submission -1Mark	10	80	4
EDU 206.1	Core :	Critical Analysis of the status of exceptional children in the school (Statistics of Children with special needs and their characteristics) (Edu 202)	School	Record & Reflective journal	Report Writing(10-15 pages) -15Marks <ul style="list-style-type: none"> • Identifying the exceptional children using appropriate psychological test - 5Marks • Analysis and Interpretation of the test -7Marks • Sociogram -3 Marks Reflective Journal -4Marks Timely Submission -1 Mark	20		
		Analysis of prevailing assessment practices in schools (Edu 203)	School	Record & Reflective journal	Report writing (5-10 pages) - 7 Marks <ul style="list-style-type: none"> • Identifying the prevailing assessment practices in school - 2 Marks • Analysis and interpretation -3 Marks • Comprehensiveness of the report - 2Marks • Reflective journal - 2 Marks Timely submission -1 Mark	10		

		Student teacher portfolio (practical and practicum of all courses)	College	Portfolio	Experiences with report and evidence -4 Marks Meaningful reflection - 2 Marks Comprehensiveness and neatness -3 Marks Timely submission -1 Mark	10		
EDU 206.2	Pedagogic :	Discussion lesson plans -5	College	Record	Attendance - 2 Marks Involvement in discussion -2 marks Lesson plan - 5 Marks Timely submission -1 Mark	10	100	5
		Demonstration class observation -5	College	Record	Attendance - 2 Marks Observation report -2 marks Lesson Plans - 5 Marks Timely Submission -1 mark	10		
		Criticism Lesson Plans, class observation and evaluation -5 Criticism class@1	College	Record	Attendance - 2 Marks Criticism Class observation and Report -10 Marks Lesson Plan - 5 Marks Teaching Competence -2 Marks Timely Submission -1 Mark	20		
		Class room teaching during school induction@ 5 classes	School	Record and Supervision diary cum reflective journal (as per format attached)	Lesson Plan - 25 Marks Teaching competency -25 Marks Supervision Diary cum Reflective journal(<i>one journal entry for five classes</i>) - 10 Marks	60		

EDU 206.3	Health and Physical Education	Credible participation in games and sports	College	Record and Certificate of the events participated	Participation Prize Report	-5 Marks - 2Marks -2 Marks	10	20	1
		Organising sports meet and rules and regulations of long jump and shot put	College	Record & Evidence	Timely Submission	-1 Mark			
					Role in committee	-2 Marks	10		
					Report on sports meet	-3 marks			
					Record on rules, regulations and diagrams	-4 Marks			
					Timely submission	-1 mark			

EDU 206.4	Drama and Art in Education (EPC2)	Interview a local folk artist and prepare a report on the local community art forms	Community	Record & Evidence	Preparation of interview schedule	-2Marks	10	20	1
					Conducting Interview	- 2 Marks			
					Report on the interview	-2Marks			
					Report on local community art form	-3 Marks			
					Timely Submission	-1 Mark			
		Preparation of criteria for evaluating different art forms–Drawing, Painting, Dance, Music, Drama, Creative Writing (any 2)	College	Record	Description of criteria of any two art forms	- 5 Marks	10		
					Report writing	- 4 Marks			
					Timely submission	- 1 Mark			
Semester total							220	220	11

SEMESTER III

COURSE CODE	COURSE NAME	NAME OF PRACTICAL	FIELD	DOCUMENTS TO BE MAINTAINED	CRITERIA FOR ASSESSMENT	MARK DISTRIBUTION	TOTAL MARKS	CREDIT
EDU 302.1	Core :	Value education class @2 (Focus on values like honesty, cleanliness, punctuality, etc.) (Edu 101 & 201)	School	Record & supervision diary cum reflective journal(as per format attached)	Relevance of value selected-4 Marks Lesson Plans - 5 Marks Resources used - 4 Marks Transmission of value - 4 Marks Reflective Journal (one journal entry for two class - 2 Marks Timely Submission -1 Mark	20	80	4
		Case study based on learning problems of school pupils (Edu 102 & 202)	School	Report and reflective journal	Report Writing(15 to 20 pages) -25 Marks Identification of the case - 5 Marks • Characteristics of the case -5 Marks • Tools and techniques used -5 Marks • Analysis and interpretation -5 Marks • Suggestions and recommendation -5 Marks Reflective Journal - 4 Marks Timely Submission -1 Mark	30		
		Action research @1 (Edu 203)	School	Report and reflective journal	Report Writing (15 to 20 pages)- 25 Marks • Relevance of the problem - 5 Marks • Action Hypothesis - 5 Marks • Action plan - 5 Marks • Analysis and Interpretation- 5 Marks • Suggestions and recommendation -5 Marks Reflective Journal - 4 Marks Timely Submission -1 Marks	30		

EDU 302.2	Pedagogic :	Unit Plan @1	College	Record	Steps -4 Marks Originality -2 Marks Comprehensiveness -2 Marks Neatness -1 Mark Timely Submission -1 Mark	10	360	18
		50 Lesson plans 50 classes – Teaching competence	School	Record & supervision diary cum reflective journal (as per format attached)	Lesson Plans -100 Marks Teaching competency -100 Marks Supervision Diary cum Reflective journal (one journal entry for five classes) - 50 Marks	250		
		Lesson plan and Classes Based on language Across the Curriculum @2	School	Record & supervision diary cum reflective journal (as per format attached)	Lesson Plans - 4Marks Teaching competency -4 Marks Supervision Diary cum Reflective journal (one journal entry for two classes) - 2 Marks	10		
		Subject Club/Forum activities	School	Record & Reflective journal	Club formation -1 Mark Activities -2 Marks Evidences -2 Marks Report Writing -2 Marks Reflective Journal -2 Marks Timely Submission -1 Mark	10		
		Improvised teaching aids- charts and models @2each (Institution shall conduct workshop for the preparation of the Teaching aids)	College	Record and evidence	Participation in workshop -3 Marks Preparation of Aids -12 Marks Report Writing with evidence - 5 Marks Timely Submission - 2 Marks	20		

	Self Assessment Tool among the school pupils to assess learning performance in the subject Preparation and administration	School	Record & Evidence	Self Assessment Tool -2 Marks Analysis and Interpretation -3 Marks Report -2 Marks Evidence -2 Marks Timely Submission -1 Mark	10		
	Peer evaluation of classes @ 2 any subject	School/college	Record - Peer review report	Observation and Analysis of Peer Class -2 Marks Observation Report - 2 Marks Timely Submission -1 Mark Total -5x2 =10 Marks	10		
	Achievement test and analysis and interpretation @ 1	School	Record	Design of the test - 5 Marks Question Paper and marking Scheme - 6 Marks Test Analysis and Interpretation -4 Marks Comprehensiveness of the Record -4 Marks Timely Submission -1 Mark	20		
	Diagnostic test analysis and interpretation @ 1 Remedial Programme- Preparation and administration	School	Record	Diagnosis of problem area -2 Marks preparation of test items -6 Marks Analysis of the result -3 Marks Remedial teaching -6 Marks Comprehensiveness of the Record - 2 Marks Timely Submission -1 Mark	20		

EDU 302.3	Health and Physical Education	Physical Education Lesson Plan and class @ 3	School	Record & supervision diary cum reflective journal (as per format attached)	Lesson Plans - 6Marks Teaching competency -6 Marks Supervision Diary cum Reflective journal (one journal entry for three classes) - 3 Marks	15	40	2
		Health Education Lesson Plan and class@2	School	Record Supervision diary cum reflective journal(as per format attached)	Lesson Plans - 4Marks Teaching competency -4 Marks Supervision Diary cum Reflective journal (one journal entry for two classes) - 2 Marks	10		
		Yoga Lesson Plan and Class@ 3	School	Record Supervision diary cum reflective journal(as per format attached)	Lesson Plans - 6Marks Teaching competency -6 Marks Supervision Diary cum Reflective journal(one journal entry for three classes) - 3 Marks	15		
EDU 302.4	Drama and Art in education	Class on different Art Forms and cultural heritage of India	School	Record and evidence	Learning materials used - 3 Marks Class - 4 Marks Comprehensiveness of the record -3 Marks	10	20	1
		Organize an activity among students to conscientise National integration/ patriotism/ universal brotherhood	School	Record and evidence	Relevance of the activity - 2 Marks Organization Skill - 4 Marks Report with evidence -3 Marks Timely Submission -1 Mark	10		

		etc.(Quiz/competition/seminar/ exhibition etc.)						
	Viva-voce& Student teacher Portfolio	Student teacher portfolio (Practical and Practicum of all courses)	College	Portfolio (sem1to sem 3)	Experiences with report and evidence -6 Marks Meaningful reflection - 4 Marks Comprehensiveness and neatness -4 Marks Oral presentation -6 Marks	20	40	2
		Viva -voce	College	Work done in 3 rd semester	Subject competence -5 Marks Communication skill -5 Marks Genuinity of evidences -10 Marks	20		
Semester total						540	540	27

SEMESTER IV

COURSE CODE	COURSE NAME	NAME OF PRACTICAL	FIELD	DOCUMENTS TO BE MAINTAINED	CRITERIA FOR ASSESSMENT	MARK DISTRIBUTION	TOTAL MARKS	CREDIT
EDU 404.1	Core	Community citizenship training camp(Edu 401)	College /other premise	Record and evidence	Attendance -5 Marks Group Coordination -4 Marks Involvement in various committees -10 Marks Initiative Ability - 5 Marks Comprehensiveness of the report with evidence - 25 Marks	50		

					Timely Submission -1 Mark			
	Conduct an interview with an eminent teacher or educationist of your locality on the vision & mission of education (Edu 401)	Community/school	Record and evidence		Preparation of Interview Schedule -7 Marks Report with evidence - 12 Marks Timely Submission -1 Mark	20		
	Documentary/short film presentation on student abuse in school campus and pocso rules (Edu 402)	Community	Record and evidence		Relevance of the theme -3 Marks Script -10 Marks Creativity -3 Marks Message to the society -3 Marks Timely Submission -1 Mark	20		
	Study tour (Edu 402)	Community	Record and evidence		Attendance -3 Marks Group Coordination -2 Marks Involvement in various Phases of the tour -5 Marks Initiative Ability -3 Marks Comprehensiveness of the report with evidence -6 Marks Timely Submission -1 Mark	20		
	Extension Activities @ 2 (Edu 402)	Community	Record and evidence		Attendance -2 Marks Group Coordination -2 Marks Involvement in activities -6 Marks Initiative Ability -3 Marks Comprehensiveness of the report with evidence - 6 Marks Timely Submission -1 Mark	20		
	Student teacher portfolio (Practical & Practicum of all	College	Portfolio		Experiences with report and evidence -4 Marks Meaningful reflection - 2 Marks	10		
							140	7

		courses) EDU 401, 402			Comprehensiveness and neatness -3 Marks Timely submission -1 Mark			
EDU 404.2	Pedagogic	Developing vision and mission as a teacher- SWOT Analysis	College	Record	Identification of SWOT -12 Marks Preparation of template -8 Marks Vision Mission Statement -7 Marks Comprehensiveness of the report -12 Marks Timely Submission -1 Mark	40	120	6
		Educational journal review (5 research article)	College	Record and evidence	Report Writing (15-20 pages) -29 Marks • Need and Significance -5 Marks • Brief Overview of the journal - 5 Marks • Review of articles -15 Marks • Comprehensiveness of the report- -4 Marks • Timely submission - 1Mark	30		
		Project on any topic of pedagogic relevance	College	Project Report	Report Writing(15to 20 pages) - 29 Marks • Relevance of the topic - 4 Marks • Procedure adopted -10 Marks • Analysis and interpretation - 6Marks • Summary and conclusion -5 Marks • Comprehensiveness of the report - 4 Marks Timely Submission -1 Marks	30		

		Preparation and Uploading of self designed article of pedagogic relevance in the Blog	College	Record and evidence	Preparation of article -10 Marks Uploading of article -2 Marks Comprehensiveness of the report - 5 Marks Hard copy of the material uploaded - 2 Marks Timely Submission - 1 Mark	20		
EDU 404.3	Health and Physical Education	Credible Participation in games and sports -minimum 2 events	College	Record and Certificate of the events participated	Participation -5 Marks Prize -2Marks Report -2 Marks Timely Submission -1 Mark	10	20	1
		Rules and regulations of Volleyball and shuttle badminton	College	Record	Comprehensiveness of the report -9 Marks Timely Submission -1 Mark	10		
EDU 404.4	Drama and Art in Education (EPC 2)	Film review	College	Record	Relevance of the film selected - -2 Marks Comprehensiveness of the report – -2 Marks Timely Submission -1 Mark	5	20	1
		Credible Participation in Arts fest minimum 2 events	College	Record and Certificate of the events participated	Participation -5 Marks Prize - 2Marks Report -2 Marks Timely Submission -1 Mark	10		
		Script on Street Play	College	Record	Relevance of the theme -1 Marks Script - 3Marks Timely Submission -1 Mark	5		
EDU 404.5	Communicative English	Internal test –	College	Answer Script	Written Examination	20	40	2

		Written						
		Oral	College	Score sheet	Oral Examination	10		
		Practical in accordance with the syllabus @1 item	College	Report and evidence	Comprehensiveness of the report - 4 Marks Evidence - 5 Marks Timely Submission - 1 Mark	10		
	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. It can be conducted either as a three day study tour or one day study tour and two one-day field visits.

SEMESTER I

CORE COURSES

EDU 101: CONTEMPORARY INDIA AND EDUCATION

NO.OFCREDITS	:5
CONTACT HOURS	:100
MARKS	:100 (External 80 + Internal20)
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.
- comprehend the basic features of Indian constitution and its implication in education
- 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 NCF (2005) and NCFTE (2009).
- 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.
- 1.3 Western system of education in India with special reference to Macaulay's Minutes and Wood's Despatch
- 1.4 Elementary education system in India
- 1.5 Types of Education–Formal, informal, and non-formal
- 1.6 Education as Investment – Human Resource Development
- 1.7 Education as a discipline – Its correlation with other disciplines–History, Philosophy, Psychology, Sociology and Science.

Module 2 – Indian Constitution and Education (10 hours)

- 2.1 Indian Constitution – Preamble- Fundamental Rights and Directive principles
- 2.2 Duties of citizens
- 2.3 Universalisation of Elementary Education-Right to Education Act 2009.

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

- 3.1 Multiculturalism-Unity in diversity
- 3.2 Inequality and marginalization
- 3.3 Impact of Liberalisation, Privatisation and Globalisation on Indian Society
- 3.4 Educational Problems of Contemporary India-wastage and stagnation, Educated unemployment
- 3.5 Population Education and Inclusive Education

Module 4 -Education Commissions in India (10 hrs)

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

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

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

PRACTICUM (any one)

1. Documentation on current challenges of Indian education based on Newspaper, Journals and Magazine.
2. Critical analysis of education policies of central and state government.
3. Prepare a dramatic script for eradicating various inequalities of Indian society

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*. New Delhi: Ministry of Education.
- 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). Sarvashiksha abhiyan- Framework for implementation based on the right of children to free and compulsory education act, 2009. 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: VasuPublishers.
- 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 McGraw, 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 II Teachers 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.
- SatyaPriya 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, NityaChaithanya (2002) *ParivarthanonmughaVidhyabhyasam*, 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 adolescents 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
- understand the concept of intelligence
- acquaint with various tests related to intelligence
- 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 Psychology- General and Applied- Definitions
- 1.2 Schools of Psychology – Brief description of Behaviorism, Structuralism, Functionalism, Psycho- analysis, Humanism, Gestalt Psychology, Nativism, Constructivism, Cognitive Neuro Science and Positive Psychology.
- 1.3 Meaning, nature and functions of educational psychology, Relevance of educational psychology to teachers, learners, teaching and learning
- 1.4 Methods and tools of Educational Psychology-Introspection, Observation, Interview, Questionnaire, Case study, Survey, Sociometry, Checklist, Rating scale, Cumulative record and Anecdotal record
- 1.5 Concepts, Principles and Stages of Growth and development
- 1.6 Dimensions of Growth and Development-Physical, Intellectual, Social, Emotional and Language Development.
- 1.7 Erickson's view of Psycho Social Development - Kohlberg's view of Moral Development
- 1.8 Psychological needs and Behavioral problems of children.

Module 2 - Complexities in Adolescence (20 hours)

- 2.1 Characteristics of adolescents
- 2.2 Needs of Adolescents
- 2.3 Problems of adolescents (Information overloading, substance abuse, suicidal tendencies, depression, sex abuse etc)
- 2.3 Management of adolescent problems – role of teacher
- 2.4 Helping adolescents for better adjustment
- 2.5 Stress and coping Strategies

Module 3 - Cognitive Processes (20 hours)

- 3.1 Concepts of sensation, perception, attention, concept formation and problem solving
- 3.2 Thinking – types- Convergent thinking, Divergent thinking and Creative thinking (steps) – Developing creative thinking in learners, Meta-cognition
- 3.3 Forgetting- Causes of forgetting
- 3.4 Memory – Information processing – Atkinson-shriffirin model of information processing
- 3.5 Strategies for improving effective memorization

Module 4 – Intelligence as a Cognitive Variable in Learning (20hours)

- 4.1 Intelligence – meaning and definition –Emotional Intelligence and spiritual intelligence. Concept of IQ, EQ and SQ. Strategies for promoting EQ and SQ.
- 4.2 Brief description of theories of intelligence – Two factor theory (Spearman), Primary Mental Abilities (Thurston) Structure of Intellect (Guilford) and Multiple Intelligence (Howard Gardner).
- 4.3 Categories of Intelligence tests – uses and limitations of intelligence testing

Module 5 - Motivating the learner (15 hours)

- 5.1 Motivation – meaning and significance
- 5.2 Types of motivation, Achievement motivation
- 5.3 Strategies for enhancing motivation in learners
- 5.4 Maslow's theory of motivation

PRACTICUM (any one)

1. Visit an Anganwadi or a Primary School and prepare a report on the facilities provided and strategies adopted for the progress of the society.
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 –

Pearson Education

- Ausubel, David, P, Joseph. D Novak & Helen Hanesian. (1968). Educational psychology: Acognitive view. Holt, Rinehart and Winston Inc
- 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: Harvard University Press.
- 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, information processing 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 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 Collins Publishers. Brophy, E. Looking in classrooms (5th ed.) Harper Collins Publishers.

EDU 103: DEVELOPMENTS AND RESOURCES IN EDUCATIONAL TECHNOLOGY

NO.OF CREDIT	:3
CONTACT HOURS	:60
MARKS	: 60 (External 50 + Internal10)
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 Educational 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

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.

Module 1 - Educational Technology- Concept, Approach and Scope (12 Hrs)

- 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 centers for Educational Technology, CIET, SIET, AVRC, EMRC, SITE, CEC, EDUSAT, IT@SCHOOL- their role in the improvement of teaching and 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, internet, social media

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 behavior, Flanders' Interaction Analysis Category System (FIACS) - categories, procedures and interpretation.

Module 4: Instructional Technology- Principles and Approaches (10hrs)

- 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

Module 5: ICT in Education (20 hrs)

- 5.1 ICT in education – meaning, scope and role of ICT in education, 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 Linux and Ubuntu Educational Software – conceptual overview
- 5.4 E-learning : concept, modes, characteristics and benefits, e-learning materials: e-textbooks, e-journals; Digital library, e-content - fundamentals
- 5.5 Web based learning, online learning, virtual learning, online labs, massive open online course (MOOC) - SWAYAM, e-communication: Internet Forums, blogs, bulletin boards, Webinar – brief outline.
- 5.6 Flipped Classrooms, Learning Management Systems (LMS) and Moodle – brief outline
- 5.7 Cyber crime and Cyber ethics

PRACTICUM (any one)

1. Prepare a script for an educational video.
2. Construct an interaction matrix of a class and analyse the classroom events using FIACS
3. Prepare a programmed instructional material using branching programme

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: VikasPublishing House Pvt. Ltd.

- Alexey Semenov, UNESCO, (2005): Information and Communication Technologies in Schools: 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. New Delhi: 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 Communication Cambridge; NIT Press 5.
- Henson, Kenneth.T (1978): Curriculum development for Education reform. Harper Collins College publishers.
- Hoole H.S. Ratnajeewan & Hoole Dushyanthi. (2005). Information and communication technology. 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, Chapman and 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.Chennai :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.

MohanthyLaxman&VohraNehrika, (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.Baverly Hills, CA.

Rajasekaran 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: McGrawHill.

Rosenberg, Marc Jeffry(2006).e-learning: Strategies for Delivering Knowledge in the Digital Age. New Delhi: McGraw Hill India PvtLtd.

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 Oxf

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	: 2hours

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.

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 – Historical background of English Education in India (10 hrs)

- 1.1 Historical development of English in India (Charter Act, East-West controversy, Macaulay's Minutes, Downward Filtration Theory, Three-language Formula)
- 1.2 General aims of teaching English in India (cultural, literary, and utility-based)
- 1.3 Present Status of English in India (Medium of instruction, Associate Official Language)

Module 2 – Conceptual background of English (10 hrs)

- 2.1 Language: relevance and linguistic principles
- 2.2 Nature and scope of English language
- 2.3 Importance of English language(International language, link language, library language, language of scientific research)
- 2.4 Conditions under which English is taught in schools today.

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, 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, Capitalization and punctuation.
- 3.5 Evaluating the four-fold skills (Analytical & Holistic marking scheme).

Module 4 - Developing Study Skills (10 hrs)

- 4.1. Importance of developing study skills
- 4.2 Locating & gathering information (skimming & scanning)
- 4.3. Storing Information (note-taking, note-making, summarizing)
- 4.4 Developing reference skills (using the Dictionary & Thesaurus)
- 4.5 Retrieving information using technology & computers.

Module 5-Educational Objectives of teaching English (15hrs)

- 5.1 Aims & objectives of teaching English at elementary, secondary and higher secondary levels
- 5.2 Bloom's taxonomy of Educational objectives-Revised Taxonomy and its implications
- 5.3 Objective-based instruction & objective based evaluation
- 5.4 Competency-based instruction & competency-based evaluation
- 5.5 Tri-polar relationship- Objective, Learning Activity, Evaluation

PRACTICUM (any one)

1. Summarize a Journal article on any education-related topic.
2. Identify five activities that can help to integrate the language skills.
3. Prepare a report on the condition in which English is taught in State syllabus and in schools following the ICSE/CBSE syllabus

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.OFCREDITS : 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:

- use appropriate strategies to develop the target skills or sub-skills.
- understand the important contribution of the various methods in enriching language.
- create a positive learning environment by ensuring involvement of all the learners.
- apply relevant strategies to develop the target language.
- use English appropriately when explaining, instructing, prompting, eliciting, conveying meaning, and motivating learners.
- 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: Maxims, Approaches and Methods of Teaching English (10 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, Suggestopedia, Discourse-oriented pedagogy).
- 1.3. Methods of teaching English (Grammar Translation, Direct, Bilingual)

Module 2: Techniques and strategies of teaching English (15hrs)

- 2.1. Techniques: Questioning, brain-storming, seminar, workshop, symposium, role-play, debate, self-directed learning (SDL)
- 2.2. Strategies: Team teaching, peer-tutoring, co-operative learning, collaborative learning, brain-based learning, mapping strategies (concept mapping & mind mapping)
- 2.3. Language Games: importance and types (vocabulary games, spelling games)

Module 3: Training in Teaching Skills (15hrs)

- 3.1. Micro-teaching: characteristics and phases of teaching

- 3.2 Micro-teaching skills: Skill of reinforcement, skill of fluency in questioning, skill of stimulus variation
- 3.3 Link Practice: Integration of skills

Module 4-Pedagogical Skills Development (10 hrs)

- 4.1 Meaning and significance of: Pedagogy, Pedagogical Knowledge and Pedagogical Competence
- 4.2 Pedagogical Skills: Content related skills, Classroom Management, Promoting Culturally Inclusive Classroom Environment

Module 5- Teaching literature, vocabulary and grammar (10 hrs)

- 5.1 Aims of teaching literature
- 5.2 Vocabulary and grammar: importance, types, principles of selection and gradation
- 5.3 Techniques of presenting vocabulary
- 5.4 Different methods of teaching grammar - inductive and deductive methods

Practicum (any one)

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

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
- analyse the importance of objective based and competency based instruction
- acquaint with aims and objectives of teaching Malayalam
- understand Bloom's Taxonomy of educational objectives
- differentiate curricular objectives and instructional objectives
- analyze importance of learning grammar in language classes and ways to transact the same

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, and dialogue. ICT based teaching and learning.

