<u>SCHEME OF STUDY</u> DEPARTMENT OF EDUCATION; ST. XAVIER'S COLLEGE, RANCHI

SEMESTER – WISE COURSE DISTRIBUTION SEMESTER- I { Full Marks – 475}

Code	Subjects	Marks	Credit	Teaching	I.A.	Ex. A.	I.A	Ex.A	
				Hrs.	Marks	Marks	P.M.	P.M	
BEDC101	Paper-I	100 T	4+1	64+32	30	70	12	28	
BEDC101P	Education For	25 P	-	-	25	-	10	-	
	National								
	Development &								
	Social Change								
BEDC102	Paper-II	100 T	4+1	64+32	30	70	12	28	
BEDC102P	Learner &	25 P	-	-	25	-	10	-	
	Learning								
BEDC103	EPC-I	50T	2+1	32+32	15	35	6	14	
BEDC103P	Language Across	25P	-	-	25	-	10	-	
	Curriculum								
BEDC104	EPC-II	50T	2+1	32+32	15	35	6	14	
BEDC104P	Art & Aesthetic	25P	-	-	25	-	10	-	
BEDC105	EPC-III	50T	2+1	32+32	15	35	6	14	
BEDC105P	Health and	25P	-	-	25	-	10	-	
	Physical								
	Education								
Engagement	with the field credit	<u> </u>			<u> </u>	<u> </u>			
BEDC101P Paper-I					Credit 1 = 25 Marks				
	Danar – II	Creadity	Cradit 1 - 25 Marks						

BEDCIUIP	Paper-I	Credit 1 = 25 Marks
BEDC102P	Paper – II	Credit 1 = 25 Marks
BEDC103P	EPC – I	Credit 1 = 25 Marks
BEDC104P	EPC – II	Credit 1 = 25 Marks
BEDC105P	EPC – III	Credit 1 = 25 Marks

SEMESTER- II {Full Marks - 500}

Code	Subjects	Marks	Credit	Teaching	-	Ex. A.	I.A D.M	Ex. A
	D 111	1000	4.1	Hrs.	Marks	Marks	P.M.	P.M.
BEDC206	Paper-III	100T	4+1	64+32	30	70	12	28
BEDC206P	Classroom	25P	-	-	25	-	10	-
	Organisation							
	& School							
	Management							
BEDC207	Paper – IV(A)	50T	2+1	32+32	15	35	6	14
M1	Pedagogy of	25P	-	-	25	-	10	-
BEDC207	Subjects							
M1P	Part I							
	(Method I)							
BEDC207	Paper – IV (A)	50T	2+1	32+32	15	35	6	14
M2	Pedagogy of	25P	-	-	25	-	10	-
BEDC207	Subjects							
M2P	Part I							
17121	(Method II)							
BEDC208	EPC -IV ICT-	100T	4+1	64+32	30	70	12	28
BEDC208P	Part I, II	25P	-	-	25	-	10	-
BEDC209	Internship	100	4	64	100	-	40	-
	School							
	Programme							
	with the field cre	dit						
BEDC206P	Paper-III				Credit 1 = 25 Marks			
BEDC207M1P					Credit 1+1	= 25+25 N	1arks	
	Paper – IV (Par	t A- Metł	nod I and	II)				
BEDC207M2P								
BEDC208P	EPC – IV (ICT)				Credit 1 = 2	25 Marks		

SEMESTER- III {Full Marks - 575}

Code	Subjects	Marks	Credit	Teachiną Hrs.	g I. A. Marks	Ex.A. Marks	I.A P.M.	Ex.A P.M.	
BEDC310	Paper-V	100T	4+1	64+32	30	70	12	28	
BEDC310P	Teaching: Approaches & Strategies	25P	-	-	25	-	10	-	
BEDC311M1	Paper IV (B)	50T	2+1	32+32	15	35	6	14	
BEDC311M1 P	Pedagogy of Subjects Part II (Method I)	25P	-	-	25	-	10	-	
BEDC311M2	Paper IV (B)	50T	2+1	32+32	15	35	6	14	
BEDC311M2 P	Pedagogy of Subjects Part II (Method II)	25P	-	-	25	-	10	-	
BEDC312M1	School	100P	14	448	-	100	-	40	
BEDC312M1P	Internship	50P			50	-	20	-	
BEDC312M2		100P			-	100	-	40	
BEDC312M2P		50P			50	-	20	-	
Engagement wit	th the field cred	it							
BEDC310P	Paper – V			C	redit 1 = 25	Marks			
BEDC311M1P	Paper – IV (B) Method – I				Credit 1 = 25 Marks				
BEDC311M2P	Paper – IV (B)	Method –	·	C	Credit 1 = 25 Marks				

