

**Curriculum for**  
**Two-Year B.Ed. Programme**

**Academic Session: 2021–23**



**Department of Education**  
**Guru Ghasidas Vishwavidyalaya**  
**(A Central University)**

**Bilaspur, Chhattisgarh**

**About of B.Ed. Programme:**

The Bachelor of Education Programme is a professional programme that prepares teachers for upper-primary up to senior secondary level. The broader purpose of the B.Ed. programme is to provide a suitable learning environment to the student teachers that helps them in developing an understanding of the classroom learners and the teachers in social, cultural and historical perspectives as well as an understanding school subjects with respect to their nature, content, methods, media and assessment so as to motivate them to acquire basic competence in instructional skills, in identifying and utilising resource materials within the school for creating teaching-learning environment to participate in the professional life with optimum capacity, motivation and balance.

**PROGRAMME OUTCOMES:**

*Following are the outcomes expected from the Teacher Education Programmes run by the Department of Education, GGV:*

**The Prospective Teachers will be able to**

- PO 1. Function as globally and professionally competent teachers and practitioners of education
- PO 2. Engage themselves in the noble profession as Humane teachers laden with traditional and constitutional values
- PO 3. Contribute towards sustainable development for futuristic society
- PO 4. Function as sensitive and responsive teachers and researchers with multidisciplinary and multicultural perspectives
- PO 5. Develop themselves holistically through lifelong learning for professional excellence

**PROGRAMME SPECIFIC OUTCOMES:**

At the end of the *Two-Year Bachelor of Education* degree Programme:

- PSO 1. **Knowledge:** The Prospective School Teachers will demonstrate (i) systematic and extensive content knowledge and understanding of the academic field of Education along the philosophical, sociological, psychological, historical foundations as well as along the disciplinary and policy perspectives including a critical understanding of the established theories, principles and concepts, and of a number of advanced and emerging issues in the field of School Education and Teacher Education; (ii) procedural knowledge that creates teaching professionals in their respective subject area including Pedagogic knowledge and Technological knowledge and (iii) Metacognitive knowledge for continuous self-development for professional excellence
- PSO 2. **Skills:** The Prospective School Teachers will demonstrate (i) Pedagogical and technological skills in one's specialization area and an ability to use established and recent methods, techniques and strategies of teaching, analysis of content and learning conditions, enquiry into the learners' mind and creation of learning situations and materials to design effective teaching-learning environment for school children within the subject area of

specialization. (ii) skills to design equitable and inclusive strategies of evaluation for learning, of learning and as learning (iii) skills for mentoring and counselling the stakeholders

- PSO 3. **Ethics and Inclusiveness:**The Prospective School Teachers will demonstrate (i) ability to Plan and adapt educational activities & manage resources in a culturally, socially, constitutionally and psychologically conscious and responsive way, (ii) empathy and respect for people of diverse abilities, opinions, faiths, cultural background and an attitude to treat them in fair and just way in the educational context, (iii) a reasonable degree of professional ethics and (iv) ability to design teaching-learning environments for value inculcation
- PSO 4. **Critical and creative thinking:** The Prospective School Teachers will demonstrate(i) a high degree of analytical thinking to pursue the interpretive, normative and critical questions of education for improving the learners, learning environments as well as the education policies and practices of school education (ii) ability to pursue novel approaches in teaching-learning and establish new benchmarks for school and school education
- PSO 5. **Communication:** The Prospective School Teachers will demonstrate skills of effective reading, writing, speaking and listening, in personal, instructional as well as in digital context to establish meaningful relationship with stakeholders within and outside the school
- PSO 6. **Lifelong learning:** The Prospective School Teachers will demonstrate committed efforts in understanding of their 'self' and also the skills of self-paced and self-regulated learning aimed at professional development and at achieving a balanced professional life.
- PSO 7. **Collaboration:** The Prospective School Teachers will demonstrate ability to work effectively and respectfully with diverse peer teams or student groups, facilitate cooperative or coordinated effort on the part of a group and or a team in the interests of a common cause and work efficiently as a Teacher
- PSO 8. **Management and Leadership:** The Prospective School Teachers will demonstrate capacity of identifying or mobilizing appropriate physical or human resources required for organizing fruitful learning activities within and outside the classroom, as well as that of developing a sustainable and self-reliant school eco-system.
- PSO 9. **Social Responsibility:** The Prospective School Teachers will demonstrate capacity of extending their understanding of social dynamics for designing need-based community-reach services

### **Duration of B.Ed. Programme:**

The B.Ed. programme is a two-year (four semesters) full time professional programme. The attendance of the students in the Department of Education during all the semesters shall be minimum 80% for all course work and practicum and 90% for school internship (as per NCTE Regulation, 2014)

## Curriculum Framework:

The details of the curriculum framework along with the aims of the course, course outlines, modes of learning engagement as well as modes of assessment for each course are presented hereunder.

The B.Ed. curriculum shall comprise of five groups of courses as depicted below:

- Group I** – Core Courses : *Courses in Group I shall provide a conceptual understanding of the concepts of education, teaching and learning and as also situate them in the broader perspective of society and development.*
- Group II** – Pedagogy Courses : *Courses in Group II shall enable the prospective teachers become effective teachers. They shall help in understanding the nature of the various disciplines and school subjects, setting achievable goals, developing competencies to envision and design learning situations for learners, and enter into the learners' mind to assess the learning.*
- Group III** – Optional courses : *Courses in Group III shall provide choices to the prospective teachers to be acquainted with some key issues in school education.*
- Group IV** – Enhancing Professional Capacities : *The skill oriented courses under the Group IV visualise a set of experiences that shall help the prospective teachers to develop an appropriate self-concept, enhance their self-esteem, and also to enhance their professional capacity.*
- Group V** – Practicum &Engagement with Field : *The Group V provides the prospective teachers a context of hands on experience to practice their professional skills in the real school situation and to get a holistic understanding of various complexities in the process of school education.*

## DISTRIBUTION OF CURRICULUM AND SCHEME OF EXAMINATION FOR FOUR SEMESTERS

SEMESTER I							
GROUPS	COURSES	PAPER CODE	CREDITS	TOTAL MARKS	INTERNAL	EXTERNAL	MINIMUM PASS MARK
<b>Group-I</b> Core courses	Childhood & growing up	C11	4	100	30	70	50
	Contemporary India & education	C12	4	100	30	70	50
<b>Group-II</b> Pedagogy courses	Understanding the discipline–A Physical Science Social Science	P1AP P1AS	2	50	15	35	25
	Understanding the discipline–B Biology Mathematics English Hindi	P1BB P1BM P1BE P1BH	2	50	15	35	25
<b>Group-III</b> Optional courses	<i>Any one from –</i> Value education OR Physical and health education OR Guidance and counselling	O111 O112 O113	2	50	15	35	25
	<i>Any one Optional skill training from–</i> Indian Sign language OR Communication through Braille	O121 O122	2	50	50		25
<b>Group -IV</b> Enhancing Professional Capacities courses	Critical understanding of ICT in education	EPC1	2	50	50		25
<b>Group -V</b> Engagement with Field	School visit–I (Upper Primary to Higher Secondary)	SI 1	2	50	50		25
<b>TOTAL</b>			<b>20</b>	<b>500</b>	<b>255</b>	<b>245</b>	<b>250</b>
SEMESTER II							
GROUPS	COURSES	PAPER CODE	CREDITS	TOTAL MARKS	INTERNAL	EXTERNAL	MINIMUM PASS MARK
<b>Group-I</b> Core courses	Learning and teaching	C23	4	100	30	70	50
	Knowledge and curriculum	C24	4	100	30	70	50
	Language across the curriculum	CH25	2	50	15	35	25
<b>Group-II</b> Pedagogy courses	Pedagogy–I (A) Physical Science Social Science	P2AP P2AS	2	50	15	35	25
	Pedagogy–I (B) Biology Mathematics English Hindi	P2BB P2BM P2BE P2BH	2	50	15	35	25
<b>Group -IV</b> Enhancing Professional Capacities courses	Drama & Art in Education	EPC2	2	50	50		25
<b>Group -V</b> Engagement with Field	School visit–II (Upper Primary to Higher Secondary)	SI 2	2	50	50		25
	Practicing teaching skills	PTS	4	100	100		50
<b>TOTAL</b>			<b>22</b>	<b>550</b>	<b>305</b>	<b>245</b>	<b>275</b>

**SEMESTER III**

GROUPS	COURSES	PAPER CODE	CREDITS	TOTAL MARKS	INTERNAL	EXTERNAL	MINIMUM PASS MARK
<b>Group-I</b> Core courses	Assessment and evaluation	C36	4	100	30	70	50
<b>Group-II</b> Pedagogy courses	Pedagogy-II (A) Physical Science Social Science	P3AP P3AS	2	50	15	35	25
	Pedagogy-II (B) Biology Mathematics English Hindi	P3BB P3BM P3BE P3BH	2	50	15	35	25
<b>Group -IV</b> Enhancing Professional Capacities courses	Reading & reflecting on text	EPC3	2	50	50		25
<b>Group -V</b> Engagement with Field	Psychological testing	PT	2	50	50		25
	School internship-I (Upper Primary to Higher Secondary)	SI 3	8	200	200		100
	<i>Teaching-I</i> <i>Teaching of Sub-I:(40 marks)</i> <i>Teaching of sub-II:(40 marks)</i>						
	<i>Teaching-II</i> <i>Teaching of sub-I:(60 marks)</i> <i>Teaching of sub-II:(60 marks)</i>						
	<b>TOTAL</b>			<b>20</b>	<b>500</b>	<b>360</b>	<b>140</b>

**SEMESTER IV**

GROUPS	COURSES	PAPER CODE	CREDITS	TOTAL MARKS	INTERNAL	EXTERNAL	MINIMUM PASS MARK
<b>Group-I</b> Core courses	School management & leadership	CH47	2	50	15	35	25
	Creating an inclusive school	CH48	2	50	15	35	25
	Gender, school and society	CH49	2	50	15	35	25
<b>Group-III</b> Optional courses	<i>Any one from -</i> Peace education Vocational & Work Education Legal education	041 042 043	2	50	15	35	25
<b>Group -IV</b> Enhancing Professional Capacities courses	Understanding the self	EPC4	2	50	50		25
<b>Group -V</b> Engagement with Field	School Internship-II (Upper Primary to Higher Secondary)	SI 4	8	200	200		100
	<i>Case Study/Individual Portfolio-25marks</i>						
	<i>School participation-25marks</i>						
	<i>Teaching and Subject assessment-50 marks</i>						
	<i>Action Research-25 marks</i>						
	<i>Administrative Work-25 marks</i>						
	<i>Conducting morning assembly &amp; CCA-25marks</i>						
<i>Preparation of TLM-25 marks</i>							
<b>TOTAL</b>			<b>18</b>	<b>450</b>	<b>310</b>	<b>140</b>	<b>225</b>
<b>TOTAL CREDITS FOR TWO YEAR</b>			<b>80</b>	<b>2000</b>	<b>1230</b>	<b>770</b>	<b>1000</b>

**Weightage of Evaluation:**

Weightage for Internal and External evaluation for every component in Group I to Group V will be as stated below:

Group		Internal	External
Group I	–Core Courses	30%	70%
Group II	–Pedagogy Courses	30%	70%
Group III	–Optional Courses	30%	70%
Group IV	–Enhancing Professional Capacities courses	100%	
Group V	–School Internship& Field Experience	100%	(As per University guidelines)

**Internal Examination Scheme:**

\*Internal and external examination schemes will be decided by the University which is subjected to change from time to time.

**Mapping of Curriculum in terms of Course outcomes, Programme Specific Outcomes and Programme Outcomes:**

COURSE_CODE	COURSE_NAME	CO	PSO.1	PSO.2	PSO.3	PSO.4	PSO.5	PSO.6	PSO.7	PSO.8	PSO.9	P0.1	P0.2	P0.3	P0.4	P0.5	
EDBATT1	Childhood & growing up	CO.1	3.0	2.0	3.0	3.0	2.0	3.0	3.0	2.0	2.0	2.0	2.0	2.0	2.0	3.0	2.0
		CO.2	2.0	1.0	2.0	3.0	1.0	1.0	2.0	1.0	3.0	3.0	1.0	2.0	1.0	1.0	2.0
		CO.3	2.0	1.0	2.0	2.0	1.0	3.0	1.0	2.0	1.0	3.0	2.0	2.0	3.0	2.0	2.0
		CO.4	3.0	2.0	3.0	3.0	2.0	2.0	3.0	2.0	3.0	3.0	2.0	2.0	1.0	2.0	2.0
		CO.5	3.0	1.0	2.0	2.0	3.0	2.0	3.0	2.0	2.0	2.0	2.0	1.0	3.0	2.0	3.0
			2.6	1.4	2.4	2.6	1.8	2.2	2.4	1.8	2.2	2.6	1.6	2.2	2.0	2.2	
EDBATT2	Contemporary India & education	CO.1	3.0	3.0	2.0	2.0	1.0	2.0	1.0	2.0	2.0	3.0	2.0	2.0	2.0	2.0	2.0
		CO.2	3.0	2.0	2.0	2.0	2.0	2.0	1.0	3.0	2.0	3.0	3.0	2.0	3.0	3.0	3.0
		CO.3	3.0	3.0	2.0	2.0	3.0	3.0	2.0	3.0	3.0	3.0	2.0	3.0	3.0	3.0	2.0
		CO.4	3.0	3.0	3.0	3.0	3.0	3.0	2.0	2.0	3.0	3.0	2.0	3.0	2.0	3.0	3.0
		CO.5	3.0	2.0	3.0	3.0	2.0	3.0	2.0	2.0	2.0	3.0	3.0	2.0	2.0	2.0	2.0
		CO.6	3.0	2.0	3.0	3.0	2.0	2.0	3.0	2.0	3.0	3.0	3.0	3.0	2.0	2.0	3.0
		CO.7	3.0	3.0	2.0	2.0	3.0	2.0	2.0	3.0	3.0	3.0	3.0	2.0	1.0	1.0	2.0
			3.0	2.6	2.4	2.4	2.3	2.4	1.9	2.4	2.6	3.0	2.4	2.1	2.1	2.4	
EDBATY1	Understanding the discipline–A: Physical Science	CO.1	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	1.0	1.0	1.0	0.0
		CO.2	3.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	1.0	1.0	1.0	0.0
		CO.3	3.0	0.0	0.0	3.0	1.0	0.0	0.0	0.0	0.0	0.0	3.0	1.0	1.0	1.0	0.0
		CO.4	3.0	3.0	1.0	0.0	2.0	1.0	0.0	0.0	0.0	0.0	3.0	1.0	1.0	1.0	0.0
		CO.5	3.0	3.0	2.0	2.0	1.0	1.0	0.0	0.0	0.0	1.0	3.0	1.0	1.0	1.0	0.0
		CO.6	3.0	2.0	0.0	1.0	2.0	0.0	0.0	0.0	0.0	0.0	3.0	1.0	1.0	1.0	0.0
		CO.7	3.0	2.0	2.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	3.0	1.0	1.0	1.0	0.0
		CO.8	3.0	3.0	0.0	3.0	1.0	0.0	0.0	0.0	0.0	0.0	3.0	1.0	1.0	1.0	0.0
		CO.9	3.0	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	1.0	1.0	1.0	0.0
			3.0	2.7	1.5	2.0	1.4	1.0	0.0	0.0	1.0	3.0	1.0	1.0	1.0	0.0	
EDBATY2	Understanding the discipline–A: Social Science	CO.1	3.0	1.0	1.0	2.0	1.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	3.0	0.0	
		CO.2	3.0	1.0	1.0	2.0	1.0	0.0	0.0	0.0	0.0	2.0	1.0	0.0	3.0	1.0	
		CO.3	3.0	2.0	1.0	2.0	0.0	0.0	0.0	0.0	0.0	2.0	1.0	0.0	3.0	1.0	
		CO.4	3.0	0.0	0.0	3.0	0.0	1.0	0.0	0.0	0.0	3.0	2.0	2.0	3.0	2.0	
		CO.5	2.0	3.0	1.0	3.0	2.0	2.0	0.0	0.0	0.0	2.0	1.0	3.0	3.0	2.0	

COURSE_CODE	COURSE_NAME	CO	PSO.1	PSO.2	PSO.3	PSO.4	PSO.5	PSO.6	PSO.7	PSO.8	PSO.9	P0.1	P0.2	P0.3	P0.4	P0.5
		CO.6	1.0	3.0	3.0	2.0	2.0	2.0	0.0	1.0	2.0	3.0	2.0	0.0	3.0	2.0
		CO.7	1.0	3.0	2.0	1.0	1.0	0.0	0.0	1.0	2.0	2.0	2.0	0.0	3.0	1.0
			2.3	2.2	1.5	2.1	1.4	1.7	0.0	1.0	2.0	2.1	1.5	2.5	3.0	1.5
EDBATY3	Understanding the discipline-B: Biology	CO.1	3.0	2.0	3.0	3.0	3.0	2.0	3.0	2.0	3.0	3.0	2.0	2.0	3.0	2.0
		CO.2	2.0	3.0	3.0	3.0	3.0	2.0	3.0	2.0	3.0	3.0	2.0	2.0	3.0	3.0
		CO.3	3.0	2.0	2.0	3.0	2.0	3.0	3.0	2.0	3.0	3.0	2.0	3.0	3.0	3.0
		CO.4	2.0	3.0	3.0	2.0	3.0	3.0	2.0	3.0	2.0	3.0	2.0	3.0	3.0	3.0
		CO.5	2.0	3.0	3.0	2.0	3.0	3.0	2.0	3.0	3.0	2.0	3.0	2.0	3.0	3.0
		CO.6	3.0	2.0	3.0	3.0	3.0	3.0	2.0	3.0	3.0	3.0	3.0	2.0	3.0	3.0
		CO.7	2.0	3.0	2.0	3.0	3.0	2.0	3.0	2.0	3.0	2.0	3.0	2.0	3.0	3.0
			2.4	2.6	2.7	2.7	2.9	2.6	2.6	2.4	2.9	2.7	2.4	2.3	3.0	2.9
EDBATY4	Understanding the discipline-B: Mathematics	CO.1	3.0	2.0	2.0	1.0	3.0	1.0	2.0	2.0	2.0	3.0	2.0	1.0	1.0	2.0
		CO.2	2.0	3.0	3.0	2.0	2.0	3.0	3.0	1.0	3.0	1.0	2.0	2.0	2.0	3.0
		CO.3	1.0	2.0	1.0	3.0	2.0	3.0	3.0	2.0	3.0	1.0	1.0	3.0	1.0	3.0
		CO.4	1.0	2.0	1.0	2.0	1.0	2.0	2.0	2.0	3.0	2.0	2.0	3.0	1.0	2.0
			1.8	2.3	1.8	2.0	2.0	2.3	2.5	1.8	2.8	1.8	1.8	2.3	1.3	2.5
EDBATY5	Understanding the discipline-B: English	CO.1	3.0	0.0	1.0	0.0	1.0	1.0	0.0	0.0	0.0	3.0	2.0	2.0	2.0	1.0
		CO.2	2.0	1.0	2.0	3.0	2.0	1.0	0.0	0.0	0.0	2.0	2.0	1.0	2.0	2.0
		CO.3	2.0	2.0	1.0	3.0	1.0	1.0	0.0	0.0	0.0	2.0	2.0	1.0	2.0	1.0
		CO.4	2.0	1.0	1.0	2.0	2.0	2.0	0.0	0.0	0.0	1.0	1.0	2.0	2.0	1.0
		CO.5	2.0	1.0	1.0	1.0	3.0	2.0	0.0	0.0	0.0	1.0	0.0	1.0	2.0	1.0
		CO.6	0.0	0.0	0.0	0.0	1.0	2.0	0.0	0.0	0.0	2.0	1.0	1.0	2.0	2.0
			2.2	1.6	1.2	2.4	1.7	1.5	0.0	0.0	0.0	1.8	1.4	1.4	2	1.2
EDBATY6	Understanding the discipline-B: Hindi	CO.1	3.0	3.0	2.0	1.0	2.0	1.0	2.0	3.0	2.0	3.0	2.0	3.0	2.0	3.0
		CO.2	3.0	1.0	1.0	1.0	3.0	1.0	2.0	3.0	2.0	3.0	2.0	3.0	2.0	2.0
		CO.3	3.0	2.0	2.0	2.0	2.0	2.0	3.0	2.0	3.0	3.0	2.0	2.0	3.0	2.0
		CO.4	3.0	1.0	3.0	2.0	2.0	2.0	2.0	3.0	3.0	3.0	2.0	3.0	1.0	2.0
			3.0	1.8	2.0	1.5	2.3	1.5	2.3	2.8	2.5	3.0	2.0	2.8	2.0	2.3
EDBATD1	Value education	CO.1	3.0	1.0	3.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.0	3.0	2.0	2.0
		CO.2	3.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.0	3.0	2.0
		CO.3	3.0	2.0	3.0	2.0	2.0	2.0	2.0	2.0	3.0	2.0	3.0	2.0	2.0	3.0
		CO.4	2.0	3.0	3.0	3.0	2.0	2.0	2.0	3.0	3.0	3.0	3.0	2.0	2.0	3.0
			2.8	2.0	2.8	2.3	2.0	2.0	2.0	2.3	2.5	2.3	2.8	2.5	2.3	2.5
EDBATD2	Physical and health education	CO.1	3.0	3.0	2.0	1.0	3.0	2.0	3.0	3.0	2.0	3.0	2.0	1.0	2.0	3.0
		CO.2	3.0	2.0	2.0	2.0	2.0	1.0	1.0	2.0	2.0	3.0	1.0	3.0	2.0	2.0
		CO.3	3.0	1.0	2.0	1.0	1.0	2.0	2.0	1.0	3.0	2.0	3.0	2.0	1.0	3.0
		CO.4	3.0	2.0	3.0	2.0	1.0	2.0	3.0	3.0	1.0	3.0	1.0	2.0	1.0	3.0
			3.0	2.0	2.3	1.5	1.8	1.8	2.3	2.3	2.0	2.8	1.8	2.0	1.5	2.8
EDBATD3	Guidance and counselling	CO.1	3.0	3.0	3.0	3.0	2.0	3.0	2.0	3.0	2.0	3.0	2.0	3.0	3.0	3.0
		CO.2	3.0	2.0	2.0	3.0	3.0	2.0	2.0	3.0	2.0	3.0	2.0	3.0	2.0	1.0
		CO.3	2.0	3.0	3.0	2.0	2.0	3.0	3.0	2.0	2.0	2.0	3.0	2.0	3.0	2.0
		CO.4	3.0	2.0	2.0	2.0	1.0	3.0	1.0	3.0	2.0	3.0	2.0	2.0	2.0	2.0
		CO.5	3.0	2.0	3.0	2.0	2.0	2.0	1.0	1.0	2.0	3.0	2.0	3.0	3.0	2.0
			2.8	2.4	2.6	2.4	2.0	2.6	1.8	2.4	2.0	2.8	2.2	2.6	2.6	2.0
EDBAGL1	Indian Sign language OR	CO.1	3.0	3.0	1.0	2.0	3.0	1.0	0.0	1.0	1.0	3.0	3.0	2.0	2.0	2.0
		CO.2	3.0	3.0	1.0	2.0	3.0	1.0	0.0	1.0	1.0	3.0	3.0	2.0	2.0	2.0



COURSE_CODE	COURSE_NAME	CO	PSO.1	PSO.2	PSO.3	PSO.4	PSO.5	PSO.6	PSO.7	PSO.8	PSO.9	P0.1	P0.2	P0.3	P0.4	P0.5
		CO.3	3.0	3.0	1.0	2.0	3.0	1.0	0.0	1.0	1.0	3.0	3.0	2.0	2.0	2.0
		CO.4	3.0	3.0	1.0	2.0	3.0	1.0	1.0	1.0	1.0	3.0	3.0	2.0	2.0	2.0
		CO.5	3.0	3.0	1.0	2.0	3.0	3.0	1.0	1.0	1.0	3.0	3.0	2.0	2.0	3.0
			3.0	3.0	1.0	2.0	3.0	1.4	0.4	1.0	1.0	3.0	3.0	2.0	2.0	2.2
EDBAGL2	Communication through Braille	CO.1	3.0	3.0	1.0	2.0	3.0	1.0	0.0	1.0	1.0	3.0	3.0	2.0	2.0	2.0
		CO.2	3.0	3.0	1.0	2.0	3.0	1.0	0.0	1.0	1.0	3.0	3.0	2.0	2.0	2.0
		CO.3	3.0	3.0	1.0	2.0	3.0	1.0	0.0	1.0	1.0	3.0	3.0	2.0	2.0	2.0
		CO.4	3.0	3.0	1.0	2.0	3.0	1.0	1.0	1.0	1.0	3.0	3.0	2.0	2.0	2.0
		CO.5	3.0	3.0	1.0	2.0	3.0	3.0	1.0	1.0	1.0	3.0	3.0	2.0	2.0	3.0
			3.0	3.0	1.0	2.0	3.0	1.4	0.4	1.0	1.0	3.0	3.0	2.0	2.0	2.2
EDBAGA1	Critical understanding of ICT in education	CO.1	3.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	3.0	1.0	1.0	1.0	1.0
		CO.2	2.0	3.0	1.0	1.0	1.0	0.0	0.0	1.0	0.0	3.0	1.0	1.0	1.0	1.0
		CO.3	3.0	3.0	2.0	3.0	1.0	1.0	1.0	2.0	1.0	3.0	1.0	2.0	2.0	1.0
		CO.4	3.0	3.0	2.0	3.0	1.0	0.0	1.0	2.0	1.0	3.0	2.0	2.0	3.0	1.0
		CO.5	3.0	3.0	2.0	3.0	1.0	0.0	1.0	2.0	1.0	3.0	2.0	2.0	3.0	1.0
			2.8	2.6	1.6	2.2	1.0	0.2	0.6	1.4	0.6	3.0	1.4	1.6	2.0	1.0
EDBAEF1	School visit-I (Upper Primary to Higher Secondary)	CO.1	3.0	0.0	0.0	2.0	0.0	0.0	0.0	2.0	0.0	3.0	2.0	0.0	0.0	0.0
		CO.2	3.0	1.0	3.0	0.0	1.0	0.0	2.0	3.0	0.0	3.0	1.0	1.0	2.0	2.0
		CO.3	3.0	3.0	3.0	3.0	2.0	0.0	3.0	3.0	3.0	3.0	2.0	2.0	2.0	2.0
			3.0	2.0	3.0	2.5	1.5	0.0	2.5	2.7	3.0	3.0	1.7	1.5	2.0	2.0
EDBBT1	Learning and teaching	CO.1	3.0	3.0	2.0	3.0	3.0	3.0	2.0	3.0	2.0	3.0	3.0	2.0	2.0	3.0
		CO.2	3.0	2.0	3.0	2.0	2.0	2.0	2.0	2.0	3.0	3.0	3.0	3.0	2.0	2.0
		CO.3	3.0	3.0	2.0	2.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.0	3.0	2.0
		CO.4	3.0	2.0	3.0	2.0	2.0	3.0	2.0	2.0	2.0	3.0	3.0	2.0	3.0	2.0
		CO.5	3.0	2.0	2.0	2.0	3.0	2.0	2.0	3.0	3.0	3.0	3.0	3.0	2.0	2.0
			3.0	2.4	2.6	2.4	2.4	0.0	0.0	2.7	2.7	3.0	2.7	2.2	2.3	2.1
EDBBT2	Knowledge and curriculum	CO.1	3.0	0.0	1.0	1.0	3.0	2.0	0.0	0.0	0.0	3.0	2.0	0.0	2.0	2.0
		CO.2	3.0	0.0	1.0	2.0	1.0	1.0	0.0	1.0	0.0	3.0	2.0	0.0	2.0	2.0
		CO.3	3.0	0.0	2.0	3.0	0.0	1.0	0.0	1.0	0.0	3.0	1.0	2.0	2.0	1.0
		CO.4	3.0	3.0	2.0	3.0	2.0	0.0	0.0	2.0	0.0	3.0	2.0	2.0	2.0	2.0
			3.0	2.4	1.9	2.2	2.2	0.0	2.1	1.9	2.6	3.0	2.2	2.2	2.2	1.9
EDBBT3	Language across the curriculum	CO.1	3.0	2.0	1.0	1.0	3.0	1.0	1.0	1.0	2.0	2.0	1.0	2.0	2.0	2.0
		CO.2	3.0	3.0	3.0	2.0	3.0	1.0	1.0	1.0	3.0	3.0	3.0	3.0	2.0	2.0
		CO.3	3.0	3.0	3.0	2.0	3.0	2.0	2.0	2.0	3.0	3.0	3.0	3.0	2.0	2.0
		CO.4	3.0	3.0	3.0	2.0	3.0	2.0	2.0	2.0	3.0	2.0	3.0	3.0	2.0	3.0
		CO.5	3.0	3.0	3.0	2.0	2.0	2.0	3.0	2.0	3.0	2.0	2.0	2.0	3.0	3.0
		CO.6	2.0	3.0	3.0	3.0	3.0	2.0	1.0	1.0	3.0	2.0	3.0	3.0	2.0	2.0
			2.9	2.8	2.6	2.0	2.7	0.0	1.7	1.6	2.8	2.4	2.5	2.6	2.2	2.3
EDBBTY1	Pedagogy-I (A): Physical Science	CO.1	3.0	3.0	0.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		CO.2	3.0	3.0	0.0	2.0	1.0	0.0	0.0	1.0	0.0	3.0	2.0	1.0	1.0	1.0
		CO.3	3.0	3.0	2.0	2.0	1.0	0.0	0.0	0.0	0.0	3.0	2.0	1.0	1.0	1.0
		CO.4	3.0	3.0	2.0	1.0	1.0	0.0	0.0	1.0	0.0	3.0	2.0	1.0	3.0	1.0
		CO.5	3.0	3.0	0.0	1.0	0.0	0.0	0.0	1.0	0.0	3.0	1.0	1.0	1.0	1.0
		CO.6	3.0	3.0	2.0	2.0	1.0	0.0	0.0	1.0	1.0	3.0	1.0	2.0	2.0	1.0
		CO.7	3.0	3.0	1.0	2.0	1.0	0.0	0.0	0.0	0.0	3.0	2.0	1.0	2.0	1.0
		CO.8	3.0	3.0	2.0	2.0	2.0	1.0	1.0	1.0	0.0	3.0	3.0	3.0	3.0	1.0