COURSE OUTLINE

Module 1- Historical Development of Malayalam Education (10hrs)

- 1.1 Historical development of Malayalam language
- 1.2 Influence of mother tongue in the formation of culture
- 1.3 Malayalam and other languages

Module 2- Conceptual background of Malayalam (10hrs)

- 2.1 Malayalam Language and its importance
- 2.2 Correlation with other disciplines (other Languages, ICT and Performing Arts- Drama and Theatre)
- 2.3 Mother tongue as the medium of Instruction

Module 3 – Development of Language Skills (15 hrs)

- 3.1 Basic language skills (Listening, Speaking, Reading and Writing)
- 3.2 Practicing LSRW at different levels of schooling

- 3.3 Classroom Communication (factors and barriers)
- 3.4 Different methods for vocabulary development (Dictation, Reference, Frayar model, Semantic map etc.)

Module 4- Teaching Prose and Poetry (10 hrs)

- 4.1 Aims and objectives of teaching Prose and Poetry
- 4.2 Traditional and new methods for teaching Prose and Poetry
- 4.3 Approaches of teaching Prose and Poetry at different levels of schooling.
- 4.4 Creativity in language classrooms.

Module 5- Educational Objectives of teaching Malayalam (15hrs)

- 5.1 Aims and Objectives – Meaning - Distinction
- 5.2 Aims & objectives of teaching Malayalam Language and Literature at different school levels.
- 5.3 Learning Taxonomy – B S .Bloom, Dave and Simpson (revised taxonomy)- Implications in Classroom
- 5.4 Curricular objectives, Instructional objectives, specifications & Competencies
- 5.5 Tri-polar relation- Objectives-Learning Experience -Evaluation,
- 5.6 Objective based instruction-Objective based evaluation, Competence based instruction- Competence based evaluation

PRACTICUM (any one)

- 1) Develop a manuscript of journal/special issue based on any one social theme
- 2) Prepare semantic map for language development
- 3) Collect five language games that can help to integrate the language skills.

REFERENCES

- Mathrubhashabhodhanam: Pravanathakalum Reethikalum, Bindhu,C.M., Scorpio,Calicut.
- 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,
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-Maxims Approaches and Methods in Teaching Malayalam (10 hrs)

- 1.1. Maxims of teaching. Gradations in teaching Malayalam
- 1.2. Trends and Development in teaching Malayalam. Direct method – Play way method – Dalton plan – Project method – Dramatisation – Lecture method.
- 1.3 Discourse- oriented pedagogy – importance of discourses in Malayalam language teaching – Debate, Drama, , Posters, Narratives, Screen play, Editorials, Travelogues etc. (Construction and Functions)

Module 2: Techniques and Strategies of teaching Malayalam (15 hrs)

- 2.1 Techniques: Buzz session, Questioning, brain-storming, seminar, workshop, role-play, debate, Language games
- 2.2 Reflective Journaling as a technique
- 2.3 Co-operative Learning-Basic Elements-Specific Strategies-implementation in classroom
- 2.4 Collaborative Learning – Meaning – strategies - implementation in classroom
Team Teaching - meaning-Significance -Types –advantages - planning and

implementation

- 2.5 Peer tutoring – Elements – Benefits - Implementation in classroom
- 2.6 Brain Based learning - characteristics and principles
- 2.7 Mapping Strategies - Graphic Organizer-Concept Mapping-Mind Mapping

Module 3 -Training in Teaching Skills (15 hrs)

- 3.1 Introduction to Core Teaching Skills and Micro Teaching-characteristics and phases
- 3.2 Micro Teaching (Skills -Stimulus Variation, Questioning, using Black Board/White Board)- Development of ICT enabled skills
- 3.3 Link Practice - Integration of skills

Module 4-Pedagogical Skill Development (10 hrs)

- 4.1. Meaning and significance of : Pedagogy, Pedagogical Knowledge, Pedagogical Competence.
- 4.2. Pedagogical Skills- Content related skills, Classroom Management
- 4.3 Promoting Culturally Inclusive Classroom Environment
- 4.4 Motivational techniques in teaching Malayalam

Module 5- Teaching Grammar and Composition (10 hrs)

- 5.1 Importance of grammar in language learning, methods of learning grammar (inductive and deductive)
- 5.2 Method of teaching composition at different levels, forms of composition
- 5.3 New trends in teaching grammar and composition

PRACTICUM (any one)

1. Develop a tool to evaluate your performance in classroom teaching
2. Develop a Mind Map for language teaching
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 Kavithapadhamangal, 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 104.13: UNDERSTANDING THE DISCIPLINE OF HINDI EDUCATION

NO.OF CREDITS : 3

CONTACT HOURS : 60

MARKS : 60 {External 50 + Internal10}

DURATION OF EXAMINATION : 2 hours

OBJECTIVES

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

- analyze the scope and importance of learning Hindi
- evaluate the importance of three language formula
- understand the importance of Hindi as National and Official language, the place of Hindi in the Secondary schools of Kerala and the role of Hindi in the social system of India
- examine how language skills can be practiced effectively at different levels of schooling
- Understand the importance of study skills
- understand the aims and objectives of language learning and develop skill in language learning

MODE OF TRANSACTION

Lecture-cum-demonstration, Brain storming, Problem solving, Group work, Video presentations, Case study, Assignment, Seminar, Project ,ICT based teaching and learning.

COURSE OUTLINE

Module 1- Historical Background of Hindi (10 hrs)

- 1.1 Historical development of Hindi
- 1.2 Characteristic features of Hindi language
- 1.3 Status of Hindi in India and foreign countries

Module 2 – Conceptual background of Hindi (10 hrs)

- 2.1 Importance of Hindi
- 2.2 Scope of Hindi
- 2.3 Place of Hindi in the Secondary and Higher secondary curriculum of Kerala
- 2.4 Three language formula
- 2.5 Principles of teaching Hindi

Module 3 – Development of language skills (15hrs)

- 3.1 Acquisition of language skills: Listening, Speaking, Reading and Writing.
- 3.2 Listening and Speaking - Resources for developing listening and speaking skills – Story telling, dialogues, situational conversations, role plays, simulations,

- games and language laboratory.
- 3.3 Reading - Importance of understanding the development of reading skills - Reading aloud and silent reading – Reading in groups - Extensive and intensive reading – Methods of teaching reading
 - 3.4 Writing- Stages of writing - Process of writing – Techniques of developing writing skills – Methods of teaching writing – Peculiarities of Devanagiri script – Characteristics of good hand writing – legibility, beauty, spacing and speed – Training in acquiring them – Importance of dictation – Training in correcting mistakes – Use of charts, blackboard etc.

Module 4-Developing study skills (10 hrs)

- 4.1 Importance of developing study skills
- 4.2 Locating and gathering information (skimming and scanning)
- 4.3 Storing of information (note-taking, note- making and summarizing)
- 4.4 Developing reference skills (using Dictionary and Thesaurus)

Module 5 - Educational Objectives of teaching Hindi (15hrs)

- 5.1 Aims and objectives – Meaning –Definition
- 5.2 Bloom’s Taxonomy of Educational objectives
- 5.3 Curricular objectives, Instructional objectives and Specifications
- 5.4 Objective based instruction and Objective based evaluation
- 5.5 Competency based instruction and Competency based evaluation
- 5.6 Tri-polar relationship – Objectives, Learning activity and Evaluation

PRACTICUM (any one)

- 1 Prepare a dictionary of 50 words selected from the Hindi textbook prescribed for Std. VIII and specify the meaning, form, synonyms and antonyms.
- 2 Preparation of journal article on any topic related to Hindi education.
- 3 Identify five activities that can help in developing language skills.

REFERENCES

- Arora, V.N. & Chandra Lakshmi. (1993). Improve your writing. New Delhi: Oxford University Press.
- Cook, Vivian. (1991). Second language learning and language teaching: New York: Chapman and Hall Inc.
- Ellis, Rod.(1987). Understanding second language acquisition; Oxford University Press.
- Jeeth, Yogendra, B. (1986). ShikshaMemAdhunikPravrithiyam. Agra: VinodPustakMahal.
- Jeeth, Yogendra, B. (2005). Hindi Shikshan. Agra: VinodPustakMandir.
- Kumar, VijendraVarisht. (2004). Shiksha Mano Vigyan. New Delhi: Arjun Publishing House.
- Lal, Raman Bihari. Hindi Shikshan. Meerut: Rastogi Publications. Mangal, Uma.(1991). Hindi Shikshan. New Delhi: Arya Book Depot.
- Pande, K.P. (1988). Advanced Educational Psychology (2nd ed.) Delhi. KonarkPublishers

Pvt.Ltd.aur Pad Niyojan. Agra: VinodPustakMandir.
Pandey,S.KandSharma,R.S.(2008).EncyclopaediaofModernTechniquesof
Teaching. New Delhi: Common Wealth Publishers.
Sharma, Lekshmi Narayan. (1982). BhashakiShikshanVidhiyamAur Pat Yojana. Agra:
VindPustakMandir.
Singh, Savitri. Hindi Shikshan. Meerut: Lyall Book Depot.

SaphayaReghunath.(1998). Hindi Shikshan. Jalandhar: Punjab Tiwari, Bholanadh. (1974).
BhashaVigyan. Allahabad: KitabMahal.

EDU 105.13: LEARNING TO FUNCTION AS HINDI TEACHER

NO.OF CREDITS	:	3
CONTACT HOURS	:	60
DURATION OF EXAMINATION	:	2 hours
MARKS	:	60 {External 50 + Internal10}

OBJECTIVES

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

- Critically analyse the various approaches and methods of teaching Hindi
- understand the various techniques, devices and innovative strategies of teaching Hindi
- understand the importance of Microteaching
- understand different methods of teaching literature
- develop the criteria for teacher evaluation
- understand the importance of pedagogical skill development

MODE OF TRANSACTION

Lecture-cum-demonstration, Brain storming, Problem solving, Group work, Video presentations, Case study, Assignment, Seminar, Project, ICT based teaching and learning

Module I- Maxims, Approaches and Methods of teaching Hindi (10hrs)

- 1.1 Maxims of teaching Hindi (simple to complex, known to unknown, concrete to abstract)
- 1.2 Approaches-Teacher centered – Learner centered, Inductive – Deductive
- 1.3 Methods and Strategies Grammar translation method, Structural approach, lecture method Direct method, Dalton plan, Project method, Dramatization, Play- way method

Module 2–Techniques and strategies of teaching Hindi(10 hrs)

- 2.1 Panel discussion - Symposium - Seminar – Workshop - Debate - Role playing – Questioning - Brainstorming – Buzz session.
- 2.2 Language games – vocabulary games
- 2.3 Developing discourses
- 2.4 Communicative language teaching, Co-operative learning, Collaborative learning, Team teaching, m-learning, Peer tutoring, Brain based learning, Web based learning
- 2.5 Mapping strategies – Concept mapping – Mind mapping

Module 3-Training in teaching skills (15hrs)

- 3.1 Introduction to core teaching skills and Microteaching
- 3.2 Micro teaching skills (Questioning, Stimulus variation and Reinforcement) - Link practice – Integration of teaching skills

3.3. Development of ICT enabled skills

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

Module 5 – Teaching Literature, Vocabulary and Grammar(15 hrs)

- 5.1 Aims of teaching Literature
- 5.2 Teaching of different genres of literature – Prose, Poetry, Drama, Short story, Composition etc.
- 5.3 Techniques of presenting vocabulary –Vocabulary expansion techniques
- 5.4 Importance of grammar – Types of grammar
- 5.5 Objectives and methods of teaching grammar

PRACTICUM (anyone)

- 1 Make any five language games to teach vocabulary at secondary level.
- 2 Select topics for brainstorming from the IX standard Hindi reader and mention the important steps involved in brainstorming.
- 3 Prepare a Radio lesson plan based on any lesson from the school text.

REFERENCES

- Agnihotri, R.K. and Khanna, A.L. (2002). Second Language Acquisition. New Delhi: Sage Publications.
- Anderson, J.B. (1980). Cognitive Psychology and its Implications. San Fransisco W. H. Freeman and Company.
- Gagne, R.M. (1985). The Cognitive Psychology of School Learning. Boston: Little. Heck, S.E; and Williams, C.R. (1984). The Complex Roles of the Teacher. New York: Teachers College, Columbia University.
- Jeeth, Yogendra, B. (1986). ShikshaMemAdhunikPravrithiyam. Agra: VinodPustakMahal.
- Jeeth, Yogendra, B. (2005). Hindi Shikshan. Agra: VinodPustakMandir. Lal, Raman Bihari. Hindi Shikshan. Meerut: Rastogi Publications.
- Mangal, Uma.(1991). Hindi Shikshan. New Delhi: Arya Book Depot. Mathur, S.S. (2005). Sikshan Kala. Agra: VinodPustakMandir.
- Mathur, S.S. ShikhaManovigyan. Meerut: Lyal Book Depot.
- Narang, Bhatia. (1995). AdhunikShikshanVidhiyam.Ludhiyana: Prakash Brothers PublishingndThyagi. (1996). SikshaKeSamanyaSiddhant. Agra: VinodPustakMandir.
- Pal, H.R. & Sharma, M. (2007). Education of Gifted (Hindi).NewDelhi: Kshipra.
- Pandey, S.KandSharma, R.S.(2008).EncyclopaediaofModernTechniquesof Teaching. New Delhi: Common Wealth Publishers.
- Sharma, Lekshmi Narayan. (1982). BhashakiShikshanVidhiyamAur Pat Yojana. Agra: VindPustakMandir.
- Singh, Savitri. Hindi Shikshan. Meerut: Lyall Book Depot.
- Sinha, P.K. (1992). Computer Fundamentals: Concepts, Systems and Applications. NewDelhi: BPB Publications.

EDU104.14 : UNDERSTANDING THE DISCIPLINE OF SANSKRIT EDUCATION

NO.OF CREDITS : 3

CONTACT HOURS : 60

MARKS : 60 (External 50 + Internal10)

DURATION OF EXAMINATION : 2 hours

OBJECTIVES

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

- understand the historical background of Sanskrit as a language
- understand the characteristics of Sanskrit language and its role in the modern society
- improve the power of expression both oral and written in Sanskrit.
- apply an integrated approach in developing the four-fold language skills
- identify individual differences in the class room
- acquaint with the aims and objectives of teaching Sanskrit
- understand Bloom's Taxonomy of Educational Objectives
- understand the concepts of Objective based and Competency based instruction

MODE OF TRANSACTION

Lecture-cum-demonstration, Power point presentation, Video Presentation, Interview, Guest Lecture, General Discussion, Group Discussion, Brain storming, Problem solving, Assignment, seminar, Project work , Case study, Group work, Creative work shop, Resource centre visit , Video conferencing, Voice/ Video Chatting with Scholars, Visiting Sanskrit villages and interacting with Sanskrit Speaking people, ICT based teaching and learning

COURSE OUTLINE

Module 1 - Historical Background of Sanskrit Education (10hrs)

- 1.1. Historical development of Sanskrit
- 1.2. Characteristics of Sanskrit language and literature
- 1.3 Contributions of Sanskrit to different areas of knowledge.
- 1.4 Influence of Sanskrit on other Indian languages with special reference to mother tongue.

Module2 – Conceptual Background of Sanskrit (10 hrs)

- 2.1 Language and its importance, Linguistic Principles
- 2.2 Nature and scope of Sanskrit
- 2.3 Present status of Sanskrit in India and abroad

Module 3 Development of Language Skills (15 hrs)

- 3.1 Pronunciation - Importance of pronunciation – Sounds in Sanskrit – Organs of speech – training correct pronunciation – use of lingua phone, tape recorder etc.-

- comparison of Sanskrit sounds with mother tongue, English and Hindi – Individual and group drill – causes of defective pronunciation and faulty speech – remedial measures –exercises in pronouncing letters
- 3.2 Reading - Developing comprehension skill – techniques and materials for developing listening and reading skills – techniques of reading – reading for comprehension – different methods of teaching to read – Alphabetical look and say, word method, sentence method, phrase method – story telling method – use of pictures, flash cards etc. Different types of reading – aloud and silent reading.
- 3.3 Writing- Stages of writing - Process of writing – Techniques of developing writing skills – Methods of teaching writing – Peculiarities of Devanagari scripts– Characteristics of good hand writing – legibility, beauty, spacing and speed – Training in acquiring them – Importance of dictation – Graphic devices in writing transcription and dictation – correct posture – Causes of bad spelling – Training in correcting spelling mistakes – Use of charts, black board etc.

Module 4-Developing study skills (10 hrs)

- 4.1 Importance of developing study skills
- 4.2 Locating and gathering information (skimming and scanning)
- 4.3 Storing of information (note-taking, note- making and summarizing)
- 4.4 Developing reference skills (using Dictionary and Thesaurus)

Module 5 Educational Objectives of Teaching Sanskrit (15 hrs)

- 5.1 Aims and objectives – Meaning –Definition
- 5.2 Blooms Taxonomy of Educational objectives
- 5.3 Curricular objectives, Instructional objectives, Specifications and competencies
- 5.4 Objective based instruction and objective based evaluation
- 5.5 Competency based instruction and Competency based evaluation
- 5.6 Tri-polar relationship – Objectives, Learning activity and evaluation

PRACTICUM (any one)

1. Analyse the effect of interacting with people in Sanskrit villages in enhancing communication skills among Sanskrit teachers.
2. Evaluate the Problems in learning Sanskrit and suggest remedial measures
3. Prepare a dictionary of 50 words selected from the Sanskrit textbook prescribed for Std. VIII and specify the meaning, form, synonyms and antonyms.

REFERENCES

SamskrithaAdhipana -ViswanathaSarma
SamskrithaSiksha -Ramasuklapandya
The teaching of Sanskrit - D.G.Apte
SamskrithaSikshanaVidi -RaghunathaSaphaya
SamskrithaBhashadhyapanam - Prof.Sahadevan
Methods of Teaching Sanskrit - Prof.Ramavarma

History of Sanskrit teaching -Macdonell
Teaching techniques - DasR.C.
Language in Education - Omkar N.Koul
Sanskrit and Science - S.S.JanakiKupu
The problems of Sanskrit teaching:Hupanikar
SanskritaSahityaVimarsanam:Dr.N.V.P.Unithi
Practical Sanskrit Grammar - PRDSarma
First Book of Sanskrit and Second Book of Sanskrit -Bhandarkar
A Sanskrit Grammar for students - AMacdovel
KeraleeyaSamskrutadhyapanavidhaya – Dr. K. R. Harinarayanan
Laghusidhantakaumudi - VaradarajaPanditan
Rasa and Dhvani - Dr. A.Sankaran
History of Sanskrit Literature -Keith
Sahityadarpana -Viswanadha
Vritaratnakara -Kedarabhattaha
Sabdāsodhīnī - A. R.RajarajaVarma
Vritamanjari - Pingalamuni

EDU105.14 : LEARNING TO FUNCTION AS A SANSKRIT TEACHER

NO.OF CREDITS	: 3
CONTACT HOURS	: 60
MARKS	: 60 (External 50 + Internal10)
DURATION OF EXAMINATION	: 2 hours

OBJECTIVES

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

- critically analyze the various approaches and methods of teaching Sanskrit
- understand the various techniques and strategies of teaching Sanskrit
- understand about different skills related with Microteaching
- link different teaching skills
- understand the nature of different pedagogical skills
- Effectively teach different genres in Sanskrit
- understand the methods and techniques of teaching vocabulary and grammar

MODE OF TRANSACTION

Lecture-cum-demonstration, Power point presentation, Video Presentation, Interview, General Discussion, Group Discussion, Brain storming, Problem solving, Assignment, seminar, Project work , Case study, Group work, Creative work shop, Resource centre visit, Video conferencing, Voice/ Video Chatting with Scholars, Visiting Sanskrit villages and interacting with Sanskrit Speaking people, ICT based teaching and learning

COURSE OUTLINE

Module 1- Maxims, Approaches and Methods of teaching Sanskrit (10hrs)

- 1.1. Maxims of Teaching Sanskrit (simple to complex, known to unknown, particular to general, concrete to abstract)
- 1.2 Approaches-Teacher centered, Learner centered, Structural, Inductive – Deductive, Inquiry, Discovery, Communicative Language Teaching, Discourse Oriented pedagogy (Developing discourses prescribed for Secondary and Higher Secondary level- notice, invitations, speeches, essays and letter writing)
- 1.3. Methods - Grammar translation method or Bhandarkar method, Lecture method, Direct method, Dalton plan, Project method, Play- way method

Module 2 Techniques and Strategies of Teaching Sanskrit (10hrs)

- 2.1 Techniques – Dramatisation, Panel discussion - Seminar – Workshop - Debate - Role playing – Brainstorming – Buzz session - Questioning –Assignment
- 2.2 Strategies - Co-operative learning, Team teaching, M-learning, Peer tutoring, Brain based learning, Computer-assisted instruction, Web based learning, Mapping Strategies (Concept Mapping, Mind Mapping)

Module 3 - Training in Teaching skills (15hrs)

- 3.1 Micro teaching: Characteristics and Phases of teaching Microteaching Skills
- 3.2 Microteaching Skills: (Set induction, Questioning, Using black/white board, Stimulus variation)
- 3.3 Link practice – Integration of skills

Module 4 - Pedagogical Skill Development (10 hrs)

- 4.1 Meaning and Significance of: Pedagogy, Pedagogical knowledge, Pedagogical competence
- 4.2 Pedagogical Skills- Content related skills, Classroom Management, Promoting Culturally Inclusive Classroom Environment

Module 5 - Teaching Literature, Vocabulary and Grammar (15 hrs)

- 5.1 Aims of Teaching Literature
- 5.2 Teaching of Different genres of Literature: Prose, Poetry, Drama, Short story, Composition etc.
- 5.3 Vocabulary - selection and gradation- Techniques of presenting vocabulary- Vocabulary expansion techniques
- 5.4 Grammar-types (formal and functional) - Aims of teaching grammar at different levels - Methods of teaching grammar

PRACTICUM (Any one)

1. Write a one- act play based on a prose lesson prescribed for students at the Secondary level
2. Illustrate five activities for teaching vocabulary in Sanskrit
3. Critical report on the development of language skills through different teaching methods

REFERENCES

On teaching poetry -Haddon
SamskrithaAdhipana -ViswanathaSarma
SamskrithaSiksha -Ramasuklapandya
The teaching of Sanskrit - D.G.Apte
SamskrithaSikshanaVidi -RaghunathaSaphaya
SamskrithaBhashadhyapanam - Prof.Sahadevan
Methods of Teaching Sanskrit - Prof.Ramavarma
History of Sanskrit teaching -Macdonell
Teaching techniques - DasR.C.
Language in Education - Omkar N.Koul
Sanskrit and Science - S.S.JanakiKupu
The problems of Sanskrit teaching:Hupanikar
SamskritaSahityaVimarsanam:Dr.N.V.P.Unithiri
Upanishads in education : V. Surendran nEdkkidath

Practical Sanskrit Grammar - PRDSarma
First Book of Sanskrit and Second Book of Sanskrit -Bhandarkar
A Sanskrit Grammar for students - AMacdovel
Kualayanadam -AppayaDikshidar
KeraleeyaSamskrutadhyapanavidhaya – Dr. K. R. Harinarayanan
Laghusidhantakaumudi –VaradarajaPanditan
Sidharupa
Rasa and Dhvani - Dr. A.Sankaran
History of Sanskrit Literature -Keith
Sahityadarpana -Viswanadha
Vritaratnakara -Kedarabhattaha
Sabdasodhini - A. R.RajarajaVarma
Vritamanjari - Pingalamuni

EDU 104.15: UNDERSTANDING THE DISCIPLINE OF ARABIC 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 Arabic
- examine how the language skills can be practiced in an effective way in different levels of schooling
- analyse the importance of Objective based and Competency based instruction
- acquaint with aims and objectives of teaching Arabic
- understand Bloom's Taxonomy of Educational objectives
- differentiate Curricular objectives and Instructional objectives
- analyze importance of learning grammar in language classes and ways to transact the same

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, and dialogue. ICT based teaching and learning.

COURSE OUTLINE

Module 1- Historical Development of Arabic Education (10hrs)

- 1.1 Historical development of Arabic language
- 1.2 Characteristics of Arabic Language and literature
- 1.3 Importance of Arabic on Indian language with reference to Hindi and Malayalam

Module 2- Conceptual background of Arabic (10hrs)

- 2.1 Arabic Language and its importance
- 2.2 Nature and scope of Arabic language
- 2.3 Correlation with other disciplines (other Languages, ICT and Performing Arts- Drama and Theatre)
- 2.4 Present status of Arabic in Indian and abroad

Module 3 – Development of Language Skills (15 hrs)

- 3.1 Basic language skills (Listening, Speaking, Reading and Writing)
- 3.2 Practicing LSRW at different levels of schooling

3.3 Classroom Communication (factors and barriers)

Module 4 - Developing Study Skills (10 hrs)

- 4.1. Importance of developing study skills
- 4.2 Locating & gathering information (skimming & scanning)
- 4.3. Storing Information (note-taking, note-making, summarizing)
- 4.4 Developing reference skills (using the Dictionary & Thesaurus)

Module 5 - Educational Objectives of teaching Arabic (15hrs)

- 5.1 Aims and Objectives-Meaning-Distinction
- 5.2 Aims & objectives of teaching Arabic Language and Literature at different school levels.
- 5.3 Learning Taxonomy – B S .Bloom, (revised taxonomy)- Implications in Classroom
- 5.4 Tri-polar relation- Objectives-Learning Experience -Evaluation,
- 5.5 Objective based instruction and Competency based instruction

PRACTICUM

1. Write a one-act play based on a prose lesson prescribed for students at the Secondary school level.
2. Create a Dictionary of 50 words selected from the Arabic textbook prescribed for Upper-primary Students and specify the meaning, form, pronunciation, synonyms and antonyms.
3. Identify five activities that can help to integrate the language skills.

REFERENCES

- Al Muwajjah al fanni li mudarrisee al lugha al Arabiyya: Abdul al Aleem Ibrahim; Dar al Maa'rif, al Qaahira
- Mushkilatthaa'leem al lugha al Arabiyya; Abbas Mahmood, dar al ssaqfa, Qatar.
- TharaiqThadreeswastatheejiyyathuhu" Dr.MuhammedMahmood al hailsa , Dar al kitab al jamie'l, Al Ain , UAE
- "Tha'leem al lugha al arabiyyabaina al nadriyyawathatbeeq" Dr.HasanShahata, al darmisriyya al lubnaniyya.
- " Al muallim al Najih" : Dr. Abdullah al Amiri, darusamalinnashriwathaouzee'a
- "Asaleebwathuruquthadrees al hadeesa" :Dr.Muhammedussamtharbiya, Dar Hammurabi linnashriwaTahouzee'a., Amman, Al Ardan.

EDU 105.15: LEARNING TO FUNCTION AS ARABIC 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-Maxims Approaches and Methods in Teaching Arabic (10 hrs)

- 1.1 Maxims of teaching Arabic (simple to complex, known to unknown, particular to general, concrete to abstract)
- 1.2 Approaches: Teacher centered – Learner centered, Inductive – Deductive, Inquiry – Discovery
- 1.3 Methods : Grammar translation method, Structural approach, Lecture method Direct method, Dalton plan, Project method, Dramatization, Play-way method, Mastery learning

Module 2: Techniques and Strategies of teaching Arabic (15 hrs)

- 2.1. Techniques: Buzz session ,Questioning, brain-storming, seminar, workshop, , role-play, debate, Language games
- 2.2 Strategies : Communicative language teaching, Co-operative learning, Collaborative learning, Team teaching, M-learning, Peer tutoring, Brain based learning, Computer- assisted instruction, Web based learning

Module 3 -Training in Teaching Skills (15 hrs)

- 3.1 Micro Teaching-characteristics and phases
- 3.2 Micro Teaching (Skills -Stimulus Variation, Questioning, using Black Board/White Board)
- 3.3 Link Practice - Integration of skills

Module 4-Pedagogical Skill Development (10 hrs)

- 4.1. Meaning and significance of : Pedagogy, Pedagogical Knowledge, Pedagogical Competence.
- 4.2. Pedagogical Skills- Content related skills, Classroom Management
- 4.3 Promoting Culturally Inclusive Classroom Environment
- 4.4 Motivational techniques in teaching Arabic.

Module 5- Teaching literature, vocabulary and grammar (10 hrs)

- 5.1 Aims of teaching Arabic literature
- 5.2 Grammar:, types (Formal and Functional) Methods of teaching grammar
- 5.3 Aims of teaching grammar at different level
- 5.4 Strategies to teach different discourses in Arabic language (Poems, Stories, Narration, Quran & Hadith, Speeches, Essays, Correspondence (Murasalath), Notices and Proverbs. Techniques of presenting vocabulary – Vocabulary expansion techniques

PRACTICUM (any one)

1. Conduct a debate /workshop/symposium based on any one relevant topic of social concern by following the rules and regulations.
2. Make any five language game to teach vocabulary at secondary level.
3. Select topics for brainstorming from the IX standard Arabic reader and mention the important steps involved in brainstorming.

REFERENCES

- “Tha’leem al lugha al arabiyya baina? al nadriyya wa thatbeeq” Dr. Hasan Shahata, al dar misriyya al lubnaniyya
- “Thatweeru Adae’l Muallim: Kifayathu? tha’aleem wa tha’heel al muthawasil wal ishraf, hashim Uwadha, Dar al ilm lil malayeen, labnan
- Kitab? al Muallim, lissaffil ashir, Govt. of Kerala, (2004)

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

- inquire into the contribution of eminent mathematicians
- appreciate the 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
- endow with the significance of Taxonomy of instructional objectives of teaching Mathematics

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 Contribution of Mathematicians - Indian and western- Aryabhata, Bhaskaracharya, Brahmagupta, Ramanujan, Pythagorus, Rene Descarte, , Euclid
- 1.2 New Math movement
- 1.3 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 in the 21st century

Module -3 - Inter and Intra disciplinary nature of Mathematics Education (10 hours)

- 3.1 Correlation with Life

- 3.2 Correlation with different subjects-Science, Social sciences, I C T, Languages, Arts, Music,
- 3.3 Correlation with Different branches and topics

Module 4- Aims and values of Teaching mathematics(15 hours)

- 4.1 Aims and Values- Utilitarian, Disciplinary, Cultural, Vocational, Aesthetic
- 4.2 General Objectives of teaching mathematics at different stages- Primary, Secondary, Higher secondary

Module 5 - Educational Objectives (15 hours)

- 5.1 Aims and objectives-meaning and distinction
- 5.2 Blooms Taxonomy of Educational objectives. Revised Bloom's taxonomy- conceptual overview.
- 5.3 Objective Based Instruction and Objective based evaluation – based on Bloom's Taxonomy (cognitive, affective, psychomotor domain)
- 5.4 Competence Based Instruction and Competence based evaluation
- 5.5 Tri polar relation - Objective, Learning experience, Evaluation - Competence, Learning Activity, Evaluation

PRACTICUM (any one)

1. Prepare a document based on any one value of teaching mathematics
2. Present an album on contributions of mathematicians
3. Prepare a report on ancient mathematical numerals

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,
- Deepka, E. (2007). Designing assessment for mathematics. (2nd Ed). 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 Stoyle, Judith (1973). An Introduction to Mathematical Reasoning, New York; The Mac Millan Co.
- Korner, S. The Philosophy of Mathematics, New York; Harper 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.

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 of Teaching Mathematics (15 hrs)

- 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,
- 1.3 Methods- Heuristic Method-Lecture method-Inductive Deductive method-Analytic and synthetic method -Problem Solving method-Project method

Module 2 - Techniques of Developing Mathematical skills (10 hrs)

- 2.1 Development of Mathematical skills: Computational skills, Geometrical skills, Drawing and interpretation of Graphs and Charts
- 2.2 Mathematical creativity
- 2.3 Techniques of developing Speed and accuracy in mathematics
- 2.4 Techniques of teaching Mathematics: Ability grouping, Gradation, Questioning, Brain storming, Seminar, Simulation, Assignment, Supervised study.
- 2.5 Motivational Techniques in teaching of Mathematics

Module 3- Innovative Strategies (12 hours)

- 3.1 Peer tutoring, Team teaching, Co-operative learning, Problem based learning
- 3.2 Differentiated strategies for inclusiveness: Think pair share, Flexible Grouping.
- 3.3 Brain based learning- Characteristics and principles
- 3.4 Concept mapping- Characteristics
- 3.5 Reflective Journaling – Gibb's Model

Module 4 - Training in Teaching Skills (15 hrs)

- 4.1 Micro teaching: Characteristics and phases
- 4.2 Skills and its components. -Stimulus Variation, Questioning, using Black Board/White Board, Set Induction, Reinforcement
- 4.3 Link Practice-Integration of skills

Module 5- Pedagogical Skill Development (8 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

PRACTICUM (any one)

1. Prepare concept map on any unit of Mathematics
2. Prepare a report on any mathematical game that fosters mathematical creativity among learners
3. Prepare a digital programme for motivating learners at secondary/Hr. secondary level

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.
- 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, 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>
- 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.
- 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).

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 EXAMINATION	:	2 hours

OBJECTIVES

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

- acquaint with the history 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.
- endow the significance of taxonomy of instructional objectives of teaching physical science.

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 History of Science - origin, recent developments- relevance
- 1.2 Branches of Science-Fundamental and New branches- Interdisciplinary subjects
- 1.3 Contribution of Eminent Scientists- Indian and western – C. V. Raman, Subrahmanyam Chandrasekhar, Homi Jehangir Bhabha, A.P.J. Abdul Kalam, Einstein, Newton, Madam Curie, Mendeleev, Stephen Hawking

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

Module 3 - Inter and Intra disciplinary nature of Physical science Education (10)

- 3.1 Concept of Correlation-Incidental and Systematic
- 3.2 Correlation with different Branches of Physical science
- 3.3 Correlation with other disciplines
- 3.4 Correlation with Life Situation

Module 4 - Aims and Values of Teaching Physical Science (10hrs)

- 4.1 Aims and Values- Meaning and Differences
- 4.2 General Aims of teaching Physical science at primary. Secondary and higher secondary level
- 4.3 Anticipated outcomes of teaching Physical Science –Scientific Attitude, Scientific Temper, Scientific Literacy, Scientific Creativity

Module 5 - Educational Objectives (20hrs)

- 5.1 Aims and objectives-meaning and distinction
- 5.2 Blooms Taxonomy of Educational objectives. revised Bloom's taxonomy- conceptual overview.
- 5.3 Objectives and specifications-Objective Based Instruction and Objective based evaluation, Tripolar relation- Objective, Learning experience, Evaluation,
- 5.4 Competence Based Instruction and Competence based evaluation, Tripolar relation- Competence, Learning Activity, Evaluation
- 5.5 Classification of educational objectives -Yager and Mc Cormak

PRACTICUM (any one)

- 1 Prepare of a digital album or short film on the life and contributions of a scientist.
- 2. Prepare an artistic document on 'Science in Life'
- 3. prepare a report on evolutionary aspect of science.

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 Objectives: 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.

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 teachers 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 of teaching 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, Inquiry-Discovery
- 1.3 Methods-Lecture method, Lecture-Cum-Demonstration Method, Heuristic method, Problem Solving method, Project Method, Scientific Method- Steps- Elements of Scientific method: Logical and Technical

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

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

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

- 3.1 Peer tutoring, Team teaching, Co-operative learning, Problem based learning, Brain based learning
- 3.2 Concept mapping, – characteristics
- 3.3 Reflective Journaling: Brief outline

- 3.4. Differentiated strategies for inclusiveness: Think pair, Flexible Grouping.

Module 4– Training in Teaching Skills (15 hrs)

- 4.1 Micro Teaching – Characteristics, Phases
- 4.2 Micro Teaching skills - Stimulus variation, questioning, Set Induction
- 4.3 Link practice - Integration of 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, Promoting Culturally Inclusive Classroom Environment
- 5.3 Motivational Techniques in teaching Physical Science

PRACTICUM (any one)

1. Prepare concept map on any unit of Physical Science
2. Prepare a digital programme for motivating learners at Secondary/Hr. secondary level
3. Prepare a report on Brainstorming/Debate activity on any topic in physical science

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*. Neward, 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., 7 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.
- 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
- 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.
- 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, 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.
- 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
- Singh, Avtar (2004). *Instructional objectives of school subjects*. New Delhi: NCERT.
- 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

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 History of learning Life Sciences- Origin, Recent Developments and Relevance.
- 1.2 Applied Branches of Natural Science.
- 1.3 Contributions of Eminent Scientists leading to social change –Luis Pasture, Alexander Fleming, Gregor Mendel, M S Swaminathan and Salim Ali.

Module 2 – Conceptual background of Natural Science(15hrs)

- 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 - Inter and Intra Disciplinary Nature of Natural Science (10hrs)

- 3.1 Correlation with different branches of biological science and topics.

- 3.2 Correlation with other Disciplines – Languages, General Science, Mathematics, ICT and Performing Arts- Theater and Drama.
- 3.3 Correlation with life.

Module 4 - Aims and Values of Teaching Natural Science (5hrs)

- 4.1 Aims and values of teaching Natural science.
- 4.2 Anticipated outcomes of Teaching Natural Science - Developing Scientific Literacy, Scientific attitude, Scientific temper and Scientific creativity.
- 4.3 General Objectives of Teaching Natural Science at Primary, Secondary and Higher Secondary school level.

Module 5 - Educational Objectives of Teaching Natural Science (20hrs)

- 5.1 Aims and Objectives –Meaning- Distinction.
- 5.2 Bloom’s Taxonomy of Educational Objectives-Revised Bloom’s Taxonomy- Conceptual overview.
- 5.3 Objectives and specifications- Objective based instruction and evaluation, Tri-polar relation- Objectives-Learning Experience-Evaluation.
- 5.4 Competence based instruction and evaluation.
- 5.5 Classification of educational objectives- Mc Cormack and Yager.

PRACTICUM (any one)

- 1. Conduct any three scientific experiments and evaluate your experience
- 2. Write a Drama/Theatre script on a relevant social issue connected with the Secondary School Biology Syllabus
- 3. Prepare an e- document on Life and contribution of an eminent scientist

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 – Maxims, Approaches and Methods of Teaching Natural Science (15 hrs)

- 1.1 Maxims of teaching- (Simple -Complex, Known – Unknown, Particular – General, Concrete - Abstract).
- 1.2 Approaches - Teacher Centered-Learner- Centered, Inductive-Deductive, Product - Process, Inquiry-Discovery.
- 1.3 Methods – Lecture cum Demonstration, Project Method, Problem Solving, Heuristic and Biographical

Module 2 - Techniques of Teaching Natural Science (5hrs)

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

Module 3 -Innovative Strategies (15hrs)

- 3.1 Peer tutoring, Team Teaching, Co-Operative Learning, Brain based learning.
- 3.2 Concept Mapping, Mind Mapping- characteristics.
- 3.3 Reflective Journaling- Brief outline.

3.4 Differential Strategies of inclusiveness-Think Pair and Share.

Module 4 - Training in Teaching Skills (15 hrs)

- 4.1 Micro Teaching- characteristics and phases
- 4.2 Micro Teaching Skills- Stimulus Variation, Questioning, using Black Board /White Board.
- 4.3 Link Practice-Integration of skills.

Module 5 - Pedagogical Skill Development (10hrs)

- 5.1 Pedagogy-Pedagogical Knowledge- Pedagogical Competence- meaning and significance.
- 5.2 Pedagogical Skills-Content related skills, Classroom management skills.
- 5.3 Motivational Techniques in teaching natural science.

PRACTICUM (any one)

- 1. Prepare a digital album on any one theme depicting contribution of Natural Science to society
- 2. Prepare an e-assignment on the relevance of Learner Centered Approach in Natural Science
- 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:

- acquaint with the history of Social Science as a discipline
- 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.
- Conceptualise the educational objectives of teaching social science

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 Background of Social Science (10 hours)

- 1.1 Historical Development of Social Science
- 1.2 Contribution of Social Scientists – Auguste Comte, Max Weber, Karl Max, William Thompson
- 1.3 Branches of Social Science – History, Economics, Geography, Political Science, Sociology, Philosophy, Anthropology

Module 2 – Conceptual Background of Social Science (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-Inter and Intra Disciplinary Nature of Social Science (15 hours)

- 3.1 Relationship between various Social Sciences (Political Science, Geography, History and Economics)
- 3.2 Correlation of Social Science with other Disciplines (General Sciences, Languages, Mathematics, ICT and Arts)

Module 4 - Aims and Values of Teaching Social Science (10 hours)

- 4.1 General aims of Teaching Social Science
- 4.2 Values of Teaching Social Science
- 4.3 Anticipated outcomes of teaching Social Science
- 4.4 Objectives of Teaching Social Science at Primary, Secondary and Higher secondary Level

Module 5 - Educational Objectives of Teaching Social Science (15 hours)

- 5.1 Aims and Objectives – Meaning and Differences
- 5.2 Instructional Objectives - B. S. Bloom Taxonomy of Educational Objectives and Revised Bloom Taxonomy
- 5.3 Tri-polar relation- Objectives-Learning Experience-Evaluation (Furst's Paradigm)
- 5.4 Objective Based Instruction and Competency Based Instruction

PRACTICUM (any one)

1. Prepare a digital album/picture album on prominent Social Scientists
2. Read and Reflect on any one Secondary School Social Science Textbooks to find out to what extent they satisfy the objectives of teaching social science
3. Prepare a script to explore the possibilities of drama / theatre to promote creative learning

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.
- 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.
- 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.
- train essential micro teaching skill for effective teaching
- 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- Maxims, Approaches and Methods of Teaching Social Science (10 hrs)

- 1.1 Maxims-Known to Unknown, Particular to General, Simple to Complex, Concrete to Abstract, Empirical to Rational.
- 1.2 Approaches - Teacher Centered, Learner- Centered, Inductive-Deductive and Conceptual-Factual
- 1.3 Methods of Teaching Social Science - Lecture Method, Source method, Story Telling method, Project Method and Problem Solving Method

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

- 2.1 Techniques - Panel Discussion-Symposium-Seminar-Workshop- Debate, Questioning, Assignment, Brain Storming, Buzz session, Dramatization and Role play
- 2.2 Devices for developing Time sense– Chronology charts, Time lines - Progressive, Regressive, Pictorial and Comparative charts

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

Module 3- Innovative Strategies (10hrs)

- 3.1 Co-operative Learning, Team Teaching, Peer tutoring
- 3.2 Brain based Learning-Characteristics- Principles
- 3.3 Characteristics of Concept Mapping
- 3.4 Reflective Journaling – Brief outline

Module 4 – Training in Teaching Skills (15 hrs)

- 4.1 Micro Teaching – Characteristics and phases
- 4.2 Micro Teaching (Skills –Stimulus Variation, Questioning, using Black Board/White Board, Set Induction)
- 4.3 Link Practice-Integration of skills

Module 5-Pedagogical Skills Development (15 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
- 5.2 Motivational Techniques in Teaching Social Science

PRACTICUM (any one)

- 1. Draw a political map of the world and locate the countries
- 2. Prepare four different types of timeline based on any topic from secondary school social science textbook
- 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).
- Phillips, 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.

EDU 104.20: UNDERSTANDING THE DISCIPLINE OF COMMERCE 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

- acquaint with the evolution of Commerce as a discipline
- appreciate the conception and significance of Commerce as a Discipline.
- gain a perspective about the scope of Commerce
- make sense of the, aims, objectives and skills of teaching Commerce.
- internalize the values of teaching Commerce
- gain an insight of the interdisciplinary nature of Commerce
- conceptualize the educational objectives of teaching Commerce Education

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 Commerce (10hrs)

- 1.1 Historical advancement of commerce education.
- 1.2 Branches of commerce- Banking, Marketing, Finance, cost accounting
- 1.3 Contributions of commerce thinkers- luca pacioli, Philip kotler, Marry parker follet and Hentry Fayol

Module 2- Conceptual Background of Commerce education (10hrs)

- 2.1 Meaning-Definition - Scope of Commerce education
- 2.2 Nature of Commerce education as a discipline.
- 2.3 Role of commerce Education in the technological era
- 2.4 Scope of Commerce education in the 21st century.

Module 3 - Inter and intra disciplinary Nature of Commerce. (10hrs)

- 3.1 Correlation with Life
- 3.2 Interdisciplinary approach - Relation of Commerce with other subjects- Economics-Geography - Mathematics- Statistics - International Relations- Management Information system-Management- Technology

Module 4- Aims and values of Teaching Commerce (15hrs)

- 4.1 Aims and objectives-meaning and distinction
- 4.2 Values of teaching Commerce.- social, utilitarian, disciplinary, Vocational
- 4.3 Objectives of teaching Commerce at Higher Secondary Level-Accountancy and Business Studies
- 4.4 Entrepreneurship education

Module 5 -Educational Objectives of teaching commerce education (15hrs)

- 5.1 Blooms Taxonomy of Educational objectives. revised Bloom's taxonomy- conceptual overview
- 5.2 Objective Based Instruction– based on Bloom's Taxonomy (cognitive, affective, psychomotor domain)
- 5.3 Competence Based Instruction
- 5.4 Tripolar relation - Objective, Learning experience, Evaluation

PRACTICUM (any one)

- 1. Prepare a digital album related to any topic in commerce.
- 2. Documentation of source documents in commerce.
- 3. Conduct a debate on any topic in commerce.

REFERENCES

- Aggarwal, J.C. (1996) A Practical Approach. New Delhi: Vikas Publishing House Pvt.Ltd.
- Duffy, T.M& Jonassen, D.H (1992).*Constructivism: New implication for instructional technology*. Hillsdale, NJ: Lawrence Associations.
- Entwistle, N.J.(1987).*Understanding Classroom Learning*. London: john Wiley
- Gagnon, George.W & Michelle, Collay.(2006).*Constructivist learning design*. California: Thousand Oaks.Schultz, Duane and Ellen, Sydney (2012) *Psychology and work today*. New Delhi: Pearson Education.
- Gardner, H.(1983). *Frames of Mind: The Theory of Multiple Intelligences*. New York: Basic Books
- Kumar, Mahesh (2004).*Modern teaching of commerce*. New Delhi: Anmol Publications Ltd.
- Mangal. S.K(2007). *Human Development and learning*, Crow. L.D & Crow Alice(2008) NCERT (2006). *National Curriculum Framework for School Education 2005*. New Delhi.
- Raj, Rani Bansal (1999). *New trends in teaching of commerce: Models of teaching and concept of learning*. New Delhi: Anmol Publications.
- Rao, Seema (2005) *Teaching of commerce*. New Delhi: Anmol Publications Ltd
- Singh,V.K(2006).*Teaching of commerce*. New Delhi:A.P.H. Publishing corporations

EDU 105.20: LEARNING TO FUNCTION AS COMMERCE 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:

- explore the distinctive features of varied instructional approaches, techniques and methods of teaching Commerce
- equip with innovative strategies of Commerce teaching
- entwine models of differentiated teaching in effectual instructional practices of Commerce education.
- fine-tune themselves as innovative pedagogic practitioner.
- outfit prospective teacher in up surging skills for effectual teaching in Commerce

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.