COURSE_CODE	COURSE_NAME	CO	PSO.1	PSO.2	PSO.3	PSO.4	PSO.5	PSO.6	PSO.7	PSO.8	PSO.9	P0.1	P0.2	P0.3	P0.4	P0.5	
		CO.9	3.0	3.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0	2.0	3.0	3.0	
			3.0	3.0	1.7	1.6	1.2	1.5	1.0	1.0	1.0	3.0	2.0	1.5	2.0	1.3	
EDBBTY2	Pedagogy-I (A): Social Science	CO.1	3.0	3.0	1.0	0.0	0.0	0.0	1.0	1.0	1.0	3.0	2.0	2.0	3.0	2.0	
		CO.2	3.0	3.0	2.0	2.0	2.0	1.0	3.0	3.0	2.0	3.0	3.0	1.0	3.0	2.0	
		CO.3	2.0	3.0	3.0	2.0	2.0	1.0	3.0	2.0	1.0	3.0	2.0	1.0	3.0	2.0	
		CO.4	3.0	3.0	3.0	2.0	1.0	2.0	3.0	2.0	1.0	3.0	2.0	1.0	3.0	2.0	
			2.9	3.0	2.0	1.8	1.6	1.4	2.0	1.6	1.2	3.0	2.4	1.6	2.9	1.9	
EDBBTY3	Pedagogy-I (B): Biology	CO.1	3.0	2.0	2.0	3.0	3.0	2.0	3.0	3.0	3.0	3.0	2.0	3.0	2.0	3.0	
		CO.2	3.0	3.0	3.0	2.0	3.0	2.0	3.0	2.0	2.0	3.0	3.0	3.0	2.0	3.0	
		CO.3	3.0	3.0	2.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.0	
		CO.4	2.0	3.0	3.0	2.0	2.0	3.0	3.0	3.0	3.0	3.0	2.0	2.0	3.0	3.0	
		CO.5	3.0	3.0	2.0	3.0	3.0	2.0	3.0	3.0	3.0	2.0	3.0	3.0	2.0	3.0	
	2.8	2.9	2.4	2.4	2.4	2.2	2.9	2.5	2.3	2.9	2.5	2.4	2.6	2.6			
EDBBTY4	Pedagogy-I (B); Mathematics	CO.1	2.0	3.0	3.0	3.0	2.0	1.0	1.0	2.0	3.0	2.0	2.0	3.0	1.0	2.0	
		CO.2	2.0	2.0	2.0	2.0	1.0	2.0	2.0	3.0	1.0	1.0	2.0	2.0	2.0	2.0	
		CO.3	3.0	2.0	3.0	2.0	2.0	3.0	3.0	2.0	1.0	2.0	2.0	2.0	1.0	1.0	
		CO.4	3.0	1.0	2.0	3.0	2.0	3.0	2.0	2.0	2.0	3.0	3.0	3.0	1.0	2.0	
	2.5	2.4	2.5	2.5	2.1	2.3	2.4	2.5	2.2	2.3	2.4	2.5	1.8	2.2			
EDBBTY5	Pedagogy-I (B): English	CO.1	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	0.0	0.0	1.0	0.0
		CO.2	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0
		CO.3	3.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	1.0	1.0	0.0
		CO.4	3.0	3.0	2.0	0.0	0.0	1.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	3.0	
		CO.5	3.0	3.0	0.0	2.0	3.0	3.0	0.0	0.0	0.0	2.0	1.0	0.0	0.0	3.0	
	2.9	2.3	2.2	2.5	2.4	2.3	2.2	2.3	2.1	2.2	2.1	2.2	1.2	2.6			
EDBBTY6	Pedagogy-I (B): Hindi	CO.1	3.0	2.0	3.0	2.0	2.0	3.0	3.0	2.0	3.0	3.0	3.0	3.0	3.0	2.0	
		CO.2	3.0	1.0	2.0	1.0	2.0	1.0	2.0	3.0	2.0	3.0	1.0	2.0	2.0	2.0	
		CO.3	3.0	2.0	1.0	2.0	1.0	2.0	3.0	3.0	2.0	3.0	1.0	2.0	2.0	3.0	
		CO.4	3.0	1.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	3.0	2.0	2.0	2.0	3.0	
		CO.5	3.0	1.0	2.0	3.0	1.0	2.0	1.0	2.0	2.0	3.0	2.0	1.0	2.0	2.0	
		CO.6	3.0	1.0	1.0	2.0	3.0	1.0	2.0	2.0	2.0	3.0	2.0	1.0	2.0	2.0	
		CO.7	3.0	1.0	3.0	1.0	2.0	2.0	1.0	1.0	1.0	3.0	1.0	1.0	2.0	1.0	
		CO.8	3.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0	2.0	3.0	2.0	2.0	2.0	3.0	
	3.0	1.3	1.9	1.9	1.9	1.8	1.9	2.0	1.9	3.0	1.8	1.8	2.1	2.3			
EDBBGA1	Drama & Art in Education	CO.1	2.0	3.0	3.0	3.0	2.0	2.0	3.0	2.0	3.0	2.0	2.0	3.0	3.0	3.0	
		CO.2	2.0	3.0	3.0	3.0	2.0	2.0	3.0	2.0	3.0	3.0	3.0	2.0	3.0	3.0	
		CO.3	3.0	3.0	3.0	3.0	2.0	3.0	3.0	2.0	3.0	3.0	3.0	3.0	3.0	3.0	
		CO.4	3.0	3.0	3.0	2.0	2.0	3.0	3.0	2.0	3.0	3.0	3.0	3.0	3.0	3.0	
		CO.5	3.0	3.0	3.0	3.0	2.0	3.0	3.0	2.0	3.0	3.0	3.0	2.0	3.0	3.0	
		CO.6	3.0	3.0	3.0	3.0	3.0	2.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	
		CO.7	3.0	3.0	3.0	2.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	
		CO.8	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	
	2.8	3.0	3.0	2.8	2.4	2.6	3.0	2.4	3.0	2.9	2.9	2.8	3.0	3.0			
EDBBEF1	School visit- II(Upper Primary to Higher Secondary)	CO.1	3.0	3.0	2.0	1.0	3.0	1.0	2.0	2.0	0.0	3.0	3.0	0.0	0.0	1.0	
		CO.2	2.0	3.0	1.0	2.0	3.0	2.0	1.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	
		CO.3	3.0	1.0	2.0	3.0	3.0	1.0	3.0	3.0	3.0	2.0	2.0	0.0	1.0	0.0	
		CO.4	2.0	2.0	2.0	2.0	3.0	1.0	3.0	3.0	3.0	3.0	0.0	1.0	0.0	3.0	
	2.7	2.6	2.3	2.3	2.9	1.9	2.6	2.7	3.0	2.8	2.5	2.4	2.5	2.6			

COURSE_CODE	COURSE_NAME	CO	PSO.1	PSO.2	PSO.3	PSO.4	PSO.5	PSO.6	PSO.7	PSO.8	PSO.9	P0.1	P0.2	P0.3	P0.4	P0.5	
EDBBGF2	Practicing teaching skills	CO.1	3.0	1.0	0.0	1.0	1.0	3.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0	3.0
		CO.2	3.0	3.0	1.0	1.0	2.0	3.0	0.0	1.0	0.0	0.0	3.0	2.0	3.0	2.0	3.0
		CO.3	2.0	3.0	0.0	3.0	3.0	3.0	2.0	2.0	2.0	3.0	2.0	2.0	3.0	3.0	3.0
			2.7	2.3	0.3	1.7	2.0	3.0	0.7	1.0	0.7	2.7	2.0	2.3	2.3	3.0	
EDBCTT1	Assessment and evaluation	CO.1	3.0	3.0	1.0	3.0	2.0	0.0	0.0	0.0	1.0	3.0	2.0	1.0	1.0	2.0	
		CO.2	3.0	3.0	1.0	3.0	2.0	1.0	1.0	1.0	1.0	3.0	2.0	1.0	2.0	2.0	
		CO.3	3.0	3.0	1.0	3.0	2.0	1.0	1.0	1.0	1.0	3.0	2.0	1.0	2.0	2.0	
		CO.4	3.0	3.0	1.0	3.0	2.0	1.0	1.0	2.0	1.0	3.0	2.0	1.0	2.0	2.0	
		CO.5	3.0	3.0	1.0	3.0	2.0	1.0	1.0	1.0	1.0	3.0	2.0	1.0	2.0	2.0	
	3.0	3.0	1.0	3.0	2.0	0.8	0.8	1.0	1.0	3.0	2.0	1.0	1.8	2.0			
EDBCTY1	Pedagogy-II (A): Physical Science	CO.1	3.0	1.0	0.0	2.0	1.0	0.0	0.0	1.0	1.0	3.0	1.0	1.0	1.0	1.0	
		CO.2	3.0	1.0	0.0	2.0	0.0	0.0	0.0	2.0	0.0	3.0	1.0	1.0	2.0	1.0	
		CO.3	3.0	1.0	2.0	3.0	1.0	0.0	1.0	2.0	1.0	3.0	2.0	1.0	1.0	1.0	
		CO.4	3.0	2.0	1.0	1.0	2.0	1.0	1.0	1.0	1.0	3.0	1.0	1.0	1.0	1.0	
		CO.5	3.0	2.0	1.0	1.0	0.0	0.0	1.0	1.0	1.0	3.0	1.0	1.0	1.0	1.0	
		CO.6	3.0	3.0	1.0	2.0	1.0	0.0	1.0	2.0	1.0	3.0	1.0	1.0	1.0	1.0	
		CO.7	3.0	3.0	1.0	2.0	0.0	1.0	1.0	2.0	1.0	3.0	1.0	2.0	1.0	1.0	
		CO.8	3.0	3.0	3.0	3.0	1.0	0.0	0.0	2.0	1.0	3.0	1.0	1.0	1.0	1.0	
	3.0	2.0	1.5	2.0	1.2	1.0	1.0	1.6	1.0	3.0	1.1	1.1	1.1	1.0			
EDBCTY2	Pedagogy-II (A): Social Science	CO.1	3.0	3.0	1.0	1.0	1.0	3.0	3.0	3.0	2.0	3.0	3.0	3.0	3.0	1.0	
		CO.2	2.0	3.0	1.0	0.0	1.0	0.0	1.0	0.0	0.0	3.0	0.0	1.0	1.0	2.0	
		CO.3	3.0	3.0	2.0	1.0	0.0	0.0	1.0	1.0	0.0	3.0	0.0	1.0	1.0	2.0	
		CO.4	3.0	3.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	2.0	1.0	
		CO.5	3.0	3.0	3.0	0.0	2.0	0.0	0.0	1.0	0.0	3.0	0.0	1.0	1.0	2.0	
	2.8	3.0	1.8	1.0	1.3	3.0	1.7	1.7	2.0	3.0	3.0	1.5	1.6	1.6			
EDBCTY3	Pedagogy-II (B): Biology	CO.1	3.0	2.0	3.0	2.0	2.0	2.0	2.0	2.0	2.0	3.0	2.0	2.0	2.0	3.0	
		CO.2	3.0	3.0	2.0	3.0	3.0	2.0	2.0	3.0	2.0	3.0	3.0	3.0	3.0	3.0	
		CO.3	3.0	2.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.0	3.0	3.0	3.0	3.0	
		CO.4	3.0	2.0	3.0	2.0	3.0	2.0	3.0	2.0	3.0	3.0	2.0	3.0	3.0	2.0	
		CO.5	3.0	3.0	3.0	2.0	3.0	3.0	2.0	3.0	3.0	2.0	3.0	2.0	3.0	2.0	
		CO.6	3.0	3.0	2.0	3.0	2.0	2.0	3.0	3.0	3.0	3.0	3.0	2.0	3.0	3.0	
		CO.7	3.0	2.0	3.0	3.0	3.0	3.0	3.0	2.0	3.0	2.0	3.0	3.0	3.0	2.0	
		CO.8	3.0	2.0	3.0	2.0	2.0	3.0	2.0	3.0	2.0	3.0	3.0	3.0	3.0	3.0	
	3.0	2.4	2.8	2.5	2.6	2.5	2.5	2.6	2.6	2.6	2.8	2.6	2.9	2.6			
EDBCTY4	Pedagogy-II (B); Mathematics	CO.1	2.0	3.0	3.0	3.0	2.0	1.0	1.0	2.0	3.0	3.0	1.0	1.0	1.0	1.0	
		CO.2	2.0	2.0	2.0	2.0	1.0	2.0	2.0	3.0	1.0	3.0	2.0	1.0	1.0	1.0	
		CO.3	3.0	2.0	3.0	2.0	2.0	3.0	3.0	2.0	1.0	3.0	2.0	1.0	1.0	1.0	
		CO.4	3.0	1.0	2.0	3.0	2.0	3.0	2.0	2.0	2.0	3.0	1.0	1.0	1.0	1.0	
	2.5	2.0	2.5	2.5	1.8	2.3	2.0	2.3	1.8	3.0	1.5	1.0	1.0	1.0			
EDBCTY5	Pedagogy-II (B): English	CO.1	3.0	3.0	2.0	3.0	2.0	2.0	2.0	2.0	3.0	2.0	2.0	2.0	2.0	2.0	
		CO.2	2.0	3.0	3.0	3.0	2.0	2.0	3.0	2.0	3.0	2.0	3.0	2.0	2.0	2.0	
		CO.3	2.0	2.0	2.0	3.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.0	3.0	2.0	
		CO.4	2.0	2.0	3.0	3.0	2.0	2.0	3.0	3.0	3.0	2.0	3.0	3.0	2.0	2.0	
		CO.5	2.0	3.0	2.0	3.0	2.0	3.0	3.0	2.0	2.0	2.0	3.0	2.0	3.0	2.0	
	2.2	2.6	2.4	3.0	2.0	2.2	2.6	2.2	2.6	2.0	2.6	2.4	2.4	2.0			
EDBCTY6	Pedagogy-II (B): Hindi	CO.1	3.0	2.0	3.0	2.0	2.0	3.0	3.0	2.0	2.0	3.0	3.0	2.0	1.0	1.0	

COURSE_CODE	COURSE_NAME	CO	PSO.1	PSO.2	PSO.3	PSO.4	PSO.5	PSO.6	PSO.7	PSO.8	PSO.9	P0.1	P0.2	P0.3	P0.4	P0.5
		CO.2	3.0	1.0	2.0	1.0	2.0	2.0	3.0	2.0	2.0	3.0	1.0	2.0	3.0	2.0
		CO.3	3.0	2.0	2.0	1.0	3.0	2.0	2.0	2.0	2.0	3.0	2.0	2.0	1.0	3.0
		CO.4	3.0	2.0	3.0	3.0	3.0	1.0	1.0	1.0	3.0	3.0	2.0	2.0	2.0	2.0
			<b>3.0</b>	<b>1.8</b>	<b>2.5</b>	<b>1.8</b>	<b>2.5</b>	<b>2.0</b>	<b>2.3</b>	<b>1.8</b>	<b>2.3</b>	<b>3.0</b>	<b>2.0</b>	<b>2.0</b>	<b>1.8</b>	<b>2.0</b>
EDBC GA1	Reading & reflecting on text	CO.1	2.0	3.0	3.0	2.0	2.0	3.0	2.0	3.0	3.0	3.0	2.0	2.0	2.0	3.0
		CO.2	3.0	2.0	2.0	3.0	2.0	2.0	2.0	3.0	2.0	2.0	3.0	2.0	2.0	2.0
		CO.3	3.0	2.0	3.0	3.0	2.0	2.0	2.0	2.0	3.0	2.0	3.0	2.0	2.0	2.0
		CO.4	2.0	3.0	3.0	3.0	2.0	3.0	2.0	3.0	2.0	2.0	2.0	2.0	2.0	2.0
		CO.5	2.0	3.0	3.0	3.0	3.0	3.0	2.0	2.0	3.0	2.0	2.0	2.0	2.0	3.0
			<b>2.4</b>	<b>2.6</b>	<b>2.8</b>	<b>2.8</b>	<b>2.2</b>	<b>2.6</b>	<b>2.0</b>	<b>2.6</b>	<b>2.6</b>	<b>2.2</b>	<b>2.4</b>	<b>2.0</b>	<b>2.0</b>	<b>2.4</b>
EDBC LF1	Psychological testing	CO.1	3.0	3.0	2.0	3.0	0.0	0.0	0.0	0.0	0.0	2.0	3.0	3.0	3.0	2.0
		CO.2	3.0	3.0	2.0	3.0	0.0	0.0	0.0	0.0	0.0	3.0	2.0	3.0	3.0	2.0
		CO.3	3.0	3.0	2.0	3.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	3.0	3.0	2.0
			<b>3.0</b>	<b>3.0</b>	<b>2.0</b>	<b>3.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>2.3</b>	<b>2.3</b>	<b>3.0</b>	<b>3.0</b>	<b>2.0</b>
EDBC EF2	School internship-I (Upper Primary to Higher Secondary)	CO.1	3.0	2.0	2.0	0.0	2.0	0.0	0.0	0.0	0.0	3.0	2.0	0.0	2.0	1.0
		CO.2	3.0	2.0	1.0	3.0	1.0	0.0	0.0	0.0	0.0	3.0	2.0	0.0	2.0	1.0
		CO.3	3.0	2.0	3.0	3.0	3.0	0.0	0.0	2.0	0.0	3.0	3.0	1.0	3.0	2.0
		CO.4	3.0	2.0	0.0	2.0	1.0	0.0	2.0	2.0	0.0	3.0	3.0	0.0	3.0	2.0
			<b>3.0</b>	<b>2.0</b>	<b>2.0</b>	<b>2.7</b>	<b>1.8</b>	<b>0.0</b>	<b>2.0</b>	<b>2.0</b>	<b>0.0</b>	<b>3.0</b>	<b>2.5</b>	<b>1.0</b>	<b>2.5</b>	<b>1.5</b>
EDBC TT1	School management & leadership	CO.1	3.0	2.0	2.0	3.0	2.0	1.0	2.0	2.0	1.0	3.0	2.0	2.0	2.0	2.0
		CO.2	2.0	3.0	2.0	2.0	2.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	1.0	2.0
		CO.3	3.0	2.0	3.0	2.0	1.0	1.0	2.0	2.0	1.0	2.0	3.0	2.0	3.0	1.0
		CO.4	2.0	3.0	3.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
		CO.5	2.0	2.0	2.0	3.0	1.0	2.0	1.0	1.0	2.0	2.0	3.0	3.0	2.0	2.0
		CO.6	3.0	3.0	3.0	2.0	1.0	2.0	2.0	2.0	1.0	2.0	2.0	2.0	2.0	2.0
		CO.7	1.0	2.0	2.0	2.0	1.0	1.0	1.0	2.0	1.0	3.0	2.0	3.0	2.0	1.0
		CO.8	2.0	3.0	3.0	1.0	2.0	3.0	2.0	1.0	2.0	2.0	2.0	2.0	2.0	2.0
		CO.9	2.0	2.0	2.0	2.0	2.0	2.0	1.0	1.0	2.0	3.0	3.0	3.0	2.0	2.0
		CO.10	3.0	3.0	3.0	3.0	2.0	2.0	2.0	1.0	1.0	2.0	2.0	2.0	2.0	1.0
			<b>2.3</b>	<b>2.5</b>	<b>2.5</b>	<b>2.2</b>	<b>1.6</b>	<b>1.8</b>	<b>1.6</b>	<b>1.5</b>	<b>1.5</b>	<b>2.3</b>	<b>2.3</b>	<b>2.4</b>	<b>2.0</b>	<b>1.7</b>
EDBC TT2	Creating an inclusive school	CO.1	3.0	2.0	2.0	3.0	2.0	2.0	2.0	3.0	2.0	3.0	2.0	3.0	2.0	3.0
		CO.2	2.0	2.0	3.0	2.0	2.0	3.0	2.0	3.0	2.0	2.0	3.0	2.0	3.0	2.0
		CO.3	2.0	2.0	3.0	3.0	2.0	2.0	3.0	2.0	2.0	3.0	2.0	2.0	3.0	2.0
		CO.4	3.0	2.0	3.0	3.0	2.0	2.0	3.0	2.0	2.0	2.0	3.0	2.0	2.0	2.0
		CO.5	3.0	2.0	2.0	2.0	2.0	2.0	3.0	3.0	2.0	3.0	2.0	2.0	3.0	2.0
			<b>2.6</b>	<b>2.0</b>	<b>2.6</b>	<b>2.6</b>	<b>2.0</b>	<b>2.2</b>	<b>2.6</b>	<b>2.6</b>	<b>2.0</b>	<b>2.6</b>	<b>2.4</b>	<b>2.2</b>	<b>2.6</b>	<b>2.2</b>
EDBC TT3	Gender, school and society	CO.1	3.0	2.0	2.0	2.0	2.0	2.0	2.0	1.0	2.0	3.0	2.0	2.0	2.0	1.0
		CO.2	3.0	1.0	3.0	1.0	2.0	3.0	3.0	2.0	1.0	2.0	2.0	3.0	2.0	2.0
		CO.3	3.0	2.0	2.0	2.0	2.0	2.0	2.0	1.0	2.0	2.0	3.0	2.0	1.0	1.0
		CO.4	3.0	3.0	2.0	1.0	3.0	2.0	2.0	1.0	1.0	3.0	2.0	2.0	3.0	2.0
		CO.5	2.0	2.0	3.0	1.0	2.0	2.0	3.0	2.0	1.0	2.0	2.0	3.0	2.0	1.0
		CO.6	2.0	2.0	2.0	1.0	2.0	2.0	2.0	1.0	2.0	2.0	3.0	2.0	2.0	1.0
		CO.7	1.0	1.0	2.0	1.0	2.0	3.0	2.0	2.0	2.0	2.0	3.0	2.0	2.0	1.0
		CO.8	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.0	2.0
			<b>2.4</b>	<b>1.9</b>	<b>2.3</b>	<b>1.4</b>	<b>2.1</b>	<b>2.3</b>	<b>2.3</b>	<b>1.5</b>	<b>1.6</b>	<b>2.3</b>	<b>2.4</b>	<b>2.3</b>	<b>1.9</b>	<b>1.4</b>
EDBC TD1	Peace education	CO.1	3.0	2.0	3.0	3.0	2.0	2.0	3.0	3.0	2.0	3.0	2.0	2.0	3.0	2.0
		CO.2	3.0	2.0	2.0	3.0	3.0	2.0	3.0	3.0	2.0	3.0	2.0	3.0	3.0	2.0

COURSE_CODE	COURSE_NAME	CO	PSO.1	PSO.2	PSO.3	PSO.4	PSO.5	PSO.6	PSO.7	PSO.8	PSO.9	P0.1	P0.2	P0.3	P0.4	P0.5
		CO.3	2.0	3.0	2.0	2.0	3.0	3.0	2.0	3.0	2.0	2.0	3.0	3.0	2.0	2.0
		CO.4	3.0	3.0	2.0	2.0	2.0	3.0	2.0	2.0	2.0	2.0	3.0	3.0	3.0	2.0
		CO.5	3.0	2.0	2.0	3.0	3.0	2.0	3.0	3.0	2.0	3.0	2.0	2.0	3.0	2.0
			<b>2.8</b>	<b>2.4</b>	<b>2.2</b>	<b>2.6</b>	<b>2.6</b>	<b>2.4</b>	<b>2.6</b>	<b>2.8</b>	<b>2.0</b>	<b>2.6</b>	<b>2.4</b>	<b>2.6</b>	<b>2.8</b>	<b>2.0</b>
EDBDTD2	Vocational & Work Education	CO.1	3.0	1.0	2.0	3.0	3.0	2.0	3.0	2.0	3.0	3.0	1.0	1.0	2.0	3.0
		CO.2	3.0	2.0	2.0	2.0	3.0	1.0	2.0	3.0	2.0	2.0	2.0	1.0	2.0	1.0
		CO.3	3.0	3.0	2.0	2.0	2.0	3.0	2.0	3.0	1.0	3.0	3.0	2.0	3.0	2.0
		CO.4	3.0	1.0	2.0	2.0	2.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	2.0	2.0
			<b>3.0</b>	<b>1.8</b>	<b>2.0</b>	<b>2.3</b>	<b>2.5</b>	<b>2.0</b>	<b>2.0</b>	<b>2.3</b>	<b>2.0</b>	<b>2.5</b>	<b>2.0</b>	<b>1.8</b>	<b>2.3</b>	<b>2.0</b>
EDBDTD3	Legal education	CO.1	3.0	1.0	3.0	2.0	2.0	2.0	0.0	1.0	2.0	3.0	3.0	1.0	2.0	1.0
		CO.2	3.0	1.0	3.0	3.0	2.0	0.0	0.0	1.0	2.0	3.0	3.0	1.0	1.0	1.0
		CO.3	3.0	2.0	3.0	3.0	2.0	0.0	0.0	1.0	2.0	3.0	3.0	1.0	2.0	1.0
		CO.4	3.0	2.0	3.0	3.0	2.0	0.0	0.0	1.0	2.0	3.0	3.0	2.0	1.0	1.0
		CO.5	3.0	3.0	3.0	3.0	2.0	0.0	1.0	1.0	2.0	3.0	3.0	2.0	2.0	1.0
			<b>3.0</b>	<b>1.8</b>	<b>3.0</b>	<b>2.8</b>	<b>2.0</b>	<b>0.4</b>	<b>0.2</b>	<b>1.0</b>	<b>2.0</b>	<b>3.0</b>	<b>3.0</b>	<b>1.4</b>	<b>1.6</b>	<b>1.0</b>
EDBDGA1	Understanding the self	CO.1	3.0	3.0	2.0	3.0	0.0	0.0	0.0	0.0	0.0	2.0	3.0	3.0	3.0	2.0
		CO.2	3.0	3.0	2.0	3.0	0.0	0.0	0.0	0.0	0.0	3.0	2.0	3.0	3.0	2.0
		CO.3	3.0	3.0	2.0	3.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	3.0	3.0	2.0
			<b>3.0</b>	<b>3.0</b>	<b>2.0</b>	<b>3.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>2.3</b>	<b>2.3</b>	<b>3.0</b>	<b>3.0</b>	<b>2.0</b>
EDBDEF1	School internship-II (Upper Primary to Higher Secondary)	CO.1	3.0	2.0	2.0	3.0	1.0	3.0	0.0	0.0	0.0	2.0	1.0	1.0	0.0	1.0
		CO.2	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	1.0	3.0	3.0	2.0	2.0
		CO.3	3.0	3.0	1.0	3.0	1.0	3.0	1.0	1.0	0.0	1.0	1.0	2.0	0.0	1.0
		CO.4	2.0	3.0	2.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
			<b>2.8</b>	<b>2.8</b>	<b>2.0</b>	<b>3.0</b>	<b>2.0</b>	<b>3.0</b>	<b>1.8</b>	<b>1.8</b>	<b>1.5</b>	<b>1.8</b>	<b>2.0</b>	<b>2.3</b>	<b>1.3</b>	<b>1.8</b>

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## **COURSE C11: CHILDHOOD & GROWING UP**

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### **COURSE OBJECTIVES**

**MARKS: 100 | CREDITS: 4 | 6 Hrs./wk**

B.Ed First Semester students will be able to-

- CO-Explain various aspects of child development and factors affecting it
  - CO-Generate suitable environment helping students to develop a positive identity and realistic self-concept
  - CO-Differentiate critically on the issues of gender and marginalization in development of sense of identity
  - CO-Interpret how gender caste and social class may impact the lived experience of children.
  - CO-Demonstrate knowledge of different perspectives in the area of education of children with disabilities
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### **UNIT I: CONCEPT OF CHILD DEVELOPMENT**

- Child Development: Meaning, nature; Principles of development
- Heredity: Meaning, and its role in development.
- Environment: Physical, Social – Family, School, Community (Neighbourhood) and their role in Child development. Impact of urbanization and economic conditions
- Role of heredity and environment in individual differences

### **UNIT II: DEVELOPMENT: VARIOUS DIMENSIONS**

- Physically and cognitively developing individual: from Infancy, Childhood to Adolescence expected roles and developmental tasks (referring to theories of Jean Piaget and Bruner), challenges to the school learners
- Emotionally and socially developing individual: from Infancy, Childhood to Adolescence expected roles and developmental tasks (referring to theories of Erickson, Bandura and Kohlberg), challenges to the school learners

### **UNIT III: DEVELOPMENT OF SELF AND IDENTITY: VARIOUS ISSUES**

- Fully functional self (referring Maslow and Rogers), self-concept and identity; education for self realisation
- Gender and identity, Sense of identity among socially disadvantaged and marginalised groups, Role of stereotyping,
- Understanding adolescent learners: characteristics, problems and concerns, need of counseling

### **UNIT IV: ISSUES IN DEVELOPMENT OF THOUGHT AND ABILITIES**

- Development of language and thought, role of culture and social context
  - Multiple abilities: multiple intelligence; supporting gifted and slow learners
  - Inclusive Education :Process of inclusion and issues across disabilities
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Process of inclusion: Concerns and issues across disabilities **COURSE WORK/FIELD**

### **ENGAGEMENT/PRACTICUM:**

-Presentation on effect of environment on education from Government reports

- Data based Presentation (oral/written) on education in relation to gender identity and gender sensitivity
- Data based Presentation (oral/written) on the problems of adolescent learners in India
- Study of the tools of measuring multiple abilities and Self Concept
- Presentation (oral/written) on the Counselling services given by CBSE and schools

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**MODE OF TRANSACTION:** Lectures, discussion, video clips, Group Presentation

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**Suggested Readings:**

Suggested Reading/Learning Reference-

- [https://www.education.gov.in/shikshakparv/docs/Anita\\_Julka.pdf](https://www.education.gov.in/shikshakparv/docs/Anita_Julka.pdf)
  - You-Tube Channel/ Moocs/OER
  - Books- Disability Inclusion and Inclusive Education-Sujata Chhenat
  - Creating An Inclusive School -S.K. Mangal
- 

*Agarwal, Kanika (1991). Mother Craft and Child Development, Rajeev Publication, Meerut.*

*Aswal G.S. (2009). Iied Educational Psychology, VaniPrakashan, Patna*

*Elizabeth B. Hurlock (1997) Child Development (VI Ed.). Tata Mcgrow Hilt Publishing Company Limited, Noida.*

*Mishra, R.C. (2005). Early Childhood Education Today, Prentice Hall Publisher.*

*Mishra, Bhawna (1999). Education and child Development.Mohit Publications, New Delhi*

*Kumar R.(2009): Child Development (VOLI,II)APH Publishing Corporation,New Delhi.*

*Pandey Ram Shakal (2007). Education Psychology, Surya Publication, Meerut*

*Sharma, Kamlesh, ManavBikas, syar publication, Agra.*

*Woolfolk, A. Misra, G. Jha, A. (2012), Fundamental Educational Psychology, Delhi: Pearsons*

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**COURSE C12 : CONTEMPORARY INDIA AND EDUCATION**

**COURSE OBJECTIVES**

**MARKS: 100 | CREDITS: 4 | 6 Hrs./wk**

The B.Ed. First Semester Students will be able to

CO- interpret the meaning of CIE

CO - to construct understanding about the Nature of CIE

CO - develop understanding about the nature of different disciplines under CIE

CO - construct CIE curriculum

CO - develop and apply concepts, generalization and hypothesis

CO - connect CIE teaching with life outside class

CO - to become aware of the social responsibilities of a CIE Structure

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**UNIT I: UNDERSTANDING EDUCATION**

- Meaning and the nature of Education
- Types of education and their relevance
- Different Aims of Education
- Evolution aims of education in India
- Determinants of Education system in India (Mainly on Aims, Methods, Curriculum etc.)