COURSE OUTLINE

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

- 1.1 Maxims of learning-simple to complex-Known to unknown-Particular to general-concrete to abstract
- 1.2 Approaches of teaching Accountancy -Journal approach, Ledger approach, Balance sheet approach, Equation approach, Spiral development approach, Complete cycle approach
- 1.3 Methods of Teaching-lecture method, inductive and deductive method, analytic and synthetic method, project method, case study, source method and market study

Module 2 - Techniques of Teaching Commerce (10hrs)

- 2.1 Techniques of teaching-drill, review, exposition, Narration, Quiz, Buzz, Brainstorming, Role play, simulation, supervised study, Assignment.
- 2.2. Questioning-purpose, characteristics and art of Questioning

Module 3 - Innovative Strategies (15hrs)

- 3.1 Peer tutoring, Team teaching Co-operative learning, Problem based learning

- 3.2 Brain based learning- principles and characteristics
- 3.3 Concept mapping- characteristics
- 3.4 Reflective Journaling: Brief outline
- 3.5 Differentiated strategies for inclusiveness: Think pair, Flexible Grouping.

Module 4- Training in Teaching Skills (10 hrs)

- 4.1 Micro teaching- characteristics and Phases
- 4.2 Skills and its components - Stimulus Variation, Questioning, Introduction, using Black Board/White Board
- 4.3 Link Practice-Integration of skills

Module 5 -Pedagogical Skills Development (15hrs)

- 5.1 Pedagogy-Pedagogical Knowledge-Pedagogical Competence-meaning and significance
- 5.2 Pedagogical Skills- Content related skills, Classroom Management,
- 5.3 Promoting Culturally Inclusive Classroom Environment
- 5.4 Motivational Techniques in teaching.

PRACTICUM (any one)

- 1. Prepare concept map on any unit of Commerce
- 2. Prepare a digital programme at higher secondary level
- 3. Conduct a case study in Commerce and prepare a report

REFERENCES

- Aggarwal, J.C. (1996) A Practical Approach. New Delhi: Vikas Publishing House Pvt.Ltd.
- Ausubel, D.P.(1968).Educational psychology: A Cognitive view. New York: Holt. Bruner, J.S.(1993) (1965).The growth of mind.
- Chaihan, S.S (2006) Advanced Educational Psychology
- Dash,B.N.(2005). Psychology of Teaching Learning Process, New Delhi: Dominant Publishers and Distributors.
- Gardner, H. (1983) Frames of Mind: The Theory of Multiple Intelligences. New York: Basic Books.
- Goleman, D. (1995). Emotional Intelligence. New York McGraw Hill
<http://www.edpolicythoughts.com>
- <http://www.edpsycinteractive.org> <http://www.scribd.com>
- <http://www.wikihow.com/Be-a-Professional-Teacher>
- Joyce, B & Weil, M. (2003). Models of Teaching (5th Ed.) New Delhi Hall Joyce, Bruce; Weil, Marsha (2003). Models of Teaching,
- Kincheloe, J. (2008). Critical Pedagogy (2nd Edn). New York: Peter Lang.
- Korner, S. The Philosophy of Commerce, New York; Herper Torch Books, the science Library
- Kumar, Mahesh (2004). Modern teaching of commerce. New Delhi: Anmol Publications Ltd.
- Malhotra,V (2007). Encyclopaedia of Modern Methods of Teaching Science. New Delhi:

Crescent Publishing Corporation

- 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.
- Raj, Rani Bansal (1999). New trends in teaching of commerce: Models of teaching and concept of learning. New Delhi: Anmol Publications.
- Raj, Rani Bansal (1999). New trends in teaching of commerce: Models of teaching and concepts of learning. New Delhi :Anmol Publications
- Rao, Seema (2005) Teaching of commerce. New Delhi: Anmol Publications Ltd
- Singh, V.K(2006). Teaching of commerce. New Delhi: A.P.H. Publishing corporations
- Soman, K (1988). Ganitha Sasthra Bodhanam, Trivandrum: State Institute of Language (Kerala).
- Tiwari, D.(2007). Encyclopaedia of Modern methods of Teaching, New Delhi: Crescent Publishing Corporation.

EDU 104.21: UNDERSTANDING THE DISCIPLINE OF IT AND COMPUTER SCIENCE 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:

- acquaint with the importance and concept of IT and Computer Science Education
- conceptualize the background of IT and Computer Science and evaluate its Practicability.
- identify the scope and limitations of IT & Computer Science Education
- recognize Teaching as a profession and to understand the multifaceted role of an IT & Computer Science teacher
- relate IT & Computer Science with other subjects
- identify and compare various approaches of teaching IT & Computer Science
- apply the theoretical background of IT & Computer Science to teaching
- internalize the aims and objectives of teaching IT & Computer Science in order to adopt a holistic approach at primary, secondary and higher secondary levels.
- conceptualize the educational objectives of teaching commerce education

MODE OF TRANSACTION

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

COURSE OUTLINE

Module I - Historical Background of IT & Computer Science (10 hrs)

- 1.1 Evolution of computers
- 1.2 Generations of computers
- 1.3 Significance of learning IT in the present scenario
- 1.4 Relevance of learning history of computer
- 1.5 Contributions of IT and Computer Science to the society

Module 2 - Conceptual Background of IT & Computer Science (10 hours)

- 2.1 Meaning, Definition, Nature and Scope of IT & Computer Science
- 2.2 Rationale for inclusion of IT & Computer Science in the Core – curriculum
- 2.3 Role of IT & Computer Science in the present Scenario.
- 2.4. Comparison of IT and ICT

2.5 Paradigm shift in the nature of IT & Computer Science

Module 3-Inter and Intra Disciplinary Nature of IT & Computer Science (15 hours)

- 3.1 Correlation with Life Situation
- 3.2 Correlation with different subjects (Sciences, Languages, Mathematics, Social studies, and Performing Arts-Drama and Theatre)

Module 4- Aims and values of Teaching IT & Computer Science (10 hours)

- 4.1. Aims and Objectives- Meaning and Differences
- 4.2 Values of teaching IT and Computer Science
- 4.3 Objectives of teaching IT and Computer Science in schools

Module 5- Educational Objectives of Teaching IT & Computer Science (15 hours)

- 5.1 Bloom's Taxonomy of Educational Objectives-Revised Bloom's Taxonomy-conceptual overview
- 5.2 Curricular Objectives, Instructional Objectives and Competencies
- 5.3 Tri-polar relation- Objectives-LE-Evaluation, Competence-LA-Evaluation
- 5.4 Objective based instruction
- 5.5 Competence based instruction

PRACTICUM (any one)

- 1. Prepare an e-assignment on the contemporary developments in the field of IT & Computer Science
- 2. Comparison of the past and present teaching - learning process with special reference to IT and Computer Science.
- 3. Conduct a study and prepare a detailed report on the issues faced in the teaching of IT& Computer Science in our school system.

REFERENCES

- Alexey Semenov, UNESCO, (2005): Information and Communication Technologies in Schools: A Handbook for Teachers.
- Alexis Leon and Mathews Leon, Fundamentals of information Technology, New Delhi: Vikas Publishing House.
- Bansal, S.K.(2002), Fundamentals of Information Technology, New Delhi:AHP Publishing corporation
- Cognitive Development: An Information-Processing View DavidKlahr; John Gilbert Wallace.Lawrence Erlbaum Associates.
- Cognitive Neuroscience Paperback – 2010 by Fiori Nicole (Author)
- Cognitive Psychology and Information Processing: An Introduction Roy Lachman; Earl C. Butterfield; Janet L. Lachman. Lawrence Erlbaum Associates.
- 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.

Gunjan Goswami (2012). Introduction to Artificial Intelligence . How the Mind Works by Steven Pinker

IGCSE Information and Communication Technology (Book & CD Rom) By Graham Brown, David Watson

Internet for Everyone (15th Anniversary Edition), 2/e Alexis Leon & Mathews Leon

Introduction to Computers - Leon, 1/e Alexis Leon & Mathews Leon

Introduction to Information Technology, 1/e Sanjay Saxena

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

Mind in Life: Biology, Phenomenology, and the Sciences of Mind by Evan Thompson Mishra

R. B. (2010). Artificial Intelligence

Moursund, D.G. (2005). Introduction to information and communication technology in education.

Pedagogy of Freedom: Ethics, Democracy, and Civic Courage by Paulo Freire Sanjay Saxena (2002) First course in computers-2000 Edition. New Delhi: Vikas Publishing House.

Teaching Critical Thinking: Practical Wisdom by Bell Hooks

EDU 105. 21 : LEARNING TO FUNCTION AS IT AND COMPUTER 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:

- acquaint with different methods, approaches and maxims of teaching
- critically examine teaching learning processes that incorporate inquiry, discovery, conceptual development, activity based learning and brain based learning etc. within the classroom
- 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.
- 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 educational survey, dialogue, ICT enabled teaching and learning

COURSE OUTLINE

Module 1- Maxims, Approaches and Methods of Teaching IT and Computer Science (10 hrs)

- 1.1 Approaches Teacher Centered-Learner- Centered, Conceptual-Factual, Inquiry-Discovery
- 1.2 Methods: Problem Solving Method – Heuristic Approach- Project Method- Demonstration- Inductive& Deductive - Analytic & Synthetic
- 1.3 Maxims: Known to Unknown, Simple to Complex, Concrete to Abstract, General-Particular

Module 2- Techniques of Teaching IT and Computer Science (10 hrs)

- 2.1 Techniques: Panel Discussion, seminar, workshop, debate, simulation, Brain Storming-Buzz session - Quiz-Puzzle-Educational Games, Questioning and Assignment

Module 3- Innovative Strategies (10hrs)

- 3.1 Peer tutoring, Team teaching Co-operative learning Problem based learning
- 3.2 Brain based learning- principles and characteristic
- 3.3 concept mapping- characteristics
- 3.4 Reflective Journaling: Brief outline

Module 4- Training in Teaching Skills (15 hrs)

- 4.1 Micro teaching procedure- characteristics and Phases
- 4.2 Skills and its components. -Stimulus Variation, Questioning, using Black Board/White Board, Set Induction
- 4.3 Link Practice-Integration of 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 Promoting Culturally Inclusive Classroom Environment
- 5.4 Motivational Techniques in Teaching

PRACTICUM (any one)

1. Prepare a concept map for any topic of your choice
2. Prepare an e-assignment on the relevance of learner centered Approach in IT and Computer Science
3. Prepare a digital programme for Secondary/Higher Secondary level

REFERENCES

- Berk, E.L. (2003). Child Development. New Delhi: Pearson Education
- Philips, C.R. (1974) .Teaching for Thinking in High School Studies. USA: Addison & Wesley Publishing Company, Inc.

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

Module 4 – Tournaments and 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 Ashtanga Yoga
- 5.2 Meditative Asanas - Sukhasana - Vajrasana –Padmasana Therapeutic Asanas –
Padahasthasana – Trikonasana – Paschimottanasana – Halasana –
Sarvangasana – Salabhasana – Dhanurasana – Bhujangasana
- 5.3 Physical fitness – Meaning and definition – Components of Health Related
Physical Fitness.
- 5.4 Wellness – Meaning – Definition
- 5.5 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*. Ludhiana: 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.

EDU106.12	:	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 counseling process
- develop the skills and qualities needed for a counsellor
- develop the ability to provide counseling to children and adolescents

MODE OF TRANSACTION

Lecture-cum-discussion, Guidance and counseling, 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-
- 2.2 Objectives at various levels. Individual and group guidance.
- 2.3 Teacher as a guidance worker and career master.
- 2.4 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 behavior 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 behavior problems.

PRACTICUM (any one)

1. Prepare your own plan to organize guidance bureau in schools and also its activities
2. Identify any one behavioral problem among adolescent, causes and remedial measures
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 0195732177.
- 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.
- Cornors, 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: McGraw Hills. Crowell, B.M.E. (1963). Guidance and Counselling in Group. New York: McGraw 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. et al. (1999). Guidance and Counselling. Oxford: Oxford University Press. ISBN 978 019 5729160.
- Narayana Rao. (2002). Counselling and Guidance. II Edition. New Delhi: Tata McGraw 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.OFCREDITS	: 3
CONTACTHOURS	: 60
MARKS	: 60 (External 50 + Internal10)
DURATIONOFEXAMINATION	: 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 Frame work of Elementary Education (15hours)

- 1.1 Concept, meaning, scope and historical perspectives.
- 1.2 Development of elementary education during Vedic, Buddhist, Medieval and British period.
- 1.3 Constitutional provision for elementary education in India(Article21(A)) -Right to Education Act 2009.
- 1.4 The right of children to free and compulsory education KeralaRule2010

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

- 2.1 Kothari Commission 1964
- 2.2 National Policy on Education1986
- 2.3 Revised National Policy1992

- 2.4 Yespal Committee Report 1993
- 2.5 National Curriculum Frame work 2009

Module 3-Challenges and Programmes for achieving UEE (20Hours)

- 3.1 Issues and Challenges of elementary education in India
- 3.2 Multi grade and Multilevel teaching learning process
- 3.3 Strategies for Universal provision and access, enrolment and retention - Quality for elementary education
 - Education for all-Operation Blackboard
 - District Primary Education Programme (DPEP)
 - Sarva Shiksha Abhiyan (SSA)
 - National Programme for Education of Girls at Elementary Level (NPEGEL)
 - Kasturba Gandhi Balaika Vidyalaya (KGBV)
 - Lok Jumbish
 - Shiksha Karmi Project
 - 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 child 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 centers, 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.

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 : VikasPublishing 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 theirPOA's MHRD.

Mohanty, J. (2002). Primary and Elementary Education. New Delhi: Deep &DeepPublicationPvt. Ltd.

Mohanty,J. (1984). Indian Education in Emerging Society. New Delhi: SterlingPublishers.

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 UniversityPress. Salamatullah, (1979). Education in Social Context: New Delhi.

SCERT (2007).Kerala Curriculum Frame work.Thiruvananthapuram:SCERT

Syed, Nurullah&Naik, J. P. (1943).History of education in India-During British Period. Bombay: McMillian & Co. Ltd.

The Right of Children to Free and Compulsory Education Kerala R

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 favorable 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 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.
- 1.3 Environmental Impact Assessment
- 1.4 Legislative measures for environmental protection at national and international level.
- 1.5 Methods and Strategies for cultivating eco literacy at Primary, Secondary and Higher secondary Level
(a) Field trips, workshops, exhibitions, video shows, nature clubs, nature walk and celebration of environment days.

- (b) Practical measures - saving energy, hygiene and sanitation programmes, eco-friendly behavior, organic farming, 'clean and green campus' programme.
- 1.6 Environmental Citizenship – Importance, Environmental ethics and Environmental Accountability.

Module 2 – Our Environment (6 hours)

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

Module 3 – Challenges of Environment (15 hours)

- 3.1 Environmental Pollution- Causes, effects and remedial measures
(a) 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 Waste management - Role and Responsibility of Individuals and Institutions in the management of E-waste, Nuclear waste, Medical Waste, Plastic Waste and Zero waste management.
- 3.5 Disasters: Their impact on the environment. Need and importance of Disaster management training. Role of teachers and educational Institutions in Disaster Management
(a) Natural – Epidemics, Forest fire, Floods, Earth quakes, Droughts, cyclones, landslides and tsunamis.
(b) Man made - Technological and industrial

Module 4 – Education for Sustainable Development (20 hours)

- 4.1 Sustainable Development Meaning and Importance .Concept of Education for sustainable development (ESD)
- 4.2 Natural resources: its Conservation, Role of individual
(a) Forest resources: use and over exploitation and reforestation
(b) Water resources: use and over utilization of surface and ground water, 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.
(e) Energy resources: Growing energy needs, renewable and non renewable energy sources and use of alternate energy source.
- 4.3 Bio-diversity and its conservation:-

- a) 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.

Module 5 – Environment and Behavior (4 hours)

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

PRACTICUM (any one)

1. Construct a medicinal plant garden in your campus and prepare a report on it.
2. Conduct a seminar in your institution on any one of the environmental issues and prepare a report on it.
3. Prepare any Three eco friendly products and evaluate how it helps you in developing environmental accountability.

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 Education and Youth, 2000. Online at <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 Standards, Vol I and II, Enviro Media (R)

UNESCO, Environmental Education – Principles of Teaching and Learning, Paris.

EDU 106.15: SPECIAL 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:

- critically analyse the concept of 'disability' and 'inclusion' and develop a dynamic approach to pupil diversity and individual differences identify needs of children with diversities.
- get acquainted with the cultures, policies and educational practices and equipped with inclusive practices.
- incorporate multidisciplinary approach and innovative practices in inclusive set up.
- use specific strategies and assistive and adaptive technologies in teaching children with special needs in inclusive classrooms.

MODE OF TRANSACTION

Lecture-cum-discussion, Use of narratives based on research and documentation, Project reviews, Case studies, Use of video-clips and transcripts of classroom teaching, Success stories/ innovations, Observation in special schools and other field sites, Recording of observations and experiences, Interviews with special school personnel, Panel or group discussion on psychosocial issues ,Individual projects, Using library , laboratory and ICT resources, Guidance and Counselling, Psychological Tests, ICT based teaching and learning.

COURSE OUTLINE

Module 1 – Special Education (20 Hours)

- 1.1 Definition and Meaning of Special Education
- 1.2 Need and Importance of Special Education In India
- 1.3 Exceptional Children – Concept
- 1.4 Mentally Challenged, Learning Disabled, Gifted and Creative – Definition, Characteristics, Causes, Identification and Educational Provisions.
- 1.5 Visual, Auditory and Speech Impairment – Functional limitations and Educational Needs
- 1.6 Brief Description of Locomotor disabilities, Cerebral Palsy, Autism, ADD/ADHD, Leprosy Cured

Module 2 – Inclusive Education (10 hours)

- 2.1 Concept of Inclusion
- 2.2 Philosophy of inclusive education
- 2.3 Inclusive Practices in Kerala
- 2.4 Difference between Special Education and Inclusive Education

Module 3 – Inclusive Practices and Psycho-social Issues (10 hours)

- 3.1 Creating an Inclusive School-Concept of an inclusive school – infrastructure and accessibility, culture , policies and practices, human resources, attitudes towards disability - School's readiness for addressing learning difficulties
- 3.2 Inclusive Practices in Classroom- Assessment of children to know their profile-Classroom management and organisation-developing strategies for differentiating content, curricular adaptations, lesson planning and Individualised Educational Plan (IEP)-Pedagogical strategies to respond to individual needs of students: Cooperative learning strategies in the classroom, peer tutoring, social learning, buddy system, reflective teaching, multisensory teaching, etc.- Development and application of learner -friendly evaluation procedures- Documentation, record keeping and maintenance.
- 3.3 Psycho-social Issues -Problem behaviour and parental empowerment-Role of Family in raising children with disability.
- 3.4 Legal Rights, Important International Declarations, National Policies and Programmes for the Education of Children with Disabilities
- 3.5 Equipping Teacher Trainees for Inclusive Education

Module 4 – Multidisciplinary Approach (10hrs)

- 4.1 Multidisciplinary Approach - Concept -Individual professionals involved-Need and relevance of multidisciplinary approach in India-Developing positive relationships between school and home. - Involving community resources as source of support to teachers.
- 4.2 Developing support Networks - Supportive services required for meeting special needs in the classroom — special teacher, speech therapist, physiotherapist, occupational therapist and counsellor-Addressing social climate of the classroom- Child to child programme-Developing partnerships in teaching : Teacher and special teacher; teacher and co-teaching personnel ;parents as partners
- 4.3 Inclusive Education a rights based model.

Module 5 – Research Perspectives and Assistive Technology (10 hours)

- 5.1 Assistive and adaptive technology - Concept, Need and Scope
- 5.2. Assistive Technology Devices: Mobility impairment and wheelchairs-Mobility impairment and walkers, Personal emergency response systems-Accessibility software-Assistive technology for visual impairment-Augmentative and alternative communication-Assistive technology for cognition-Prosthesis-Assistive technology in sport-Assistive technology in education-Computer

accessibility-Home automation

5.3 Choosing the right Assistive Technology Devices.

5.4 School's infrastructural facilities for addressing learning difficulties

PRACTICUM (any one)

1. Interview with a special child and prepare a report
2. Prepare a review on a film about exceptional learners
3. Design an Individualized Educational Plan for a special learner.

REFERENCES

- Adams J.A. (1992). Learning and memory An introduction. Homewood, Illinois Dorsey Press.
- Ainscow, M (1990) Special Needs in the Classroom: A Teacher Education Resource Pack , UNESCO.
- Barciey. J.R. (1993). Counselling and Philosophy. San Francisco.
- Berdine, W and Blackhurst (1985). An Introduction to Special Education. Little Brown , Boston.
- Brody. E.B. and Brody. N. (1996). Intelligence Nature, determinants and consequences. New York : Academic Press,
- Butcher. H.J. (1993). Human Intelligence: Its nature and assessment. London Merhuen.
- Floelick. C.P. (1988). Guidance Services in Schools. New York : Allyn & Bacon.
- Gottfried. A.VV. (1995). Home Environment and Early cognitive Development. San Francisco.
- Guilford. J.B. (1996). Fields of Psychology (ed.,) New York: Van Nostrand. Hunter, Ian. M.R. (1994). Memory, London : Penguin Books.
- Johnson D.J. and H.R. Mykleloust (1967), 'Learning Disabilities' Educational Principles and practice. Grune and Stralton, N. Y.
- Jones. A.P. (1994). Principles of Guidance. New York: Holt.
- Keller. F.S. (1997). The Definitions of Psychology (Ed.,). New York: Appleton century. Kirk S.A. (1962), Educating Exceptional Children. Houghton Mifflin Co. Boston
- Larry A. Fais (1976), Learning Disabilities, A Competency Based Approach. Houghton Mifflin Co Boson.
- Montgomery, D. (1990) Special Need in Ordinary Schools: Children with Learning Difficulties, Cassel Educational Limited, London
- Munn. N.L. (1997). Introduction to Psychology. Delhi.
- Petri. H.L. (1995). Motivation: Theory and Research, 2nd ed., Belmont, Cawadsworth. Puri, M and Sen A.K. (1989) Mentally Retarded Children in India. New Delhi: Mittal Publications
- Ramaa, S(1993).Diagnosis and Remediation of Dyslexia –An Empirical Study in Kannada—An Indian Language.M/S Vidyasagar Printing and Publishing House, Mysore.
- RCI, Syllabus, 2010 :B.Ed. Special Education (MR) Norms, Regulations & Course Content Rehabilitation Council of India (Statutory Body under the Ministry of Social Justice and Empowerment) New Delhi
- Sawrey. J.H. and Telford. C. (1998). Educational Psychology (2nd ed.,) New Delhi Prentice Hall of India.
- Sen A, (1988) Psycho-integration of the handicapped: Challenge to the society; New Delhi

Mittal Publication.

- Simth, MDaniel. (1998). Educational Psychology. New York : Allyn & Bacon. Skinner. B.F. (1997). verbal Behaviour. New York : Appleton century Crofts. Subba Rao, T.A. (1992) Manual on Developing Communication Skills in Mentally Retarded persons. NIMH, Secundarabad.
- Thomas C. Lovitt (1989) Introduction to Learning Disabilities, Allyn & Bacon. Travers. R.M. (1993). Educational Psychology. New York: Macmillan,
- Traxier. A. .1. (1990). Techniques of Guidance New Delhi Prentice Hall of India. Watson. LB. (1993). Psychology as a behaviourist views t Psycho. Rev., Vol. 20. Woodworth. R.S. (1994). Experimental Psychology, New York: Hot

SEMESTER II

CORE COURSES

EDU 201: KNOWLEDGE AND CURRICULUM

NO.OFCREDITS	:5
CONTACTHOURS	:100
MARKS	:100 (External 80 + Internal20)
DURATION OFEXAMINATION	: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
- understand the foundations of curriculum construction
- 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 (30hours)

- 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, DrS.Radhakrishnan, Mahatma Gandhi, Rabindranath Tagore, Sri Aurobindo.
- 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 Information.

Module 2 - Paedocentric Education (10hours)

- 2.1 Concept of Paedocentric education
- 2.2 Activity centered education – John Dewey

2.3 Critical Pedagogy-Paulo Friere

Module 3 - Sociological Bases of Education (30 hours)

- 3.1 Sociology and Education
- 3.2 Meaning of Society, Culture and Modernity
- 3.3 Contributions of Dr B .R .Ambedker with respect to equality, equity, individual opportunity and social justice
- 3.4 Contributions of Rabindranath Tagore with respect to Nationalism, Universalism and Secularism.
- 3.5 Social and cultural change-Meaning and features
- 3.6 Contributions of Social Reformers- Raja Ram Mohan Roy, Chattampi Swamikal, Sreenarayana Guru.
- 3.7 Teacher as a social reformer

Module 4 - Curriculum and Values (15hrs)

- 4.1 Curriculum - Meaning and scope
- 4.2 Philosophy of Nation as a foundation 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
- 4.6 Traditional Indian values and Constitutional values.
- 4.7 Role of Education in compacting Social evils- Corruption, Terrorism, Antinational activities, Violence against women, Drug abuse and Alcoholism
- 4.8 Peace Education and Human rights Education

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
- 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. Prepare a Master timetable for a school
2. Conduct a mock parliament on any relevant social issue and submit a report
3. Prepare an album on educational quotes of western and Indian Philosophers.

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. Montaque (2012 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: Allyn and, Bacon.
- 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.: Harvard 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 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. Pergamon 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.andHirstP.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*, DhanpatRai 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.
- SivadasanPillai 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 NaiTalim*. Wardha: NaiTalimSamiti.
- 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; CurrentBooks.

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 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
- 1.2 Factors affecting learning – Nature of the learner, nature of the learning material and nature of learning situation.
- 1.3 Learning curves & learning plateaus
- 1.4 Transfer of learning – types of transfer – teaching for positive transfer
- 1.5 Experiential Learning
- 1.6 Learning styles-KOLB and VAK

Module 2 - Approaches to Learning (25 hours)

- 2.1 Behaviorism – 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

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 Meaning, nature and difference between Attitude, Aptitude and Interest
- 3.5 Testing of Attitude, Aptitude and Interest- Attitude scales, GATB, &DATB, Interest Inventories.
- 3.6 Significance and implications of attitude scales, aptitude tests and inventories in class room teaching and learning.

Module 4 Exceptional learners – (15 hours)

- 4.1 Concept
- 4.2 Characteristics and catering to the needs 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) Delinquent

Module 5 - Psychology of the Group (20 hrs)

- 5.1 Psychological group- meaning and characteristics
- 5.2 Group Dynamics and Group cohesion
- 5.3 Classroom Psychology - classroom behavior in school settings - class control and management-Social relationship in the class room.
- 5.4 Leadership – concept- types /styles of leadership in the classroom - qualities of a leader - inculcating leadership qualities in the learner

PRACTICUM (any one)

1. Prepare a report on any three school practices which foster the mental health of students in their practicing schools.
2. Prepare a report on the learning difficulties faced by students in the school classrooms
3. Conduct interview with any two people of different leadership styles in your neighborhood ad prepare report.

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 203 : ASSESSMENT FOR LEARNING

NO.OFCREDITS	: 3
CONTACTHOURS	: 60
MARKS	: 60 (External 50 + Internal10)
DURATIONOFEXAMINATION	: 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
- 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- conceptual overview
- 1.5 Differentiated assessment-Meaning and significance

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

- 2.1 Achievement test-Teacher made test and standardized test - characteristics, steps in construction (blueprint) and standardization, types of test items – objective, short answer and long answer- its merits and demerits.
- 2.2 Characteristics of good evaluation instrument – validity, reliability, objectivity, practicability, comprehensiveness, objective basedness and discriminating power.
- 2.3 Educational Diagnosis- concept, Steps in the construction of diagnostic test and remedial instruction.

- 2.4 Uses of evaluation - placement, promotion, grouping, diagnosis and remediation.

Module 3 - Reforms in Evaluation (15 hrs)

- 3.1 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
- 3.2 Continuous and comprehensive evaluation - Credit and semester system - Scholastic, co-scholastic, non-scholastic evaluation - -Internal assessment -- Grading - direct and indirect.

Module 4 - Introduction to Research (5 hrs)

- 4.1 Meaning, need & significance, characteristics and scope of research
- 4.2 Types of research- fundamental, applied
- 4.3 Action Research-conceptual view-steps
- 4.4 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 and standard deviation
- 5.4 Measures of relationship - concept of correlation, types of correlation, coefficient of correlation, Spearman's rank order correlation. Percentile and percentile ranks
- 5.5 Normal distribution - normal probability curve and its characteristics, Skewness, Kurtosis.

PRACTICUM (any one)

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

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, McGaw, 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. PrenticeHall.
- 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.htmwww.education.gov.uk/researchandstatistics
- www.ehow.com/how_8082130_name-educational-portfolio.htmlwww.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: Johnwilley and Sons. Inc

PEDAGOGIC COURSES

EDU 204.11 : PEDAGOGICAL DIMENSIONS OF ENGLISH

NO.OFCREDITS	: 3
CONTACTHOURS	: 60
MARKS	: 60 (External 50 + Internal10)
DURATIONOFEXAMINATION	: 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–Psychological dimensions of English Teaching (15 hrs)

- 1.1 Psycho-linguistic principles
- 1.2 Implications of theories related to language development- Behaviourism, Constructivism, and Gardner's Multiple Intelligence
- 1.3 Chomsky's theory of language development (Language Acquisition Device (LAD), Universal Grammar(UG))
- 1.4 Learner factors in second language acquisition (age, gender, intelligence, aptitude, attitude, cognitive style, motivation)

Module 2:Planning for Instruction (15 hrs)

- 2.1 Meaning and importance of planning
- 2.2 Types of planning: Year plan, Unit Plan, Lesson plan
- 2.3 Approaches in Lesson Planning- Herbartian &Constructivism

Module3-Evaluation in English Language Teaching and Learning (10 hrs)

- 3.1 Construction of Achievement test and diagnostic test-remediation
- 3.2 Types of test items: merits and demerits.
- 3.3 Teacher evaluation: criteria for evaluating teacher competency
- 3.4 Student self-evaluation: preparation of self-evaluation tools

Module 4 – Techno-pedagogical content knowledge(10hrs)

- 4.1 Techno-pedagogical content knowledge: meaning and scope
- 4.2 Innovative ways of teaching – web-based learning, virtual classroom, edu blog, smart classrooms and e-content

Module5 - Content Analysis in English(10hrs)

- 5.1 Content analysis: meaning and purpose
- 5.2 Content analysis of English textbooks of standards VIII to X of State Syllabus.

PRACTICUM (any one)

1. Critically analyse any prescribed Course book at the secondary level of 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.

EDU205.11 : CURRICULUM AND RESOURCE DEVELOPMENT IN ENGLISH EDUCATION

NO.OFCREDITS :3

CONTACTHOURS :60

MARKS :60 (External 50 + Internal 10)

DURATION OFEXAMINATION :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 distinguishing different types of curriculum.
- use the resources and instructional support effectively to transact the curriculum
- organize activities related to the English club for developing communicative skills.

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 (10 hrs)

- 1.1 Meaning, Definition, and foundation
- 1.2 Curriculum Planning- factors and phases
- 1.3 Curriculum and Syllabus

Module 2-Curriculum Organization (10 hrs)

- 2.1 Principles of curriculum organization
- 2.2 Approaches to Curriculum Organization-Topical, Unit, Concentric, Spiral
- 2.3 Curriculum Transaction in classrooms

Module 3 - Types of Curriculum (15 hrs)

- 3.1 Activity –oriented, child-centred, Subject-centred, Community-based, Core and Hidden curriculum
- 3.2. Differentiated Curriculum for: Gifted learners, Creative Learners, Slow Learners, Under Achievers, Learning Disabled
Curriculum Reforms and Revisions with reference to NCF and KCF.

Module 4 – Resources of learning and teaching English (15 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
- 4.5 community resources: significance, types and role of teacher in utilizing them

Module 5 - Instructional Support (10 hrs)

- 5.1 Course books/ Text books
- 5.2 Teacher Text/Handbook
- 5.3 Reference Books, Periodicals & Journals
- 5.4 Teaching-learning materials: improvised teaching aids, Manuscript magazine

PRACTICUM (any one)

1. Prepare an enrichment activity for gifted students in your class
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 – Psychological Dimensions of Malayalam Education (15 hours)

- 1.1. Behaviorism in Teaching Malayalam
- 1.2. Constructivism as a Theoretical Backing for Malayalam Education
Implications of the Theory of Multiple Intelligence (Howard Gardner)
- 1.3. Critical Pedagogy as an approach to address Social Issues
- 1.4. Chomskian theory of Language Acquisition (LAD and Universal Grammar)
- 1.5. Incorporating these theories in Malayalam language learning.

Module 2- Planning for Instruction (15 hrs)

- 2.1. Meaning and Importance of Instructional Planning
- 2.2. Types of Planning- Year plan- Unit plan-Lesson Plan
- 2.3. Approaches in Lesson Planning- Herbartian-Constructivist-Implications

in Classroom

Module 3-Evaluation in Malayalam Language Teaching and Learning (10 hrs)

- 3.1. Construction of Achievement test and Diagnostic test-Remediation.
- 3.2. Types of Test Items-Merits and Demerits.
- 3.3. Teacher evaluation-criteria for evaluating teaching competence.
- 3.4. Student self evaluation, preparation of self evaluation tools.

Module 4 – Techno Pedagogical Content Knowledge (10 hrs)

- 4.1. Techno Pedagogical Content Knowledge – Meaning and Scope.
- 4.2. Multimedia Learning in Malayalam -Multimedia Equipments and Uses
- 4.3. Innovative ways of teaching – web-based learning, virtual classroom, Edublog, Smart Classrooms and e-content.

Module 5- Content Analysis in Malayalam (10 hrs)

- 5.1 Content-Analysis-Meaning and Purpose.
- 5.2 Content Analysis of Prescribed Malayalam Readers from Std. VIII-X of Kerala State School Syllabus.

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
2. Publish an article on creative writing in your Blog
3. Critically analyse any prescribed text book from secondary level from State syllabus

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, Susan M. (2007). *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). *Educational Assessment-Tests and Measurements in the Age of Accountability*. Sage Publications Pvt Ltd.
- Wyatt-Smith, Claire; Cumming, Joy (Eds.) (2009). *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 (10 hrs)

- 1.1. Meaning, Definition and Foundation.
- 1.2. Curriculum Planning: Factors and Phases.
- 1.3. Curriculum and Syllabus

Module 2-Curriculum Organization (10 hrs)

- 2.1 Principles of Curriculum Organization
- 2.2. Approaches to Curriculum Organization-Topical, Unit, Concentric and Spiral
- 2.3. Curriculum Transaction in Classrooms.

Module 3 - Types of Curriculum (15 hrs)

- 3.1. Activity-oriented-Child Centered –Subject Centered-Community Based-Core-Hidden.
- 3.2. Differentiated Curriculum- Giftedness- Creative Learners-Slow Learners- - Under Achievers-Learning Disabled

- 3.3. Curriculum Reforms and Revisions with reference to NCF/KCF.

Module 4 - Resources of Learning and Teaching Malayalam (15 hrs)

- 4.1. Library and its organization
- 4.2. Language Lab and its Organization.
- 4.3. Malayalam Club- Activities.
- 4.4. Community Resources –Significance, Types, Role of teacher in utilizing them.
- 4.5. e- Resources for learning Malayalam.

Module 5- Instructional support (10hrs)

- 5.1. Course Book/Text Book.
- 5.2. Teacher Text/Handbook
- 5.3. Reference Books, Periodicals and Journals.
- 5.4. Teaching Learning Materials. Improvised Teaching Aids. Manuscript Magazines.

PRACTICUM (any one)

1. Make a script for short film on current issues with live, real models.
2. Prepare an article on critical evaluation of current secondary school curriculum.
3. Identify and Prepare a list of community resources of the nearby school.

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 Education Linn (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 204.13 : PEDAGOGICAL DIMENSIONS OF HINDI

NO.OFCREDITS	:3
CONTACT HOURS	:60
MARKS	:60 (external 50 + internal10)
DURATIONOFEXAMINATION	:2 hours

OBJECTIVES

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

- understand the implications of psycho linguistic principles in teaching Hindi
- explore pedagogical approaches for the teaching of the subject
- make the student-teacher understand the need and importance of instructional planning
- make the student-teacher competent to prepare unit plan , year plan and teaching manuals
- make the student teacher understand the meaning, scope and importance of content analysis.
- develop competency to analyse the Hindi text books prescribed for standard VII to XII to make the student-teacher competent to develop discourses prescribed for Secondary and Higher secondary level
- make student teachers understand about techno- pedagogic content knowledge
- acquire deeper insight about scope and functions of evaluation and different types of evaluation
- construct an achievement test

MODE OF TRANSACTION

Lecture-cum-demonstration, Brain storming, Problem solving, Group work, Video presentations, Case study, Assignment, Seminar, Project, ICT based teaching and learning

COURSE OUTLINE

Module 1 – Psychological Dimensions of Hindi Teaching (15 hrs)

- 1.1 Psycho linguistic principles- Behaviorism, Constructivism
- 1.2 Implication of the theory of Multiple intelligence by Howard Gardner
- 1.3 Noam Chomsky’s theory of language development
- 1.4 Learner factors in second language acquisition (Age, Sex, Intelligence, Aptitude, Motivation, Personality disposition, Cognitive style and Attitude)

Module 2- Planning for Instruction (15 hrs)

- 2.1 Meaning and importance of Planning
- 2.2 Types of planning-Year plan, Unit plan and Lesson plan

- 2.3 Approaches in lesson planning- Herbartian , Constructivist

Module 3 – Evaluation in Hindi Language Teaching and Learning (10 hrs)

- 3.1 Construction of Achievement test and Diagnostic test - remediation
3.2 Types of test items – merits and demerits
3.3 Teacher evaluation – criteria for evaluating teaching
3.4 Students' self-evaluation – Preparation of tools.

Module 4 - Techno-Pedagogical Content Knowledge (10 hrs)

- 4.1 Techno-pedagogical content knowledge – Meaning and scope
4.2 Ways to link technology with pedagogical content knowledge

Module 5 - Pedagogic Analysis in Hindi (10 hrs)

- 5.1 Meaning and purpose of Content analysis
5.2 Content analysis of Hindi text books (Standard VIII-X State syllabus)
Linguistic content-Ideational content- Linguistic content-Vocabulary- Synonyms,
Antonyms-Gender-Singular and Plural words-Idioms and Phrases.

PRACTICUM (Any one)

- 1 Prepare an article on e- resources in teaching Hindi
- 2 Content analysis of Hindi text books prescribed for State syllabus for any one class (Secondary level)
- 3 Critically analyse any prescribed course book from secondary level for state syllabus

REFERENCES

- Agnihotri, R.K. and Khanna, A.L. (2002). Second Language Acquisition. New Delhi: Sage Publications.
- Anderson, J.B. (1980). Cognitive Psychology and its Implications. San Francisco W.H. Freeman and Company.
- Armstrong, T. (2001). Multiple Intelligence in the Classroom. Washington D.C: ASCD.
- Ausubel, David, P, Joseph. D Novak & Helen Hanesian. (1968). Educational Psychology: A cognitive view. Holt, Rinehart and Winston Inc.
- Bhatnagar Suresh. Shiksha Ke Samasyayem. Meerut: Loyal Book Depot. Chomsky, N. (1957). Syntactic Structure. The Hague: Mouton and Co.
- Dale, E. (1967). Audiovisual Methods in Teaching. New York: The Dryden Press. Dash, B.N. (2005). Psychology of Teaching Learning Process. New Delhi: Dominant Publishers and Distributors.
- Gagne, R.M. (1985). The Cognitive Psychology of School Learning. Boston: Little. Gardner, Howard. (1993). Frames of Mind-The Theory of Multiple Intelligence. New

York: Basic Books.

Heck, S.E; and Williams, C.R. (1984). The Complex Roles of the Teacher. New York: Teachers College, Columbia University.

Hooper, R. (Ed.). (1971). The Curriculum: Context, Design and Development. Edinburg: The Open University.

Jeeth, Yogendra, B. (1986). ShikshaMemAdhunikPravrithiyam. Agra: VinodPustakMahal.

Jeeth, Yogendra, B. (2005). Hindi Shikshan. Agra: VinodPustakMandir.

EDU 205.13: CURRICULUM AND RESOURCE DEVELOPMENT IN HINDI EDUCATION

NO.OFCREDITS	:3
CONTACTHOURS	:60
MARKS	:60 (external 50 + internal10)
DURATION OFEXAMINATION	:2hours

OBJECTIVES

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

- understand meaning, definition and foundations of curriculum
- understand the difference between Curriculum and Syllabus
- critically analyse the principles and approaches to curriculum development, curriculum organization and curriculum mapping.
- differentiate different types of curriculum and Curriculum reforms and revisions
- acquaint with differentiated curriculum
- understand about library and its organization and online learning
- examine the importance of textbooks and reference books and the role social media in learning Hindi
- develop competency in evaluating the importance of teaching-learning aids

MODE OF TRANSACTION

Lecture-cum-demonstration, Brain storming, Problem solving, Group work, Video presentations, Case study, Assignment, Seminar, Project, ICT based teaching and learning.

COURSE OUTLINE

Module 1 - Curriculum (15 hrs)

- 1.1 Meaning- Definition and foundations
- 1.2 Curriculum planning factors and phases
- 1.3 Curriculum and Syllabus

Module 2 - Curriculum organization (15 hrs)

- 2.1 Principles of curriculum organization
- 2.2 Approaches to curriculum organization (Topical, Concentric, Spiral)
- 2.3 Curriculum transaction

Module 3 - Types of Curriculum (10 hrs)

- 3.1 Activity oriented, Child centered, Subject centered, Community based, Core and

- Hidden curriculum
- 3.2 Differentiated curriculum to meet individual differences (catering the needs of gifted, creative and slow learners)
- 3.3 Curricular reforms and revisions with reference to NCF and KCF

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

- 4.1 Library and its organisation
- 4.2 Language laboratory and its organization
- 4.3 Hindi club and its activities
- 4.4 e- resources for learning Hindi
- 4.5 Community resources – significance – types and role of teachers in utilizing them

Module 5 Instructional support (10 hrs)

- 5.1 Course books / Textbooks
- 5.2 Teachers' hand book / Teacher text
- 5.3 Reference books periodicals and journals
- 5.4 Teaching-learning materials – Improvised teaching aids – Manuscript magazines

PRACTICUM (any one)

1. Prepare a hand book based on any unit of Hindi text book at Secondary level
2. Suggest activities to develop communicative skills through the Hindi club
3. Prepare a report on the major highlights on language education in NCF/KCF

REFERENCES

- Agnihotri, R.K. and Khanna, A.L. (2002). Second Language Acquisition. New Delhi: Sage Publications.
- Anderson, J.B. (1980). Cognitive Psychology and its Implications. San Fransisco W.H. Freeman and Company.
- Armstrong, T. (2001). Multiple Intelligence in the Classroom. Washington D.C: ASCD.
- Ausubel, David, P, Joseph. D Novak & Helen Hanesian. (1968). Educational psychology: A cognitive view. Holt, Rinchart and Winston Inc.
- Bhatnagar Suresh. Shiksha Ke Samasyayem. Meerut: Loyal Book Depot. Chomsky, N. (1957). Syntactic Structure. The Hague: Mouton and Co.
- Dale, E. (1967). Audiovisual Methods in Teaching. New York: The Drygen Press. Dash, B.N. (2005). Psychology of Teaching Learning Process. New Delhi: Dominant Publishers and Distributors.
- Gagne, R.M. (1985). The Cognitive Psychology of School Learning. Boston: Little. Gardner, Howard. (1993). Frames of Mind-The Theory of Multiple Intelligence. New York: Basic Books.
- Heck, S.E; and Williams, C.R. (1984). The Complex Roles of the Teacher. New York: Teachers College, Columbia University.
- Hooper, R. (Ed.). (1971). The Curriculum: Context, Design and Development.

Edinburg: The Open University.

Jeeth, Yogendra, B. (1986). ShikshaMemAdhunikPravrithiyam. Agra: VinodPustakMahal.

Jeeth, Yogendra, B. (2005). Hindi Shikshan. Agra: VinodPustakMandir.

Kumar, VijendraVarisht. (2004). Shiksha Mano Vigyan. New Delhi: Arjun Publishing House.

Lal, Raman Bihari. Hindi Shikshan. Meerut: Rastogi Publications. Mangal, Uma.(1991). Hindi Shikshan. New Delhi: Arya Book Depot. Mathur, S.S. (2005). Sikshan Kala. Agra: VinodPustakMandir.

Mathur, S.S. ShikhaManovigyan. Meerut: Lyal Book Depot.

Narang, Bhatia. (1995). AdhunikShikshanVidhiyam.Ludhiyana: Prakash Brothers

PublishingndThyagi. (1996). SikshaKeSamanyaSiddhant. Agra: VinodPustakMandir.

Pal, H.R. & Sharma, M. (2007). Education of Gifted (Hindi).NewDelhi: Kshipra. Pande, K.P.

(1988). Advanced Educational Psychology (2nd ed.) Delhi. Konark

Publishers Pvt.Ltd.

Pandey, S.K and Sharma, R.S. (2008).Encyclopaedia of Modern Techniques of Teaching.

New Delhi: Common Wealth Publishers.

Saxena, N.R. Swaroop. (1996). SikhaKeSamanyaSiddhant. Meerut: Lyall Book Depot.

Saxena, N.R. Swaroop. Shikhan Kala EvamPadhatiyam, Meerut: Loyal Book Depot.

Singh, Savitri. Hindi Shikshan. Meerut: Lyall Book Depot.

Sinha, P.K. (1992). Computer Fundamentals: Concepts, Systems and Applications.

NewDelhi: BPB Publications.

EDU204.14: PEDAGOGICAL DIMENSIONS OF SANSKRIT

NO.OFCREDITS	:3
CONTACTHOURS	:60
MARKS	:60 (External 50 + Internal10)
DURATIONOFEXAM	:2 hours

OBJECTIVES

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

- understand the psychological principles of language teaching
- understand the need and importance of instructional planning
- make the student-teacher competent to prepare unit plan , year plan and teaching manuals
- acquire deeper insight about scope and functions of evaluation and different types of evaluation
- make student teachers understand techno-pedagogical content knowledge
- understand innovative ways of teaching
- understand the meaning, scope and importance of content analysis.
- develop competency to analyse the Sanskrit text books prescribed for standard VIII to X to teach the language effectively

MODE OF TRANSACTION

Lecture-cum-demonstration, Power point presentation, Video Presentation, Interview, General Discussion, Group Discussion, Brain storming, Problem solving, Assignment, seminar, Project work, Case study, Group work, Creative work shop, Resource centre visit, Video conferencing, Voice/ Video Chatting with Scholars, Visiting Sanskrit villages and interacting with Sanskrit Speaking people, ICT based teaching and learning.