**UNIT II: THE INDIAN SOCIETY AND THE CLASSROOM**

- Nature of Indian Society: its effect on the process of education
- Social Stratification (Meaning, Forms, Bases, Impact of education and on education)
- Socialization of children in India and role of different agencies (school, teachers, family, religion, community)
- Social Discrimination, Social Exclusion and Exploitation, Social and cultural capital

**UNIT III: INDIAN CONSTITUTION AND THE EDUCATIONAL CONCERNS AFTER INDEPENDENT**

- The British education system and The National Education movement
- The Indian constitution and Education
- Education for National Development: Mudaliar and Kothari Commission on Education
- The New Education Policy 1986

**UNIT IV: MODERN EDUCATIONAL DEBATES IN INDIA**

- Development of Scheduled Tribe/Scheduled Caste and Education
- Development of Women and Education
- Universalisation v/s Quality of education
- PPP and Privatization of education: Meaning and its Impact
- Uniformity of structure of education, curriculum, language, schools (common school)

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**COURSE WORK/FIELD ENGAGEMENT/PRACTICUM**

- Field based surveys of status of marginalized social groups like SC, ST, migrant workers, rural and urban poor, etc and their educational prospects.
- Surveys of study condition of different kinds of schools and teachers and other staff working in them
- Status report of a village of Bilaspur
- Comparative report of learning style of students from different communities
- Ethnographic profiling of some communities of India

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**MODE OF TRANSACTION:** Lecture cum demonstration, project, and observation

**Suggested Readings:**



- AzimPremji Foundation The Social Context of Elementary Education in Rural India, AzimPremji Foundation, Bangalore, 2004
- Danda, A. K. [edit.] Chhattisgarh: An Area Study, Calcutta 1977. Anthropological Survey of India.
- Danda, A. K. [edit.] Tribal Situation in Northeast Surguja. Anthropological Survey of India, Calcutta 1977
- Dubey, S.C. Indian Society (Also available in Hindi) NBT, Delhi
- F. Haimendorf Tribes in India, OUP
- Govinda, R. Who Goes To School? OUP, New Delhi, 2010
- Govt. of India Education policy documents and Commission Reports (Mudaliar Commission, Kothari Commission, National Commission on Teachers, Yashpal Commission, National Policy on Education 1965, 1988 & 1992, NCF 2005 etc.)
- Jha, P Withering commitments and Weakening Progress, State and Education in the Era of Neo liberal reforms, EPW, Aug 2005
- Naik, JP & Nurullah, S A Students' History of Education in India, Macmillan (available in Hindi)
- Nambissan, G. Exclusion and Discrimination in Schools: Experiences of Dalit Children, UNICEF, 2009
- NCERT Position Paper of Focus Group on Education of SC and STs, NCERT, New Delhi
- NCERT Sociology, (Text books for class XI and XII) NCERT, New Delhi
- Russel&Hiralal Tribes and Castes of CP & Berar
- Thorat, S. Dalits in India, 2009
- Veerbhadranaika, P. et al 'The Education Question' from the Perspective of Adivasis: Conditions, Policies and Structures, NIAS, Bangalore 2011
- World Bank Poverty and Social Exclusion in India, World Bank, 2011

#### Films & Documentaries

1. ShyamBenegal, Making of the Constitution (12 parts)
2. ShyamBenegal, Bharat EkKhoj (relevant parts on National movement)
3. India Untouched.
4. Buddha Weeps at Jadugoda

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**COURSE P1AP: UNDERSTANDING THE DISCIPLINE—PHYSICAL SCIENCE**

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**COURSE OUTCOMES:**

**MARKS: 50 | CREDITS: 2 | 3 Hrs./wk**

To facilitate the B.Ed. First semester students to be able to:

- CO 1. Explain the nature of science and its structure as a discipline and area of knowledge
- CO 2. Trace the nature of science education and its changing nature across time
- CO 3. Critically analyse the epistemological relation of science with other disciplines and with the society
- CO 4. Elaborate and frame various aims of teaching Physical Science in schools of modern India
- CO 5. Identify & include objectives of teaching Physical Science to meet existing challenges in Indian context
- CO 6. Compare the processes of instruction, teaching and learning in the context of science
- CO 7. Identify the course of teaching paradigms from content centered to learner centered approaches
- CO 8. Identify and incorporate the unifying concepts of Physical Science in the context of classroom teaching
- CO 9. Integrate the understanding of content knowledge of Physical science with pedagogy and technology

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**UNIT I: NATURE OF SCIENCE & PHYSICAL SCIENCE**

- Nature of science: Product and process nature, Interdisciplinary nature of Science
- Epistemological differences and Relation among Science, Social Science and Humanities
- Structure of knowledge of science: Fact, concept, principle, theory and law; assumption and hypothesis; generalisations;

**UNIT II: PHYSICAL SCIENCE AS A SCHOOL SUBJECT**

- Physical Science as a Discipline and as a School Subject: meaning and major elements
- Rationale of placing Physical Science in School Curriculum
- Broad aims of teaching Physical science in schools at different levels
- Specific challenges or Goals of teaching Physical Science in the context of modern Indian Society (including need for Scientific literacy, aptitude, scientific communication, democratic values, etc.)

**UNIT III: SCIENCE LEARNING AND TEACHING**

- Meaning of teaching, instruction, learning
- Science learning as 'given' and 'constructed'
- Paradigm shifts in teaching science across time
- Relating Science, Technology, Society and learners' real life

**UNIT IV: KNOWLEDGE STRUCTURE OF PHYSICAL SCIENCE**

- Revisiting the big ideas or Unifying concepts of physical science: system, order and organization, evidence, model and explanation, change, constancy and measurement, scale, form and function, evolution and equilibrium, causality
  - Concept of Matter, energy, force, motion
  - Knowledge of content, pedagogical content and technology and implications of TPCK in teaching physical science
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**COURSE WORK/FIELD ENGAGEMENT/PRACTICUM:**

- Critical Study of aims of teaching science in school curricula of various nations/states/boards for comparative analysis

- Analysis of content areas and framing objectives for promotion of Scientific literacy, aptitude, scientific communication, democratic values, and for eradicating superstitions and myths
- Analysis of content to find scope of relating Science, Technology, Society and learners' real life
- Identification of unifying concepts in any theme of physical science

**MODE OF TRANSACTION:** Lectures, Video clips, Discussion, Small group activity/projects, Demonstration, Workshop, Interaction with resource persons in the field, Assignment, Collaborative readings on identified topics, through online learning management systems (blended mode) if required

**Suggested Readings:**

- Abell, Sandra K. & Lederman, Norman G. (2007) Handbook of Research on Science Education, Volume 1, Psychology Press,
- Angela Di Michele Lalor (2016) Ensuring High-Quality Curriculum: How to Design, Revise, or Adopt Curriculum Aligned to Student Success, Alexandria: Virginia: ASCD,
- Braund, Martin. (2012). Performing Science: Teaching physics, chemistry and biology through drama..
- Das, R.C. (2007) *Science Teaching in Schools*. New Delhi: Sterling Publishers Private Limited.
- Department of Gender Studies, NCERT () Analysis of the Textbooks of Assam, Bihar, Chhattisgarh, Gujarat, Haryana, Himachal Pradesh, Odisha, Maharashtra, Manipur and Rajasthan: An Overall Report
- Driver, R., Squires, A., Rush worth, P. and Wood- Robinson, V. (2006) Making Sense of Secondary Science: Research into Children's Ideas, London: Rutledge Palmer.
- Eilam, B. & Gilbert, John K. (Eds.) (2014) Science Teachers' Use of Visual Representations. Switzerland : Springer International Publishing
- Gibbs, K. (2011) The New Resourceful Physics Teacher: Creative Ideas and Experiments for Physics Teaching, Schoolphysics Publications
- Gupta, A. (1978) New UNESCO source book for science teaching . New Delhi: Oxford & IBH Publishing house. <http://www.arvindguptatoys.com/arvindgupta/unesco-source-new.pdf>
- Heywood, D. & Parker, J. (2010) The Pedagogy of Physical Science (Contemporary Trends and Issues in Science Education) Springer
- Kalra, R. M. (2008) Science Education for Teacher Trainees and In-service Teachers: Learning to Learn Modern Science, New Delhi: PHI Learning Pvt. Ltd.,
- Kerkhoven, A.H., Russo,P. Land-Zandstra, A.M., Saxena, A and Rodenburg, F. J. (2016) Gender Stereotypes in Science Education Resources: A Visual Content Analysis. PLoS One. 11(11). doi: 10.1371/journal.pone.0165037
- Lagu, R. G. (Eds.) (2007) Experiments are fun, Oxford University Press.
- Lagu, R. G. (Eds.) (2009) How and why in Science : Senior series Book 2, Oxford University Press
- [Lalor](#), Angela Di, M. (2016) Ensuring High-Quality Curriculum: How to Design, Revise, or Adopt Curriculum Aligned to Student Success, Alexandria: Virginia: ASCD,
- Lattery, M. J. (2016) Deep Learning in Introductory Physics: Exploratory Studies of Model-Based Reasoning (Science & Engineering Education Sources), Charlotte NC: Information Age Publishing
- Liu, X. (2010) Essentials of Science Classroom Assessment: SAGE Publications, 2010
- Mangal, S. K. (2019) *Pedagogy of Physical science*, New Delhi: Arya Book Depot
- Mishra, K. K. (2004) Vigyan: Maanav kii Yashogatha, the Hindi version of Science:" A Human Saga" , Mumbai: HBCSE (TIFR)

- Mishra, K. K. (2006) Lok-Vigyan: Samakaleen Shaikshik Rachanayen, HBCSE (TIFR), 152pp.
- Mohan, Radha, (2019) *Innovative Science Teaching: For Physical Science Teachers*. New Delhi: PHI Learning Pvt. Ltd.
- National Council of Educational Research & Training (2013), *Pedagogy of Science: Physical science (Part-I & II) – Textbook of B.Ed.*, New Delhi: NCERT, [http://www.ncert.nic.in/departments/nie/desm/publication/pdf/phy\\_sci\\_partI.pdf](http://www.ncert.nic.in/departments/nie/desm/publication/pdf/phy_sci_partI.pdf)
- National Council of Educational Research & Training NCERT (2006) *National Curriculum Framework : 2005*, New Delhi: NCERT
- National Council of Educational Research & Training NCERT, (2005). *Position Paper: National Focus Group on Teaching Science*, NCERT: New Delhi
- National Council of Educational Research & Training NCERT, (2006) *Position Paper: National Focus Group on Exam Reforms*, New Delhi: NCERT. [http://www.ncert.nic.in/new\\_ncert/ncert/rightside/links/pdf/focus\\_group/examination\\_reforms.pdf](http://www.ncert.nic.in/new_ncert/ncert/rightside/links/pdf/focus_group/examination_reforms.pdf)
- National Council of Educational Research & Training NCERT, (2006) *Position Paper: National Focus Group on Teaching of Science*, New Delhi: NCERT [http://www.ncert.nic.in/new\\_ncert/ncert/rightside/links/pdf/focus\\_group/executive\\_summary.pdf](http://www.ncert.nic.in/new_ncert/ncert/rightside/links/pdf/focus_group/executive_summary.pdf)
- National Research Council. (1997) *Science Teaching Reconsidered: A Handbook*. Washington, DC: The National Academies Press. <https://doi.org/10.17226/5287>
- Neidorf, T. (2019) *Student Misconceptions and Errors in Physics and Mathematics*. Springer Nature ISBN 3030301885, 9783030301880
- Osborne, J. & Dillon, J. (Eds.) (2010). *Good practice in science teaching: What research has to say*, Philadelphia: Open University Press
- Park, Y. (2004) *Teaching and Learning of Physics in Cultural Contexts: Proceedings of the International Conference on Physics Education in Cultural Contexts : Cheongwon, South Korea, 13-17 August 2001*, Korea: World Scientific
- Parkinson, J. (2002). Chapter-1. *Learning to Become an Effective Science Teacher*. In *Reflective Teaching of Science 11-18: Continuum Studies in Reflective Practice and Theory*. New York: Continuum. pp. 1-12.
- Rogers, B. (2018) *The Big Ideas in Physics and How to Teach Them: Teaching Physics 11–18*. Routledge,
- Ronen, I. (2018) *Misconceptions in Science Education: Help Me Understand*, Cambridge Scholars Publishing,
- *Science curriculum resource handbook: a practical guide for K-12 science*, Kraus International Publications, 1992 NCE curriculum
- Sharma, R.C. (2013). *Modern Science Teaching*. Dhanpat Rai Publishing Company Ltd. New Delhi, pp.168-250
- Sunal, D.W. (2019) *Physics Teaching and Learning: Challenging the Paradigm*, Charlotte NC: Information Age Publishing
- Tobin, K. (Ed.). (1993). *The Practice of Constructivism Science Education*. Hillsdale, New Jersey: Lawrence Erlbaum Associates, Inc.
- Trostli, R. (1995) *Physics is Fun: A Sourcebook for Teachers Spiral-bound – Import*, Octavo Editions
- Turner, T. & Dimatea, W. (1998) *Learning to Teach Science in Secondary School*, Routledge Publication, USA.
- UNESCO (1966) *Source Book for Science Teaching*: UNESCO: Paris.
- UNESCO (2015) *UNESCO SCIENCE REPORT: Towards 2030*, Paris: UNESCO Publishing
- UNESCO (December 2010) *Guidelines for textbook review and analysis from a gender perspective*. Geneva : UNESCO Publishing. <https://docs.iiep.unesco.org/peic/2748.pdf>

- UNESCO Institute for Statistics. (2015) Women in Science.. Available: <http://www.uis.unesco.org/ScienceTechnology/Documents/fs34-2015-women%20in%20science-en.pdf>
- Vaidya N. (1999) Science Teaching for the 21st Century, Deep and Deep Publishers.
- Wellington, J. & Osborne, J. (2001) Language and literacy in science education. Philadelphia: Open University Press
- Wellington, J. (2004) Teaching and Learning Secondary Science – Contemporary Issues and Practical Approaches, London: Routledge
- Yadav, M.S. (2002) Teaching of Science, Amol Publications.
- <http://unesdoc.unesco.org/images/0019/001914/191425e.pdf>
- [http://cbseacademic.nic.in/web\\_material/CurriculumMain20/SrSecondary/Physics.pdf](http://cbseacademic.nic.in/web_material/CurriculumMain20/SrSecondary/Physics.pdf)
- <https://www.youtube.com/watch?v=wcf0pZzUjEs>
- <https://www.youtube.com/watch?v=rLJ16LQ2t5c>
- <https://www.youtube.com/watch?v=MYuh5yErdfA>
- <https://www.youtube.com/watch?v=FbaXQ8u6IP8>[http://phys205.physics.tamu.edu/WebPage/Documents/Article\\_UsingInquiry.pdf](http://phys205.physics.tamu.edu/WebPage/Documents/Article_UsingInquiry.pdf)
- [http://sbcf.fr/docs/The\\_Teaching\\_of\\_Science-Ch\\_7\\_march2011-Bybee.pdf](http://sbcf.fr/docs/The_Teaching_of_Science-Ch_7_march2011-Bybee.pdf)
- <http://unesdoc.unesco.org/images/0019/001914/191425e.pdf>
- <https://www.youtube.com/watch?v=5gdSZorjKSQ>
- <https://www.youtube.com/watch?v=4-1JvVCWtIg>
- <https://www.youtube.com/watch?v=BnlCQ45f7KM>
- <http://www.wisd.org/users/0001/docs/GVC/5E%20Model.pdf>

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**COURSE PIAS: UNDERSTANDING THE DISCIPLINE–SOCIAL SCIENCE**

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**COURSE OUTCOMES**

**MARKS: 50 | CREDITS: 2 | 3 Hrs./wk**

B. Ed. first semester students will be able to:

CO: understand the meaning and philosophy of social science

CO: establish History, Geography, Political Science, Economics etc. as social science

CO: analyse the critical role of teaching social science in schools

CO: differentiate social science facts, concepts, generalization

CO: devise means to address negative perception about social science

CO: use local resources for teaching social science

**UNIT-I UNDERSTANDING SOCIAL SCIENCES**

- Meaning and concept of Social Science and Social Studies
- Scope of Social Science
- Nature of Social Science
- The Philosophy of Social Science (problems)

**UNIT-II SOCIAL SCIENCE IN THE SCHOOL**

- The Discipline of Social Science: History, Geography, Political Science and Economics etc
- Teaching of Social Science in the school (aims):  
Development of Critical Enquiry, Critical Thinking and Problem Solving (The Reflective Citizen and Problem Solving- social, historical, environmental, economical, political)

**UNIT-III DEVELOPING AND APPLYING CONCEPTS, GENERALISATION AND HYPOTHESIS**

- Concepts in the social science
- Methods of teaching concepts in Social Science
- Facts and generalizations in the social science curriculum
- Approaches in teaching generalization in social science

**UNIT-IV ISSUES AND CHALLENGES IN SOCIAL SCIENCE TEACHING**

- Prevailing perception and the issues to be addressed
- Use of Local resources/Community Knowledge and Learners' own Experiences
- National and Global Concerns and the needs to balance between them
- Multicultural perspective (Diversity, Gender and Special Needs)

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**PRACTICUM-**

- Students will critically analyze the current social studies book at secondary level.
- Field Trip (Historical Places)
- Social Responsibilities- visit to post office, hospital, school, bus stand etc. to understand how the functioning of the institution is organized

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**MODE OF TRANSACTION:** lectures, discussion, small group activity

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**Suggested Reading:**

WWW- As per required websites for concern topic.

U-Tube Channel/ Moocs/OER/E-Pathsala- As per topic/points

- Batra, P. (2010). *Social Science Learning in Schools: Perspective and Challenges*. Sage Publications
- Beal, C. and Bolick, C. M. (2013). *Teaching Social Studies in Middle and Secondary Schools*. Pearson Education, Inc.
- Bining, A. C. and Bining, D. H. (1941): *Teaching of Social Studies in Secondary School*, McGraw Hill Book co.
- Farris, P. J. (2007). *Elementary and Middle School Social Studies: An Interdisciplinary, Multicultural Approach*. Waveland Press, Inc.
- Forrester, I. F. (1956). *Introduction Social Studies*, Orient Longman, Bombay.
- George, A., M. & Madan, A. (2009). *Teaching Social Science in Schools*. Sage Publications
- Hollis, M. (2011). *The Philosophy Social Science: An introduction*. Cambridge University Press
- Hunt, L. E. Maurice, P. & Metcalf, (1955). *Teaching High School Social Studies*. Harper & Row
- Jarvie, I. C. and Bonilla, J. Z. (eds). (2011). *The SAGE Handbook of The Philosophy of Social Sciences*. Sage Publications Ltd
- Kochar, S. K. (2000). *The Teaching of Social Studies*, Sterling Publishers, Delhi.
- Martorella, P. H. (1994). *Social Studies for Elementary School Children: Developing Young Citizens*. Macmillan College Publishing Company.
- Mayor, F. (1992). *The role of the Social Sciences in a changing Europe*. *International S Science Journal* (vol.44)
- NCERT (2005): *National Curriculum Frame work 2005*, NCERT, New Delhi.
- Rosenberg, A. (2016). *Philosophy of Social Science*. Westview Press
- Singer, A. J. (2003) *Social Studies for Secondary Schools: Teaching to Learn, Learning to Teach*. Lawrence Erlbaum Associates, Inc

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**COURSE P1BB : UNDERSTANDING THE DISCIPLINE–BIOLOGY**

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**COURSE OBJECTIVES**

**MARKS: 50 | CREDITS: 2 | 3Hrs./wk**

Course the prospective **Students of B.Ed First Semester will be able to**

- CO-Appreciate that biological science is a dynamic and expanding body of knowledge.
  - CO- Identify and relate everyday experiences with learning biological science; integrate the biological science knowledge with other school subjects.
  - CO-Recognize the different professions and scope of biology.
  - CO-Organize the contents of biological science with respect to its branches, process skills, knowledge organization and other critical issues.
  - CO- Examine different pedagogical issues in learning biological science.
  - CO- Develop ability to use biological science concepts in daily life
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**UNIT I: UNDERSTANDING BIOLOGY**

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- History of biological science; (brief), Pedagogical shift from science as fixed body of knowledge to process of constructing knowledge.
- What is Biology? Biology as a domain of enquiry, dynamic body of knowledge and as a process of constructing knowledge; understanding scientific method - observation, enquiry, hypothesis, experimentation, data collection, generalization.
- \* Contributions of eminent scientist in biology

**UNIT2: BRANCHES OF BIOLOGICAL SCIENCES AND THEIR SCOPE**

- Why biology? ; Biological Science for environment, health, peace and development.(importance of Biology in daily life)
- Branches/professions in the area of biological sciences
- \* Biology as a subject satisfying various needs:(Vocational needs, social needs, Educational needs and future needs)

**UNIT 3: BIOLOGY THE SCIENCE OF LIFE**

- Principles of biology
- Foundations of modern biology, cell theory, evolution, genetics, homeostasis, etc.
- \* Path tracking landmarks in biology

**UNIT 4: BIOLOGY AND SOCIETY**

- Place of biology in school curriculum
  - \* Interdependence of science, technology and society
  - Integrating academic disciplines for better conservation practice/ correlation of Biology with other subjects.
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**MODE OF TRANSACTION:** Lecture, Discussion, power point presentations, field visits

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**PRACTICUM**

- Illustration of a biological process using scientific method.
  - Preparation of a scrap book on landmarks in biology.
  - Collage preparation through collection of Newspaper cuttings/clippings, Journal Articles related to Biology. (\* topics will be dealt under practicum)
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**Suggested readings:**

- WWW- As per required websites for concern topic.
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- U-Tube Channel/ Moocs/OER/E-Pathsala- As per topic/points

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- Bremmer, J. Teaching Biology  
Carin, R.A. Teaching Science through discovery  
Green, T.L. Teaching of Biology in Tropical Secondary Schools  
Miller, D.F. and Blaydes, G.W. Methods and Materials for Teaching Biological Sciences  
UNESCO New Trends in Biology Teaching  
Mangal, S.K. Teaching of Biological Sciences, Agra book Depot.  
Sounders The teaching of Gen. Science in Tropical Secondary Press London School, Oxford  
Kulshrestha, S. P JeevVigyanShikshan ,Lyal Book Depot, Meerut  
Rawat, D. S. Vigyanshikshan, Vinod PustakMandir, Agra.  
UNESCO Essential of learning in Environment.  
NCERT, (2006). *National Curriculum Framework- 2005*, NCERT. New Delhi.  
NCERT, (2005). *'Focus Group Report' Teaching of Science* NCERT New Delhi.

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**COURSE P1BM : UNDERSTANDING THE DISCIPLINE—MATHEMATICS**

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**COURSE OBJECTIVES**

**MARKS: 50 | CREDITS: 2 | 3 Hrs./wk**

The B.Ed. first semester students will be facilitated to be able to:

- CO 1. Explain the nature of mathematics in a holistic way
  - CO 2. Elaborate the methods of validation of mathematical knowledge
  - CO 3. Evaluate the structure and principles of the Curriculum of mathematics
  - CO 4. Reflect upon various aims of teaching mathematics as a compulsory subject in local as well as global context
  - CO 5. Recognise the values that may be developed in a given content of mathematics
  - CO 6. Demonstrate the characteristics and the understanding of basic Mathematics contents at secondary level
- 

**UNIT- I- STRUCTURE OF KNOWLEDGE OF MATHEMATICS**

- Nature of Mathematics as discipline of study as a body of knowledge, thinking process and broader contexts
- Pure and applied mathematics
- Mathematics knowledge validation: hypothesis, conjectures, counter examples, proof, generalisations, fallacies

**UNIT-II- MATHEMATICS IN SCHOOL CURRICULLUM**

- Place of mathematics as a compulsory part in school curriculum
- Aims of teaching mathematics in School Curriculum and designing learning outcomes
- Quality of effective mathematics teacher

**UNIT- III- CURRICULUM OF MATHEMATICS**

- Mathematics curriculum: its concept and principles
- Integrating mathematics with other subjects
- Values in Mathematics

**UNIT- IV- UNDERSTANDING THE CONTENT**

- Revisiting the concerns and concepts in the fundamental areas of mathematics: Arithmetic, Algebra, Trigonometry , Geometry and Mensuration
  - Zero, infinity, number system, decimals
- 

**PRACTIUM:**

- 1- Generating learning outcomes from a given content of mathematics
  - 2- Presentation on ancient Indian mathematics and mathematicians
  - 3- Analysis of curriculum to integrate numeric and mathematical abilities in other subject areas
  - 4- Identifying values and scope of value development in a given content of mathematics
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**Suggested Reading:**

*Web resources as required*

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|------------------|---|
| Kulsheshta, A.K. | <i>Teaching of Mathematics</i> , Meerut. R L Book Depot           |
| Gakhar, S.C.     | <i>Teaching of Mathematics</i> , Haryana. N M Publication Panipat |
| Bhatnagar, A.B.  | <i>Teaching of Mathematics</i> , Meerut. R L Book Depot           |
| Negi, J.S.       | <i>Teaching of Mathematics</i> , Agra Vinod Pustak Mandhir        |
| Shaw & Wright    | <i>Discovering Mathematics</i> ,                                  |
| V.N. Agrawal     | <i>The Teaching of Mathematics in India</i> ,                     |
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Chandha, B.N.	<i>The teaching of Mathematics</i>
Young, I.W.A.	<i>Teaching of Mathematics</i>
Kuppuswami Aiyangar, N.K.	<i>Teaching of Mathematics in the New Education</i>
Sidu, K.S.	<i>The Teaching of Mathematics</i>
NCERT, (2005).	<i>National Curriculum Framework- 2005, New Delhi.</i>
NCERT, (2005).	<i>'Focus Group Report' Teaching of Science, New Delhi</i>
NCERT, (2008).	<i>Mathematics textbook for class 8<sup>th</sup>. New Delhi</i>
NCERT, (2006).	<i>Mathematics textbook for class 9<sup>th</sup>. New Delhi.</i>
NCERT, (2006).	<i>Mathematics textbook for class 10<sup>th</sup>. New Delhi</i>
SCERT,	<i>Mathematics textbook for class 8<sup>th</sup>. Raipur, C.G.</i>
SCERT,	<i>Mathematics textbook for class 9<sup>th</sup>. Raipur, C.G.</i>
SCERT	<i>Mathematics textbook for class 10<sup>th</sup>. Raipur, C.G.</i>

WWW- As per required websites for concern topic.

YouTube Channel/ Moocs/OER/E-Pathsala- As per topic/points

Books- As per standard of content.

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**COURSE P1BE : UNDERSTANDING THE DISCIPLINE –ENGLISH**

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**COURSE OBJECTIVES**

**MARKS: 50 | CREDITS: 2 | 3 Hrs./wk**

After completing the course B.Ed. First semester students will be able to:

- CO-explain English language as a discipline
  - CO-evaluate the role of disciplinary knowledge in school curriculum
  - CO-examine the historical development of English language as a discipline
  - CO- critique on theories on language acquisition
  - CO- differentiate between language learning and language acquisition
  - CO-analyse the challenges of English language at school level
- 

**UNIT – I : GENESIS OF ENGLISH AND ENGLISH LANGUAGE AS A DISCIPLINE**

- Understanding theories of language origin
- Genesis of English language origin
- Concept of Discipline, History of English as a Discipline

**UNIT – II : ENGLISH IN PRE AND POST INDEPENDENT INDIA**

- Introduction of English in Pre-Independent India: Macaulay Minute; and Socio, Political and Intellectual Context of English
- English language in post-independent India – policy perspective (Mudaliar Commission 1952, Kothari Commission – 1964-66, and NCF 2005)

**UNIT – III : LANGUAGE LEARNING AND ACQUISITION**

- Language learning and language acquisition: concept and difference
- Theories of language acquisition: Behaviouristic, Nativist, Cognitive and Social Interactionist perspective

**UNIT – IV : LANGUAGE IN INDIAN SCHOOLS**

- Language of home and language of School
  - Language as a school subject and language as a medium of instruction
  - Relation of language with other subjects
- 

**COURSE WORK/FIELD ENGAGEMENT/PRACTICUM:**

- Preparing list of English words having foreign and Indian origin
  - Observation of process of language learning and acquisition of a child
  - Critical analysis and preparing a report on recommendations of committees and commissions on English language in India (pre and post independence)
  - Reflecting how English language is related with other subjects
- 

**MODE OF TRANSACTION:**

- Discussion/lecture
- Group presentation/peer group discussion

**Suggested Readings:**

1. Alam, Z. Q. (1999) English Language Teaching In India Problems And Issues, , Atlantic Publisher and Distributor, New Delhi
2. Brumfit, C. J. & Johnson, K. (1987)The communicative Approach to Language Teaching, English Language Book Society/ Oxford University Press.
3. Bygate, M. (1987) Speaking, Oxford University Press, Oxford.
4. Brown, G. and Yule (1983) Teaching the Spoken Language, Cambridge University Press, Cambridge.
5. Chaturvedi, M.C.(1995) Position of language in school curriculum in India, New Delhi, NCERT.
6. Gupta, P.K. & et.al (2005) Teaching of English, R. Lal, Book Depot, Merrut.
7. Hughes, Arthur(1997) Testing for language Teachers, Cambridge Handbooks for Language Teachers, Cambridge University Press.
8. Hornby, A. S. A guide to pattern and usage in English, oxford university press.
9. Jain, R. K. Essential of English teaching, Renulal Book Depot Meerut.
10. Kohli, A.L. & Sharma L.M. (2002) Techniques of Teaching English (in the New Millannium), DhanpatRaiPublicating Co. (P) Ltd., New Delhi.
11. NCERT (2005)National Curriculum Framework, National Council of Educational and Research and Training, New Delhi.
12. NCERT (2006) Position Paper, National Focus Group Discussion on Teaching of Indian Languages, National Council of Educational and Research and Training, New Delhi.
13. NCERT (2012) Teaching of English at Primary Level in Government Schools, National Council of Educational and Research and Training, New Delhi.
14. Vijayalakshi, M &Manchi, S.B. (2014) A Brief History of English language Teaching in India, International Journal of Scientific and Research Publications, Volume 4, Issue 5, May 2014 1 ISSN 2250-3153

**COURSE P1BH: UNDERSTANDING THE DISCIPLINE –HINDI**

उद्देश्य:बीएडप्रथमसेमेस्टरकेविद्यार्थी

- हिन्दीभाषाकीऐतिहासिकपृष्ठभूमिकीविवेचनाकरेंगे
- हिन्दीभाषासंकायकेरूपमेंमूल्यांकनकरेंगे
- हिन्दीभाषा की संरचनात्मकविशेषताओंकीव्याख्याकरेंगे
- हिन्दीभाषाकीप्रकृति एवंविशेषताएँवर्णनकरेंगे
- शिक्षानीतियोंकामूल्यांकनकरेंगे
- विद्यालयस्तरपरहिन्दीभाषाशिक्षणकेउद्देश्योंकानिर्धारणकरेंगे

**ड। त्त्रैरु 50 द्य बन्वपैरु 2 द्य 3 भ्तेण्डु**

**इकाई ५ हिन्दीभाषाकीसंकल्पना**

- हिन्दीभाषाकीऐतिहासिकपृष्ठभूमि
- हिन्दीभाषासंकायकेरूप
- हिन्दीसाहित्यकाकालविभाजनसंक्षिप्तइतिहासएवंरचनाएँ

**इकाई ६ हिन्दीभाषा की संरचना**

- हिन्दीभाषा की संरचनात्मकविशेषताएँ
- हिन्दीभाषाकेघटक
- हिन्दीभाषाकीप्रकृति एवंविशेषताएँ
- विद्यालयमेंहिन्दीविषयकेरूपमेंमहत्व

**इकाई ७ हिन्दीसाहित्यकासंक्षिप्तइतिहास**

स्वतंत्रतापूर्वभाषाशिक्षणकासंक्षिप्तइतिहास

कोठारीआयोगमेंभाषाशिक्षण

नईशिक्षानीति 1986 मेंभाषाशिक्षण

राष्ट्रीयशिक्षानीति 2020 मेंभाषाशिक्षण

**इकाई ८ हिन्दीभाषाशिक्षणमेंलक्ष्य, अभिप्राय एवंउद्देश्य**

- हिन्दीभाषाशिक्षणमेंउद्देश्योंकीआवश्यकताएवंमहत्व
- प्राथमिकस्तरपरहिन्दीभाषाशिक्षणकेउद्देश्य
- माध्यमिकस्तरपरहिन्दीभाषाशिक्षणकेउद्देश्य
- उच्चमाध्यमिकस्तरपरहिन्दीभाषाशिक्षणकेउद्देश्य

**बन्वैँ व्ज्ञाध्पस्व म्छळ ळम्डम्छज्च ळज्बुडरु**

क} पाठ्य वस्तुमें से किसी एकपरनिबंध

ख} हिन्दीभाषामेंएकपाठग्रहण

ग} सृजनात्मक, सौन्दर्यात्मक, विश्लेषणात्मक, अभिवृत्तात्मक, उद्देश्य ँकानिर्माण

घ} हिन्दीभाषामेंएकपाठपदरचना

**डक्क २ ज् ळैँ ळज्बुडरु** संदर्भानुसारउपयुक्तशिक्षणविधिकप्रयोग

**नहहमेजमक त्मंकपदहेधसन्दर्भसूची:-**

- भाई योगेन्द्रजीत, हिन्दीभाषाशिक्षण, विनोदपुस्तकमंदिरआगरा



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**COURSE O111: VALUE EDUCATION**

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**COURSE OBJECTIVES**

**MARKS: 50 | CREDITS: 2 | 3 Hrs./wk**

B.Ed. First Semester students will be able to:

- CO-explain the nature, and the concept of values.
  - CO-classify values under different types.
  - CO-appreciate the educational values like democratic, secular, and socialist.
  - CO-apply different teaching strategies for value education
- 

**UNIT I: UNDERSTANDING VALUE**

- Value: concept and classification
- Morality and value – difference
- Value Education: concept and need.

**UNIT II: VIEWS OF VALUE DEVELOPMENT**

- Psychological views on development of morality and personal values reference to Kohlberg and Freud; determinants of personal value
- Views of Vivekananda in inculcating values and developing Man of Character

**UNIT III: DEVELOPING VALUES**

- Role of school, family, society and mass media on development and erosion of values.
- Role of syllabi of different subjects and co-curricular activities in inculcating values

**UNIT IV: METHODS**

- Teaching Strategies for Value Education: Storytelling, Role-playing, and Discussion.
  - Techniques for measurement of values: Rating Scales, Questionnaire, Observation, some standardized tools for measurement of values.
- 

**PRACTICUM**

- Designing activities to inculcate various kinds of values
  - Story telling & discussion
  - Planning for a Cleanliness programme: self, class-room, campus.
  - Preparation of a measure of value: Rating Scale
- 

**MODE OF TRANSACTION:**

Lecture, Discussion, field work, Observation & rating.

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**Suggested Readings/Learning References:**

Harsh, R.N., Miller, J.P., & Eielding, G.B. Model of Moral Education: An Appraisal, LongMan: New York

Passi B.K., & Singh. Value Education, National Psychological Corporation, Agra.

Rooths, I.E. Mearill Value and Teaching, McGraw-Hill, co.

Rockeach, M. The nature of human values collier McMillan Publishers, London.

Frankel, J.R. How to teach value in analytical approach, Prentice Hall, New Jersey

Pandey, Ramshukh Value Education, R.Lall Book, Meerut.

Fraenkel, J.R. How to teach about values.

Gupta, N.L. Value Education

Kishore, L. Value oriented Education.

Rath, H. & Siomon Values and teaching.

Ruhela, S.P. Human values and Education

www- As per required websites for concern topic.

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You-Tube Channel/ Moocs/OER/E-Pathsala- As per topic/point

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**COURSE O112: PHYSICAL AND HEALTH EDUCATION**

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**COURSEOBJECTIVES**

**MARKS: 50 | CREDITS: 2 | 3 Hrs./wk**

B.Ed first semester students will be able to:-

- CO 1 Analyse the concept and role of physical and health education
- CO 2 Implement various types of Health Services particularly in schools
- CO 3 Evaluate various issues related to health problems particularly among school children
- CO 4 Create ways for maintaining safety and physical fitness

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**UNIT – I: HEALTH & PHYSICAL EDUCATION**

- Health: its Concept, Dimensions and Determinants.
- Concepts of Physical and Health Education, Health Instruction, Health Supervision
- Aim, objective and Principles of Health Education

**UNIT – II: HEALTH SERVICES IN SCHOOLS**

- Objective of school health service, Role of health education in schools
- Health Service and guidance instruction in personal hygiene and care of skin, Nails, Eye, etc
- Health service, Nutritional service, Health appraisal, Health record, Healthful school environment.

**UNIT – III: DISEASES AND SAFETY ISSUES**

- Communicable and Non Communicable Diseases
- Personal and Environmental Hygiene for schools and society.
- Safety in Daily Life: Common Injuries and their Management.
- First Aid kit and Emergency Care services.

**UNIT – IV: HEALTH AND LIFESTYLE**

- Modern Life Style and problems related to food habits, sleeping habits, physical activity, and cyber activity.
  - Issues of Malnutrition, Adulteration in food, and Environmental pollution.
  - Management of lifestyle and Prevention of disease and disorders.
- 

**COURSE WORK/FIELD ENGAGEMENT/PRACTICUM:**

- Study and group presentation on the health statistics of the school going children of India
  - Study of the school environment in the perspective of health and hygiene
  - Assessing awareness of personal safety/hygiene among students
  - Quiz/Games/Aids on health issues
  - Preparing journal on lifestyle diseases from news paper/online news reports
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**MODE OF TRANSACTION:**

Lecture, Discussion, Group presentation, audio-visuals, poster presentation, community work and field experience.

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**Suggested Readings:**

Rama V Baru (2008) School Health Services in India: The Social and Economic Contexts SAGE Publications India,

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Victor R. Preedy Handbook of Growth & Growth Monitoring in Health & Disease, Springer Science & Business Media

Laurette Dube, Antoine Bechara, Alain Dagher, Adam Drewnowski, Jordan LeBel, Philip James, Rickey Y. Yada, (2010) Obesity Prevention: The Role of Brain and Society on Individual Behavior, Academic Press,

MeetaLall (n.d.) The Power of Nutrition For Our Times, Rupa Publications - Health & Fitness

Usha S Nayar (2012) Child and Adolescent Mental Health, SAGE Publications India

N. Taylor, F. Quinn, M. Littlelyke& Richard K. Coll (2012) Health Education in Context: An International Perspective on Health Education in Schools and Local Communities, Springer Science & Business Media,

Anil Kumar (2005) Health Education, Mittal Publications,

M. Kumar & R. Kumar, (2004) Guide to Prevention of Lifestyle Diseases, Deep and Deep Publications,

IIPS (2011) Key Indicators for India from NFHS-3 <http://www.rchiips.org/nfhs/pdf/India.pdf>

MSPI, GOI (2012) CHILDREN IN INDIA 2012 - A Statistical Appraisal at [http://mospi.nic.in/Mospi\\_New/upload/Children\\_in\\_India\\_2012.pdf](http://mospi.nic.in/Mospi_New/upload/Children_in_India_2012.pdf)

UNICEF (2013) Statistics at [http://www.unicef.org/infobycountry/india\\_statistics.html](http://www.unicef.org/infobycountry/india_statistics.html)

UNICEF (2011) The situation of children in India at

[http://unicef.in/Uploads/Publications/Resources/pub\\_doc36.pdf](http://unicef.in/Uploads/Publications/Resources/pub_doc36.pdf)

- WWW- As per required websites for concern topic.
- U-Tube Channel/ Moocs/OER/E-Pathsala- As per topic/points
- Books- As per standard of content.

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## **COURSE O113: GUIDANCE AND COUNSELLING**

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### **COURSE OBJECTIVES**

**MARKS: 50 | CREDITS: 2 | 3 Hrs./wk**

The B.Ed. First semester students will be able to:

- CO-explain theoretical background of guidance and counseling.
  - CO -implements the concept of guidance and counseling.
  - CO -draw the significance of vocational guidance.
  - CO -analyse the counseling and its process.
  - CO -implements the therapeutic techniques helpful in student's guidance & counseling.
- 

### **UNIT I: CONCEPT AND NEED OF GUIDANCE & COUNSELING**

- Guidance : Concept & Needs
- Types of Guidance
- Counseling: Concept & Needs; difference from guidance
- Types of Counseling
- Principles of Guidance and Counseling

### **UNIT II: TOOLS AND APPROACHES**

- Tools for collecting information for Guidance and Counseling: records, rating scale and tests—their characteristics and effective use
- Approaches in Counseling; Psycho-analytical, Client-centered, and Behavioral.

### **UNIT III: GUIDANCE & COUNSELING IN EDUCATIONAL INSTITUTIONS.**

- Nature and requirements of Guidance and counseling services in Elementary Schools and Secondary Schools; dealing with adjustment problems in school
- Nature and requirements of Guidance and counseling services in College & University
- Brief Introduction of – Job –Analysis, Job –description & Job –Specification

### **UNIT IV: GUIDANCE AND COUNSELING PROCESSES**

- Brief introduction of Guidance Programmes: Orientation services, Information services, Appraisal service, Remedial service, follow-up Service
  - Counseling Process: Preparatory Phase, Beginning Phase, Middle Phase & Terminal Phase; Role of a Counsellor
- 

### **COURSE WORK/FIELD ENGAGEMENT/PRACTICUM:**

- School visit: Assessment of Guidance need & providing guidance related to subject selection in further classes Or for job selection in future. Or
  - Planning for a counseling process for reducing Examination anxiety. Or
  - Study of the guidance and counseling services by various boards and presenting a report.
  - Preparing a tool for collecting information on a given issue
- 

**MODE OF TRANSACTION:** Lecture, Discussion, Demonstration, School visit.

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### **Suggested Readings:**

- Chauhan, S.S. (1982). Principals and techniques of Guidance, Vikas Publication house Private Ltd., New Delhi.
- Crow & Crow (1994). Introduction to Guidance, Uresin Publication House Private Ltd., New Delhi.
- Donal, Super (1965). Counseling in the Secondary School, Harper, New Delhi.
-

- Kothar, S. K. (1983). Guidance & Counseling in College and Universities, Starling Publisher Green Park, New Delhi.
- Jaiswal, S. R. (1987). NirdeshanevamParamarsh, VinodPustakMandir, Agra.
- Verma&Upadhay, (1967).ShaikshikevamVyavshaikNirdeshan, VinodPustakMandir, Agra.
- Oberai, S. C. (5302). Educational; & Vocational Guidance & Counseling, Loyal Book Depot. Meerut.
- DhuveIbdu. (1959). Basic Essentials of Counseling,(1959),(Sterling).
- Cameron N. 1953, Personality Development and Psychopathology, Sifilin.
- Rothenberg E.R. 1968, Medical Dictionary and Health Manual, Signet Meridian Books, Chicago, U.S.A.
- Singh R.S. (1985). Correlates of Anxiety, National Psychological Corporation, Agra.
- Singh R.P. (1981). NaidanikManovigyan, V.PU.Mandir, Agra.
- Talent .N. (1978). Psychology of Adjustment, Nast and.
- Valan.R.W. (1958) . Clinical Psychology, (Macgrahill).
- Kapil .H.K., (1989). ApsamanyaManovigyaan, HarprasadBhargav, KachariGhat, Agra.

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**COURSE O121 :INDIAN SIGN LANGUAGE**

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**COURSE OBJECTIVES**

**MARKS: 50 | CREDITS: 2 | 4 Hrs./wk**

After learning this course the student-teachers will be able to

- Discuss the two manual options with reference to Indian special schools.
  - Discuss the relevant issues like literacy, inclusion and training with reference to manual options.
  - Describe manual options in the light of issues like language, culture and identify.
  - Exhibit beginner level hands on skills in using manual options.
  - Motivate self to learn and practice more skills leading to linguistic adequacy and fluency.
- 

**UNIT I: UNDERSTANDING DEAFNESS IN REAL LIFE CONTEXT**

- Basic Awareness of Paradigms of Deafness (Medical and Social)
- Basic Awareness of Deafness and Communicative Challenges /Concerns
- Basic Awareness on Deafness with Reference to Culture, Language, Identity, Minority Status, Deaf Gain, Literacy and Inclusion

**UNIT II: INTRODUCING ISL**

- Sign language
- Basic Awareness of Difference between ISL and ISS
- Importance of Neural Plasticity and Early Language Opportunities

**UNIT III: BASICS OF ISL**

- Basic signs: Alphabates, numbers,
- Signing names, adjectives,
- Expressing gender, number, person, tense actions
- Framing short expressions of common use in daily life
- Expressing conjunctions, prepositions and framing complex sentences

**UNIT IV: ISL SKILL DEVELOPMENT**

- Eye Contact in expression and reception
  - Natural Signing in Short Common Conversations
  - Natural Signing in Stories/Poems
- 

**COURSE WORK/FIELD ENGAGEMENT/PRACTICUM**

- I. Watching Videos of Individual Sessions and Classroom Teaching of Signing
  - II. Role Play and Dramatization in ISL
  - III. Developing Learning Material for Facilitating Connectivity among Signing, Language and Cognition
  - IV. Recording Self Narrated Stories/ Poems and Writing Reflections
  - V. Interacting with Deaf for Practicing Expansion of Ideas
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**MODE OF TRANSACTION:**lectures and workshop/activities

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**Suggested Readings:**

- *Communication Options and Students with Deafness.* (2010). Rehabilitation Council of India, New Delhi.
  - Heller, R. (1999). *Managing Change.* DK Publishing: New York.
  - ISS Learning Material and Dictionaries
  - Paul, P. V. (2009). *Language and Deafness.* Jones And Bartlett: Boston.
-

- *Teaching Learning ISL Material Developed at* AYJNIHH, Mumbai, SRKV, Coimbatore and NISH, Trivandrum
- Zeshan, U. (2000). *Sign Language in Indo-Pakistan*. John Benjamins Pub. Co, Philadelphia.
- Akamatsu, C. T., & Armour, V. A. (1987). Developing written literacy in deaf children through analyzing sign language, *American Annals of the Deaf*, 132(1), 46-51.
- Andrews, J.F., Winograd, P., & DeVille, G. (1994). Deaf children reading fables: Using ASL summaries to improve reading comprehension. *American Annals of the Deaf*, 139(3), 378-386.
- Devych, G. N., Bhattacharya, T., Grover, N., & Randhawa, S.P.K. (2014). *Indian Sign Language(S)*. Orient BlackSwan, Hyderabad.
- *Directory of Rehabilitation Resources for Persons with Hearing Impairment in India* (2000), AYJNIHH Publication.
- Education. Gallaudet Research Institute, Working Paper 89-3, Gallaudet University, Washington, D.C.
- Evans, L. (1982). *Total Communication, Structure and Strategy*. Washington D.C.: Gallaudet College Press.
- Ezell, H.K., & Justice, L.M. (2005). Programmatic Research On Early Literacy: Several Key Findings. *IES 3rd Annual Research Conference: American Speech Language & Hearing Association (ASHA)*.
- Frank, S. (1985). *Reading Without Nonsense.*: Teachers College Press, New York.
- Ghate, P. (1996). *Indian Sign System*. AYJNIHH In-House Publication: Mumbai.
- Ghate, R.A. (2009). *Survey of Teachers' Opinion on Status of Education of the Deaf*. Unpublished Report of RCI, New Delhi.
- Heller, Robert (1999). *Effective Leadership*. Dk Publishing: New York.
- Huddar, A. (2008). *Language and Communication*. DSE Manuals. Rehabilitation Council of India, New Delhi.
- Improve Reading Comprehension. *American Annals of the Deaf*, 139, 378-386.
- *Indian Sign Language Dictionary* .(2001). Sri Ramakrishna Mission Vidyalaya, Coimbatore.
- Johnson, R., Liddell, S., & Erting, C. (1989). Unlocking the Curriculum: Principles for Achieving Access in Deaf Language. *American Annals of the Deaf*, 132, 46-51.
- Lewis, Rena B. & Doorlag, Donald H. (1999). (5th Ed) *Teaching Students with Special Needs in General Education Classrooms*. Prentice Hall Inc. New Jersey.
- Woodward, J., Vasishta, M., & de Santis, S. (1985). An introduction to the Bangalore variety of Indian Sign Language. Gallaudet Research Institute Monograph No. 4, Gallaudet Research Institute. Washington, D.C
- Vasishta, M.M., Woodward, J., & De Santis, S. (1981). *An Introduction to Indian Sign Language: Focus on Delhi*. All India Federation of the Deaf, New Delhi.
- Websites for Signed Dictionaries.
- Woodward, J. (1993). "The Relationship of Sign Language Varieties in India, Pakistan and Nepal". *Sign Language Studies* (78), 15–22.

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**COURSE O122: COMMUNICATION THROUGH BRAILLE**

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**COURSE OBJECTIVES**

**MARKS: 50 | CREDITS: 2 | 4 Hrs./wk**

The B.Ed. Spl. Edu. HI Second Semester student will be able to–

- Co-Explain The Introduction To Braille.
- Co-Explain The Braille Devices.
- Co-Explain The Understanding Braille Script
- .Co-Explain The Braille Reading And Writing

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**UNIT 1: INTRODUCTION TO BRAILLE**

- Introduction to Visual Impairment
- Causes and prevention of Visual Impairment
- Louis Braille and the Evolution of Braille

**UNIT 2: BRAILLE DEVICES**

- Relating Slate and Stylus; Taylor Frame and Types, Abacus with Braille devices
- Braille Writer, Braille Embossers and Braille Translation Software
- Low Vision Aids--Optical, Non-Optical, Vision Training Material

**UNIT 3: UNDERSTANDING BRAILLE SCRIPT**

- Braille Signs—English Braille, number
- Braille Signs and Symbols—Hindi/Regional Language
- Embossed – Maps & Models

**UNIT 4: BRAILLE READING AND WRITING**

- Braille Reading Process
- Braille Writing Process
- Using short cut in Braille using words

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**COURSE WORK/FIELD ENGAGEMENT/PRACTICUM:**

*Each Student-Teacher*

- a. Prepare a presentation – Oral/ Powerpoint – on the relevance of Braille for children with visual impairment. **OR**
- b. Prepare a report on the availability and use of Braille and assistive devices in one inclusive school **AND**
- c. Prepare two Braille material for any class of school subject/B.Ed. Courses



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**COURSE EPC1: INTEGRATION OF ICT IN TEACHING-LEARNING**

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**COURSE OBJECTIVES**

**MARKS: 50 | CREDITS: 2 | 4 Hrs./wk**

After completing the course, B.Ed. I Semester students will be able to -

- CO - Explain the concept, need, and importance of ICT in the teaching-learning process.
  - CO- Implement application software for creating documents, databases, presentations, and other media applications in the given situation.
  - CO- Able to plan traditional teaching-learning design into ICT-supported design.
  - CO- Execute learned ICT tools and Apps for given situations of teaching-learning, management, and assessment.
  - CO- Generate various teaching-learning materials with the help of learned ICT tools (e-content development).
- 

**UNIT-I: INFORMATION & COMMUNICATION TECHNOLOGY IN EDUCATION**

- Concept, Need and Importance of Information and Communication Technology.
- Paradigm shift in Education due to ICT content, with special reference to Curriculum, Role of Teacher, Methods of Teaching, Classroom Environment, Evaluation procedure and educational management.
- Uses of ICT in Education: Teaching Learning Process, Publication, Evaluation, and Management and Administration
- Challenges and Barriers in integrating Information and Communication Technology in school education
- Digital Learners and ICT skilled Teacher.

**UNIT -II ICT SUPPORTED TEACHING-LEARNING STRATEGIES**

- e-Learning
- Web based learning
- Learning Management System (LMS) Google classroom and Edmodo
- Blended Learning and Flipped Classroom

**UNIT -III DEVELOPMENT OF ICT BASED STUDY MATERIALS**

- Application of Google tools in development of learning materials (Google doc, Google form, and google slides, google sheet and google keep)
- e-Content Development through different ICT tools
- Audio and Video Recording tools

**UNIT-IV: ICT AND LEARNING RESOURCES**

- Concept of OER
  - Cyber safety and ethical guidelines for teacher and learner.
  - Email
  - You-tube
  - e-books
  - blogs
  - Cyber safety and safety measures on using learning materials available on internet.
-

**COURSE WORK/FIELD ENGAGEMENT/PRACTICUM:**

- Developing an e-content related to methodology subject.
- Preparing and presenting school visit report in PPT format
- Preparing Students record/Evaluation report with the help of google app.
- Preparing online evaluation tool/ student record tool with the help of ICT APP.
- Visit any two educational websites/ MOOC's and write a critical assessment report about it in MS Word.
- Prepare resume/invitation card/personal website and organise virtual event.

**Suggested Reading/Learning Reference-**

- WWW- As per required websites for concern topic.
- U-Tube Channel/ Moocs/OER/E-Pathsala- As per topic/points

**Text Book:**

1. Arulswamy, S., Sivakumar, P. (2012). *Application of ICT in education*. Hyderabad: Neelkamal Publication.
2. Simmons, C., & Hawkins, C. (2009). *Teaching ICT*. Sage Publications India Pvt. Ltd.
3. Talsera, H., Marashdeh, W., & Nagda, M. L. (2005). *Web Based Learning*. New Delhi: Authors Press.
4. Manoj, D. (2010). *ICT in teacher development*. Hyderabad: Neelkamal Publications.
5. Mishra, R.C. (2005). *Teaching of information technology*. New Delhi: APH Publishing Corporation.
6. Sampath K., Panneerselvam, A., & Santhanam, S. (1998). *Introduction to educational technology* (4<sup>th</sup> ed.). New Delhi: Sterling Publishers Pvt. Ltd.
7. Santoshi, V. (2009). *Information and communication technology for teacher education*. New Delhi: Kanishka Publications.
8. Vanaja M., Rajashekhar S., & Arulswamy, S. (2013). *Information and communication technology (ICT) in education*. Hyderabad: Neelkamal Publications.

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**COURSE SI 1: SCHOOL VISIT–I(UPPER PRIMARY TO HIGHER SECONDARY)**

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**COURSE OBJECTIVES**

**MARKS: 50 | CREDITS: 2 | 2 Weeks**

After completing the course the student-teachers will be able to

- Acquire sufficient basic information regarding various kinds of schools
- Understand the various processes, scholastic, co-scholastic and official, undergoing in a school in detail
- Ability to reflect upon the total environment of the school to plan for appropriate teaching practices and to prepare her/himself to play her/his role as a teacher in school

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Every teacher has a vivid experience of school as being a student, sometimes in life. But the way one understands the school, changes when the position is changed to that of a teacher. A school visit for duration of two weeks is expected to give the prospective teachers the first opportunity to observe ‘the school’ from a teachers’ point of view. They are expected to revisit the processes going on within a school system to understand their nature, purpose, role played by various people concerned, role of external authorities, quality and quantity issues, issues of infrastructure and planning, etc. This visit shall just be an exposure to connect their memories of school days with the present realities of school systems in order to sensitise them ‘what kind of a teacher they wish to become’, ‘what kind of a school they wish to be a part of’ and ‘what should their role be in achieving that’. Close, sincere interaction with the school environment and keen observation, as well as honest recording of the experience is expected from the prospective teachers after ensuring fulltime presence in the school/s allotted to them.

The prospective teachers are expected

1. To prepare a check list of important points to observe on the basis of NCF 2005, RTE Act, and other relevant recommendations
2. To observe and record in detail the following aspects in approx:
  - The physical environment
  - The socio-cultural ethos of the school
  - The infrastructure: Basic and academic
  - The nature of administration and governance
  - Teachers and learners
  - General methodologies of teaching-learning in different subjects
  - Examination
  - Time table, discipline, CCA and physical exercises
  - Scope of interaction with the society
  - Welfare services (Health, financial, academic, etc.)
  - Local resources around the school
  - Other critical observations characteristic of a particular school
3. And, to evaluate and reflect on the observations.