COURSE OUTLINE

Module 1 - Psychological Dimensions of Sanskrit teaching. (15hrs)

- 2.1 Psycho-linguistic principles
- 2.2 Implications of theories on language development – Behaviorism, Constructivism and Gardner's theory of Multiple intelligence
- 2.3 Chomsky's theory of language development -(LAD and Universal Grammar)
- 2.4 Learner factors in second language acquisition (age, gender, intelligence, aptitude, motivation, personality disposition, cognitive style and attitude)

Module 2 - Planning for Instruction (15hrs)

- 2.1 Meaning and importance of planning
- 2.2 Types of planning-Year plan, Unit plan and Lesson plan

2.3 Approaches in lesson planning- Herbartian, Constructivist

Module 3 –Evaluation in Sanskrit Language Teaching and Learning (10 hrs)

- 3.1 Construction of Achievement test and Diagnostic test – Remediation
- 3.2 Types of test items – Merits and demerits
- 3.3 Teacher evaluation-criteria for evaluating teacher competence
- 3.4 Student Self Evaluation – preparation of self-evaluation tools

Module 4 - Techno-pedagogical content knowledge (10 hrs)

- 4.1 Techno-pedagogical content knowledge: Meaning and Scope
- 4.2 Innovative Ways of teaching : Web based learning – Virtual classrooms - Edu blogs, Smart classrooms and e- content

Module 5 - Content Analysis in Sanskrit (10 hrs)

- 5.1 Content analysis: Meaning and purpose
- 5.2 Content analysis of Sanskrit text books of VIII -X of State syllabus

PRACTICUM (anyone)

1. Prepare a remedial teaching package for secondary school students
2. Prepare a self-study material for learning Sanskrit
3. Prepare an innovative study material for teaching Sanskrit at high school level

REFERENCES

- On teaching poetry –Haddon
- SamskrithaAdhipana – ViswanathaSarma
- SamskrithaSiksha –Ramasuklapandya
- The teaching of Sanskrit - D.G.Apte
- SamskrithaSikshanaVidi –RaghunathaSaphaya
- SamskrithaBhashadhyapanam - Prof.Sahadevan
- Methods of Teaching Sanskrit - Prof.Ramavarma
- History of Sanskrit teaching –Macdonell
- Teaching techniques - DasR.C.
- Language in Education - Omkar N.Koul
- Sanskrit and Science - S.S.JanakiKupu
- The problems of Sanskrit teaching:Hupanikar
- SamskritaSahityaVimarsanam:Dr.N.V.P.Unithiri
- Upanishads in education : V. Surendran nEdkkidath
- Practical Sanskrit Grammar - PRDSarma
- First Book of Sanskrit and Second Book of Sanskrit –Bhandarkar
- A Sanskrit Grammar for students - A Macdovel

- Kuvalayanadam –AppayaDikshidar
- KeraleeyaSamskrutadhyapanavidhaya – Dr. K. R. Harinarayanan
- Laghusidhantakaumudi –VaradarajaPanditan
- Sidharupa
- Rasa and Dhvani - Dr. A.Sankaran
- History of Sanskrit Literature –Keith
- Sahityadarpana – Viswanadha
- Vritaratnakara – Kedarabhattaha
- Sabdasodhini - A. R.RajarajaVarma
- Vritamanjari - Pingalamuni

EDU 205.14 : CURRICULUM AND RESOURCE DEVELOPMENT IN SANSKRIT EDUCATION

NO.OF CREDITS	: 3
CONTACT HOURS	: 60
MARKS	: 60 (External 50 + Internal10)
DURATION OF EXAMINATION	: 2 hours

OBJECTIVES

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

- understand meaning, definition and foundations of curriculum
- understand the difference between Curriculum and Syllabus
- critically analyse the principles and approaches to curriculum organization
- differentiate different types of curriculum and Curriculum reforms and revisions
- acquaint with differentiated curriculum
- understand about various resources of learning and teaching Sanskrit
- examine the importance of textbooks, teacher text and reference materials in learning Sanskrit
- understand the importance of and develop competency in utilizing teaching-learning aids in teaching Sanskrit

MODE OF TRANSACTION

Lecture-cum-demonstration, Power point presentation, Video Presentation, Interview, General Discussion, Group Discussion, Brain storming, Problem solving, Assignment, seminar, Project work , Case study, Group work, Creative work shop, Resource centre visit , Video conferencing, Voice/ Video Chatting with Scholars, Visiting Sanskrit villages and interacting with Sanskrit Speaking people, ICT based teaching and learning

COURSE OUTLINE

Module 1 - Curriculum (10hrs)

- 1.1 Meaning- Definition and foundations
- 1.2 Curriculum planning – Factors and Phases
- 1.3 Curriculum and Syllabus

Module 2 - Curriculum Organization (10hrs)

- 2.1 Principles of curriculum organization
- 2.2 Approaches to curriculum organization (Topical, Concentric, Spiral)
- 2.3 Curriculum transaction in Classrooms

Module 3 - Types of Curriculum (15hrs)

- 3.1 Activity oriented, Child centred, Subject centred, Community based, Core and

- Hidden curriculum
- 3.2 Differentiated curriculum (gifted, creative, slow learners, under achievers and learning disabled)
 - 3.3. Curricular reforms and revisions with reference to NCF and KCF

Module 4 - Resources of Learning and Teaching Sanskrit (10 hrs)

- 4.1 Library and its organization
- 4.2 Language laboratory and its organization
- 4.3 Sanskrit Club and its activities
- 4.4 e-resources for learning Sanskrit
- 4.5 Community resources : Significance, Types, and role of teacher in utilizing them

Module 5 -Instructional support (10 hrs)

- 5.1 Course books/ Textbooks,
- 5.2 Teachers' handbooks/Teacher text
- 5.3 Reference books, Periodicals, Journals
- 5.4 Teaching learning materials ,Improvise teaching aids, manuscript magazine

PRACTICUM (any one)

1. Prepare digital and multimedia materials for teaching Sanskrit (H.S, H.S.S)
2. Analyse the principles and approaches to curriculum organization of CBSE and STATE syllabi.
3. Write a comparative note on Sanskrit grammar with that of other languages.

REFERENCES

- On teaching poetry –Haddon
- SamskrithaAdhipana – ViswanathaSarma
- SamskrithaSiksha –Ramasuklapandya
- The teaching of Sanskrit - D.G.Apte
- SamskrithaSikshanaVidi –RaghunathaSaphaya
- SamskrithaBhashadhyapanam - Prof.Sahadevan
- Methods of Teaching Sanskrit - Prof.Ramavarma
- History of Sanskrit teaching –Macdonell
- Teaching techniques - DasR.C.
- Language in Education - Omkar N.Koul
- Sanskrit and Science - S.S.JanakiKupu
- The problems of Sanskrit teaching:Hupanikar
- SamskritaSahityaVimarsanam:Dr.N.V.P.Unithiri
- Upanishads in education : V. Surendran nEdkkidath
- Practical Sanskrit Grammar - PRDSarma
- First Book of Sanskrit and Second Book of Sanskrit –Bhandarkar

- Sanskrit Grammar for students - AMacdovel
- Kuvalayanadam –AppayaDikshidar
- KeraleeyaSamskrutadhyapanavidhaya – Dr. K. R. Harinarayanan
- Laghusidhantakaumudi –VaradarajaPanditan
- Sidharupa
- Rasa and Dhvani - Dr. A.Sankaran
- History of Sanskrit Literature –Keith
- Sahityadarpana – Viswanadha
- Vritaratnakara – Kedarabhattaha
- Sabdasodhini - A. R.RajarajaVarma
- Vritamanjari – Pingalamuni

EDU 204.15 : PEDAGOGICAL DIMENSIONS OF ARABIC

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 Arabic 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 – Psychological Dimensions of Arabic Education (15 hours)

- 1.1. Behaviorism in Teaching Arabic
- 1.2. Constructivism as a Theoretical Backing for Arabic Education
- 1.3. Implications of the Theory of Multiple Intelligence (Howard Gardner)
- 1.4. Critical Pedagogy as an approach to address Social Issues
- 1.5. Chomskian theory of Language Acquisition (LAD and Universal Grammar)
- 1.6. Incorporating these theories in Arabic language learning.

Module 2- Planning for Instruction (15 hrs)

- 2.1. Meaning and Importance of Instructional Planning
- 2.2. Types of Planning- Year plan- Unit plan-Lesson Plan
- 2.3. Approaches in Lesson Planning- Herbartian-Constructivist-Implications

in Classroom

Module 3-Evaluation in Arabic Language Teaching and Learning (10 hrs)

- 3.1. Construction of Achievement test and Diagnostic test-Remediation.
- 3.2. Types of Test Items-Merits and Demerits.
- 3.3. Teacher evaluation-criteria for evaluating teaching competence.
- 3.4. Student self evaluation, preparation of self evaluation tools.

Module 4 – Techno Pedagogical Content Knowledge (10 hrs)

- 4.1 Techno Pedagogical Content Knowledge – Meaning and Scope.
- 4.2 Multimedia Learning in Arabic -Multimedia Equipments and Uses
- 4.3 Innovative ways of teaching – web-based learning, virtual classroom, Edublog, Smart Classrooms and e-content.

Module 5- Content Analysis in Arabic (10 hrs)

- 5.1 Content-Analysis-Meaning and Purpose.
- 5.2 Content Analysis of Prescribed Arabic Readers from Std. VIII-X of Kerala State School Syllabus.

PRACTICUM (any one)

1. Power Point presentation to Develop the ability of communication skill in Arabic Language
2. Prepare assignment about the interrelationship of Arabic to other languages
3. Prepare a self-study material for learning Arabic

REFERENCES

- “Tharaiq Thadrees wa statheejyathuhu” Dr. Muhammed Mahmood al haila , Dar al kitab al jamie’l, Al Ain , UAE
- “Tha’leem al lugha al arabiyya baina al nadriyya wa thatbeeq” Dr. Hasan Shahata, al dar misriyya al lubnaniyya
- Al muallim al Najih” : Dr. Abdullah al Amiri, dar usama linnashri wa thaouzee’a Mushkilat thaa’leem al lugha al Arabiyya; Abbas mahmood, dar al ssaqfa, Qatar.
- “Tharaiq Thadrees wa statheejyathuhu” Dr. Muhammed Mahmood al haila , Dar al kitab al jamie’l, Al Ain , UAE
- Mushkilat thaa’leem al lugha al Arabiyya; Abbas mahmood, dar al ssaqfa, Qatar.
- Al muallim al Najih” : Dr. Abdullah al Amiri, dar usama linnashri wa thaouzee’a

EDU 205.15 : CURRICULUM AND RESOURCE DEVELOPMENT IN ARABIC 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 (10 hrs)

- 1.1. Meaning, Definition and Foundation.
- 1.2. Curriculum Planning: Factors and Phases.
- 1.3. Curriculum and Syllabus

Module 2-Curriculum Organization (10 hrs)

- 2.1 .Principles of Curriculum Organization
- 2.2. Approaches to Curriculum Organization-Topical, Unit, Concentric and Spiral
- 2.3. Curriculum Transaction in Classrooms.

Module 3 - Types of Curriculum (15 hrs)

- 3.1. Activity oriented-Child Centred –Subject Centred-Community Based and Core.
- 3.2. Differentiated Curriculum- Gifted Learners - Creative Learners-Slow Learners- - Under Achievers-Learning Disabled
- 3.3. Curriculum Reforms and Revisions with reference to NCF and KCF.

Module 4 - Resources of Learning and Teaching Arabic (15 hrs)

- 4.1. Library and its organization
- 4.2. Language Lab and its Organization.
- 4.3. Arabic Club- Activities.
- 4.4. Community Resources –Significance, Types, Role of teacher in utilizing them.
- 4.5. e- Resources for learning Arabic.

Module 5- Instructional support (10hrs)

- 5.1. Course Book/Text Book.
- 5.2. Teacher Text/Handbook
- 5.3. Reference Books, Periodicals and Journals.
- 5.4. Teaching Learning Materials. Improvised Teaching Aids. Manuscript Magazines.

PRACTICUM (any one)

1. Prepare an enrichment activity for gifted students in your class.
2. Prepare an e-learning resource to teach any lesson from the Arabic Course book.
3. Prepare a report on the major high lights of language education in NCF and KCF

REFERENCES

Tha'leem al lugha al arabiyya baina al nadriyya wa thatbeeq" Dr. Hasan Shahata, al dar misriyya al lubnaniyya

" Tharaiq Thadrees wa statheejjiyyathuhu" Dr. Muhammed Mahmood al haila , Dar al kitab al jamie'I, Al Ain , UAE)

"Tha'leem al lugha al arabiyya baina al nadriyya wa thatbeeq" Dr. Hasan Shahata, al dar misriyya al lubnaniyya

Al Muwajjah al fanni li mudarrisee al lugha al Arabiyya: Abdul al Aleem Ibrahim; Dar al Maa'rif, al Qaahira

Altharbiya wa thuruqu thadrees,Salih Abdul Azeez & Abul aziz Abdul Majeed , Dar al Ma'arif, Al Qahira .

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:

- capacitate systematic planning of instruction and develop skill in charting lesson designs
- apprehend the pedagogy of Mathematics of Secondary level
- 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
- conceptualize the ideology of Constructivism in Mathematics 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 – Psychological Dimensions of Mathematics Teaching(15 Hours)

- 1.1 Conceptual analysis of : constructivism - cognitive, social; Theory of multiple Intelligence ; Experiential learning
- 1.2 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 – Evaluation in mathematics Teaching and Learning (12 hours)

- 3.1 Construction of Achievement test and Diagnostic test and remediation
- 3.2 Types of test items-merits and demerits
- 3.3 Teacher Evaluation –Criteria for evaluating teaching competence
- 3.4 Student self evaluation- Preparation of tools

Module 4 -Techno pedagogic Content Knowledge (8 hours)

- 4.1 Pedagogic Content Knowledge-Techno Pedagogic Content Knowledge
- 4.2 Ways and means to link Technology to Pedagogic Content Knowledge.
- 4.3 Teacher as a techno-pedagogue

Module 5 - Content analysis in Mathematics (10 hours)

Content analysis of Mathematics curriculum from standard VIII 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. Prepare a self designed innovative lesson of your choice
3. Prepare a unit test on any topic of your choice in Mathematics

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. MedicalEducation, 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 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 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 learning resources
- get acquainted with online 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 (10 hours)

- 1.1 Meaning, definition and foundations
- 1.2 Curriculum Planning factors and Phases
- 1.3 Distinction of curriculum from syllabus

Module 2 - Curriculum Organization (20 hours)

- 2.1 Principles of curriculum construction- Objective Based, Child centered, Activity based, Correlated, Overcoming Individual differences, fulfilling the requirements of Higher Education, Flexible and Feasible.
- 2.2 Principles of Curriculum Organization
-Logical and Psychological
- 2.3 Approaches to curriculum organization- Spiral, Topical, Concentric, and integrated.

Module 3 - Types of Curriculum (12 hours)

- 3.1 Community Based, Core, , Explicit, Hidden/ Implicit,
- 3.2 Differentiated Curriculum to meet individual differences of gifted, slow learners, under achievers, learning disabled

3.3 Mathematics Education- major highlights in NCF&KCF

Module 4 - Learning Resources in Mathematics (10 hours)

4.1 Mathematics Library and its function

4.2 Mathematics Laboratory and its function

4.3 Online resources – online library, online laboratory, online journals

4.4 Mathematics journal

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

5.5 Virtual class room

5.6 Smart classroom

PRACTICUM (any one)

1. Prepare a digital Question Bank on any one Unit at Secondary school level
2. Prepare a report on the major high lights of mathematics education in NCF
3. Prepare a report on various online mathematical journals

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. (2nd Ed). 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:

- 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 -Psychological Dimensions of Physical Science Teaching (15)

- 1.1 Behaviorism-Implications
- 1.2 Theory of Multiple Intelligence-Implications
- 1.3 Constructivism – cognitive and social- Implication
- 1.4 Critical Pedagogy as an approach to address social issue

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 – Evaluation in Physical Science Teaching and Learning (10hrs)

- 3.1 Construction of Achievement test, Diagnostic test- remediation
- 3.2 Types of Test items – Merits and Demerits
- 3.3 Teacher Evaluation–Criteria for evaluating teaching competence
- 3.4 Student self evaluation - preparation of tools

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 Teacher as a techno-pedagogue

Module 5 – Content Analysis in Physical Science (10hrs)

Content analysis of Physical Science curriculum from standard VIII-X State syllabus and selected topics from plus 2 (Current electricity, Ray optic, Magnetism and Matter, Thermo dynamics, Redox reactions and Surface chemistry)

PRACTICUM (any one)

1. Analyse the content of any one unit of Std. VIII/IX/X/XI/XII of CBSE/ICSE/STATE syllabus
2. Prepare an e-learning material based on any topic in Physical Science at Secondary School Level
3. Prepare a self designed innovative lesson design of your choice

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
- Janie Gross Stein, Richard Stein(Ed.)(2001)Network of knowledge: Collaborative innovation in international learning: TorontoCanada, University of Toronto Press incorporated.
- 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.
- Kincheloe, J. (2008). Critical Pedagogy (IInd Edition) New York; Peter Lang
- 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.
- 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.
- Mohan, R.(1995). Innovative science teaching for physical Science. New Delhi: Prentice Hall.
- 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. (1999). Perspectives in physical scienceteaching. Kottayam: Vidyarthi Mithram.
- Rajan, K.M., Sindhu, B. S., Josen George, Sebu, G and Sajan, R.K.(2010)
- 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.
- 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.
- 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 Curriculum- Meaning, definitions and foundations.
- 1.2 Curriculum and syllabus
- 1.3 Curriculum Planning : Factors and Phases

Module 2 - Curriculum Organization (10hrs)

- 2.1 Principles of Curriculum construction
- 2.2 Approaches to curriculum organization- spiral, Concentric, Movement down a long Road, The swing of a Pendulum, Historical , Topical,

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 - gifted, slow learners, under achievers ,Learning disabled
- 3.3 Major highlights of Physical Science education in NCF and KCF.

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

- 4.1 Library and its functions
- 4.2 Laboratory and its functions
- 4.3 Online learning resources-online library, online laboratory, online journals
- 4.4 Science Journal

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

- 5.1 Text Book and reference Books
- 5.2 Work Book
- 5.3 Teachers Text Book
- 5.4 Improvised Aids
- 5.5 Virtual classroom-role in Physical Science learning
- 5.6 Smart board - uses

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 major highlights of Science education in NCF/KCF.

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, 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 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 secondary school. 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 Psychological Dimensions of Natural Science Teaching (15 hrs)

- 1.1 Implication of behaviorism in learning natural science.
- 1.2 Constructivism as a Theoretical backing for Natural Science Education
- 1.3 Implications of the theory of Multiple Intelligence- Howard Gardner
- 1.4 Critical Pedagogy as an approach to address social issues

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 and Constructivism-Innovative

Module 3 - Evaluation in Natural Science Teaching and Learning (15hrs)

- 3.1 Construction of Achievement Test, Diagnostic Test – Remediation
- 3.2 Types of Test items – Merits and Demerits
- 3.3 Teacher evaluation- Criteria for evaluating teaching competence.
- 3.4 Student self evaluation- preparation of tools

Module 4- Techno Pedagogic Content Knowledge (10 hrs)

- 4.1 Pedagogic Content Knowledge-Techno Pedagogic Content Knowledge.
- 4.2 Ways and means to link Technology to Pedagogic Content Knowledge.
- 4.3 Teacher as a Techno – Pedagogue.

Module 5 - Content Analysis in Natural Science(10hrs)

Content-Analysis of prescribed Biology textbooks from Std. VIII-X State syllabus.

PRACTICUM (any one)

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

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).
- Hamill (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 analyze 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 (15hrs)

- 1.1 Curriculum -meaning –definition –foundations.
- 1.2 Curriculum Planning – Factors and Phases
- 1.3 Curriculum and Syllabus

Module 2- Curriculum Organization (15hrs)

- 2.1 Principles of curriculum construction
- 2.2 Approaches to Curriculum Organization-Topical, Unit, Concentric, Spiral, Progressive and Regressive- Interdisciplinary.

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–Gifted, Slow Learners, Under Achievers and Learning Disabled.
- 3.3 Curriculum Reforms and Revisions with reference to NCF and KCF

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

- 4.1 Library and its organization.
- 4.2 Laboratory and its organization.
- 4.3 Online resources- (Online Library, Online laboratory, Online journals).
- 4.4 Science Journal.
- 4.5 Field Trip

Module 5 - Instructional support (10hrs)

- 5.1 Text book and Reference books.
- 5.2 Workbook.
- 5.4 Teacher's Handbook.
- 5.4 Improvised Teaching aids.
- 5.5 Virtual Classroom.
- 5.6 Smart classroom.

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
3. Conduct a Debate on a life science based issue and prepare a self evaluation report

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:

- endow with the significance Psychological bases of Social Science Education
- 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- Psychological Dimensions of Social Science Teaching (15 hours)

- 1.1. Behaviorism in Teaching Social Science
- 1.2 Constructivism as a Theoretical Backing for Social Science Education
- 1.3 Implications of the Theory of Multiple Intelligence
- 1.4 Critical Pedagogy as an approach to address Social Issues

Module 2- Planning for Instruction (10 hrs)

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

Module 3 – Evaluation in Social Science Teaching and Learning (10 hrs)

- 3.1 Construction of Achievement Test, Diagnostic test and Remediation

- 3.2 Types of Test items – Merits and Demerits
- 3.3 Teacher evaluation –criteria for evaluating teaching competence
- 3.4 Students self evaluation- preparation of tool

Module 4 - Techno Pedagogical Content Knowledge (15 hrs)

- 4.1 Pedagogic Content Knowledge- Techno Pedagogical Content Knowledge
- 4.2 Ways and Means to Link Technology to Pedagogic Content Knowledge
- 4.3 Teacher as a Techno Pedagogue

Module 5- Content Analysis in Social Science (10 hrs)

Content-Analysis of Prescribed Textbooks from standard VIII –X for State syllabus

PRACTICUM (any one)

1. Prepare a question bank containing various types of questions for any one unit in social science at secondary school level.
2. Prepare an Year Plan for Social Science in any one standard at secondary school level.
3. Prepare a teacher evaluation Performa for evaluating teaching competency

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 (10 hrs)

- 1.1 Curriculum- Meaning –Definition – Foundations
- 1.2 Curriculum and syllabus
- 1.3 Curriculum planning- factors and phases

Module 2-Curriculum Organization (15 hrs)

- 2.1 Principles of Curriculum Construction
- 2.2 Approaches to Curriculum Organization-Topical, Unit, Concentric, Spiral and chronological

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 Learners-Slow Learners- -Under Achievers-Learning Disabled
- 3.3 Major highlight in NCF and KCF in respect of Social Science

Module 4 – Learning Resources of Social Science (15 hrs)

- 4.1 Library and its organization, Laboratory and its organization
- 4.2 Community Resources –Significance, Types, methods of utilization – role of teacher
- 4.3 Field trip-Museum-Social Science club
- 4.4 E- learning Resources in Social Science-Smart Classroom, Virtual Classroom
Web- based learning, Edu-blog
- 4.5 Online Resources- Online library, online journals

Module 5- Instructional Support (10hrs)

- 5.1 Text Book-significance-criteria of a good Social Science textbook
- 5.2 Workbook and Teacher’s Handbook
- 5.3 Supplementary Reading materials
- 5.4 Improvised Teaching Aids

PRACTICUM (any one)

- 1 Critically analyze the role of technology in teaching and learning of Social Science
- 2 Critically evaluate the existing social science curriculum at secondary school level
- 3 Prepare an e –learning material on any one topic in social science

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.