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## **COURSE C23: LEARNING AND TEACHING**

### **COURSE OBJECTIVES**

**MARKS: 100 | CREDITS: 4 | 6 Hrs./wk**

After completing the course B.Ed. II semester students will be able to:

- CO-differentiate between the concept of teaching and learning
  - CO-plan effective communication strategies in classroom
  - CO-critique on various views of learning
  - Understand the process of knowledge construction within the context of the ‘outside’ world and the ‘inner’ world of the learners
  - CO- plan & design teaching for promoting self–regulated learning, higher order thinking and survival in the competitive world
  - CO-analyse challenges in teaching in today’s’ classroom full of students with diverse needs
- 

### **UNIT: I LEARNING AND TEACHING**

- Learning: Changing Meaning; Nature; process of learning, content learning and process learning, general or situated learning!
- Teaching: changing meaning, levels of teaching; An art or a science!
- Good teaching – What and How or Reflective Teaching to enhance learning.
- Communicating contents effectively, two–way path, role of coding, suitable media, and feedback; Proper positioning for better eye contact effective communication

### **UNIT: II HOW CHILDREN LEARN:**

- A behaviouristic view – role of conditioning and reinforcement to act upon environment; Laws of effect, primacy and practice
- A cognitive view – perceiving parts into whole, role of brain and memory in information processing, implications for teaching to reduce cognitive load and designing better communication message, using multi–media, mnemonics, meaningful contextualisation;
- Understanding learners from the perspective of multiple intelligences with a focus on Gardner’s theory of multiple intelligences.

### **UNIT: III LEARNING: A SOCIO-COGNITIVE PROCESS**

- learning by observation (referring to Bandura’s theory), actively choosing what to learn, implication for teachers and parents
- Central ideas of constructive view of learning (with major reference to Vygotsky), zone of proximal development, needs of scaffolding and its implications for teaching, learning in collaboration, common elements of constructivist teaching
- self–regulation; teaching strategies for improving metacognitive abilities of students
- Learning to think critically and to solve problems; implication for teachers to promote critical thinking and problem solving ability

### **UNIT: IV TEACHING–LEARNING IN TODAY’S CLASSROOM**

- Catering needs of different learning styles
- Addressing multicultural, multilingual classroom
- Teaching–Learning in electronic and digital world: issues and challenges, and needs for individualization of learning,

- Learning to learn, strategies for Motivating students for life long and independent learner.
- Helping students vulnerable with anxiety, stress, or aggression and delinquency

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**COURSE WORK/FIELD ENGAGEMENT/PRACTICUM:**

- Critical study of research papers on learning and teaching
- Observation of classroom and other learning situations – field notes and reflections/ discussion to understand what and how children learn in group setting
- Developing scaffolds in the learning situations in any subject area
- Identifying learning styles, self regulation,, metacognitive skills through inventories
- Visit to different schools having learners from various socio-cultural background: preparing profile of a specific learner and sharing it
- Observe, analyze and reflect on teacher-student relationship
- Presentation regarding multicultural classroom needs

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**MODE OF TRANSACTION:**lectures, video clips, discussion, small group activity

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**Suggested Readings:**

1. मुकुंदाकमला, स्कूलमेंतुमनेक्यापूछा, एकलव्य, भोपाल, 2013
2. सीखनेमेंगति की स्वतंत्रता, रविकान्ततोषनीवालए, विमर्श, मार्च 1999, दिगांतर, जयपुर
3. समावेशीशिक्षा: विचारऔरअनुभव, मदनमोहनझा की विश्वम्भर से बातचीत, शिक्षा विमर्श, मईजून 2007, दिगांतर, जयपुर
4. Emotions and Learning, Venu N., Journal of the Krishnamurti Schools, Issue 10, July 2006, Centre for Learning, Bangalore
5. W Crain, Theories of Development: Concepts and Applications (1992), Prentice Hall, New Jersey.
6. Vygotsky's Social-Historical Theory of Cognitive Development, Chapter 10
7. Vygotsky L.S. (1978) Interaction Between Learning and Development in *Mind in Society* , , Cambridge, MA: Harvard University Press, 79-81
8. Kumar Krishna, Learning to be Backward in *Social Character of Learning* Pgs. 59 – 77.
9. Growing up Male, Kumar Krishna, What is Worth Teaching, pgs, 81 to 87.
10. Woolfolk, Anita (2012) Educational Psychology (12<sup>th</sup> Edition). Pearson Indian Education Services Publication
11. NCERT (2005) National Curriculum Framework, 2005, National Council of Educational Research and Training, New Delhi.
12. Mangal, S.K. (2010) Advanced Educational Psychology, Printice Hall of India, New Delhi
13. Hurlock, E. Developmental Psychology, Tata MacGrow Hill publication Co., NewYork, 1959.
14. Gupta, S.P. Advanced Educational Psychology, SardaPustakBhawan, Allahabad, 2001.
15. Sharma, S. Constructivist Approaches to Teaching and Learning, New Delhi: NCERT
16. Mangal, S.K. Shiksha Manovigyan, Pearson Publications
17. Pandey, Kalpalata. ShiskshaManovigyan, Tata MacGrow Hill publication Co.

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**COURSE C24: KNOWLEDGE & CURRICULUM**

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**COURSE OUTCOMES**

MARKS: 100	CREDITS: 4	6 Hrs./wk
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B.Ed. second semester students will be able to :

- CO- explain the concept ,types and facets of knowledge and their nature
- CO-differentiate between facts, belief, information, knowledge and understanding
- CO – classify various types of curriculum
- CO- plan curriculum for their respective schools

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**UNIT-1: UNDERSTANDING KNOWLEDGE**

- Meaning and concept of knowledge
- Sources of knowledge
- Types of Knowledge – A priori and A Posteriori knowledge, Declarative, Procedural and Relational knowledge
- Facets of knowledge- Local and Universal, Concrete and Abstract, Theoretical and practical, Contextual and textual , School and Out of school , and Scientific and Religious,

**UNIT-2: KNOWLEDGE CONSTRUCTION**

- Concepts of facts, belief, information, knowledge and understanding
- Theories of knowledge Construction – Jean Piaget and Lev Vygotsky
- Methods promoting knowledge construction
- Role of culture in knowing
- Validation of knowledge

**UNIT-3: UNDERSTANDING CURRICULUM**

- Meaning and Concept of curriculum
- Components of curriculum
- Types of curriculum
- Principle of Curriculum development
- Philosophical ,Psychological and Sociological foundations of curriculum development

**UNIT-4: CONCERNS IN CURRICULUM**

- Curriculum as a Contested Terrain
- Ideology and Curriculum
- Implications of curricular divisions for learner centered pedagogy
- Models of curriculum development- Ralph Taylor and Hilda Taba

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**PRACTICUM**

- Student will analyze the Content for value reflection of any one chapter of concern subject at secondary standard.
- Students will identify co-curricular components of some given topics in different subjects
- Students will study the recommendations of major reports/ commissions on framing Curriculum - National Curriculum Framework and NEP2020

**Suggested Reading:**

WWW-As per required websites for concern topics

Youtube channel/MOOCs/OER/SWAYAM/e-Pathsala- As per topic/points

**Books**

**Seth, Shyamkishor and Mishra Neelima:** Philosophy of Knowledge, LokbhartiPrakashan Allahabad.

**Tiwari ,Kedarnath:** Metaphysics and Epistemology, Motilal Banarsidas Delhi.

**Mishra ,Hridyanarayan:** Problems of Epistemology, Shekher Prakashan Allahabad.

**Agrawal, S. K.:** Techniques of Teaching, Rajesh Publishing House Meerut.

**Gupta, S.P.:** History, Development and Problem of Indian Education, ShardaPustakBhawan , Allahabad.

**Lakshmi, T. K. S.:** Value Reflection ,BanasthaliVidyapith.

**Vashist, R.P.** Curriculum Deveopment, Commonwealth

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**COURSE CH25: LANGUAGE ACROSS THE CURRICULUM**

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**COURSE OBJECTIVES**

**MARKS: 50 | CREDITS: 2 | 3 Hrs./wk**

B.Ed. Second Semester students will be able to:

- CO-exemplify the meaning of language and language skills
  - CO-analyze the language background of the learner
  - CO- explain the multilingualism in the society
  - CO- infer the classroom practices for language
  - CO-develop understanding of the reading comprehension
  - CO-apply the various writing aspects
- 

**UNIT I: LANGUAGE BACKGROUD OF THE LEARNER**

- Language and Language skills
- Characteristics of first language and second language learning and teaching
- Need to understand the language background of the learners

**UNIT II: CONCEPT OF MULTILINGUALISM**

- Sensitivity towards the language diversity in the classrooms: Identification
- Multilingualism in the classroom: concept
- Aspects of the power dynamics of the ‘standard’ language as the school language vs. home language or ‘dialects’;
- Language and culture

**UNIT III: CLASSROOM PRACTICES AND READING COMPREHENSION**

- The nature of classroom discourse
- Strategies for using oral language in the classroom in a manner that promotes learning
- Nature of reading comprehension in the content areas
- Expository texts vs. narrative texts; schema theory

**UNIT IV: WRITING ASPECTS**

- Activities to develop language skills
  - Note-making, summarizing; making reading-writing connections; process writing: Components
- 

**PRACTICUM**

- School Visit to Find out Communication Problem/Apprehension in Students
- Prepare a report on multilingualism
- Prepare a news of your departmental activity
- Prepare presentation on language diversity through the use of ICT
- Workshop on reading activities
- Assignments on Developing Writing Skills- Summary, Letter, Paragraph, Essays, Speech
- Assignments on Developing Speaking Skills – Oral Presentations, Debate, Elocution, Discussion, Brain-storming
- Assignments on Developing Listening Skills – Listening to speech, directions

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**Suggested Readings/Learning References:**

Nagaraj, Geetha (2012) English Language Teaching Approaches, Methods, Techniques, Orient Blackswan Private Limited, New Delhi.



- Littlewood, William (2000) *Communicative Language Teaching*, Cambridge University Press.
- Teacher's Handbook for Primary Stage (2003) *Continuous and Comprehensive Evaluation*, NCERT, New Delhi.
- Mohan, Krishna & Banerji, Meera (2002) *Developing Communication Skill*, Macmillan India Limited, New Delhi.
- Richards, Jack C. & Rodgers, Theodore S. (1995) *Approaches and Methods in language teaching- A description and analysis*, Cambridge University Press.
- Kohli, A. L. & Sharma L. M. (2002) *Techniques of Teaching English ( in the New Millannium)*, Dhanpat Rai Publicating Co. (P) Ltd., New Delhi.
- Floyd, K. (2009). *Interpersonal Communication*. New York: McGraw Hill Companies Inc.
- Fromkin, V, Rodman, R & Hymes, N. (2011). *Introduction to Language*. (9th ed.). Canada: Cengage Learning.
- Akmajian, A. et al. (2010). *Linguistics: Introduction to Language and Communication*. (6th ed.). Cambridge: MIT Press.
- www- As per required websites for concern topic.
- You-Tube Channel/ Moocs/OER/E-Pathsala- As per topic/point
- . (6th ed.). Cambridge: MIT Press.

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**COURSE P2AP: PEDAGOGY–I (A) PHYSICAL SCIENCES**

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**COURSE OUTCOMES:**

**MARKS: 50 | CREDITS: 2 | 3 Hrs./wk**

To facilitate the B.Ed. Second Semester students to be able to::

- CO 1. Analyse the contents of Physical science for effective long term and instructional planning
  - CO 2. Decide what to teach, and how to teach in Physical science for school science
  - CO 3. Justify the various elements of lesson plans on the basis of major psychological theories
  - CO 4. Effectively plan physics lessons in the socio-cognitive context of secondary learners
  - CO 5. Explain the psychological basis of different approaches for teaching
  - CO 6. Develop strategies to make the teaching-learning of physical science meaningful
  - CO 7. Handle and develop appropriate learning resources and teaching-learning aids
  - CO 8. Choose, design and execute effective strategies techniques and skills of teaching-learning physical science to maximize learning outcomes
  - CO 9. Effectively reflect for self-improvement
- 

**UNIT I: PEDAGOGICAL PLANNING FOR A PHYSICAL SCIENCE LESSON**

- Content analysis through concept mapping and identifying hierarchy;
- Unit planning & lesson planning
- Deciding and framing the objectives of teaching—learning and instructional objectives
- TPACK : implications for planning for technology enhanced classrooms

**UNIT II: DECIDING STRATEGIES AND APPROACHES**

- Maxims of Teaching: Moving from particular, concrete and simple to general, abstract and complex;
- Deciding appropriate strategy: Teacher-centered and Learner-centered – nature of interaction, pros and cons, examples
- Teaching approaches: Inductive & deductive approach; psychological basis for taking an approach—brief reference to learning theories of Piaget, Bruner and Ausubel; Constructivist approach—5Es

**UNIT III: DELIVERING A PHYSICAL SCIENCE LESSON**

- Building up ideas (through Compare, contrast, Placing appropriate Examples; representation—verbal, visual)
- Appropriate Questioning for ensuring empirical and active mind, and to probe into the learner's mind
- Maintaining motivation: extrinsic and intrinsic, reinforcements
- Ensuring maximum participation and inclusion
- Developing and using learning resources—print, audio-visual, soft media

**UNIT IV: MAKING A LESSON MEANINGFUL & EFFECTIVE**

- Meaningfully closing a lesson: closure strategies for physical science
  - Making science teaching meaningful, personally relevant and emphasising social implication
  - Strategies of promoting scientific communication: oral and written,
  - Reflecting on teaching
- 

**COURSE WORK/FIELD ENGAGEMENT/PRACTICUM:**

- Content analysis of given science content
  - Preparing concept maps on given content
  - Exercises on probing situations, drawing social relevance, Scientific communication
  - Preparing plans to deliver a lesson on given teaching points
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- Preparing online contents
- Designing low cost aids and learning resources
- Preparing reflecting diary based on practice sessions

**MODE OF TRANSACTION:** Lectures, Video clips, Discussion, Small group activity/projects, Demonstration, Workshop, Interaction with resource persons in the field, Assignment, Collaborative readings on identified topics, through online learning management systems (blended mode) if required

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### Suggested Readings:

- Abell, Sandra K. & Lederman, Norman G. (2007) Handbook of Research on Science Education, Volume 1, Psychology Press,
- Angela Di Michele Lalor (2016) Ensuring High-Quality Curriculum: How to Design, Revise, or Adopt Curriculum Aligned to Student Success, Alexandria: Virginia: ASCD,
- Braund, Martin. (2012). Performing Science: Teaching physics, chemistry and biology through drama..
- Das, R.C. (2007) *Science Teaching in Schools*. New Delhi: Sterling Publishers Private Limited.
- Department of Gender Studies, NCERT () Analysis of the Textbooks of Assam, Bihar, Chhattisgarh, Gujarat, Haryana, Himachal Pradesh, Odisha, Maharashtra, Manipur and Rajasthan: An Overall Report
- Driver, R., Squires, A., Rush worth, P. and Wood- Robinson, V. (2006) Making Sense of Secondary Science: Research into Children’s Ideas, London: Routledge Palmer.
- Eilam, B. & Gilbert, John K. (Eds.) (2014) Science Teachers’ Use of Visual Representations. Switzerland : Springer International Publishing
- Gibbs, K. (2011) The New Resourceful Physics Teacher: Creative Ideas and Experiments for Physics Teaching, Schoolphysics Publications
- Gupta, A. (1978) New UNESCO source book for science teaching . New Delhi: Oxford & IBH Publishing house. <http://www.arvindguptatoys.com/arvindgupta/unesco-source-new.pdf>
- Heywood, D. & Parker, J. (2010) The Pedagogy of Physical Science (Contemporary Trends and Issues in Science Education) Springer
- Kalra, R. M. (2008) Science Education for Teacher Trainees and In-service Teachers: Learning to Learn Modern Science, New Delhi: PHI Learning Pvt. Ltd.,
- Kerkhoven, A.H., Russo,P. Land-Zandstra, A.M., Saxena, A and Rodenburg, F. J. (2016) Gender Stereotypes in Science Education Resources: A Visual Content Analysis. PLoS One. 11(11). doi: 10.1371/journal.pone.0165037
- Lagu, R. G. (Eds.) (2007) Experiments are fun, Oxford University Press.
- Lagu, R. G. (Eds.) (2009) How and why in Science : Senior series Book 2, Oxford University Press
- [Lalor](#), Angela Di, M. (2016) Ensuring High-Quality Curriculum: How to Design, Revise, or Adopt Curriculum Aligned to Student Success, Alexandria: Virginia: ASCD,
- Lattery, M. J. (2016) Deep Learning in Introductory Physics: Exploratory Studies of Model-Based Reasoning (Science & Engineering Education Sources), Charlotte NC: Information Age Publishing
- Liu, X. (2010) Essentials of Science Classroom Assessment: SAGE Publications, 2010
- Mangal, S. K. (2019) *Pedagogy of Physical science*, New Delhi: Arya Book Depot
- Mishra, K. K. (2004) Vigyan: MaanavkiiYashogatha, the Hindi version of Science:" A Human Saga" , Mumbai: HBCSE (TIFR)
- Mishra, K. K. (2006) Lok-Vigyan: SamakaleenShaikshikRachanayen, HBCSE (TIFR), 152pp.

- Mohan, Radha, (2019) *Innovative Science Teaching: For Physical Science Teachers*. New Delhi: PHI Learning Pvt. Ltd.
- National Council of Educational Research & Training (2013), *Pedagogy of Science: Physical science (Part-I & II) – Textbook of B.Ed.*, New Delhi: NCERT, [http://www.ncert.nic.in/departments/nie/desm/publication/pdf/phy\\_sci\\_partI.pdf](http://www.ncert.nic.in/departments/nie/desm/publication/pdf/phy_sci_partI.pdf)
- National Council of Educational Research & Training NCERT (2006) *National Curriculum Framework : 2005*, New Delhi: NCERT
- National Council of Educational Research & Training NCERT, (2005). *Position Paper: National Focus Group on Teaching Science*, NCERT: New Delhi
- National Council of Educational Research & Training NCERT, (2006) *Position Paper: National Focus Group on Exam Reforms*, New Delhi: NCERT. [http://www.ncert.nic.in/new\\_ncert/ncert/rightside/links/pdf/focus\\_group/examination\\_reforms.pdf](http://www.ncert.nic.in/new_ncert/ncert/rightside/links/pdf/focus_group/examination_reforms.pdf)
- National Council of Educational Research & Training NCERT, (2006) *Position Paper: National Focus Group on Teaching of Science*, New Delhi: NCERT [http://www.ncert.nic.in/new\\_ncert/ncert/rightside/links/pdf/focus\\_group/executive\\_summary.pdf](http://www.ncert.nic.in/new_ncert/ncert/rightside/links/pdf/focus_group/executive_summary.pdf)
- National Research Council. (1997) *Science Teaching Reconsidered: A Handbook*. Washington, DC: The National Academies Press. <https://doi.org/10.17226/5287>
- Neidorf, T. (2019) *Student Misconceptions and Errors in Physics and Mathematics*. Springer Nature ISBN 3030301885, 9783030301880
- Osborne, J. & Dillon, J. (Eds.) (2010). *Good practice in science teaching: What research has to say*, Philadelphia: Open University Press
- Park, Y. (2004) *Teaching and Learning of Physics in Cultural Contexts: Proceedings of the International Conference on Physics Education in Cultural Contexts : Cheongwon, South Korea, 13-17 August 2001*, Korea: World Scientific
- Parkinson, J. (2002). Chapter-1. *Learning to Become an Effective Science Teacher*. In *Reflective Teaching of Science 11-18: Continuum Studies in Reflective Practice and Theory*. New York: Continuum. pp. 1-12.
- Rogers, B. (2018) *The Big Ideas in Physics and How to Teach Them: Teaching Physics 11–18*. Routledge,
- Ronen, I. (2018) *Misconceptions in Science Education: Help Me Understand*, Cambridge Scholars Publishing,
- *Science curriculum resource handbook: a practical guide for K-12 science*, Kraus International Publications, 1992 NCE curriculum
- Sharma, R.C. (2013). *Modern Science Teaching*. Dhanpat Rai Publishing Company Ltd. New Delhi, pp.168-250
- Sunal, D.W. (2019) *Physics Teaching and Learning: Challenging the Paradigm*, Charlotte NC: Information Age Publishing
- Tobin, K. (Ed.). (1993). *The Practice of Constructivism Science Education*. Hillsdale, New Jersey: Lawrence Erlbaum Associates, Inc.
- Trostli, R. (1995) *Physics is Fun: A Sourcebook for Teachers* Spiral-bound – Import, Octavo Editions
- Turner, T. & Dimatea, W. (1998) *Learning to Teach Science in Secondary School*, Routledge Publication, USA.
- UNESCO (1966) *Source Book for Science Teaching*: UNESCO: Paris.
- UNESCO (2015) *UNESCO SCIENCE REPORT: Towards 2030*, Paris: UNESCO Publishing
- UNESCO (December 2010) *Guidelines for textbook review and analysis from a gender perspective*. Geneva : UNESCO Publishing. <https://docs.iiep.unesco.org/peic/2748.pdf>
- UNESCO Institute for Statistics. (2015) *Women in Science..* Available: <http://www.uis.unesco.org/ScienceTechnology/Documents/fs34-2015-women%20in%20science-en.pdf>
- Vaidya N. (1999) *Science Teaching for the 21st Century*, Deep and Deep Publishers.

- Wellington, J. & Osborne, J. (2001) Language and literacy in science education. Philadelphia: Open University Press
- Wellington, J. (2004) Teaching and Learning Secondary Science – Contemporary Issues and Practical Approaches, London: Routledge
- Yadav, M.S. (2002) Teaching of Science, Amol Publications.
- <http://unesdoc.unesco.org/images/0019/001914/191425e.pdf>
- [http://cbseacademic.nic.in/web\\_material/CurriculumMain20/SrSecondary/Physics.pdf](http://cbseacademic.nic.in/web_material/CurriculumMain20/SrSecondary/Physics.pdf)
- <https://www.youtube.com/watch?v=wcf0pZzUjEs>
- <https://www.youtube.com/watch?v=rLJ16LQ2t5c>
- <https://www.youtube.com/watch?v=MYuh5yErdfA>
- [https://www.youtube.com/watch?v=FbaXQ8u6IP8http://phys205.physics.tamu.edu/WebPageDocuments/Article\\_UsingInquiry.pdf](https://www.youtube.com/watch?v=FbaXQ8u6IP8http://phys205.physics.tamu.edu/WebPageDocuments/Article_UsingInquiry.pdf)
- [http://sbcf.fr/docs/The\\_Teaching\\_of\\_Science-Ch\\_7\\_march2011-Bybee.pdf](http://sbcf.fr/docs/The_Teaching_of_Science-Ch_7_march2011-Bybee.pdf)
- <http://unesdoc.unesco.org/images/0019/001914/191425e.pdf>
- <https://www.youtube.com/watch?v=5gdSZorjKSQ>
- <https://www.youtube.com/watch?v=4-1JvVCWtIg>
- <https://www.youtube.com/watch?v=BnlCQ45f7KM>
- <http://www.wisd.org/users/0001/docs/GVC/5E%20Model.pdf>

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**COURSE P2AS: PEDAGOGY–I (A) SOCIAL SCIENCE**

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**MARKS: 50 | CREDITS: 2 | 3 Hrs./wk**

**Objectives of Paper - Learning Outcome Base Objectives - LOBO**

B.Ed. Second Semester Students will be able to –

- CO-Develop the classroom skills needed for teaching of social science.
- CO-Acquire the competence to plan for social science instruction.
- CO-Acquire the ability to develop instructional support materials.
- CO-Acquire the ability decide and develop appropriate learning recourses

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**UNIT I: APPROACHES AND TECHNIQUES OF TEACHING SOCIAL SCIENCES**

- Teaching Approaches: Particular to General, Concrete to Abstract, Simple to Complex, etc.
- Deciding Appropriate Techniques: Narration, Questioning, Field Trip, Story Telling, Role Playing and Simulation, Dramatization etc.

**UNIT II: METHODS OF TEACHING IN SOCIAL SCIENCE**

- Need of Methods in Social Science
- Deciding Appropriate Strategy/methods in Social Science
- Some Methods: Lecture, Discussion Method, Project Method, Source Method, Social Recitation Method

**UNIT III: TEACHING AIDS AND REFERENCE MATERIAL IN SOCIAL SCIENCE**

- Deciding and Developing Appropriate Learning Recourses
- Projected and Non-Projected Aid
- Audio, Visual and Audio-Visual Aid

**UNIT IV: DELIVERING A SOCIAL SCIENCE LESSON**

- Objectives of Social Science Teaching
- Deciding and Framing the Objectives of Teaching-Learning
- Planning of Lesson-(Reflection of Teaching)

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**COURSE WORK/FIELD ENGAGEMENT/PRACTICUM**

- Dramatization an Historical/Political/Economical/Environmental etc. events
- Role Playing an Historical/Political/Economical/Environmental etc. events
- Making Story about an Historical/Political/Economical/Environmental etc. events
- Construction of lesson plan
- Delivering the model social science lesson

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**MODE OF TRANSACTION:** Lecture, discussion, workshop, seminar, assignment, presentation by students

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**Suggested Readings:**

- Agrawal, J.C. Teaching social studies, vikas publishing house pvt.Ltd. New Delhi
- Singh Rampal Samajikadhyayankashikshan, laxminarayanagrwal, Agra
- Tyagi, Gurusharan Teaching of Social Science, VinodPustak Agra.
- James Fleming The teaching of Social studies in Secondary School, Longman, Greon & Co, London.
- Bining & Bining Teaching of social studies in the Secondary school, McGraw Hill Book Co. New York.
- Sharma, A.P. Teaching of Social Studies and Civics, Gaya Prasad & Sons, Agra.

- Ralph, C. Preston Teaching Social Studies in the Elementary School (New York, Rinehart & Company).
- Maurice, P. Hunt Teaching High School Social Studies (HarperLawrance E. Metealf& Brothers, Publishers, New York).
- John Jarolimek Social Studies in Elementary Education (The Macmillan Co., New York).
- Kochhar, S. K. The Teaching of Social Studies, Sterling Publishers, Delhi, 1963.
- Forrester, I. F. Introducing Social Studies (Orient, Long Mans, Bombay) 1956.
- NCERT, (2006). *National Curriculum Framework-* 2005, NCERT. New Delhi.
- NCERT, (2005). *'Focus Group Report' Teaching of Social Science* NCERT New Delhi.
- Gupta, R. The methods of teaching Social Studies

**Learning Reference:**

- Web content
  - You-Tube Channel/ Moocs/OER/E-Pathsala- As per topic/points
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**COURSE P2BM: PEDAGOGY–I (B) MATHEMATICS**

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**COURSE OBJECTIVES**

**MARKS: 50 | CREDITS: 2 | 3 Hrs./wk**

B.Ed. Second Semester Students will be able to:-

- CO-1. Decide what to teach, and how to teach in Mathematics for school
- CO-2. Effectively plan physics lessons in the socio-cognitive context of secondary learners
- CO-3. Explain the psychological basis of different approaches for teaching
- CO-4. Develop strategies to make the teaching-learning of physical science meaningful
- CO-5. Handle and develop appropriate learning resources and teaching-learning aids effectively reflect for self-improvement

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**UNIT- I- INSTRUCTIONAL OBJECTIVES IN MATHEMATICS**

- Meaning of Instructional objectives
- Formulation of instructional objectives in behavioural terms with respect to Arithmetic, mensuration, Trigonometry, angles, set theory and statistics
- Relationship between specific objective and general objectives

**UNIT- II- PLANNING IN MATHEMATICS**

- Meaning and concept of planning
- Types of planning in mathematics- Annual, Unit and Lesson Plan
- Steps of planning
- Text books of mathematics and teachers

**UNIT- III- MAXIMS AND METHOD OF TEACHING MATHEMATICS**

- Maxims of Teaching
- Methods of instruction in mathematics- Analytical, Synthetical, Inductive- Deductive, problem solving, Demonstration, Project method
- Advantage and limitation of method
- Mathematics Club

**UNIT- IV- TECHNIQUES IN MATHEMATICS TEACHING**

- Techniques of meaningful learning in mathematics- Importance and implementation
- Oral, Written, Drill and Home-work
- Self-study, Group- study, Supervised- study
- Teaching- Learning material in mathematics- PLM
- Teaching Aids concept and types- Audio- Visual

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**Practicum:**

- 1-Preparation of five effective lesson plans on mathematics
- 2-Teaching of two lesson plan through internet/Online
- 3-Use of Computer in Teaching of Mathematics.
- 4-Use of Mathematics activities for recreation.
- 5-Development and use of Mathematics laboratory.
- 6-Prepare mathematical activities in the context of socio-cultural aspects.

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**Suggested Reading:**



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Kulsheshtha, A K	<i>Teaching of Mathematics</i> , Meerut ,R L Book Depot.
Jain, S.H.	<i>GanitShikshan</i> .Jaipur.Raj.HindiGranthAcandmy.
Kapoor, J.N.	<i>VidhyalayaGanitkeliyesauprayog</i> .New Delhi Arya book depot.
Mangal, S.K.	<i>Teaching of Mathematics</i> - New Delhi Arya book depot.
Rawat, M.S.,	<i>Teaching of mathematics</i> - Agra, Vinodpustakmandir.
Siddhu,K.S.	<i>Teaching of mathematics</i> - New Delhi Sterling Pub.

- WWW- As per required websites for concern topic.
- U-Tube Channel/ Moocs/OER/E-Pathsala- As per topic/points
- Books- As per standard of content.