EDU 204.20 : PEDAGOGICAL DIMENSIONS OF COMMERCE

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:

- endow with the significance Psychological bases of Commerce Education
- capacitate systematic planning of instruction and develop skill in charting lesson designs
- apprehend the pedagogy of Commerce of Higher 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
- boost up 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- Psychological dimension of Commerce Teaching(15hrs)

Conceptual analysis of:

- 1.1 Behaviorism- Implications
- 1.2 Constructivism- cognitive and social- Implications
- 1.3 Theories of Multiple Intelligence -. Implications

Module 2 - Planning for instruction (15hrs)

- 2.1 Meaning, Need and Significance of planning
- 2.2 Different types of Plans- Year Plan, Unit Plan, Lesson Plan
- 2.3 Approaches in Lesson planning - Herbartian, RCEM, Constructivist approach

Module -3 Evaluation in Commerce Teaching and Learning (10hrs)

- 3.1 Construction of Achievement test , Diagnostic Test and Remediation

- 3.2 Types of test items-merits and demerits
- 3.3 Student self Evaluation-Preparation of Tool
- 3.4 Teacher Evaluation –Criteria for evaluating teaching competence

Module 4 - Techno pedagogical 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 Teacher as a techno-pedagogue

Module 5 - Content Analysis in Commerce (10hrs)

Content analysis of Commerce curriculum of standard +1 and +2 (State)

PRACTICUM (any one)

1. Analyze the content of any one unit from business studies or Accountancy of Std. /XI/XII of State syllabus
2. Prepare an online test material in Commerce
3. Prepare a year plan for commerce in any one standard at Higher Secondary Level

REFERENCES

- Aggarwal, J.C. (1996) A Practical Approach. New Delhi: Vikas Publishing House Pvt.Ltd.
- Anderson, L.W. (Ed.), Krathwohl, D.R. (Ed.), Airasian, P.W., Cruikshank, K.A., Mayer, R.E., Pintrich, P.R., Raths, J., & Wittrock, M.C. (2001). A taxonomy for learning, teaching, and assessing: A revision of Bloom's Taxonomy of Educational Objectives (Complete edition). New York: Longman.
- Anderson, L.W. (Ed.), Krathwohl, D.R. (Ed.), Airasian, P.W., Cruikshank, K.A., Mayer, R.E., Pintrich, P.R., Raths, J., & Wittrock, M.C. (2001). A taxonomy for learning, teaching, and assessing: A revision of Bloom's Taxonomy of Educational Objectives (Complete edition). New York: Longman.
- Bloom, B.S. & et. al Handbook on Formative & Summative Evaluation.
- Bloom, B.S. (1956) Taxonomy of Educational Objectives. Boston: Houghton Mifflin 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.
- Harrow, A.J. (1972). A taxonomy of the psychomotor domain: A guide for developing behavioral objectives. New York: David McKay.
- <http://study.com/academy/lesson/classroom-management-techniques.html>
http://theglobaljournals.com/ijsr/file.php?val=December_2014_1417530624_29.pdf
<http://www.celt.iastate.edu/teaching-resources/effective-practice/revised-blooms-taxonomy/> http://www.ictinedtoolkit.org/usere/library/tech_for_ed_chapters/08.pdf
http://www.unco.edu/cetl/sir/stating_outcome/documents/Krathwohl.pdf
<http://csumb.edu/sites/default/files/images/st-block-31-1425095442795-raw->

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- Krathwohl, D.R., Bloom, B.S., & Masia, B.B. (1964). Taxonomy of educational objectives: The classification of educational goals. Handbook 11: The affective domain. New York: David McKay.
- Kumar, Mahesh (2004). Modern teaching of commerce. New Delhi: Anmol Publications Ltd.
- Malhotra,V (2007). Encyclopaedia of Modern Methods of Teaching Science. New Delhi: Crescent Publishing Corporation.
- Meyers, S.A., Bender, J., Hill, E.K., and Thomas, S.Y.(2006). How do faculty experience and respond to classroom conflict? International Journal of Teaching and Learning in Higher Education, 18 (3), 180–187
- 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.
- Raj,Rani Bansal(1999).New trends in teaching of commerce: Models of teaching and concept of learning. New Delhi: Anmol Publications.
- Rao, Seema (2005) Teaching of commerce. New Delhi: Anmol Publications Ltd Simpson, B.J. (1966). The classification of educational objectives: Psychomotor domain. Illinois Journal of Home Economics, 10(4), 110-144.
- Singh,V.K(2006).Teaching of commerce. New Delhi:A.P.H. Publishing corporations Soman, K (1988). Ganitha Sasthra Bodhanam, Trivandrum: State Institute of Language (Kerala).
- Walton, J.A.(2005). Educational Objectives and Achievement Testing, New Delhi: Commonwealth Publishers.

EDU 205.20 : CURRICULUM AND RESOURCE DEVELOPMENT IN COMMERCE EDUCATION

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

OBJECTIVES

On completion of this 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 Commerce Curriculum.
- familiarize the nature and functions of various instructional resources
- explore e- resources to escalating 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 (15hrs)

- 1.1 Curriculum- Meaning, definitions and Foundations
- 1.2 Curriculum and syllabus
- 1.3 Curriculum planning factors and Phases

Module 2 - Curriculum organization (15hrs)

- 2.1 Principles of Curriculum Construction
- 2.2 Approaches to curriculum organization- Concentric, spiral, Topical, unit, psychological and logical.

Module 3 - Types of Curriculum (10hrs)

- 3.1 Subject Centered-Community Based, Core, Explicit, Implicit curriculum
- 3.2 Differentiated Curriculum to meet individual differences- gifted ,slow learners, under achievers and learning disabled
- 3.3 Major highlights in NCF and KCF in respect of commerce education

Module 4 - Learning Resources in Commerce (10hrs)

- 4.1 Library and its organization
- 4.2 Community Resources –Significance, Types, Methods of utilization, Role of teacher
- 4.3 Concept of e-learning , need and importance, m-learning, , e-journals, you tube

Module 5 – Instructional supports (10hrs)

- 5.1 Text Book- Criteria for selection -characteristics
- 5.2 Teachers Hand Book /Sourcebook,
- 5.3 Improvised Aids
- 5.4 Smart board and their uses
- 5.5 Virtual classroom-role in Commerce learning

PRACTICUM (any one)

1. Prepare an e-learning material based on any topic in commerce at higher secondary Level.
2. Prepare a video script for motivating learners from any one unit of Commerce
3. Construction of an improvised aid for the teaching of any topic in commerce at plus two level

REFERENCES

- Aggarwal, J.C. (1996) A Practical Approach. New Delhi: Vikas Publishing House Pvt.Ltd.
- 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.
- Raj, Rani Bansal (1999).New trends in teaching of commerce: Models of teaching and concept of learning. New Delhi: Anmol Publications.
- Rao, Seema (2005). Teaching of commerce. New Delhi: Anmol Publications Ltd

Singh, V.K (2006). Teaching of commerce. New Delhi: A.P.H. Publishing corporations

EDU 204.21 : PEDAGOGICAL DIMENSIONS OF IT & COMPUTER 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
- analyze the content areas of IT & Computer Science Textbooks for standard VIII- XII
- practice diverse methods and prepare tools for assessing an array of learning performance outcome of diverse learners
- apply Psychological Bases of IT & Computer Science Education

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 -Psychological Dimensions of IT & Computer Science Teaching (15 hours)

- 1.1. Implications of Behaviorism in Teaching IT & Computer Science
- 1.2 Constructivism as a Theoretical Backing for IT & Computer Science Education (Cognitive Development-Piaget, Bruner and Gagne and Social Development- L. Vygotsky)
- 1.3 Implications of the theory of Multiple Intelligence (Howard Gardner)

Module 2- Planning for Instruction (10 hrs)

- 2.1 Need and Significance of planning
- 2.2 Different types of Plans- Year Plan, Unit Plan, Lesson Plan
- 2.3. Approaches in Lesson Planning-Herbartian-Constructivist

Module - 3 Evaluation of IT & Computer Science Teaching and Learning (10hrs)

- 3.1 Construction of Achievement test and Diagnostic Test and Remediation
- 3.2 Types of test items-merits and demerits
- 3.3 Teacher Evaluation –Criteria for evaluating teaching competence
- 3.4 Student self Evaluation-Preparation of Tool

Module 4 - Techno Pedagogical Content Knowledge (15 hrs)

- 4.1. Pedagogical Content Knowledge
- 4.2 IT enabled pedagogy - Introduction
- 4.3 Instructional design models – ADDIE model, ASSURE model
- 4.4 E-learning-offline and online-Tele conferencing-video conferencing-audio conferencing-Preparation and practice of e-learning materials
- 4.5 CAI-Methods of CAI
- 4.6 Social Networking Sites- News groups - Education Forums- Interactive softwares.
- 4.7 Assistive Technology for differently abled students.

Module 5 - Content Analysis of IT and Computer Science (10 hrs)

Content-Analysis of prescribed textbooks of IT & Computer Science from VIII- XII of State syllabus

PRACTICUM (any one)

1. Prepare an e-learning material based on any topic in IT and computer science at Secondary School Level
2. Create a blog and publish your article in it
3. Critically analyze the role of Social Networking Sites in the present scenario- Comparative study of any two Social Networking Sites.

REFERENCES

- Aggarwal, J. C. (1997). Essentials of Educational Technology. New Delhi : Vikas Publishers' House Pvt. Ltd.
- Bloom, B. S. (1956). Taxonomy of Educational Objectives: Cognitive Domain. New York: David McKay Co.
- Borich, Gray D. (1996). Effective teaching methods. New Jersey, Prentice-Hall. Inc. Chauhan, S.S. (1990). Education of exceptional children. New Delhi: Indus Publishing Co.
- Das, R. C. (1993). Educational Technology, A Basic Text. New Delhi Sterling Publishers Pvt. Ltd.
- Ebel, Robert et al (1991). Essentials of educational measurement. New Delhi, Prentice Hall of India. Pvt. Ltd.
- John T and Lalitha R (1995) In search of virtual class : Education in an information society. London :Routledge.

Joyce, Bruce and Weil, Marsha (1997). Models of Teaching, New Delhi, Prentice-Hall of India Pvt.Ltd.

Kumar K. L. (1997) Educational Technology : New Delhi : New Age International Publishers.

Leon A & Leon M (2000). Information Technology. Channai : Vikas Publishing House Pvt. Ltd.

Mohanty, Jagannath (1997). Educational Technology. New Delhi : Deep and Deep Publications.

Moore, Kenneth. D. (1994), Secondary Instructional Methods. Madison: WCB Brown & Bench Mark Publishers

Mukopadhyay, M (1990) Educational Technology Challenging Issues New Delhi : Sterling Publishers Pvt. Ltd.

Progrow S (1983). Education in the Computer Age. Sage Publications. Beverly Hills, CA.

Thorndike, R L and Elizabeth (1977). Measurement and Evaluation in Psychology and Education, New York: John Wiley.

EDU 205.21: CURRICULUM AND RESOURCE DEVELOPMENT IN IT AND COMPUTER 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 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, and peer group discussion, interaction with community, case study, and Educational survey and dialogue, ICT based teaching and learning

COURSE OUTLINE

Module 1- Curriculum (15 hrs)

- 1.1 Curriculum -Meaning –Definition-foundations
- 1.2 Curriculum Planning-Factors and Phases
- 1.3 Curriculum and Syllabus

Module 2-Curriculum Organization (15 hrs)

- 2.1 Principles of Curriculum Construction
- 2.2 Approaches to Curriculum Organization-Topical, Unit, Concentric, Spiral, Progressive and Regressive

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- -Slow Learners- -Under Achievers-Learning Disabled
- 3.3 Major highlights in NCF and KCF in respect of Computer science

Module 4 - Learning Resources in Computer science (10 hrs)

- 4.1 Library and its organization
- 4.2 Laboratory and its organization
- 4.3 Community Resources and its utilization
- 4.4 Social Media
- 4.5 Field trip-importance, organization

Module 5- Instructional support (10hrs)

- 5.1 Text Book-Workbook-Teacher's Handbook-Journals and Periodicals
- 5.2 Audio Visual Aids-Improvised Teaching aids
- 5.3 Technological Devices –LCD, Smart board, computers etc

PRACTICUM (any one)

- 1 Prepare a detailed report on the importance of Inclusive education in the present IT and Computer Science curriculum
- 2 Analyse the present IT & Computer Science curriculum of Kerala State
- 3 A comparative study on different e-learning resources in IT and Computer Science Education.

REFERENCES

- Baveja.A.(2000).Information Technology and Development. Delhi: Kalpaz Publications.
- Brown.G.& Watson.D(2012). IGCSE Information and Communication Technology (Book & CD Rom).
- Crowder, N.A. (1959). Action Research to Improve School Practices. New York: Columbia University.
- Srivastava (2012)Curriculum and Instruction . New Delhi: Isha Books Fogarty.R.J. & Pete.B.M.(2007). How to Differentiate Learning: Curriculum, Instruction, Assessment (The Nutshell).Corwin Publishers.
- Forcier.R.C.(1996). The Computer as a Productive Tool in Education. New Jercy:Prentice-Hall.
- Husain,N.(2010).Computer Assisted Learning: Theory and Applications. New Delhi : Shipra Publications
- Kumar K. L. (1997) Educational Technology : New Delhi : New Age International Publishers.
- Mohanty, Jagannath (1997). Educational Technology. New Delhi : Deep and Deep Publications.
- Mohanty,L&Vohra,N.(2006). ICT Strategies for Schools-A Guide for School Administrators.New Delhi:SAGE Publications.
- Moursund, D.G. (2005). Introduction to information and communication technology in education.
- Mukopadhyay, M (1990) Educational Technology Challenging Issues New Delhi : Sterling Publishers Pvt. Ltd.

- Ornstein.A.C. & Hunkins.F.P.(2012). Curriculum: Foundations, Principles, and Issues (6th Edition) NewYork:The Allyn & Bacon Educational Leadership
- Passi, B. K. (Ed) (1976).Becoming Better Teacher: A Micro Teaching Approach. Ahamadabad: Sahithya Mudranalaya.
- Progrow S (1983). Education in the Computer Age. Sage Publications. Beverly Hills,.
- Rajput, J. S. (ed.) (2002). Experiences in School Education. New Delhi: NCERT. Ralph Tyler (2013).Basic Principles of Curriculum and Instruction .University of Chicago Press
- SCERT (2008). Kerala Curriculum Framework. Thiruvananthapuram
- Sein, M K and Harindranath, G(2004). 'Conceptualizing the ICT Artifact: Towards Understanding the Role of ICT in National Development', The Information Society, 20(1).
- Sharma, J.P. (2000).National Curriculum Frame work for School Education: A discussion document. New Delhi: NCERT.
- Sigh,U.K,&Sudarshan,K.N.(2006).Computer Education. New Delhi: Discovery Publishing House.
- Skinner, B. F. (1968).The Technology of Teaching. New Jersey: Prentice Hall.

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 – Principles, functions of Language (5 Hours)

- 1.1 Language – Principles and Functions
- 1.2 Language and Cognition; Role of Language in Cognitive development and learning needs of children

Module 2- Language Diversity in the Classroom (15 Hours)

- 2.1 Multilingualism; Meaning, Nature and Scope : Deficit Theory, Discontinuity Theory
- 2.2 Socio cultural Variants with special focus to Dialect and Register
- 2.3 Understanding the Language background of the students: Home language vs School Language; First or second language Learners and the language used in teaching the subject - issues and Challenges.

Module 3 – Language Across the Curriculum: Conceptual Analysis (10 Hours)

- 3.1 Language Across the Curriculum (LAC): Concept
- 3.2 Origins of the LAC
- 3.3 Basic Tenets of LAC
- 3.4 Need and Scope, Advantage and Limitations of LAC

Module 4- Models of Language Across the Curriculum (10 Hours)

- 4.1 Content and Language Integrated Learning CLIL
- 4.2 Bilingual Teaching
- 4.3 Language for Specific Purposes (LSP) and Academic Language Teaching (ALT)

Module 5 – Operationalising Language Across Curriculum in Classroom(20 Hours)

- 5.1 Academic language across Subjects – Components (vocabulary, grammatical structures, Functions, Text structures)
- 5.2 Informational Reading and Writing across Subjects.
- 5.3 Nature of Classroom discourse: Oral language; Discussion as a tool for learning; Nature of questioning in the classroom- Types of questions and teachers role.
- 5.4 Designing Teaching Manual for LAC: Aligning learning Objectives, Learning Experience and Assessment Techniques (Focusing on both Content and Language)

PRACTICUM (any one)

1. Prepare a list of terminologies having different shapes of meaning in other subjects (minimum 20 words)
2. Suggest various measures taken by you while implementing the concept of Language Across the Curriculum in school
3. Prepare a brief synopsis on any article from newspaper

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

SEMESTER IV

CORE COURSES

EDU 401: GENDER, SCHOOL AND SOCIETY

NO.OFCREDITS	:5
CONTACTHOURS	:100
MARKS	:100 (External 80 + Internal20)
DURATION OFEXAMINATION	: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 the role of social medias on perpetuating gender notions in Indian society.

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 development - Socialisation theory, 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 positive change in gender perspective.
- 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 Positive and negative gender notions in social media and advertisement
- 5.3 Institutions redressing sexual harassment and violence in family, neighbourhood, institutions and workplace – National, State and School levels.
- 5.4 Child Rights and Protection-Institutions redressing child abuse
- 5.5 Gender ethics.

PRACTICUM (any one)

1. Prepare a report on any of the government initiatives for care and security of women in our society.
2. Documentation on various new initiatives of women empowerment based on Newspaper, Magazine and journals.
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. Montaque (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.: Harvard 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 vols). 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. 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.
- 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; CurrentBooks.

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
- 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 - Personality of the Learner (25 hrs)

- 1.1 Personality – definition, meaning and nature, Types - Introversion/extroversion by Jung
- 1.2 Mature and Integrated personality – characteristics
- 1.3 Assessment of personality – objective, subjective and projective techniques
- 1.4 A brief description of Personality disorders
- 1.5 Theories of personality – Psychoanalytic theory (Freud), Lewin's concept of personality

Module 2 - Identifying the Self (20 hrs)

- 2.1 Meaning, Concept and Development of Self-concept, Self esteem, Self confidence and self efficacy in learners
- 2.2 Carl Roger's theory of self-actualizing tendency
- 2.3 Concept and significance of Life skills education

Module 3 -Mental health & Adjustment (20 hours)

- 3.1 Mental health & mental hygiene
- 3.2 Adjustment, maladjustment and Defense mechanisms
- 3.3 Eco psychology
- 3.4 Outdoor Education-Nurturing through Nature-Role of nature in nurturing personality of learners

Module 4 - Inclusive Education (20hrs)

- 4.1 Education of children with special needs (CWSN)- Special education and Integrated education
- 4.2 Definition, concept and significance of Inclusive education Significance of inclusive education for the education of all children in the context of right to education
- 4.3 Issues and problems in Inclusive education
- 4.4 Teacher preparation for Inclusive education – developing attitudes and competencies for inclusion.

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 Significance of guidance bureau in schools
- 5.4 Types of Counselling – Directive, Non-directive, and Eclectic
- 5.5 Counselling skills – qualities of a counsellor
- 5.6 Counselling with reference to gender needs –Peer Counselling

PRACTICUM (any one)

- 1. Documentation of psychological articles in journals, news papers, magazines etc
- 2. Prepare a Report on various Life skills that school students should possess for the successful completion of education
- 3. Conduct Peer Counselling among B.Ed. students and prepare 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*, Harvard University press,
- Buzan, T. (2002). *The Power of Spiritual Intelligence: 10 ways to tap into your spiritual genius*. Australia: Harper CollinsZohar,
- Chapman, S. et al. (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. et al (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*. Encyclopaedia 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*. New York; 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 Inhelder, 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., and L.King. Why positive psychology is necessary? American Psychologist, 2001.

Vaughan, F. (2002). What is Spiritual Intelligence? Journal of Humanistic Psychology, 42, pp 16-33.

Zohar, D and Marshall, I(2000). Connecting with Spiritual Intelligence. New York: Bloomsbury Publishers.

PEDAGOGIC COURSES

EDU 403.11 : PROFESSIONAL DEVELOPMENT OF AN ENGLISH TEACHER

NO.OF CREDITS	: 3
CONTACT HOURS	: 60
MARKS	: 60 (External 50 + Internal10)
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.
- Participate in professional development activities.
- understand the challenges in teaching English with reference to recent trends.

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 Essential qualities, duties & responsibilities of an English Teacher
- 1.2 Teacher competencies with reference to English language teaching [contextual, conceptual, curricular and content, transactional, assessment, management (institution, classroom, resources, co-curricular activities), parental contact and co-operation and community extension]
- 1.3 Teacher accountability-professional ethics of a teacher
- 1.4 Vision and Mission of a Language Teacher

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

- 2.1 Professional development- meaning &significance
- 2.2 Continuous professional development: need
- 2.3 Teacher as a professional: characteristics
- 2.4 Teacher as a Reflective practitioner
- 2.5 Agencies for professional development of teachers

Module 3- Teacher and society (10 hrs)

- 3.1 English teacher and modernization
- 3.2 Changing roles of an English teacher in society
- 3.3 Building a humane & value-oriented society

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 Need for enhancing global language competencies in teachers.

Module 5- Research Perspectives in English Education (10 hours)

- 5.1 Areas of Research in English Education
- 5.2 Research trends in English language education,

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 Mother tongue 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-Teacher qualities and competencies. (15 hrs)

- 1.1. Qualities ,duties and responsibilities of Malayalam Teacher
- 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 with reference to Malayalam Teacher.
- 1.3 Teacher Accountability- Professional Ethics of a Teacher –Obligation towards Students, Parents, Community and Society ,Profession and Colleagues.
- 1.4 Vision and Mission as a Teacher.

Module 2 -.Professional Development of Malayalam teacher (15 hrs)

- 2.1 .Meaning-Significance
- 2.2. Continuous Professional Development
- 2.3. Teacher as a Profession
- 2.4. Teacher as a Reflective Practitioner
- 2.5. Agencies for Professional Development of teachers.

Module 3- Teacher and Society (10hrs)

- 3.1. Malayalam Teacher and Modernisation.
- 3.2. Building a humane and value-oriented society, role of Malayalam Teacher.

Module 4 – Dealing with 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
- 4.5. Teacher Competence to optimize learner’s intellectual, emotional and moral development.

Module 5 – Research Perspectives in Malayalam Education (10 hrs)

- 5.1. Areas of Research in Malayalam Education.
- 5.2. Research Trends in Malayalam Education.

PRACTICUM (any one)

1. Formulate your own vision and mission as a Malayalam teacher
2. Construct a tool for continuous self evaluation for understanding yourself as a teacher
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.

EDU403.13 : PROFESSIONAL DEVELOPMENT OF HINDI TEACHER

NO.OF CREDITS	: 3
CONTACT HOURS	: 60
MARKS	: 60 (External 50 + Internal10)
DURATION OF EXAMINATION	: 2 hours

OBJECTIVES

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

- understand teacher vision and mission
- develop professional and personal self
- understand how to conduct co- curricular activities effectively
- understand the importance of teacher professionalism
- make aware about the role of agencies and resources for professionalism
- acquire teaching competencies
- make the student-teachers understand the ethics and values of teachers
- make the student-teachers aware of techno-pedagogical skills
- make the student-teachers capable of preparing e-learning materials
- make the student-teachers understand the fundamentals of action research
- understand about modern technological devices of teaching
- understand the changing needs of the society

MODE OF TRANSACTION

Lecture-cum-demonstration, Brain storming, Problem solving, Group work, Video presentations, Case study, Assignment, Seminar, Project, ICT based teaching and learning.

COURSE OUTLINE

Module 1 - Teacher Qualities and Competencies (15 hrs)

- 1.1 Qualities, duties and responsibilities of Hindi teachers
- 1.2 Teacher competencies with reference to Hindi language teaching (Contextual, Conceptual, Curricular and content, Transactional, Assessment, Management (Institutional – Class room resources – co curricular activities) Parental contact and Co-operation and community extension)
- 1.3 Teacher accountability – Professional ethics of a teacher
- 1.4 Vision and Mission as a teacher

Module 2 - Professional development of Hindi teachers (15hrs)

- 2.1 Professional development – Meaning and significance

- 2.2 Ways and means of developing professional competency-Pre-service and In-service courses
- 2.3 Continuous professional development – Need, effectiveness and stages
- 2.4 Teacher as a Reflective practitioner
- 2.5 Agencies for professional development of teachers

Module 3 – Teacher and Society (10 hrs)

- 3.1 Building a humane and caring society
- 3.2 Agent of social change

Module 4 - Dealing with special issues and concerns (10hrs)

- 4.1 Factors affecting language transaction in classrooms – Political, Social, Cultural, Linguistic in relation to changing needs of the society

Module 5 – Research perspectives (10 hrs)

- 5.1 Research trends in Hindi language education
- 5.2 Areas of research in Hindi – Qualitative and Quantitative

PRACTICUM (any one)

1. Conduct an Action research on any relevant problem related to Hindi teaching and learning in the schools of Kerala
2. Conduct of a study regarding the status of in-service programmes conducted for Hindi Teachers.
3. Write a report about the role of teachers in the emerging society.