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**COURSE P2BB: PEDAGOGY–I (B) BIOLOGY**

**COURSE OBJECTIVES**

**MARKS: 50 | CREDITS: 2 | 3 Hrs./wk**

After Completion of Course the B.Ed. II semester students will be able to:

- CO1 : analyze the meaning and nature of biological science for determining aims and strategies of teaching-learning Biology.
- CO2 : describe and implement various approaches of teaching-learning of biological science.
- CO3: implement the process skill in science and role of laboratory in teaching–learning.
- CO4: use effectively different activities/experiments/demonstrations/laboratory experiences for teaching–learning of biological science and formulate meaningful inquiry episodes, problem-solving situations, investigatory and discovery learning projects.
- CO5: use competencies for teaching, learning of biological science.

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**UNIT I: CONCERNS AND OBJECTIVES OF BIOLOGY**

- Concerns (Nurturing natural curiosity of observation and drawing conclusion enhancing science process skills, stimulating creativity and inventiveness in biology, mastery learning : a vision for biology education,) of biology.
- Objectives of teaching biology at secondary level
- \*Writing specific objectives in different content areas.

**UNIT II: CURRICULUM AND PLANNING**

- Biology curriculum: concept, and principles;
- Differentiating between curriculum and syllabus. Analysis of biology syllabi of NCERT and States/UTs at secondary level\*
- \*Concept, importance and Basic elements of lesson plan, implications of TPCK in teaching Biological science

**UNIT III: METHODS AND APPROACHES**

- Inductive and Deductive approaches: characteristics, merits & limitations
- Conventional Methods: Lecture cum Demonstration–characteristics, merits & limitations, ways to make them effective
- Innovative strategies involved in improving instructional process: \*Concept maps, activity based learning, panel discussion and brainstorming, Collaborative learning strategies-cooperative learning
- Constructivist approaches – meaning, basic considerations, five ‘E’s of constructivist teaching.

**UNIT IV: INSTRUCTIONAL SUPPORT**

- \*Teaching Aids: concept, types, effective use, use of multimedia in learning biological concepts.
- exploring alternative sources; Use of ICT experiences in learning biological science (\*use of online resources), audio-visual materials- exploring 3D and graphic techniques available.
- Textbooks: characteristics of a good biology textbook, Analysis of textbooks\*.

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**MODE OF TRANSACTION:** lecture cum discussion, Demonstration, group activity/projects, presentation by students, flipped and blended mode learning as & when required.

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**PRACTICUM**

- Critical analysis of a biology text book.
- Identification of various online resources in biology teaching

- Comparing syllabus of state board with the syllabus of national/ international organization.  
(\* topics will be dealt under practicum)

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**Suggested readings:**

- Bremmer, J. Teaching Biology  
Carin, R.A. Teaching Science through discovery  
Green, T.L. Teaching of Biology in Tropical Secondary Schools  
Miller, D.F. and Blaydes, G.W.: Methods and Materials for Teaching Biological Sciences  
UNESCO New Trends in Biology Teaching  
Mangal, S.K. Teaching of Biological Sciences, Agra book Depot.  
Sounders The teaching of Gen. Science in Tropical Secondary Press London School,  
Oxford  
Kulshrestha, S. P JeevVigyanShikshan ,Lyall Book Depot, Meerut  
Rawat, D. S. VigyanShikshan, VinodPustakMandir, Agra.  
UNESCO Essential of learning in Environment.  
NCERT, (2006). *National Curriculum Framework- 2005*, NCERT. New Delhi.  
NCERT, (2005). *'Focus Group Report' Teaching of Science* NCERT New Delhi.

Webliography

<https://nroer.gov.in/home>

[https://onlinecourses.swayam2.ac.in/nou22\\_ed04/preview](https://onlinecourses.swayam2.ac.in/nou22_ed04/preview)

[https://onlinecourses.swayam2.ac.in/nou22\\_ed03/preview](https://onlinecourses.swayam2.ac.in/nou22_ed03/preview)

<https://epgp.inflibnet.ac.in/>

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**COURSE P2BE: PEDAGOGY–I (B) ENGLISH**

**LEARNING OUTCOMES**

**MARKS: 50 | CREDITS: 2 | 3 Hrs./wk**

B.Ed. Second Semester students will be able to:

- CO-explain the nature of English language
- CO-exemplify the basic concepts of English language
- CO-analyze the teaching learning process in English language
- CO-plan teaching skills English language
- CO-inculcate good listening , communication, reading, writing and habits

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**UNIT I: NATURE OF ENGLISH LANGUAGE**

- Language Nature, concept, types (verbal & non-verbal), functions
- The aims and pedagogical principles of teaching English language as a second language.
- Multilingualism as a resource
- Diverse social context of the learner for constructing knowledge of English language
- Methods and Approaches: Grammar and translation method, Direct and Bilingual method
- Structural Approach, Communicative Approach, Constructivist approach, Eclectic approach

**UNIT II: BASIC CONCEPTS OF ENGLISH LANGUAGE**

- Basic concepts of English language-
  - Determiners
  - Infinitives and Participles
  - Tenses
  - Prepositions
  - Question Forms including Question Tags
  - Direct and Indirect speech
  - Connectors
  - Punctuation

**UNIT III: PLANNING AND TEACHING SKILLS**

- Teaching spelling
- Objectives of Teaching prose, poetry, grammar, composition
- Lesson planning prose, poetry, grammar, composition
- Audio-visual aids in English Language Teaching (ELT): Its importance, types and its usage

**UNIT IV: INCULCATION OF HABITS**

- Listening comprehension
- Communication Habits
- Good reading Habits
- Good writing Habits
- English Language Lab: Concept and Importance

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**PRACTICUM**

- Prepare a dictionary
- Prepare any audio-visual aids for 8th std.
- Prepare Lesson plan of prose/poetry/grammar through the use of ICT
- Develop Instructional (Teaching Learning) Material
- Prepare a audio visual clip/program of inculcation of communication/listening/reading habits.
- Prepare a project on English Language Lab

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**Suggested Readings/Learning References**

- Krishnaswamy, N. & Krishnaswamy, Lalitha (2005) Teaching English Approaches, methods and techniques, Macmillan India Limited, Chennai.
- Nagaraj, Geetha (2012) English Language Teaching Approaches, Methods, Techniques, Orient Blackswan Pvt Ltd, New Delhi
- Littlewood, William (2000) Communicative Language Teaching, Cambridge University Press.
- Chaturvedi, M.C. (1995) Position of language in school curriculum in India, New Delhi, NCERT.
- Hornby, A. S. A guide to pattern and usage in English, oxford university press.
- Jain, R. K. Essential of English teaching, Renulal Book Depot Meerut.
- Anderson, A. and Lynch, T. (1988) Listening, Oxford University Press, Oxford.
- Ur, Penny (1984) Teaching Listening Comprehension, Cambridge University Press, Cambridge.
- Bygate, M. (1987) Speaking, Oxford University Press, Oxford.
- Brown, G. and Yule (1983) Teaching the Spoken Language, Cambridge University Press, Cambridge.
- Nuttall, Christine (1987) Teaching Reading Skills in a Foreign Language, Heinemann Educational Books Ltd., 1982; ELBS Edn., London.
- Chall, J.S. (1983) Stages of Reading Development, McGraw-Hill Book Company, New York.
- Pincas A. (1982) Teaching English Writing, The Macmillan Press Limited, London.
- Makey, Sardra L. (1985) Teaching Grammar, Pergamon Institute of English, Oxford.
- Ur, Penny (1988) Grammar Practice Activities, Cambridge University Press, Cambridge

www- As per required websites for concern topic.

You-Tube Channel/ Moocs/OER/E-Pathsala- As per topic/point

**COURSE P2BH: PEDAGOGY–I (B) HINDI**

**MARKS: 50 | CREDITS: 2 | 3 Hrs./wk**

**COURSE OBJECTIVES** :बीएडद्वितीयसेमेस्टरकेविद्यार्थी

- x|कास्वरूपएवंविशेषताओंकावर्णनकरेंगे
- x|कीपाठयोजनानिर्माणकरेंगे
- i|कास्वरूपविश्लेषणकरेंगे
- पद्यकीपाठयोजनानिर्माणकरकरेंगे
- हिन्दीभाषामेंव्याकरणकास्वरूपकाविश्लेषणकरेंगे
- व्याकरणशिक्षणकेउद्देश्य, महत्वएवंविधियाँकीरचनाकरेंगे
- मॉडलऑफटीचिंगकाहिन्दीशिक्षणप्रयोगकरेंगे
- हिन्दीभाषाशिक्षणमेंसूचनासंचारतकनीकिकाप्रयोगकरनेमें
- भाषाईकौशलऔरउनकामहत्वकावर्णनकरेंगे

**bdkbZ 1 - x | f”k{k.k %**

- X|कास्वरूपएवंविशेषताएं
- X|शिक्षणकेउद्देश्य, महत्वएवंविधियाँ
- X|कीपाठयोजना

**bdkbZ2 .i | f”k{k.k**

- i|कास्वरूप
- पद्यशिक्षणकेउद्देश्य, महत्वएवंविधियाँ
- पद्यकीपाठयोजना

**bdkbZ 3-व्याकरणशिक्षण**

- हिन्दीभाषामेंव्याकरणकास्वरूप
- व्याकरणशिक्षणकेउद्देश्य, महत्वएवंविधियाँ
- हिन्दीव्याकरणकीपाठयोजना

**bdkbZ 4% हिन्दीभाषाशिक्षणमेंनवाचार**

- भाषाईकौशलऔरउनकामहत्व
- हिन्दीभाषाशिक्षणमेंसूचनासंचारतकनीकिकाप्रयोग
- हिन्दीभाषाशिक्षणमेंशिक्षणसहायकसामग्रीकाउपयोगएवंमहत्व
- मॉडलऑफटीचिंगएवंहिन्दीशिक्षण

**COURSE WORK/FIELD ENGAGEMENT/PRACTICUM:**

- हिन्दीपद्य शिक्षण की पाठ योजनाएँ, इकाई योजना
- गद्य शिक्षण की इकाई एवंपाठ योजनाएँ
- एकपुस्तक की समीक्षा
- प्रश्नपत्र निर्माण
- सहायकसामग्री के रूपमेंदोपीपीटीतैयारकरना

**MODE OF TRANSACTION** संदर्भानुसारउपयुक्तशिक्षणविधिकाप्रयोग

**Suggested Readings/UnHkZlwph :**

- भाई योगेन्द्रजीत, हिन्दीभाषाशिक्षण, विनोदपुस्तकमंदिरआगरा
- क्षत्रिय के० मातृभाषाशिक्षण , विनोदपुस्तकमंदिरआगरा
- लाल रमन बिहारी, हिन्दीशिक्षणरस्तोगीप्रकाशन, मेरठ
- रघुनाथहिन्दीशिक्षणविधि, पंजाब घरजालंधर
- शर्मा लक्ष्मीनारायण, भाषाशिक्षण की विधियाँ औरपाठनियोजन, विनोदपुस्तकमंदिरआगरा
- शुक्लरामचन्द्र, हिन्दीभाषा का इतिहास, वच् नईदिल्ली
- पाण्डेयश्रुतिकान्त. हिन्दीभाषाऔरइसकीशिक्षणविधियाँपब्लिकलर्निंगप्राइवेटदिल्ली
- Agnihotri, R.K.(2007).Hindi: An Essential Grammer. London: Routledge.
- WWW- As per required websites for concern topic.
- U-Tube Channel/ Moocs/OER/E-Pathsala- As per topic/points
- Books- As per standard of content.

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## COURSE EPC2: DRAMA & ART IN EDUCATION

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### COURSE OBJECTIVES

MARKS: 50 | CREDITS: 2 | 4 Hrs./wk

After completing the course, B.Ed. II Semester students will be able to -

- CO –Compare different forms of art in given situation
- CO- Summarize the role of art in human life and teaching learning process.
- CO- Plan creative initiatives for better learning in the given content/subject.
- CO-Implement learned art and drama techniques in the teaching of content/subject allotted.
- CO-Organize different curricular and co-curricular events for developing critical thinking of the learner.
- CO-Infer Art as a medium of expression.
- CO-Attribute the role of Art as a medium of perception and reflection in teaching learning process..
- CO- Produce Art as an alternative languages to experience and communicate concepts in teaching-learning for the given content/subject.

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### WORKSHOP-I: UNDERSTANDING ART AND CREATIVE PLAY –Suggested themes:

- Nature, need & importance, values, different forms of art (Aesthetic, Visual and Performing Art)
- Designing games and conducting intra-inter group games involving
- Building imagination, memory, associative thinking
- Interconnecting different forms of art like music, dance, fine arts, performing arts
- Interconnecting Indian festivals and their artistic significance.

### WORKSHOP-II: EXPERIENCING, APPRECIATION AND ENGAGEMENT IN DRAMATICS–Suggested themes

- Developing script, designing background music, costume, stage, seating arrangement, evaluation system
- Enacting in small group a play/skit/drama/mime/ any other form of dramatic arts on any of the following themes suggested: Child and education, being a teacher, School and society, crisis in adolescence, social issues, any concept of a school subject area

### WORKSHOP-III: ART AND CRAFT–Suggested themes:

- Engagement in and designing of and explaining evaluation schemes for any two of the following activities focussing on colour, textures, form, composition and thematic content: Poster making, origami and paper crafts, painting, drawing, comic strips or books, screen painting (pat chitra), pottery, terracotta, curving, collage, or any other relevant form of fine art.

### WORKSHOP-IV: INTEGRATING DIFFERENT ART FORMS IN TEACHING LEARNING PROCESS –Suggested themes:

- Identification of local performing art forms and their integration in teaching – learning.
- Listening/viewing performing art forms of music, dance, puppetry and theatre.



- Evaluation strategies; assessing the different forms of Art.
- Including Music into school situations: Prayer (All faith prayers, Patriotic), Games, etc.

**Mode of transaction:** (i) talks (ii) Critical Reading (iii) Engagement in activities for different creative expressions in group and in individual involving critical awareness, probing into and exploring the society and the world around, structured exercises for coordinating, enhancing and translating imagination into physical expression, situation building (IV) Individual and Group Presentation

**Evaluation scheme:** Grades and credits will be awarded on practical performance and participation for enthusiastically and democratically organising such activities and demonstrating ability to use the learned ideas into practice, ability to design and undertake dramatics and other art forms in education and develop justifiable evaluation criteria so as to become able leaders for promoting co-curricular activities in the schools.

### **Practicum:**

1. Select a concept from the school curriculum which includes a social message and identify an appropriate art form to spread the message in public and prepare a report.
2. Identify a local art form and integrate it in teaching an appropriate lesson from school curriculum – Prepare a lesson plan
3. Select an appropriate lesson from the school curriculum and rewrite it in the form of a drama.
4. Organise a show on dance, music or dramas.
5. Organise curricular and cocurricular activity during the school visit.
6. Preparation of Scrap book.

### **Suggested Reading/References/Online resources**

- WWW- As per required websites for concern topic.
- U-Tube Channel/ Moocs/OER/E-Pathsala- As per topic/points
- ✓ Dewey, J. (1934). *Art as experience*. New York: Minton.
- ✓ Reed, H. (1968). *Education through art*. New York: Faber and Faber.
- ✓ Eisner, E. W. (1972). *Educating artistic vision*. New York: Macmillan.
- ✓ John, B., Yogin, C., & Chawla, R. (2007). *Playing for real: Using drama in the classroom*. New York: Macmillan.
- ✓ Jefferson, B. (1969). *Teaching art to children – Continental view point*. Boston: Allyn Bacon.
- ✓ Tagore, R. (1962). *Lectures and addresses*. New Delhi: Macmillan.
- ✓ Coomaraswamy, A. K. (1974). *Christian and oriental philosophy of art*. New Delhi: MunshiramManoharlal.

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**COURSE SI 2: SCHOOL VISIT–II (UPPER PRIMARY TO HIGHER SECONDARY)**

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**COURSE OBJECTIVES**

**MARKS: 50 | CREDITS: 2 | 2 weeks**

To help the prospective teachers to:

- understand different types of interaction going on in an actual classroom
- be able to reflect various skills in an integrated fashion
- have a critical reflection on how to be an effective teacher
- get acquainted with various types of school activities and their role in education process

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After an exposure to the school system as a whole, the second phase of school visit purports to bring the prospective teachers in close observation of the actual classroom teaching in various kinds of schools. While they are practising the teaching skills, newly introduced to them, they are expected to observe the teaching strategies adopted by the school teachers, their classroom management strategies to understand the factors leading to effective teaching. Moreover, it is expected that they observe the innovations, styles, and effectiveness of teaching to incorporate in their own teaching. They may also see the laboratory activities and other co—curricular activities related to their subject. They are expected to present a report of their observation and reflection on the following points:

- Methodologies used
- Nature and Level of student—teacher interaction
- Student participation
- Resources used
- Whether constructivism followed
- Student interest
- Innovations
- Student motivation for higher order thinking
- Issues of discipline, homework, evaluation
- Nature of Lab work and student-teacher interaction in lab
- Any other relevant aspect related the subject chosen

This phase also gives scope to the students to visit various schools that are different in nature than the normal schools, for example, innovative schools, vocational schools, schools for orphans and marginalised sections, adult schools, special schools, etc. This is expected to widen their view of education, understand various requirements in educational sector, appreciate the leadership of educationists working in such different sectors and look into themselves to be prepared for such services.

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## COURSE PTS: PRACTICING TEACHING SKILLS

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### COURSE OBJECTIVES

MARKS: 100 | CREDITS: 4 | 8

Hrs./wk

To help the prospective teachers to:

- understand the significance of various skills that the teachers may use for making teaching effective
- analyse the use of various skills part by part and focus on mastering them
- integrate them in their teaching for effective communication and classroom learning

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This will be a hands-on practice session for the basic teaching skills in a small peer group simulated condition. It is expected to break the inertia among the prospective teachers and build up confidence on the fundamental processes of teaching within the classroom interaction situation. The prospective teachers will be expected to think over, plan and practice some of the basic skills required for an effective teaching-learning to ensure active student participation in the learning process. Some of the skills to be practiced are the following:

- Framing instructional objectives for different approaches of teaching
- Exposing or introducing a new topic or theme for learning and connecting with previous knowledge by engaging the students into some physical or mental activity
- Exploring and developing any concept with the help of students
- Explaining a concept to the students drawing appropriate examples in various subject areas
- Appropriate Questioning for ensuring active participation of all
- Assessing learners and encouraging higher level thinking through appropriate probing
- Making students explain their own learning
- Creating situations for students to extend or elaborate their learning to new situations
- Evaluating learning and helping students to assess their own learning
- Motivating students
- Handling teaching aids
- Working on Blackboard : basics, developing concept maps or diagrammatical structures

## **COURSE C36: ASSESSMENT & EVALUATION**

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### **COURSE OUTCOMES**

MARKS: 100 | CREDITS: 4 | 6 Hrs./wk

After completing the course, B.Ed. III Semester students will be able to -

- Co-compare measurement, assessment and evaluation
  - Co-Explain various issues in assessment and evaluation.
  - Co-implement trend in assessment and evaluation for examine the learners.
  - Co- differentiate the use of various assessment tools.
  - Co-execute various data analysis technique for reporting learner performance.
- 

### **UNIT 1: OVERVIEW OF ASSESSMENT AND EVALUATION**

- Measurement, Assessment and Evaluation: Concepts; Differences
- Clarification of the terms- Appraisal, Test and Examination,
- Distinction between 'Assessment of Learning-' (summative) and 'Assessment for Learning'- (formative)
- Instructional objectives in three domains- cognitive, psychomotor and affective

### **UNIT 2: RECENT TRENDS IN ASSESSMENT AND EVALUATION**

- Marking and Grading System. Semester System. Open Book Examination System. On Demand
- Examination. Online Examination. Choice Based Credit System (CBCS)
- Continuous and comprehensive assessment (CCE).

### **UNIT 3: ASSESSMENT OF SUBJECT-BASED LEARNING**

- Assessment tools
- Kinds of tasks: projects and assignments
- Kinds of Achievement tests and their constructions (teacher made, standardized)
- Quantitative and qualitative aspects of assessment: Appropriate tools for each (in brief).

### **UNIT 4: DATA ANALYSIS, FEEDBACK AND REPORTING**

- Graphical representation of data; Types of Graphs & its use.
  - Measures of Central tendency( in brief)- Comparison of Mean, Median and Mode. Selection of appropriate average for use.
  - Percentile & percentile rank –calculation and uses
  - Types of teacher feedback (written comments, oral); Peer feedback
  - Developing and maintaining a comprehensive learner profile; anecdotal records, progress reports, portfolios, rubrics
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**MODE OF TRANSACTION:** Lecture, discussion, power point presentations.

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**PRACTICUM:**

- Preparation of a rubrics/ portfolio/anecdotal record
  - Preparation of a teacher made test
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**Suggested reading:**

Asthana, Bipin & Agrawal,R.N.: Measurement and Evaluation in Psychology and Education, VinodPustakMandir, Agra.

Bloom & Krathwohl Taxonomy of Educational Objectives Handbook II, Affective Domain, 1964

Ebel, R.L. Essentials of Educational Measurement; Prentice Hall, New Jersey, 3rd Ed. 1979

Anastasi A. Psychological Testing (4th edition), New York, McMillan Pub Co, 1976

Bhargav, M. MapanEvamMulyankan, Bhargav Publication

Cronbach L J. Essentials of Psychological Testing (3rd edition), New York, Harper & Row publishers, 1970

Edwards A. L. Techniques of Attitude Scale Construction, Bombay, Feiffer & Simens private Ltd, 1975

Freeman F. S. Theory and Practice of Psychological Testing, (3rd Ed.), New Delhi, Oxford & IBH Pub. Co., 1976

Gupta, S.P. MapanEvamMulyankan, New Delhi, ShardaPrakashan

Harper (Jr.) A. E. & Harper E.S.Preparing Objective Examination, A Handbook for Teachers, Students and Examiners, New Delhi, Prentice Hall, 1990

Linn, R.L. & Gronlund, N.E.Measurement and Assessment in Teaching, Pearson Education pvt. Ltd. (Singapore), Indian Branch, 482 F.I.E.,Patpanj, Delhi, 110092, India.

- WWW- As per required websites for concern topic.
- U-Tube Channel/ Moocs/OER/E-Pathsala- As per topic/points

Books- As per standard of content

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**COURSE P3AP: PEDAGOGY–II (A)– PHYSICAL SCIENCE**

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**COURSE OUTCOMES**

**MARKS: 50 | CREDITS: 2 | 3 Hrs./wk**

**To facilitate the B.Ed. Third Semester students to be able to:**

- CO 1. Critically reflect upon Physical science curricula and co-curricula in schools
  - CO 2. Identify various possible teaching-learning resources to be used in instructional planning for various purposes
  - CO 3. Critically analyse and reflect upon the suitability of school textbooks of physical science and to select, and effectively use textbook as a resource
  - CO 4. Use popular media in curricular and cross-curricular purposes
  - CO 5. Identify and meaningfully organize co-curricular activities related to physical science
  - CO 6. Plan, design and provide effective laboratory experience for operant and exploratory experimentation and learning
  - CO 7. Develop various strategies on different dimensions of evaluation
  - CO 8. Diagnose students' misconceptions through various techniques
- 

**UNIT I: PHYSICAL SCIENCE CURRICULUM**

- Understanding the structure of school curriculum and syllabus in the context of Physical Science (thematic and topical designs; elements of subject content, skills, attitudes; integrated curriculum, cross curricular scope, and other issues)
  - Critical study of the School Curriculum of Science and syllabus in reference with Physical sciences at Secondary level as per NCF-2005 (discussion should bring in comparison with the same curricula given by various national, state and international agencies)
- 

**UNIT II: CURRICULAR RESOURCES FOR TEACHING-LEARNING PHYSICAL SCIENCE**

- Role of Textbook and suitable structure of its contents (along with text, examples, diagrams, etc.), evaluation components and language, Criteria of a good textbook as a potential resource in Indian context
  - Physical science laboratory: Design, basic requirements; Conducting experiments: shift from confirmatory to exploratory approach, safety measures
- 

**UNIT III: EXTENDED RESOURCES FOR TEACHING-LEARNING IN PHYSICAL SCIENCE**

- Co-curricular activities in physical science: meaning of co-curriculum, role & planning of CCA
  - Popular media (like, News Papers, etc.) as a resource for popularisation of science (in contexts like, major scientific issues across the nations, indigenous sciences, contemporary scientists, scientific literacy and scientific communication, etc.)
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#### **UNIT IV: EVALUATING STUDENTS LEARNING IN PHYSICAL SCIENCE**

- Dimensions of evaluation in physical science; Subjective and objective type evaluation, Preparing blue–print for teacher made tests; technology assisted tools for assessment
  - Understanding students’ Misconceptions in science learning; Role of language, daily life experience, teaching–learning experience, diagnosing misconceptions (through tools like questionnaire, concept maps, concept cartoons, etc.)
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#### **COURSE WORK/FIELD ENGAGEMENT/PRACTICUM:**

- Critical analysis of the school textbooks of CBSE and state boards
  - Critical Analysis of a given Text Book
  - Design and plan for a co–curricular activity for a particular class and simulate
  - Preparing objective and subjective items for achievement testing
  - Preparing online tests for assessments
  - Designing diagnostic tool to identify misconceptions
  - Case–study for explaining misconceptions
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**MODE OF TRANSACTION:** Lectures, Video clips, Discussion, Small group activity/projects, Demonstration, Workshop, Interaction with resource persons in the field, Assignment, Collaborative readings on identified topics, through online learning management systems (blended mode) if required

#### **Suggested Readings:**

- 
- Abell, Sandra K. & Lederman, Norman G. (2007) Handbook of Research on Science Education, Volume 1, Psychology Press,
  - Angela Di Michele Lalor (2016) Ensuring High-Quality Curriculum: How to Design, Revise, or Adopt Curriculum Aligned to Student Success, Alexandria: Virginia: ASCD,
  - Braund, Martin. (2012). Performing Science: Teaching physics, chemistry and biology through drama..
  - Das, R.C. (2007) *Science Teaching in Schools*. New Delhi: Sterling Publishers Private Limited.
  - Department of Gender Studies, NCERT () Analysis of the Textbooks of Assam, Bihar, Chhattisgarh, Gujarat, Haryana, Himachal Pradesh, Odisha, Maharashtra, Manipur and Rajasthan: An Overall Report
  - Driver, R., Squires, A., Rush worth, P. and Wood- Robinson, V. (2006) Making Sense of Secondary Science: Research into Children’s Ideas, London: Rutledge Palmer.
  - Eilam, B. & Gilbert, John K. (Eds.) (2014) Science Teachers’ Use of Visual Representations. Switzerland : Springer International Publishing
  - Gibbs, K. (2011) The New Resourceful Physics Teacher: Creative Ideas and Experiments for Physics Teaching, Schoolphysics Publications
-

- Gupta, A. (1978) New UNESCO source book for science teaching . New Delhi: Oxford & IBH Publishing house. <http://www.arvindguptatoys.com/arvindgupta/unesco-source-new.pdf>
- Heywood, D. & Parker, J. (2010) The Pedagogy of Physical Science (Contemporary Trends and Issues in Science Education) Springer
- Kalra, R. M. (2008) Science Education for Teacher Trainees and In-service Teachers: Learning to Learn Modern Science, New Delhi: PHI Learning Pvt. Ltd.,
- Kerkhoven, A.H., Russo,P. Land-Zandstra, A.M., Saxena, A and Rodenburg, F. J. (2016) Gender Stereotypes in Science Education Resources: A Visual Content Analysis. PLoS One. 11(11). doi: 10.1371/journal.pone.0165037
- Lagu, R. G. (Eds.) (2007) Experiments are fun, Oxford University Press.
- Lagu, R. G. (Eds.) (2009) How and why in Science : Senior series Book 2, Oxford University Press
- [Lalor](#), Angela Di, M. (2016) Ensuring High-Quality Curriculum: How to Design, Revise, or Adopt Curriculum Aligned to Student Success, Alexandria: Virginia: ASCD,
- Lattery, M. J. (2016) Deep Learning in Introductory Physics: Exploratory Studies of Model-Based Reasoning (Science & Engineering Education Sources), Charlotte NC: Information Age Publishing
- Liu, X. (2010) Essentials of Science Classroom Assessment: SAGE Publications, 2010
- Mangal, S. K. (2019) *Pedagogy of Physical science*, New Delhi: Arya Book Depot
- Mishra, K. K. (2004) Vigyan: Maanav kii Yashogatha, the Hindi version of Science:" A Human Saga" , Mumbai: HBCSE (TIFR)
- Mishra, K. K. (2006) Lok-Vigyan: Samakaleen Shaikshik Rachanayen, HBCSE (TIFR), 152pp.
- Mohan, Radha, (2019) *Innovative Science Teaching: For Physical Science Teachers*. New Delhi: PHI Learning Pvt. Ltd.
- National Council of Educational Research & Training (2013), Pedagogy of Science: Physical science (Part-I & II) – Textbook of B.Ed., New Delhi: NCERT, [http://www.ncert.nic.in/departments/nie/desm/publication/pdf/phy\\_sci\\_partI.pdf](http://www.ncert.nic.in/departments/nie/desm/publication/pdf/phy_sci_partI.pdf)
- National Council of Educational Research & Training NCERT (2006) National Curriculum Framework : 2005, New Delhi: NCERT
- National Council of Educational Research & Training NCERT, (2005). Position Paper: National Focus Group on Teaching Science, NCERT: New Delhi
- National Council of Educational Research & Training NCERT, (2006) Position Paper: National Focus Group on Exam Reforms, New Delhi: NCERT. [http://www.ncert.nic.in/new\\_ncert/ncert/rightside/links/pdf/focus\\_group/examination\\_reforms.pdf](http://www.ncert.nic.in/new_ncert/ncert/rightside/links/pdf/focus_group/examination_reforms.pdf)
- National Council of Educational Research & Training NCERT, (2006) Position Paper: National Focus Group on Teaching of Science, New Delhi: NCERT [http://www.ncert.nic.in/new\\_ncert/ncert/rightside/links/pdf/focus\\_group/executive\\_summary.pdf](http://www.ncert.nic.in/new_ncert/ncert/rightside/links/pdf/focus_group/executive_summary.pdf)
- National Research Council. (1997) *Science Teaching Reconsidered: A Handbook*. Washington, DC: The National Academies Press. <https://doi.org/10.17226/5287>