REFERENCES

- Agnihotri, R.K. and Khanna, A.L. (2002). Second Language Acquisition. New Delhi: Sage Publications.
- Anderson, J.B. (1980). Cognitive Psychology and its Implications. San Francisco: W.H. Freeman and Company.
- Armstrong, T. (2001). Multiple Intelligence in the Classroom. Washington D.C: ASCD.
- Ausubel, David, P, Joseph. D Novak & Helen Hanesian. (1968). Educational psychology: A cognitive view. Holt, Rinehart and Winston Inc.
- Bhatnagar Suresh. Shiksha Ke Samasyayem. Meerut: Loyal Book Depot.
- Chomsky, N. (1957). Syntactic Structure. The Hague: Mouton and Co.
- Dale, E. (1967). Audiovisual Methods in Teaching. New York: The Dryden Press.
- Dash, B.N. (2005). Psychology of Teaching Learning Process. New Delhi: Dominant Publishers and Distributors.
- Gagne, R.M. (1985). The Cognitive Psychology of School Learning. Boston: Little, Gardner, Howard. (1993). Frames of Mind-The Theory of Multiple Intelligence. New York: Basic Books.
- Heck, S.E; and Williams, C.R. (1984). The Complex Roles of the Teacher. New York: Teachers College, Columbia University.

- Hooper, R. (Ed.). (1971). The Curriculum: Context, Design and Development. Edinburg: The Open University.
- Jeeth, Yogendra, B. (1986). ShikshaMemAdhunikPravrithiyam. Agra: VinodPustakMahal.
- Jeeth, Yogendra, B. (2005). Hindi Shikshan. Agra: VinodPustakMandir.
- Kumar, VijendraVarisht. (2004). Shiksha Mano Vigyan. New Delhi: Arjun Publishing House.
- Lal, Raman Bihari. Hindi Shikshan. Meerut: Rastogi Publications. Mangal, Uma.(1991). Hindi Shikshan. New Delhi: Arya Book Depot. Mathur, S.S. (2005). Sikshan Kala. Agra: VinodPustakMandir.
- Mathur, S.S. ShikhaManovigyan. Meerut: Lyal Book Depot.
- Narang, Bhatia. (1995). AdhunikShikshanVidhiyam.Ludhiyana: Prakash Brothers Publishing
- Pal, H.R. & Sharma, M. (2007). Education of Gifted (Hindi).NewDelhi: Kshipra.
- Pande, K.P. (1988). Advanced Educational Psychology (2nd ed.) Delhi. Konark Publishers Pvt.Ltd.
- Pandey, S.K and Sharma, R.S. (2008).Encyclopaedia of Modern Techniques of Teaching. New Delhi: Common WealthPublishers.
- Saxena, N.R. Swaroop. (1996). SikhaKeSamanyaSiddhant. Meerut: Lyall Book Depot.
- Saxena, N.R. Swaroop. Shikhan Kala EvamPadhatiyam, Meerut: Loyal Book Depot.
- Singh, Savitri. Hindi Shikshan. Meerut: Lyall Book Depot.
- Sinha, P.K. (1992). Computer Fundamentals: Concepts, Systems and Applications. NewDelhi: BPB Publications.
- Thyagi.(1996). SikshaKeSamanyaSiddhant. Agra: VinodPustakMandir.

EDU403.14: PROFESSIONAL DEVELOPMENT OF SANSKRIT TEACHER

NO.OF CREDITS	: 3
CONTACT HOURS	: 60
MARKS	: 60 (External 50 + Internal10)
DURATION OF EXAMINATION	: 2 hours

OBJECTIVES

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

- understand about essential qualities, duties and responsibilities of a Sanskrit teacher
- develop an understanding of essential teacher competencies and teacher accountability
- develop an understanding of continuous professional development in teaching
- develop awareness about the role of agencies and resources for professionalism
- understand the role of a Sanskrit teacher in the modern society
- understand about factors affecting language transactions in classrooms
- understand the areas of research in Sanskrit education
- develop an understanding of recent research trends in Sanskrit Education

MODE OF TRANSACTION

Lecture-cum-demonstration, Power point presentation, Video Presentation, Interview, General Discussion, Group Discussion, Brain storming, Problem solving, Assignment, seminar, Project work , Case study, Group work, Creative work shop, Resource centre visit , Video conferencing, Voice/ Video Chatting with Scholars, Visiting Sanskrit villages and interacting with Sanskrit Speaking people, ICT based teaching and learning.

Module I - Teacher Qualities and Competencies (15 hrs)

- 1.1 Qualities, duties and responsibilities of a Sanskrit teacher
- 1.2 Teacher competencies with reference to Sanskrit language teaching (Contextual, Conceptual, Curricular and Content, Transactional, Assessment, Management (Institution, classroom, resources, co-curricular) Parental Contact and Co-operation, and Community Extension
- 1.3 Teacher Accountability- professional ethics of a teacher

Module 2 - Professional development of a Sanskrit teacher (15hrs)

- 2.1 Professional development – Meaning and significance
- 2.2 Continuous professional development – Need, effectiveness and stages
- 2.3 Teacher as a Professional: characteristics
- 2.4 Teacher as a Reflective Practitioner
- 2.5 Agencies for professional development of teachers

Module 3 –Teacher and Society(10hrs)

- 3.1 Sanskrit Teacher and Modernisation
- 3.2 Building a humane and a value oriented society- Role of a Sanskrit teacher

Module 4 - Dealing with special issues and concerns (10hrs)

- 4.1 Factors affecting language transaction in classrooms – Political, Social, Cultural, Linguistic in relation to changing needs of the society
- 4.2 Need for enhancing language competencies in teachers

Module 5 – Research Perspectives in Sanskrit Education (10hrs)

- 5.1 Major Areas of Research in Sanskrit Education
- 5.2 Research Trends in Sanskrit Education

PRACTICUM (any one)

1. Analyse the trends in Sanskrit teaching/learning in schools across India and abroad
2. Evaluate the role of a Sanskrit teacher in the techno-pedagogic scenario
3. Analyse the Impact of Sanskrit on different areas of Knowledge

REFERENCES

- SamskrithaAdhipana -ViswanathaSarma
- SamskrithaSiksha -Ramasuklapandya
- The teaching of Sanskrit - D.G.Apte
- SamskrithaSikshanaVidi -RaghunathaSaphaya
- SamskrithaBhashadhyapanam - Prof.Sahadevan
- Methods of Teaching Sanskrit - Prof.Ramavarma
- History of Sanskrit teaching -Macdonell
- Teaching techniques - DasR.C.
- Language in Education - Omkar N.Koul
- Sanskrit and Science - S.S.JanakiKupu
- The problems of Sanskrit teaching:Hupanikar
- SamskritaSahityaVimarsanam:Dr.N.V.P.Unithiri
- Upanishads in education : V. Surendran nEdkkidath
- Practical Sanskrit Grammar - PRDSarma
- First Book of Sanskrit and Second Book of Sanskrit -Bhandarkar
- A Sanskrit Grammar for students - AMacdovel
- Kuvalayanadam -AppayaDikshidar
- KeraleeyaSamskrutadhyapanavidhaya – Dr. K. R. Harinarayanan
- Laghusidhantakaumudi - VaradarajaPanditan
- Sidharupa
- Rasa and Dhvani - Dr. A.Sankaran

- History of Sanskrit Literature -Keith
- Sahityadarpana -Viswanadha
- Vritaratnakara -Kedarabhattaha
- Sabdasodhini - A. R.RajarajaVarma
- Vritamanjari - Pingalamuni

EDU 403.15 : PROFESSIONAL DEVELOPMENT OF ARABIC 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:

- familiarize with the duties and qualities of the Arabic Language Teacher
- become a professional Arabic Teacher
- synthesize the role of teachers as a change agent and nation builder
- familiarizes with the concept of Teacher as a Techno pedagogue
- develop professional and personal self
- develop research attitude to promote an in-depth study on the different areas of the subject
- understand about essential qualities, competencies and professional ethics of a teacher
- understand about teacher competencies – their importance
- understand vision and mission of teaching
- understand the role of agencies and resources for teacher professionalism

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 competencies. (15 hrs)

- 1.1. Qualities , duties and responsibilities of Arabic Teacher
- 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 with reference to Arabic Teacher.
- 1.5 Teacher Accountability- Professional Ethics of a Teacher –Obligation towards Students, Parents, Community and Society , Profession and Colleagues.
- 1.6 Vision and Mission as a Teacher.

Module 2 -.Professional Development of Arabic teacher (15 hrs)

- 2.1. Meaning-Significance

- 2.2. Continuous Professional Development
- 2.3. Teacher as a Professional
- 2.4. Teacher as a Reflective Practitioner.
- 2.5. Agencies for Professional Development of teachers.

Module 3- Teacher and Society (10hrs)

- 3.1. Arabic Teacher and Modernisation.
- 3.2. Building a humane and value-oriented society, role of Arabic Teacher.

Module 4 – Dealing with Special Issues and Concerns (10 hrs)

- 4.1 Factors affecting language transaction in classrooms – Political, Social, Cultural, Linguistic in relation to changing needs of the society
- 4.2 Need for enhancing language competencies in teachers

Module 5 – Research Perspectives in Arabic Education (10 hrs)

- 5.1. Areas of Research in Arabic Education.
- 5.2. Research Trends in Arabic Education

PRACTICUM (any one)

1. Formulate your own vision and mission as a Arabic teacher
2. Construct a tool for continuous self evaluation for understanding yourself as a teacher
3. Conduct a study regarding the status of the in-service programme conducted for Arabic teachers at Secondary level.

REFERENCES

- “Thuruqu thadrees al llugha al arabiyya, fil madarisi al muthawassi ta wa ssanawiyya” : hasan Mulla Uthman, Dar Alam al kutub lithibaa’ wa nnashrwathouzeea’ , Riyadh, KSA
- “Tha’leem al lugathul araiyya ligairi nnathiqeena biha” , maktaab al tharbiya al arabi liduwali al khaleej, Riyadh, KSA
- Kitab al Mudarris lissafi thasia’, Idarath tharbiya wa tha’aleem, 2010, Govt of KeralaAl muallim al Najih” : Dr. Abdullah al

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.
- develop personal and professional competencies as a teacher.
- Familiarize with the 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 – Teacher Qualities and Competencies (15 hours)

- 1.1 Essential qualities, Duties and responsibilities of a mathematics teacher
- 1.2 Teacher as facilitator, researcher, and social resource-conceptual view
- 1.3 Teacher competencies –contextual, conceptual, curricular, transactional, assessment, management, extension
- 1.4 Teacher accountability- Professional ethics of a teacher
- 1.5 Vision and Mission as a Mathematics Teacher

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

- 2.1 Professional development- meaning& significance
- 2.2 Teacher as a professional- Characteristics,
- 2.3 Need for Continuous professional development
- 2.4 Ways and Means of Developing Professionalism
 - In service Programme
 - Professional Organisation

- Participation in Seminars and workshop
- Published Work
- E-twinning

2.5 Soft skills for a Mathematics teacher

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

- 3.1 Reflective Teaching-conceptual Overview
- 3.2 Reflective Practices in instruction and assessment significance
- 3.3 Meeting the challenges in mathematics teaching- role of reflection

Module 4 — Mathematics for All (10 hours)

- 4.1 Activities enriching Mathematics learning - Mathematics Club
- 4.2 Mathematics Contests and Fares, Mathematical Olympiad,-levels
- 4.3 Recreational Mathematics - Games and Puzzles

Module 5 - Research perspectives in Mathematics education (15 hours)

- 5.1 Research in Mathematics -its significance
- 5.2 Major areas of research in mathematics education.
- 5.3 Social and Cultural Issues in Mathematics Education- Socio economic status, language and culture of learners

PRACTICUM (any one)

1. Prepare a report on the recent researches (three to five) in Mathematics Education
2. Reflect on your experiences as a Mathematics teacher during internship and post it in e-platform
3. Prepare a drama script on any topic of your choice to enrich mathematics learning

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.
- 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. (2nd Ed). Thousand Oaks, CA: Corwin Press.
- Iglewicz, Boris and Stoyle, 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 - Teacher Qualities and Competencies (15 hours)

- 1.1 Essential qualities, Duties and responsibilities of a Physical Science Teacher - Teacher as a facilitator, researcher and social resource- Conceptual View
- 1.2 Teacher competencies –contextual, conceptual, curricular and content, transactional, assessment, management, extension
- 1.3 Teacher accountability- Professional ethics of a teacher
- 1.4 Vision and Mission as a Teacher

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

- 2.1 Professional development – meaning and significance
- 2.2 Teacher as a professional- characteristics
- 2.3 Continuous professional development
- 2.4 Ways and Means of Developing Professionalism
 - In service Programme
 - Professional Organisation

- Participation in Seminars and workshop
 - Published Work
 - E-twinning
- 2.5 Soft skills development for a Physical Science Teacher

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

- 3.1 Reflective Teaching-conceptual Overview.
- 3.2 Reflective Practices in instruction, assessment - significance
- 3.3 Role of reflection in meeting the challenges in Science teaching

Module 4 – Physical Science for All (10 hours)

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

Module 5 – Research trends in Science education (15 hours)

- 5.1 Recent research trend in Science learning with special emphasis to instructional strategies and assessment practices.
- 5.2. Teaching students with diverse learning needs and talents-New trends
- 5.3 Social and Cultural Issues in Science Education – conceptual overview

PRACTICUM (any one)

1. Reflect on any one article in the domain of Science teaching and learning
2. Reflect on your experiences as a Physical Science teacher during internship and post it in e-platform
3. Prepare a drama report on any one topic of your choice to enrich science learning.

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.Paloff & Keith Pratt (2009): *Assessing online learner*: San Fransisco, Jossey
- Bass.
- Sharma, R. C. (1985). *Modern science teaching*. New Delhi: Dhanpat Rai & Sons. Smith and Anderson (1984). Cited in apples4 the teacher.com articles, ScienceMisconceptions 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 – Teacher Qualities and Competencies (15 hrs)

- 1.1 Teacher Qualities, Responsibilities and Duties, Duties and Responsibilities of Natural Science Teacher
- 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 Natural Science Teacher.
- 1.4 Teacher accountability- professional ethics of a teacher. Vision and Mission as a Natural Science Teacher.

Module 2 - Professional Development of Natural Science Teacher (15hrs)

- 2.1 Professional Development – Meaning and Significance.
- 2.2 Teacher as a professional- Characteristics.

- 2.3 Need for continuous professional development.
- 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.

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 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 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
3. Conduct a Quiz Programme and prepare a self evaluation report

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 Competencies (15 hrs)

- 1.1 Essential Qualities, Duties and Responsibilities of Social Science Teacher
- 1.2 Teacher Competencies-Contextual, Conceptual, Curricular and Content, Transactional, Curricular and Co-Curricular Activities, Developing teaching learning materials, Evaluation, Management (Institution, Classroom, Resources) , Parental Contact and Co-operation with Community and other agencies.
- 1.3 Teacher Accountability- Professional ethics of a teacher
- 1.4 Vision and Mission of a Teacher

Module 2 -.Professional Development of a Social Science Teacher (10 hrs)

- 2.1 Professional Development-Meaning-Significance
- 2.3 Need for Continuous Professional Development

- 2.3 Ways and means for professional development of teachers
- 2.4 Soft skills development and Professionalism
- 2.5 Teacher as a reflective practitioner

Module 3- Multifaceted Role of Teacher (5 hrs)

- 3.1. Role of teacher in the conservation, transmission and transformation of culture
- 3.2 Role of teacher in Social Change and Modernisation

Module 4 – Dealing with Special Issues and Concerns (20 hrs)

- 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 International Understanding

Module 5 - Research Perspectives in Social Science (10)

- 5.1 Research in Social Science- Significance
- 5.2 Major areas of research in Social Science
- 5.3 Recent Research Trends in Social Science

PRACTICUM (any one)

1. Prepare a list of topics suitable for social science research
2. Prepare a report on the procedure to be followed to submit RTI based on any social issue
3. Write an assignment on the recent challenges to national integration in india

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.
- 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 403.20: PROFESSIONAL DEVELOPMENT OF COMMERCE 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 Commerce 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 Commerce education
- inculcate a broader perspective on the varied activities enriching Commerce 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 Teacher Qualities and Competencies (15hrs)

- 1.1 Essential qualities, Duties and responsibilities- Teacher as a scaffolder, facilitator, researcher
- 1.2 Teacher competencies – contextual, conceptual, curricular and context, transactional, assessment, management, community extension
- 1.3 Teacher accountability- professional ethics of a teacher
- 1.4 Vision and Mission as a Teacher

Module 2- Professional Development of Commerce Teacher (10hrs)

- 2.1 Professional development – meaning significance
- 2.2 Teacher as a professional- Characteristics
- 2.3 Need for Continuous professional development
- 2.4 Ways and Means of Developing Professionalism
 - In service Programme
 - Professional Organization
 - Participation in Seminars and workshop
 - E-twinning
- 2.5 Soft skills development for a Commerce Teacher

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

- 3.1 Reflective Teaching-conceptual Overview.
- 3.2 Reflective Practices in instruction, assessment - significance

Module 4–Commerce for All (10hrs)

- 4.1 Activities enriching Commerce learning- Commerce Club- Puzzles and riddles
- 4.2 Field Trip, Trade Fairs, Exhibition
- 4.3 Current affairs and scope in commerce

Module 5 – Research trends in Commerce education (15hrs)

- 5.1 Researches in Commerce – Meaning and significance
- 5.2 Major areas of research in commerce
- 5.3 Resent research trends in commerce education

PRACTICUM (any one)

1. Prepare a personalized report on a news bulletin connected with commerce.
2. Prepare a list of topics suitable for commerce research
3. Reflect on your experiences as a Commerce teacher during internship and post it in e-platform

REFERENCES

- Aggarwal, J.C. (1996) A Practical Approach. New Delhi: Vikas Publishing House Pvt.Ltd.
- Bloom, B.S. & et. al Handbook on Formative & Summative Evaluation.
- Duffy, T.M& Jonassen, D.H (1992). *Constructivism: New implication for instructional technology*. Hillsdale, NJ: Lawrence Associations.
- Entwistle, N.J.(1987). *Understanding Classroom Learning*. London: John Wiley
- Gagnon, George.W & Michelle, Collay.(2006). *Constructivist learning design*. California: Thousand Oaks.Schultz, Duane and Ellen, Sydney (2012) *Psychology and work today*. New Delhi: Pearson Education.
- Gardner, H.(1983). *Frames of Mind: The Theory of Multiple Intelligences*. New York: Basic Books
- Kincheloe, J. (2008). *Critical Pedagogy (2nd Edn)*. New York: Peter Lang.
- Kumar, Mahesh (2004). *Modern teaching of commerce*. New Delhi: Anmol Publications Ltd.
- Mangal. S.K(2007). *Human Development and learning*, Crow. L.D & Crow Alice(2008) 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.
- Raj, Rani Bansal (1999). *New trends in teaching of commerce: Models of teaching and concept of learning*. New Delhi: Anmol Publications.
- Rao, Seema (2005) *Teaching of commerce*. New Delhi: Anmol Publications Ltd
- Singh, V.K(2006). *Teaching of commerce*. New Delhi: A.P.H. Publishing corporations
- Walton, J.A.(2005). *Educational Objectives and Achievement Testing*, New Delhi:

Commonwealth Publishers.

EDU 403.21 PROFESSIONAL DEVELOPMENTS OF IT AND COMPUTER 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, respect for diversity, etc
- develop the special concern of IT and Computer Science as a unique 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 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, ICT based teaching and learning

COURSE OUTLINE

Module 1-Teacher Qualities and Competencies (15 hrs)

- 1.1 Essential qualities, Duties and responsibilities- Teacher as a scaffolder, facilitator, researcher
- 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 Teacher accountability- professional ethics of a teacher
- 1.4 Vision and Mission as a Teacher

Module 2 -.Professional Development of Computer Science Teacher(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 Ways and means of developing Professionalism.

2.4 Soft skills for a Computer Teacher

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

3.1 Reflective Teaching-conceptual Overview.

3.2 Reflective Practices in Instruction, Assessment

Module 4 –Computer science for All (10 hours)

4.1 IT@school Akshaya-Edusat - VICTERS- C-DIT-e-governance-
INFLIBNET- e-Padasala

4.2 Cyber Security

4.3 Cyber Ethics

4.4 Computer Virus-Worms-Trojan

4.5 Phishing-Hacking-Spoofing-spamming

Module 5 – Research trends in IT and Computer Science (15hrs)

5.1 Researches in IT and Computer Science – Meaning and significance

5.2 Major areas of research in IT and Computer Science

5.3 Recent research trends in IT and Computer Science

PRACTICUM (any one)

1. Conduct a study on the issues in the cyber - world
2. Comparative study on IT enabled education in India and Abroad.
3. Prepare a self evaluation report as a teacher after the practice teaching.

REFERENCES

- Abraham, J & Sharma,B.(2010).Relevance of ICT Components in Pre-service Teacher Education Curriculum.
- Crowder, N.A. (1959). Action Research to Improve School Practices. New York: Columbia University.
- Ermann, M.D. & Shauf, M.S. (2003) (3rd Ed). Computers, Ethics and Society. OUP,
- Fitchman & Silva (2003). The Reflective Educators' Guide to Classroom Research. California: Corwin Press, Inc..
- Madhukumar Indira. (2005). Internet based distance learning . New Delhi: Global Network.
- Passi, B. K. (Ed) (1976).Becoming Better Teacher: A Micro Teaching Approach. Ahamadabad: Sahithya Mudranalaya.
- Web Design and Development: Concepts, Methodologies, Tools, and Applications (3 Volumes) Information Resources Management Association (USA)
- Wheeler, S. (2009) (Ed.) Connected Minds, Emerging Cultures. Cybercultures in Online Learning. Information Age Publishing, Inc, Charlotte, NC.

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 &Distributers.
- 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 (Practical)

CONTACT HOURS : 20

PRACTICAL (as given in practical schedule)

SEMESTER II
EDU206.3

No. of CREDITS : 1

TOTAL MARKS : 20 (Practical)

CONTACT HOURS : 20

PRACTICAL (as given in the practical schedule)

Objectives

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

- get an awareness about the intra mural and extra mural competitions
- conduct and organize sports meet
- know about the various track and field events

Module –1

Intramural Competition-Definition-Objectives

Extramural competition-Definition-Objectives

Organizing and Conducting a sports meet- Pre Meet work- Meet work- Post meet work

Track and Field events -Long jump - Rules and Regulation - Shot put - Rules and Regulation

Recreational Games: Aims and objectives – Recreation

SEMESTER III

EDU302.3

No. of CREDITS : 2

TOTAL MARKS : 40 (Practical)

CONTACT HOURS : 40

PRACTICAL (as given in the practical schedule)

SEMESTER IV

EDU404.3

No. of CREDITS : 1

TOTAL MARKS : 20 (Practical)

CONTACT HOURS : 20

PRACTICAL (as given in the practical schedule)

Objectives

On completion of the course the prospective teacher would be able to get an awareness about First Aid for various emergencies.

Module 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)

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 (Practical)
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

PRACTICAL (as given in the practical schedule)

SEMESTER II

NO. OF CREDITS : 1

TOTAL MARKS : 20 (Practical)

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

PRACTICAL (as given in the practical schedule)

SEMESTER III

NO. OF CREDITS : 1
TOTAL MARKS : 20 (Practical)
CONTACT HOURS : 20

PRACTICAL (as given in the practical schedule)

SEMESTER IV

NO. OF CREDITS : 1
TOTAL MARKS : 20 (Practical)
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

PRACTICAL (as given in the practical schedule)

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