- Neidorf, T. (2019) Student Misconceptions and Errors in Physics and Mathematics. Springer Nature ISBN 3030301885, 9783030301880
- Osborne, J.& Dillon, J. (Eds.) (2010). Good practice in science teaching: What research has to say, Philadelphia: Open University Press
- Park, Y. (2004) Teaching and Learning of Physics in Cultural Contexts: Proceedings of the International Conference on Physics Education in Cultural Contexts : Cheongwon, South Korea, 13-17 August 2001, Korea: World Scientific
- Parkinson, J. (2002). Chapter-1. Learning to Become an Effective Science Teacher. In Reflective Teaching of Science 11-18: Continuum Studies in Reflective Practice and Theory. New York: Continuum. pp. 1-12.
- Rogers, B. (2018) The Big Ideas in Physics and How to Teach Them: Teaching Physics 11–18. Routledge,
- Ronen, I. (2018) Misconceptions in Science Education: Help Me Understand, Cambridge Scholars Publishing,
- Science curriculum resource handbook: a practical guide for K-12 science, Kraus International Publications, 1992 NCE curriculum
- Sharma, R.C. (2013). Modern Science Teaching .Dhanpat Rai Publishing Company Ltd. New Delhi, pp.168-250
- Sunal, D.W. (2019) Physics Teaching and Learning: Challenging the Paradigm, Charlotte NC: Information Age Publishing
- Tobin, K. (Ed.). (1993). The Practice of Constructivism Science Education. Hillsdale, New Jersey: Lawrence Erlbaum Associates, Inc.
- Trostli, R. (1995) Physics is Fun: A Sourcebook for Teachers Spiral-bound – Import, Octavo Editions
- Turner, T. & Dimatea, W. (1998) Learning to Teach Science in Secondary School, Routledge Publication, USA.
- UNESCO (1966) Source Book for Science Teaching: UNESCO: Paris.
- UNESCO (2015) UNESCO SCIENCE REPORT: Towards 2030, Paris: UNESCO Publishing
- UNESCO (December 2010) Guidelines for textbook review and analysis from a gender perspective. Geneva : UNESCO Publishing. <https://docs.iiep.unesco.org/peic/2748.pdf>
- UNESCO Institute for Statistics. (2015) Women in Science. Available: <http://www.uis.unesco.org/ScienceTechnology/Documents/fs34-2015-women%20in%20science-en.pdf>
- Vaidya N. (1999) Science Teaching for the 21st Century, Deep and Deep Publishers.
- Wellington, J. & Osborne, J. (2001) Language and literacy in science education. Philadelphia: Open University Press
- Wellington, J. (2004) Teaching and Learning Secondary Science – Contemporary Issues and Practical Approaches, London: Routledge
- Yadav, M.S. (2002) Teaching of Science, Amol Publications.
- <http://unesdoc.unesco.org/images/0019/001914/191425e.pdf>
- [http://cbseacademic.nic.in/web\\_material/CurriculumMain20/SrSecondary/Physics.pdf](http://cbseacademic.nic.in/web_material/CurriculumMain20/SrSecondary/Physics.pdf)
- <https://www.youtube.com/watch?v=wcf0pZzUjEs>

- <https://www.youtube.com/watch?v=rLJ16LQ2t5c>
  - <https://www.youtube.com/watch?v=MYuh5yErdfA>
  - <https://www.youtube.com/watch?v=FbaXQ8u6IP8>
  - [http://phys205.physics.tamu.edu/WebPageDocuments/Article\\_UsingInquiry.pdf](http://phys205.physics.tamu.edu/WebPageDocuments/Article_UsingInquiry.pdf)
  - [http://sbcf.fr/docs/The\\_Teaching\\_of\\_Science-Ch\\_7\\_march2011-Bybee.pdf](http://sbcf.fr/docs/The_Teaching_of_Science-Ch_7_march2011-Bybee.pdf)
  - <http://unesdoc.unesco.org/images/0019/001914/191425e.pdf>
  - <https://www.youtube.com/watch?v=5gdSZorjKSQ>
  - <https://www.youtube.com/watch?v=4-1JvVCWtIg>
  - <https://www.youtube.com/watch?v=BnlCQ45f7KM>
  - <http://www.wisd.org/users/0001/docs/GVC/5E%20Model.pdf>
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## **COURSE P3AS: PEDAGOGY–II (A) SOCIAL SCIENCE**

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### **COURSE OUTCOMES**

**MARKS: 50 | CREDITS: 2 | 3 Hrs./wk**

B.Ed. Third Semester Students will be able to –

- CO-develop social concerns and citizenship education
  - CO-develop the ability to construct test items
  - CO-develop evaluation ability in social science
  - CO-develop the ability to construct test items
  - CO-understand diagnosis and remedial teaching
- 

### **UNIT I: SOCIAL CONCERNS**

- Social concerns and issues
- Citizenship education
- Developing citizenship skill

### **UNIT II: EVALUATION IN SOCIAL SCIENCE**

- Meaning and Types of Evaluation in Social Science
- Evaluation techniques- Observation, Checklist, rating scale, anecdotal record etc.

### **UNIT III: SOCIAL SCIENCE TEST ITEMS**

- Teacher made paper and pencil test  
-Essay and objective type test items
- Preparing Blue print and Achievement Test

### **UNIT IV: DIAGNOSIS AND REMEDIAL TEACHING IN SOCIAL SCIENCE**

- Meaning of Diagnosis and Remedial Teaching
  - Objectives of Remedial Teaching
  - Methods and the Strategies of Remedial Teaching
- 

### **COURSE WORK/FIELD ENGAGEMENT/PRACTICUM**

- Preparing a diagnostic test
  - Organizing a remedial class based on the diagnostic test conducted
  - Prepare a blue print
  - Construct the test items to assess learning in social science
- 

### **Suggested Readings:**

- Balagopalan, S. Unity in Diversity: Diversity, Social Cohesion and the Pedagogical Project of the Indian State. In S. Vandiyar et al (eds.) Thinking diversity, building cohesion: a transnational dialogue on education, Amsterdam: Rozenburg Publications.
- Batra, P. (ed.) Social Science Learning in Schools: Perspective and Challenges, New Delhi: Sage.
- Bhattacharya, N. Teaching History in Schools: The Politics of Textbooks in India. History Workshop Journal. 67(1), 99-110.
- Billinge, M. et al. (eds) London: Macmillan  
Recollections of a revolution: Geography as spatial science,
- Bose, S. and Sardana, A. 'Teaching Economics in Schools', Economic and Political Weekly, August 9, 2008, pp 54-60.
- Carr, E. H. What is History? England: Penguin
- Chakravarty, U. Everyday Lives, Everyday Histories: Beyond the Kings and Brahmanas of 'Ancient' India', New Delhi: Tulika Books, Chapter on: History as Practice: Introduction, 16-30.
- Eklavya Samajik Adhyayan Shikshan: Ek Prayog, Hoshangabad: Eklavya.
- Geetha, V. et al. Textbook Regimes: A Feminist Critique of Nation and Identity, Tamilnadu. Nirantar: New Delhi
- George, A. and Madan, A. Teaching Social Science in Schools. Sage: New Delhi
- George, Alex M. Children's Perception of Sarkar: The Fallacies of Civics Teaching, Contemporary Educational Dialogue 1:2, 228-257 and published by Eklavya
- Hursh, W., D. and E. W. R. Democratic Social Education Social Studies for Social Change, New York: Falmer Press, Chapter 9: Not only by our Words: Connecting the Pedagogy of Paulo Freire with the Social Studies Classroom, 135-148.
- Jain, M. Social Studies and Civics: Past and Present in the Curriculum, Economic and Political Weekly, 60(19), 1939-1942.
- John Dewey School and Society, chapter on Social Science
- Kumar, K. Learning From Conflict. Orient Longman: Delhi pp. 25-41, 79-
- Mehlinger, Howard D. (ed.) UNESCO Handbook of Social Studies. France: UNESCO Publications.
- NCERT Social Science Textbooks for classes VI – XII. NCERT: New Delhi
- NCERT Position Paper National Focus Group on Teaching of Social Sciences. NCERT: New Delhi
- Paliwal, R. et al 'On Contextualization of Curriculum' Contemporary Education-dialogue, Learning Curve, APF, 200..
- Ross, E. Wayne (ed.) The Social Studies Curriculum: Purposes, Problems and Possibilities. Albany: State University of New York Press, Chapter 1: The Struggle for the Social Studies Curriculum, 17-36.
- Sunny, Yemuna. 'Experience and Science in Geography Education', Economic and Political Weekly, June 14, 2008, pp 45-49

**Learning Reference:**

- Web content
- You-Tube Channel/ Moocs/OER/E-Pathsala- As per topic/points

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## **COURSE P3 BM: PEDAGOGY–II (B) MATHEMATICS**

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### **COURSE OBJECTIVES**

**MARKS: 50 | CREDITS: 2 | 3 Hrs./wk**

The Third Semester Students will be able to:

CO- Identify various possible teaching-learning resources to be used in instructional planning for various purposes.

CO- Critically analyzes and reflects upon the suitability of school textbooks of Mathematics.

CO- Use popular media in curricular and cross-curricular purposes.

CO- Identify and meaningfully organize co-curricular activities related to Mathematics.

CO- Develop various strategies on different dimensions of evaluation.

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### **UNIT-I- MATHEMATICAL CONTENT AND ITS INSTRUCTIONS**

- Nature of content in mathematics
- Use of content in instructional design
- Content mastery and its maintenance

### **UNIT- II- INSTRUCTIONAL SKILLS OF MATHEMATICS TEACHERS**

- Meaning and content of instructional skill.
- Instructional Skill- Preparatory, Presentation and classroom management.
- Other Attributes- Regulatory, punctuality, Discipline and attitude towards teaching mathematics.
- Meaning and concept of CCE in mathematics

### **UNIT- III- COMMUNICATION IN MATHEMATICS TEACHING**

- Meaning and concept of communication components.
- Types of Communication in mathematics class- verbal and Non-verbal
- How to make effective mathematics teaching through communication
- Construction and concept of Achievement test- preparation of blue print

### **UNIT- IV- COMPUTER IN MATHEMATICS TEACHING**

- Basic Introduction of computer- CPU, Memory, Input- Output, Hardware and Software
- Interpretation of mathematical data through computer
- Preparation of tables through computer
- Types of questions- Subjective type and Objective type

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**PRACTICUM:** 1-Construction of CAI in mathematics for secondary students.

2- Preparation of three lesson plan of mathematics teaching through computer.

3- Preparation of evaluation sheet for CCE.

4-Conducting of Action Research for selected problems.

5-Development and tryout of Teaching-learning strategy for teaching of particular Mathematical concepts.

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### **Suggested Reading:**

Kulshreshtha,

A.K. Teaching of Mathmatics , Meerut. R L Book Depot

Fuch, W.R. Mathematics for modern mind, New york: McMillan& comp.  
Clements D.H. Computer in early and primary education-, Prentice Hall,  
Saxena N.R.S. and Oberio S.C., Technology of Teaching- Meerut R. LAl.Book Depot.  
Molenda Michel, Russel, J.D. et al Instructional media and the new technology of Instruction-:  
Mcmillan Publishing company, New york.  
Sharma, R.A. Technology of Teaching- Meerut, R. Lal Book Depot.  
Devnani K.K. Make Computer your Friend (Learning Computer). Agra. Part. IV  
friend publication.

WWW- As per required websites for concern topic.

YouTube Channel/ Moocs/OER/E-Pathsala- As per topic/points

Books- As per standard of content.

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## **COURSE P3BB : PEDAGOGY–II (B) BIOLOGY**

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### **COURSE OBJECTIVES**

**MARKS: 50 | CREDITS: 2 | 3 Hrs./wk**

the B.Ed. III semester students will be able to:

- CO1 explain the principles of learning and the contemporary views on learning.
  - CO2 use the different community resources in biology.
  - CO3 explain the importance of planning field visits to different natural and manmade habitats.
  - CO4 Differentiate between the process skills in science
  - CO5 Organize biology laboratory and explain its importance in biology teaching.
  - CO6 Plan development of scientific attitudes in learners.
  - CO7 Construct appropriate assessment tools for evaluating learning of biological science.
- 

### **UNIT I PSYCHOLOGY OF LEARNING AND TEACHING OF BIOLOGY**

- principles of learning
- \*How students learn? contemporary perspectives on learning: Dewey, Ausubel, Bruner, Piaget, Vygotsky and constructivist view of learning (**brief**)

### **UNIT II ENRICHMENT OF BIOLOGY EDUCATION**

- \* Planning field visits, Zoo, Sea shore life, Botanical garden, etc. Science club.
- Identification and use of learning resources in biological science from immediate environment and community resources, Using community resources for biology learning; pooling of learning resources in school complex/block/ district level; Handling hurdles in utilization of resources.

### **UNIT III: LABORATORY RESOURCES IN BIOLOGICAL SCIENCE**

- Setting up of Biology Lab: Need, Guidelines for organizing practical work, safety precautions to be followed while working in a lab, assessment of laboratory work.
- Development and use of science kit.

### **UNIT IV: EVALUATION OF CHILDREN'S LEARNING**

- Changing trends in evaluation, concept and need in reference to constructivist classroom.
  - \* Preparation of blueprint and preparation of different test items in biology, concept of teacher made achievement test, diagnostic and remedial test in biology. Modern assessment tools (rubrics, portfolios, online tools)
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**MODE OF TRANSACTION:** lecture cum discussion, Demonstration, group activity/projects, presentation by students, flipped and blended mode learning as & when required.

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### **PRACTICUM**

- Preparation of a report on the biology lab of the school, visited by the student during internship.
  - Preparation of a question bank.
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- Constructing a diagnostic test. (\* topics will be dealt under practicum)
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**Suggested readings:**

Bremmer, J.	Teaching Biology
Carin, R.A.	Teaching Science through discovery
Green, T.L.	Teaching of Biology in Tropical Secondary Schools
Miller, D.F. and Blaydes, G.W.	Methods and Materials for Teaching Biological Sciences
UNESCO	New Trends in Biology Teaching
Mangal, S.K.	Teaching of Biological Sciences, Agra book Depot.
Sounders	The teaching of Gen. Science in Tropical Secondary Press London School, Oxford
Kulshrestha, S. P	JeevVigyanShikshan ,Lyal Book Depot, Meerut
Rawat, D. S.	Vigyanshikshan, VinodPustakMandir, Agra.
UNESCO	Essential of learning in Environment.
NCERT, (2006).	<i>National Curriculum Framework-</i> 2005, NCERT. New Delhi.
NCERT, (2005).	<i>'Focus Group Report' Teaching of Science</i> NCERT New Delhi.

Webliography

<https://nroer.gov.in/home>

[https://onlinecourses.swayam2.ac.in/nou22\\_ed04/preview](https://onlinecourses.swayam2.ac.in/nou22_ed04/preview)

[https://onlinecourses.swayam2.ac.in/nou22\\_ed03/preview](https://onlinecourses.swayam2.ac.in/nou22_ed03/preview)

<https://epgp.inflibnet.ac.in/>

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**COURSE P3BE: PEDAGOGY–II (B) ENGLISH**

**COURSE OUTCOMES**

**MARKS: 50 | CREDITS: 2 | 3 Hrs./wk**

B.Ed. Third Semester students will be able to:

- CO-explain the characteristics and principles of curriculum construction
- CO- develop the understanding of the qualities and role of English language teacher
- CO-organize co-curricular activities in English language teaching
- CO-implement continuous and comprehensive evaluation (CCE)
- CO-analyze the process of evaluation and assessment

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**UNIT I: SCHOOL CURRICULUM**

- Curriculum of English Language: characteristics and principles of curriculum construction
- Text Book of English Language: Criteria of good text book

**UNIT II: ENGLISH LANGUAGE TEACHER AND COCURRICULAR ACTIVITIES**

- Qualities of English Language teacher
- Role of English language teacher in teaching learning process
- Need of English teacher association for professional development
- Co-curricular activities in English language teaching; class magazine, language games
- Role of English Language teacher in organizing co-curricular activities

**UNIT III: CONTINUOUS AND COMPREHENSIVE EVALUATION (CCE)**

- Diagnostic test: concept and importance
- Need and utility of remedial teaching
- Concept of continuous and comprehensive evaluation

**UNIT IV: EVALUATION AND ASSESSMENT**

- Evaluation of scholastic area
- Assessment of Co scholastic aspects of students learning
- Different types of tests; their advantages, limitations and suggestions for improvement

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**PRACTICUM**

- Preparation of diagnostic test for 8thstd.
- Prepare a report of co-curricular activities
- Prepare a text book of English Language for 9thstd. of state board/CBSE/ICSE/IB to develop students interest in Indian English writings.
- Prepare a class magazine through the use of ICT
- Prepare a report of constructing curriculum of English for 11th/12th std of CBSE to develop students social/moral understanding.
- Prepare a report on the success and failure of CCE in secondary school.

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**Suggested Readings/Learning References:**

- Krishnaswamy, N. & Krishnaswamy, Lalitha (2005) *Teaching English Approaches, methods and techniques*, Macmillan India Limited, Chennai.
- Nagaraj, Geetha (2012) *English Language Teaching Approaches, Methods, Techniques*, Orient Blackswan Pvt Ltd, New Delhi.
- Littlewood, William (2000) *Communicative Language Teaching*, Cambridge University Press.
- Chaturvedi, M.C. (1995) *Position of language in school curriculum in India*, New Delhi, NCERT.
- Hornby, A. S. *A guide to pattern and usage in English*, oxford university press.
- Jain, R. K. *Essential of English teaching*, Renulal Book Depot Meerut.
- Anderson, A. and Lynch, T. (1988) *Listening*, Oxford University Press, Oxford.
- Ur, Penny (1984) *Teaching Listening Comprehension*, Cambridge University Press, Cambridge.
- Bygate, M. (1987) *Speaking*, Oxford University Press, Oxford.
- Brown, G. and Yule (1983) *Teaching the Spoken Language*, Cambridge University Press, Cambridge.
- www- As per required websites for concern topic.
- You-Tube Channel/ Moocs/OER/E-Pathsala- As per topic/point

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**COURSE P3BH : PEDAGOGY-II (B) HINDI**

**उद्देश्य:**

**MARKS: 50 | CREDITS: 2 | 3 Hrs./wk**

- हिन्दी भाषा पाठ्यक्रम निर्माण के आधार, सिद्धांत एवं महत्व का वर्णन करेंगे
- निर्माणात्मक मूल्यांकन, अर्थ, संकल्पना एवं महत्व स्पष्ट करेंगे
- निकष संदर्भित एवं मानक संदर्भित परीक्षण अर्थ प्रकृति एवं महत्व की विवेचना करेंगे
- निकष संदर्भित एवं मानक संदर्भित परीक्षण निर्माण करेंगे
- निदानात्मक एवं उपचारात्मक परीक्षण का निर्माण एवं प्रयोग करेंगे

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**इकाई 1 : हिन्दी भाषा पाठ्यक्रम**

- पाठ्यक्रम का अर्थ एवं सम्प्रत्यय
- हिन्दी भाषा पाठ्यक्रम निर्माण के आधार, सिद्धांत एवं महत्व

**इकाई 2: हिन्दी भाषा शिक्षण में मूल्यांकन**

- समग्र मूल्यांकन, अर्थ, संकल्पना एवं महत्व
- निर्माणात्मक मूल्यांकन, अर्थ, संकल्पना एवं महत्व
- वस्तुनिष्ठ एवं विषयनिष्ठ मूल्यांकन

**इकाई 3: हिन्दी भाषा शिक्षण में परीक्षण**

- निदानात्मक एवं उपचारात्मक परीक्षण का अर्थ प्रकृति एवं महत्व
- निकष संदर्भित एवं मानक संदर्भित परीक्षण अर्थ प्रकृति एवं महत्व

**इकाई 4: हिन्दी भाषा में परीक्षणनिर्माण**

- विषयनिष्ठ एवं वस्तुनिष्ठ प्रश्न: अर्थ, महत्त्व एवं निर्माण
- नीलीछाया एवं प्रश्न पत्र (निदानात्मक एवं उपचारात्मक परीक्षण) निर्माण
- निकष संदर्भित एवं मानक संदर्भित परीक्षण निर्माण

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**COURSE WORK/FIELD ENGAGEMENT/PRACTICUM:**

- निकष सन्दर्भित एवं मानक सन्दर्भित परीक्षण(CRT&NRT)
- निदानात्मक एवं उपचारात्मक परीक्षण (CRT&NRT)
- नीलीछाया एवं प्रश्न पत्र निर्माण
- एक पुस्तक की समीक्षा

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**MODE OF TRANSACTION** संदर्भानुसार उपयुक्त शिक्षण विधि का प्रयोग

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**सन्दर्भसूची:-**

- भाई योगेन्द्रजीत, हिन्दीभाषाशिक्षण, विनोदपुस्तकमंदिरआगरा
- क्षत्रिय के0 मातृभाषाशिक्षण, विनोदपुस्तकमंदिरआगरा

- ललरमनबिहारी, हिन्दीशिक्षणरस्तोगीप्रकाशन, मेरठ
- रघुनाथहिन्दीशिक्षणविधि, पंजाब घरजालंधर
- शर्मा लक्ष्मीनारायण, भाषाशिक्षण की विधियाँ औरपाठनियोजन, विनोदपुस्तकमंदिरआगरा
- पाण्डेय श्रुतिकान्त. हिन्दी भाषा और इसकी शिक्षण विधियाँ पब्लिक लर्निंग प्राइवेट दिल्ली
- शुक्लरामचन्द्र, हिन्दीभाषाकाइतिहास, DPH नईदिल्ली
- भाषासम्प्राप्तिमूल्यांकन— के.जी.रस्तोगी
- नागरीलिपिऔरहिन्दीवर्तनी—अनन्तचौधरी
  - WWW- As per required websites for concern topic.
  - U-Tube Channel/ Moocs/OER/E-Pathsala- As per topic/points
  - Books- As per standard of content.

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## **COURSE EPC3: READING & REFLECTING ON TEXT**

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### **COURSE OBJECTIVES**

**MARKS: 50 | CREDITS: 2 | 4 Hrs./wk**

B.Ed. Third Semester students will be able to:

- CO-Develop reading comprehension
  - CO-Examine the pedagogy of reading and writing
  - CO - Analyze variety of texts for reading.
  - CO- Synthesize the relation of reading and writing
  - CO- Apply the best practices and strategies in their reading.
- 

### **ACTIVITY- I: READING COMPREHENSION**

- Language Skills: Listening, Speaking, Reading and Writing
- Reading comprehension: Need and importance
- Types of reading; Intensive and Extensive reading, Loud and Silent reading

### **ACTIVITY- II: PEDAGOGY OF READING**

- Levels of Reading- literal, interpretative, critical and creative
- Reading Techniques – Skimming and Scanning.
- Methodology of Reading

### **ACTIVITY-III: READING VARIETY OF TEXTS**

- Reading of variety of texts: empirical, conceptual, and historical work, policy documents, studies about schools, teaching, learning, and about different people's experiences of all of these
- Narrative texts, expository texts from diverse sources, including autobiographical narratives, field notes, ethnographies, etc.
- Importance of Different Texts in Curriculum

### **ACTIVITY-IV: READING, WRITING SKILLS AND BEST PRACTICES**

- Different types of reading skills and strategies
  - Combining reading and writing leads to the development of critical skills
  - Analyze of various text structures: these contribute to the comprehension of a text
  - Writing with sense of purpose and audience; writing within the context of other's ideas
- 

### **PRACTICUM**

- Workshop on reading variety of texts
  - Prepare a report on best practices in reading/writing texts with the help of ICT
  - Prepare a field note
  - Prepare pedagogical aspects of reading/writing
  - Draft a report on entire activities
  - Divide the group and provide one text and suggest students to make different interpretations
  - Design vocabulary games to enhance vocabulary
- 

### **Suggested Readings/Learning References:**

Bright, J. A., and McGregor, G. P. (1970). Teaching English as a Second Language. ELBS: Longman.

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Doff, A. (1988). *Teach English: Training Course for Teachers*. Cambridge: Cambridge University Press.

Hill, L. A., and Dobbyn, M. A. (1979). *Training Course, Trainer's Book*. London: Cassell.

Hubbard, P., and Hywel, J. et al.(1983). *A Training Course for TEFL*.Oxford University Press.

www- As per required websites for concern topic.

You-Tube Channel/ Moocs/OER/E-Pathsala- As per topic/point

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**COURSE PT: PSYCHOLOGICAL TESTING**

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**COURSE OBJECTIVES**

**MARKS: 50 | CREDITS: 2 | 4 Hrs./wk**

The Students of B.Ed Third semester will be able to

CO-Organise psychological testing on students

CO-Classify and Calculate data scientifically

CO-Interpret the results and provide guidance if needed in desired direction

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The prospective teachers are expected to understand the psychology of school students to help them understand their qualities and guide them for future prospects and solve their problems. They have to conduct minimum **five** of the psychological testing in the following suggested areas:

- **Interest**
- **Aptitude**
- **Intelligence**
- **Aspiration**
- **Fear and Anxiety**
- **learning**
- **attitude**
- **Adjustment**
- **Reading Disorder**
- The evaluation will be based on their detailed learning how to conduct the test, record and analyze the findings, which will take place during the classes' (classroom performance) and the students would be required to submit their records on that particular day. The prospective teachers would have to administer the test on different subjects and submit the brief reports separately during the end exam which will be followed by a viva-voce.



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**COURSE SI 3: SCHOOL INTERNSHIP–I (UPPER PRIMARY TO HIGHER SECONDARY)**

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**OBJECTIVES:**

**MARKS: 200 | CREDITS: 8 | 8 weeks**

The Prospective teachers, after this field experience, will be able to

- Understand the Broader concept of internship apart from the practice teaching.
- Participate in the various types of activities in internship, as members of the school
- Show competence in core teaching skills.
- Become a reflective teacher capable of self–regulating learning to teach

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In the two-year B.Ed. Programme, internship is professional preparation of a prospective teacher. The term internship refers to an arrangement under which a prospective teacher can acquire first hand experience as a teacher in situation closely resembling those in which s/he would be working upon entering the profession. It has been designed to provide each student with a comprehensive experience similar to actual teaching and working as a full time teacher in the cooperating schools in a block of 3<sup>rd</sup> and 4<sup>th</sup> semester. In this phase of Internship the students are engaged in teaching-learning process at allocated school for least eight weeks. It shall be planned and coordinated by Department of Education, GGV, in cooperation with one or more school system under the supervision of a teacher nominated by the Head of the department or by the Head of the practicing schools or by any experienced teacher nominated by concerned school principals.

In this phase of internship in this semester includes a wide variety of experiences in one or more schools but with a major focus on managing classroom teaching.

- *Teaching-I*
  - Teaching of Sub–I (40 marks)*
  - Teaching of sub–II (40 marks)*
- *Teaching-II*
  - Teaching of sub–I (60 marks)*
  - Teaching of sub–II (60 marks)*

-Prospective teachers are expected to plan and execute classroom teaching in both of their chosen subjects I and II. They are expected to take at least one lesson in a working day and complete within the duration of 8 weeks, minimum 50 classroom lessons with nearly equal weight on both the subjects.

-It is expected that the Prospective teachers will put effort to integrate various skills to create learning environment that generates scope of students' active participation in the learning process, scope of higher order thinking rather than rote learning and constant motivation for learning taking care of the existing individual differences.

-Every Prospective teacher is expected to reflect upon his teaching experience in detail after each day's teaching to critically analyse the strength, flaws and possible corrections or alternative pathways to her/his own strategies for successful fulfillment of instructional objectives under the guidance of supervisor.

**-Evaluation:** The evaluation of the performance of the prospective teacher will include her/his sincere efforts, novelty and variety in teaching as well as the records of gradual improvements throughout the total period which will be regularly monitored by the concerned Departmental supervisor, and will evaluate his/her Teaching I: Teaching of Subject-I and Subject-II(40 Marks for

each Subject). Teaching II: Teaching of Subject-I and Subject-II (60 Marks for each Subject), in which two lessons one from each will be observed and evaluated by a panel of teachers towards the end of the Internship programme.

## **COURSE CH47: SCHOOL MANAGEMENT AND LEADERSHIP**

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### **COURSE OUTCOMES**

**MARKS: 50 | CREDITS: 2 | 3 Hrs./wk**

**After completing the course, B.Ed. IV Semester students will be able to –**

- CO- Explain meaning, nature and concept of school leadership in a school complex.
  - CO- Classify the human and material resources in the given school.
  - CO- Compare the different types of school management i.e. CBSC and State Board schools.
  - CO-Summarize the the role, duties, personal and professional qualities of school principals and teacher.
  - CO- Plan the steps of decision making in the given situation
  - CO Compare the leadership styles of given school principals.
  - CO- Implement the theories of school leader in given situation.
  - CO- Implement distributed leadership in given situation.
- 

### **UNIT I: SCHOOL MANAGEMENT**

- Concept of Management; functions of management-planning, organizing, coordinating, staffing, directing and controlling.
- School as a system of human and man-made resources.
- Managing people (Human Resource) -teaching and non-teaching staff of school.
- Managing resources (Physical Resource) -rooms, furniture, library, etc.
- Managing Time-school timetable; types, needs, and importance.

### **UNIT II: ORGANISATIONAL COMMUNICATION AND DECISION MAKING**

- Meaning and concept of organizational communication and participants involved in the school management process.
- Importance of co-ordination and communication; essentials of effective communications for school managers and teachers.
- Steps and types of decision-making process.
- Need and importance of democratic decision making.

### **UNIT III: LEADERSHIP IN EDUCATIONAL ORGANIZATION**

- Meaning, concept and nature of leadership.
- Different styles of leadership.
- Teacher as a leader, innovator and social change agent.
- Leadership roles, duties and personal and professional qualities of head mater and school teacher.

### **UNIT IV: ENHANCING LEADERSHIP**

- Encouraging distribution of leadership in the school management process.
  - Supporting leadership effort in a school complex
  - Encouraging initial leadership training programme
- 

### **COURSE WORK/FIELD ENGAGEMENT/PRACTICUM**

- Identifying leadership qualities through inventories
  - Designing an effective school time-table and academic calendar in a given situation
-

- Developing fund planning and infrastructure development for a school building
  - Observation and maintain different types of registers for record maintaining
  - Organisational communication in a simulated condition on a given issue
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- U-Tube Channel/ Moocs/OER/E-Pathsala- As per topic/points
  - WWW- As per required websites for concern topic.
  - SWAYAM Course Materials: **1) Leadership And Governance In Higher Education.**
- 

**Suggested Readings:**

- Agrawal J. C. (2002). *Organization and practice of modern education*, Shipra Publication, Delhi.
- Anand W. P. *General principles of management for educational planner and administrators*, Paris, UNESCO.
- Burns, J. M. (1978). *Leadership*. New York: Harper and Row.
- Fred Luthens (1996). *Organisational Behaviour*, Tokyo, McGraw Hill, International Book Co.
- Goel, S. D. (1987). *Modern Management Techniques*, New Delhi: Deep and Deep, Publication.
- Kaushik, V., & S.R. Sharma (2004). *Education and Human Resources Development*, Anmol Publication Pvt., New Delhi.
- NIEPA (1971). *Modern Management Techniques in Educational Administration*. New Delhi: Asian Institute of Educational Planning and Administration.
- NIEPA (1986). *Educational Management in India*. NIEPA, New Delhi.
- Northhouse, P. G. (2010). *Leadership (5<sup>th</sup> Edition)*. New Delhi: Sage Publication.
- Middlehurst, R. (2012). *Leadership and management in higher education: A research perspective Maastricht school of management*. Kingston University UK.
- SeemaYadav (2005) *School Management and Pedagogics of Education*, Anmol Publication Pvt., New Delhi.
- Sharma, R. A. (2008). *Educational Administration and Management*. Meerut: R. Lall Book Depot.
- Snowden, P. & Gorton, R (2002) *School Leadership and Administration* (6<sup>th</sup> ed.) Boston: McGraw-Hill.

## **COURSE CH48: CREATING AN INCLUSIVE SCHOOL**

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**B,ed 4<sup>th</sup> semester students will be able to:** MARKS: 50 | CREDITS: 2 | 3 Hrs./wk

- CO-To create the inclusive environment in the class and development of Inclusive Education.
  - CO-To critically analyze the Education Policy for Disabled Children.
  - CO-To create the Curriculum for differently able children
  - CO-To draw the Inclusive Classroom setting and teaching strategies.
  - CO-To evaluate the recent program for Inclusive Education.
- 

### **UNIT- I- PERSPECTIVES AND DEVELOPING ASPECTS OF INCLUSIVE EDUCATION.**

- Historical perspectives and contemporary trends of VI, HI and Intellectual disabilities.
- Viewing VI, HI, and Intellectual disabilities through Charity Model, Physical Model and Human right Model.
- Development aspects- Special Education, Integrated and Inclusive Education.
- Meaning and concept of Evaluation in inclusive setup.

### **UNIT- II- EDUCATIONAL POLICIES FOR DIFFERENTLY ABLE CHILDREN.**

- Educational Policies for differently able children- National Policy on education with disability 1968, 1986.
- Program of action (POA)- 1992
- National Policy on disabilities- 2006
- Scheme of inclusive education for the disable at secondary school (IEDSS-2009).

### **UNIT- III- CURRICULUM FOR DIFFERENTLY ABLE CHILDREN**

- Meaning and concept of curriculum.
- Curriculum in the context of different disabilities with reference- VI, HI and intellectual disabilities.
- Community based education curriculum for disable children.
- Documentation record keeping and maintenance about inclusive classroom setup.

### **UNIT- IV- INCLUSIVE CLASSROOM AND TEACHING STRATEGIES**

- Concept of inclusive Classroom with reference to- Infrastructure, Human resources; attitude of teachers.
  - Classroom setting- Management for differently able children.
  - Teaching Strategies- Content analysis, lesson planning and developing teaching learning materials (TLM).
  - Recent trend of Evaluation- CCE Pattern
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### **Practicum:**

Understanding classroom diversity and reporting the same.

Preparation of model to Use ICT for teaching in inclusive situation

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Preparation of a diagnostic test for inclusive Classroom.

Collection of data regarding children with special needs from Municipal records.

Visit to Inclusive Schools and to observe classroom transaction of any one of such schools in Bilaspurcity and make a report of the same.

Preparation of Lesson Plan, instruction material for teaching students with disability in inclusive school.

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**Suggested Reading.**

Panda, K.C. Exceptional Children

Bhargava, M. VishistBalak- H.P. Bhargava Book Publishers Agra.

Pathak, K.K. Inclusive Language and communication.-S.R. Publication New Delhi.

Shrivastava, D.N.&Shrivastava,P. Experimental Psychology, VinodPustakMandir Agra

Report of Kothari Commission, Education and National development.MHRD New Delhi.

MHRD Report of New Education Policy 1986 New Delhi.

- WWW- As per required websites for concern topic.

- U-Tube Channel/ Moocs/OER/E-Pathsala- As per topic/points

Books- As per standard of content

## **COURSE CH49: GENDER, SCHOOL AND SOCIETY**

### **COURSE OBJECTIVES**

**MARKS: 50 | CREDITS: 2 | 3 Hrs./wk**

After completing the course, B.Ed. IV Semester students will be able to –

- CO- Differentiate the sex and gender.
- CO- Interpret the concept of Gender Identity, Gender Discrimination, Gender Stratification, Patriarchy, Gender Bias, Gender Stereotyping etc. in the current situation.
- CO-Critique the concept history, and theories of feminism in the present context.
- CO- Critique the concept, history, and theories of masculinity in the present context.
- CO- Check awareness about violence against women in the given situation.
- CO- Comparing inequality based on gender in the curriculum, textbooks, classroom, and management of the school,
- CO- Plan gender-inclusive classroom teaching strategy.
- CO-Implementing learned strategies to remove the gender inequality and violence against women in the given context.

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### **UNIT I: GENDER: KEY CONCEPTS**

- Difference between Sex and Gender
- Social construction of Gender, gender socialization and Gender Roles.
- Gender Identity, Gender Discrimination, Gender Stratification, Patriarchy, Gender Bias, Gender Stereotyping, and its consequences.

### **UNIT II: GENDER AND SCHOOL**

- Gender bias in the school (enrolment, attitudes, etc.)
- Gender Issues in School (Sexual Abuse, Sexual Harassment etc.)
- Gender issues in curriculum, textbooks, classroom and management of the school.
- Creating Gender Inclusive Classroom.

### **UNIT III: GENDER AND SOCIETY**

- Construction of Gender Role (by Family, Religion, Culture, Media etc.)
- Women in India (Ancient, Vedic, Post Vedic, Medieval and Present India)
- Feminism: Concept, meaning, History and theories
- Masculinity: Concept, meaning, History and Theories

### **UNIT IV: SEXUALITY AND POWER**

- Sexuality: meaning, its relation with power
- Violence against women: Empirical Examples, Impact on the Lives of Women
- Strategies for Change: Policy and management in the school, Women's action groups and Mass media.
- Laws related to women, National women commission and other national and international agencies related to women.

### **COURSE WORK/FIELD ENGAGEMENT/PRACTICUM**

- Visit to institution working for women/Visit to online website of NCW and prepare a report on it.
  - Where gender discrimination is: an analytical study of a village.
  - Gender issues in school education – case studies
  - Develop an awareness programme related to gender issues
  - Analysis of a particular film/advertisement/ newspaper with respect to representation of masculinity or femininity.
  - Responding to various forms of gender discrimination
  - Writing a report of growth of boys and girls of a village
  - Develop a programme for women empowerment in the context of Indian society
- 

**MODE OF TRANSACTION: Lecture, Observation, field visit, a virtual visit to website, individual and group presentation, video lecture, and use of social media app.**

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Suggested Readings and Online Resources:

- Swayam ARPIT course material on Gender/Women Studies (Developed by Prof. Anisur Rahman, HRDC, Jamia Milia Islamia University, New Delhi)
- WWW- As per required websites for concern topic.
- U-Tube Channel/ Moocs/OER/E-Pathshala- As per topic/points
- Bandyopadhyay, M. & Subrahmanian, R. (April 2008). Gender equity in education: a review of trends and factors. Create Pathways to Access: research monograph no. 18. New Delhi: NUEPA.
- Bhattacharjee, N. Through the looking-glass: Gender Socialization in a Primary School in T. S. Saraswathi (ed.) Culture, Socialization and Human Development: Theory, Research and Applications in India. Sage: New Delhi.
- Ghai, A. Gender and Inclusive education at all levels In VedPrakash&K.Biswal (ed.) Perspectives on education and development: Revising Educationcommission and after. NUEPA: New Delhi
- Govinda, R. Towards Gender Equality in Education: Progress and challenges in Asia-Pacific Region, NUEPA, New Delhi.
- Jain, S. (2003). Gender equality in education Community based initiative in India. *Background Paper for the EFA Monitoring Report, 2003-04*. Gender and education for all: the leap to equality: 2004/ED/EFA/MRT/PI/28, Paris: UNESCO.
- Jeffery, P. et al Killing My Heart's Desire: Education and Female Autonomy in Rural India. in Nita Kumar (ed.) Women as Subjects: South Asian Histories. New Delhi: Stree in association with the Book Review Literacy Trust: Kolkata pp 125-171.
- Kamla, B. (2004) *Exploring Masculinity*. New Delhi: Raj Press.
- Kamla, B. (2003). *Understanding Gender*. New Delhi: Raj Press.
- Kumkum, R. (2010). *The power of gender & the gender of power*. New Delhi: Oxford University Press.
- Mehrotra, D.P.,(2012). India: Sexism and Patriarchy in the Textbooks, Good Girls are submissive and subsidiary Thursday 22 November 2012, South Asia Citizen's Web.
- NCERT [National Council of Educational Research and Training]. (2006): Gender in Education. National Focus Group. Position paper New Delhi: NCERT.



- Ramachandran, V. (2003) Gender Equality in Education in India. *Background Paper for the EFA Monitoring Report, 2003-04: gender and education for all: the leap to equality: 2004/ED/EFA/MRT/PI/59*, Paris: UNESCO.
- Ramachandran, V. (2009). Education for All Mid Decade Assessment Towards Gender Equality in Education. New Delhi: NUEPA.
- Wilson, D. (2003). Human rights: promoting gender equality in and through education. *Background Paper for the EFA Monitoring Report, 2003-04. Gender and education for all: the leap to equality: 2004/ED/EFA/MRT/PI/78*, Paris: UNESCO.
- WWW- As per required websites for concern topic.
  - U-Tube Channel/ Moocs/OER/E-Pathsala- As per topic/points
- Books- As per standard of content
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## **COURSE O41: PEACE EDUCATION**

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**B.Ed 4<sup>th</sup> semester students will be able to:** MARKS: 50 | CREDITS: 2 | 3

- CO- Explain the concept and ideas of various philosopher on peace education.
- CO- Recognize the relevance of peace education for humanity and to individual, national, and international development.
- CO- Execute various methods in order to establish peace in and around the educational institution.
- CO-Interpret be aware of knowledge, attitudes, and skills for culture of peace.
- CO-The philosophy of peace education and global concerns for peace.

### **UNIT I: INTRODUCTION TO PEACE EDUCATION**

- Peace Education-concept, Need in school education,
- Various philosophers on peace education: Vivekananda, Rabindranath Tagore, M.K.Gandhi, Aurobindo, J. Krishnamurthy

### **UNIT II: GLOBAL CONCERNS FOR PEACE**

- Challenges to peace and peace process in present scenario
- Socio-Psycho-Eco-Cultural causes, affects, and control of war and violence
- Role of UNO(UNESCO) in peace education and peace keeping around the world
- Indian contribution for establishing international peace

### **UNIT III: METHODOLOGY OF PEACE EDUCATION**

- Peace education at school level-
- Teacher's role in classroom
- Methods of teaching for peace education
- Learning of peace through activities
- Learning conflict resolution skills

### **UNIT IV: EDUCATION FOR PEACE**

- In the context of avoiding violent behavior and developing culture of peace in the society the education for-
- Sustainable development, Human rights
- Disarmament, knowledge-attitude-skills of peace
- Environment, Cross-cultural perspectives
- Democracy, Human values

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### **COURSE WORK/FIELD ENGAGEMENT/PRACTICUM**

- A group presentation on thoughts of peace education of various thinkers other than mentioned insyllabus

- Critical analysis of NCF 2005 in the context of peace education and presentation
- Preparing curriculum and content plan for effective initiation for promoting peace
- Designing co-curriculum for promoting peace initiatives
- Textbook analysis of different subjects for promoting education for peace

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**Suggested Readings:**

- UpadhyayPratibha. Education for Peace Utopia or Reality, KalpzPublication  
Sharma,Premala Modern Methods of Education For International Understanding,  
Swarup Sons, New Delhi.  
NCERT, Education For Peace ,National Focus group’s paper, first edition  
2006,NCERT,New Delhi.  
NCERT, Training Course on Peace Education for Teachers, Department of  
Educational Psychology and foundation of  
Education ,NCERT, New Delhi,  
CBSE, Value Education A Handbook For Teachers, CBSE, Delhi.  
SarojPanday, Peace Education Self Instructional Package for Teacher Educators,  
NCERT New Delhi..  
NCERT, (2005). Focus Group Report’ Teaching of Science NCERT New Delhi.  
NCERT, (2006). National Curriculum Framework- 2005, NCERT. New Delhi.  
Dr. B.R. Ambedkar, Bhagwan Buddha and his Dhammas, BAIAE, Japan, Digital  
Publication.  
Ambedkar,B. Bhagwan BudhaAourUnakaDhamma, Dr. BabasahebAmbedkarIntrenational  
Association, JapanPublication  
- WWW- As per required websites for concern topic.  
- U-Tube Channel/ Moocs/OER/E-Pathsala- As per topic/points  
Books- As per standard of content

## **COURSE O42: VOCATIONAL & WORK EDUCATION**

**COURSE OBJECTIVES**    **MARKS: 50| CREDITS: 2 | 3 Hrs./wk**

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B.Ed fourth semester students will be able to:-

- CO Critically analyse the vocational and work education.
  - CO Inculcate habits of Carrying out vocational assessment and make vocational education plan.
  - CO Acquiring the concept of independent living and empowerment.
  - CO Critically reflect upon various issues regarding curriculum and policies on vocational and Work Education at school education
- 

### **UNIT-I: WORK EXPERIENCE IN SCHOOL**

- Role of Work experience in school education: Working habits, Relating work habits with personality development and Social needs in the context of Modern India,
- Socially Useful Productive Work—concept and need

### **UNIT-II: WORK AND VOCATIONAL EDUCATION**

- Work Education and Vocational Education: concept and objectives; Historical perspective; Vocational Education vs. Vocational Training;
- System of Work Education and Vocational Education at different levels; current structure of vocational education

### **UNIT-III: CURRICULAR ISSUES**

- Work education: implementation, curricular options and management in schools; Issues of Evaluation;
- Vocational education: major challenges; National Vocational Education Qualification Framework (NVEQF)

### **UNIT-IV: POLICY INITIATIVES**

- Centrally Sponsored Scheme of “Vocationalisation of Secondary and Higher Secondary Education”;
  - Place of Vocational and work Education in National Curriculum Framework 2005; *National Skill Development Initiatives*
- 

### **COURSE WORK/FIELD ENGAGEMENT &/PRACTICUM:**

- Analysis of vocational/work education curricula at any level of central/state board
  - Developing curriculum on any vocational skill.
  - Administering any vocational assessment tool.
  - Visit to any vocational Institution.
  - Critical analysis of vocational education in Indian schools in Global perspective
- 

**MODE OF TRANSACTION:** Lecture Method, Project, Discussion, School-Visit.

**Suggested Readings:**

- DSEL, MHRD, Vocational Education, at <http://mhrd.gov.in/vocational-education-overview>
- Symbiosis Open Education Society (2011) Concept Note on Need for Vocationalisation of Education in India, at <http://www.scdl.net/downloads/vocationaluniversityconceptnote.pdf>
- Central Board of Secondary Education (2004) Work Education in Schools, CBSE: New Delhi at <http://cbse.nic.in/workeducation.pdf>
- The World Bank (2006, January) Skill Development In India: The Vocational Education And Training System, Human Development Unit, South Asia Region, The World Bank, at <http://info.worldbank.org/etools/docs/library/235724/skills%20development%20in%20india%20the%20vocational%20education%20and%20training%20system.pdf>
- UNESCO (2014) Vocational Pedagogy: what it is, why it matters and how to put it into practice: Report of the UNESCO-UNEVOC online conference, 12-26 May 2014 at <http://www.unevoc.unesco.org/go.php?q=Online+library&skin=&lang=&akt=id&st=&qs=5646&unevoc=1>
- MHRD, GOI, (2012) National Vocational Education Qualifications Framework (NVEQF), New Delhi at [http://mhrd.gov.in/sites/upload\\_files/mhrd/files/EXECUTIVE%20ORDER\\_new.pdf](http://mhrd.gov.in/sites/upload_files/mhrd/files/EXECUTIVE%20ORDER_new.pdf)
- Clarke, L and Winch, C (2008) Vocational Education: International Approaches, Developments and Systems, New York: Routledge
  - WWW- As per required websites for concern topic.
  - U-Tube Channel/ Moocs/OER/E-Pathsala- As per topic/points
  - Books- As per standard of content.

## **COURSE O43: LEGAL EDUCATION**

### **COURSE OUTCOMES**

**MARKS: 50 | CREDITS: 2 | 3 Hrs./wk**

The B.Ed. III semester students will be able to:

CO1 describe various offences and corresponding legal issues in the context of their expected professional life

- CO2 enumerate the offences against children and women, and their consequences
  - CO3 to enlist the measures to safeguard the rights and dignity of children and women
  - CO4 exemplify and analyze the legal issues related to use of media and freedom of speech
  - CO5 plan and generate methods to secure national integrity in and around their work place
- 

### **UNIT I: OFFENCE AGAINST CHILDREN**

- Child Rights, Violation of Child Rights and Offence against children—Legal issues and Consequences,
- Corporal punishment and Physical abuse: Legal issues and Consequences
- Issues of Horizontal and Vertical Reservation Policy

### **UNIT II: OFFENCE AGAINST WOMEN**

- protecting Dignity and life of a Women;
- Offence against women in workplace: Important Rights of Women (in primary context of workplace around a teacher) and their violation: Issues (particularly of indignity, discrimination, abuses) and the Consequences (in brief reference to The Sexual Harassment of Women at Workplace (PREVENTION, PROHIBITION and REDRESSAL) Act, 2013, and at least to IPC Sec. 294, 354, 509)

### **UNIT III: OFFENCES RELATED TO THREATENING OF NATIONAL INTEGRITY**

- Offences related to threatening of national integrity: various important aspects of such offences in relation to religion, region, caste, language, national security, etc.;
- Legal issues (in primary context of professional life of a teacher) and their Consequences IPC Sec. 153, 153A, 153B 295, 295 A, 298, 505

### **UNIT IV: OFFENCES RELATED TO EXPRESSION AND USE OF MEDIA**

- Issues of Freedom of speech and expression; Offences related to use of various media with special reference to cyber crime
  - Legal issues (in context of professional life of a teacher and use of media for expression of thought) and their Consequences (Referring to IPC Sec. 51, 67, 469, 499, etc.)
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### **COURSE WORK/FIELD ENGAGEMENT &/PRACTICUM:**

- Presentation on legal problems in educational institutes related to children, women, reservation, implementation of RTE, national integrity or use of media
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- Study on offences faced by women, Girl-child in educational context
  - Presenting a report on newspaper cuttings/online news on offences in the context of education
  - Preparing merit-list on the basis of reservation policy
  - Presentation on legal provisions of RTE
  - Presentation on the Legal issues related to Public Servants and their duties
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**MODE OF TRANSACTION:** lecture cum discussion, Demonstration, group activity/projects, presentation by students, flipped and blended mode learning as & when required.

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**Suggested Readings:**

Crime against Children at <http://ncrb.gov.in/CD-CII2012/cii-2012/Chapter%206.pdf>  
IPC and other Local & Special Laws Pertaining to Crimes Against Children at [http://mahilakalyan.up.nic.in/child/IPC\\_and\\_other\\_Local\\_n\\_Special\\_Laws.pdf](http://mahilakalyan.up.nic.in/child/IPC_and_other_Local_n_Special_Laws.pdf)  
The Protection of Children from Sexual Offences Act, 2012 at <http://pib.nic.in/newsite/PrintRelease.aspx>  
National Commission for Protection of Child Rights. Guidelines for eliminating corporal punishment in schools [http://www.ncpcr.gov.in/view\\_file.php?fid=108](http://www.ncpcr.gov.in/view_file.php?fid=108)  
Corporal Punishment: Violation of Child Rights in Schools at <http://www.legalservicesindia.com/articles/punish.htm>  
Child Rights and Law: a guidebook for legal interventions at <https://www.childlineindia.org.in/pdf/Law-Manual.pdf>  
National Commission for Women. Sexual Harassment of Women at Work Place Act 2013 at <http://ncw.nic.in/PDFFiles/SexualHarassmentofWomenatWorkPlaceAct2013.pdf>  
National Commission for Women. The Indecent Representation of Women Prohibition Act 1986 <http://ncw.nic.in/acts/TheIndecentRepresentationofWomenProhibitionAct1986.pdf>  
<http://ncw.nic.in/Acts/TheMinimumWagesAct1948.pdf>  
The Protection of Child Marriage Act at <http://ncw.nic.in/acts/pcma2006.pdf>  
critical-analysis-sexual-harassment <http://www.legalindia.com/critical-analysis-sexual-harassment-ipc/>  
Indian penal code at <http://www.childlineindia.org.in/CP-CR-Downloads/Indian%20penal%20code%201860.pdf>  
Cyber crimes and the law at <http://www.legalindia.com/cyber-crimes-and-the-law/>  
Indian penal code in hindi at <http://indiacode.nic.in/indiacodeinhindi/index.htm>  
Indian penal code at <http://www.cyberpolicebangalore.nic.in/pdf/Cyber%20law%20IPC.pdf>  
The Equal Remuneration Act, 1976 at <http://new.nic.in/frmReportLaws23.aspx>

Webliography

<https://nroer.gov.in/home>

## **COURSE EPC4: UNDERSTANDING THE SELF**

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### **COURSE OBJECTIVES**

**MARKS: 50| CREDITS: 2 |4Hrs./wk**

B.Ed. Fourth Semester Students will be able to:

- CO-develop an understanding of their own ‘self’ and ‘identity’ through a critical introspection
  - CO-develop an alert and sensitive personality capable of faithful rapport
  - CO-explore their creative ‘self’ and develop appreciation in creative pursuance for self-development
  - CO-appreciate yoga in converging body–mind–soul and in creating a fully functioning self
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### **WORKSHOP I: SELF AND IDENTITY**

Basic idea of Self and identity: multiple identity, Discovering personal ‘self’ and understanding the ‘identity’ as a teacher reflecting upon aspirations, conflicts, strengths, weaknesses, belief system and prejudices, cultural background; Self–concept, self–esteem, self–efficacy, particularly in the role of a school teacher; fully functional self

*Suggested mode of transaction: (i) Talks (ii) Critical Reading of inspirational texts (iii) Psychological testing*

### **WORKSHOP II: UNDERSTANDING OTHERS**

Listening and observing ‘Self’: Importance for a teacher to holistically understand human nature; becoming a good listener with faithful rapport; becoming an objective observer;

*Suggested mode of transaction: (i) Video clip/discussion/Activity on listening and observation skills, (ii) intrapersonal communication, (iii) one to one interaction for understanding human nature*

### **WORKSHOP III: CREATIVE EXPRESSION AND SELF DEVELOPMENT**

Exploration and Engagement in creative Expression of ‘self’: Understanding Creativity and its importance for human mind; Discovering the creative ‘self’ within in any form of creative endeavour; Putting persistent effort for adding novelty to the chosen form of creative task;

*Suggested mode of transaction: (i) talks (ii) Critical Reading of inspirational texts (iii) Activities and reflection for creative expression*

### **WORKSHOP IV: YOGA FOR SELF DEVELOPMENT**

Yoga for integrating body, mind and soul, appreciating the philosophy of yoga and practicing yoga and other meditative techniques

*Suggested mode of transaction: (i) talks (ii) Practical exposure to yoga*

### **Learning References:**

www- As per required websites for concern topic.

You-Tube Channel/ Moocs/OER/E-Pathsala- As per topic/point



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## COURSE SI 4: SCHOOL INTERNSHIP–II (UPPER PRIMARY TO HIGHER SECONDARY)

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### OBJECTIVES:

**MARKS: 200 | CREDITS: 8 | 8 weeks**

B.Ed fourth semester students will be able to

- Co Critically analyse the concept of internship apart from the practice teaching.
  - Co Organize the various types of activities in internship as a member of the school
  - Co Practice Various formats to be used in the teacher training programmes.
  - Co Exhibit various skills in teaching, evaluation, remedying, administrative activities, conducting co-curricular activities, studying students' and solving their problems, etc.
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In the two-year B.Ed. Programme, internship is the professional preparation of a prospective teacher. After focussing on the teaching aspects in the third semester (for 8 weeks), the last phase of school internship here is expected to prepare the prospective teachers for a holistic participation in the school situation. This will create a situation for the prospective teachers to undertake multiple job-roles of a teacher at a time and handle all of them with efficiency and commitment. This prepares them to feel the pressure and pleasure of performing multiple roles as a teacher, to feel how their participation makes a change among the learners and, thus, to develop a respect for the noble profession. The prospective teachers are expected to participate in teaching, evaluation, administrative tasks, conducting curricular activities, preparing learning material for catering students' needs as well as in a closer understanding of students in individual or in group through undertaking case studies, action research, etc. This phase of the school internship will again be of 8 weeks duration in the schools. The details of the tasks to be undertaken by the prospective teachers are as follows:

- **Case study/individual portfolio–(25 marks)** – Prospective teachers are expected to undertake this activity and complete it within the period. They may have a close observation on a single student or a small group during this period so as to produce a case study report or/and a portfolio reflecting a holistic understanding of these students. The aim is to bring the Prospective teachers as close as possible to the learners and their unique characteristics and their unique circumstantial problems. This in turn is expected to sensitise them about biological-psychological-social space of learners in which they are embedded and to enhance their self-efficacy as an effective problem solver as well as reflect upon maintaining an inclusive classroom situation and school ethos.
- **School participation–(25 marks)** – Prospective teachers are expected to participate in various school activities other than classroom teaching like the Morning assembly, conducting sessional tests, administrative works, etc. as and when allotted by the school and the teacher-in-charge.
- **Teaching and Subject assessment–(50 marks)**–Prospective teachers are expected to be able to assess comprehensively and continuously their students in both scholastic and co-scholastic dimensions of learning. This will include designing situations for diagnostic testing to assess learning and reflect upon the possible causes for it. This in turn will be an input for the remedial teaching designs as described in the preceding point. They are also expected to design the means for preparing strategies for assessing co-scholastic aspects and submit an evidence based detailed report.
- **Action research: (25 marks)**–The prospective teachers may identify some problem situation and undertake an action research to put effort to a practical solution for it. The aim is to bring the

Prospective teachers as close as possible to the learners and their unique characteristics and their unique circumstantial problems. This in turn is expected to sensitise them about biological–psychological–social space of learners in which they are embedded and to enhance their self–efficacy as an effective problem solver and as a teacher–a friend, philosopher and guide.

- **Administrative Work (attendance record/time table/ register/ stock/ exam duty, etc.)–(25 marks)** –Prospective teachers are expected to participate in the administrative functions also like a real teacher does in the school. This will include maintaining records like the attendance record, student record, registers, stock, etc. under the guidance of the school teachers. They should also participate in planning school activities through preparing different time tables and programmes. The overall experience through such participation during this phase is expected to prepare the prospective teachers for fulfilling various administrative responsibilities and inculcate leadership qualities.
- **Conducting morning assembly and CCA –(25 marks)**–Prospective teachers are expected to conduct morning assembly regularly during the period. They are expected to bring innovation to make the assembly an interesting activity for the students to participate and so to enhance student participation. They should regularly organise CCA in the school to enrich students with various art, literature and culture as a whole. They should take care to design such activities giving equal opportunity to all learners creating a multicultural ethos in the school system encouraging democratic thoughts and action. This will also include celebration of days of national or regional importance so as to acquaint the students of our vast cultural and national heritage.
- **Preparation of TLM–(25 marks)** Prospective teachers are expected to prepare at least two suitable Teaching Learning Materials, either in Hard or Soft form, on their own subject area. The materials should be justified in their use in the real situation. This may include model, working model, PPT presentation for higher level learning, Braille material, etc.