SEMESTER- IV {Full Marks - 450}

Code	Subjects	Marks	Credit	Teaching Hrs.	I. A. Marks	Ex. A. Marks	I.A P.M.	Ex.A P.M.	
BEDC413 BEDC413P	Paper-VI Assessment and Evaluation	100T 25P	4+1 -	64+32 -	30 25	70 -	12 10	28	
BEDC414 BEDC414P	Paper-VII Knowledge and Curriculum	100T 25P	4+1	64+32	30 25	70 -	12 10	28	
BEDC415 BEDC415P	Paper-VIII Creating an Inclusive School	100T 25P	4+1	64+32 -	30 25	70 -	12 10	28	
BEDC416 BEDC416P	EPC-V Art & Aesthetic	50T 25P	2+1	32+32	15 25	35	6 10	14 -	
Engagement	with the field o	redit	<u> </u>						
BEDC413P	Paper-VI							S	
BEDC414P	Paper-VII					Credit 1=25 Marks			
BEDC415P	Paper-VIII					Credit 1=25 Marks			
BEDC416P	EPC-V					Credit 1=25 Marks			

• Passing marks in Theory Paper is 40% and in Practical 40%.

{SEMESTER --I}

PAPER-I

		<u>FAFLIN-1</u>		
YEAR	I E	DUCATION FOR NATIONAL DEVELOPMENT AND	CREDIT	4+1
Semester	Ι	SOCIAL CHANGE	HOURS	64+32
OBJECTIVI	ES:	1. To understand the concept and aims of Education.		
		2. To develop understanding about the social realities of I	ndian society	and its
		impact on education		
		3. To learn the concepts of social Change and social trans	formation in r	elation to
		education	6 T 1	1.
		4. To know the different values enshrined in the constituti	on of India ar	nd its
		impact on education5. To identify the contemporary issues in education and it	aducational	
		implications	s educational	
		6. To understand the historical developments in policy fra	mework relate	ed to
		education		
		COURSE CONTENT / SYLLABUS		
	Conce	ept and Aims of Education		
		✓ Meaning of Education – Broader and Narrow		
		✓ Bases of Education		10
UNIT-I		\checkmark Aims of Education in contemporary Indian society		12
		✓ Determinants of Aims of Education		hrs.
		✓ Formal, non-formal and informal education		
		✓ Various Agencies of Education	· • •	
	Q	✓ Vocationalization, Privatization and value education	in India	
		Realities of Indian Society and Education		
	\checkmark	Rich Cultural Heritage - Diversity in Indian Society - Issues and concern in Relation to caste, Religion, Languag	a Dacion and	
		its impact on education.	e, Region and	
	\checkmark	Social Stratification and social change in education		12
UNIT-II		- Social stratification and its impact on education and v	vice-versa	hrs.
		- Concept of social change		
		- Factors of social change		
		- Role of education in the process of social change and	its limitation	
		- Challenges of education in Jharkhand		
		ational thought and thinkers		
		Comparative analysis of Naturalism, Idealism, Realism and		
		Comprehensive study of contemporary philosophy of educat	ion	
	√ Tandias			10
UNIT-III	India	n Swami Vivekananda		hrs.
	-	Rabindranath Tagore		111.5.
	-	Mahatma Gandhi		
	-	Shree Aurobindo		

	- Roussau - Dewey	
	Education in pre-Independent in India	
UNIT-IV	 Education in Vedic, Buddhist, Muslim period Education policies in British period Wood despatch, Macaulay minute, Hunter commission 	15 hrs
	Education in Post Independent India	
UNIT-V	 ✓ Commission and their recommendation Mudaliar Kothari ✓ National Policy on Education – 1986, POA 1992, NPE 2020 ✓ Universalization of Elementary Education – Sarva Shiksha Abhiyan, RTE ACT 2009 ✓ Rastriya Madhayamik Shiksha Abhiyan (RMSA) ✓ Environmental issues and education 	15 hrs.
	MODE OF TRANSACTION Lectures, discussions, assignments, films on educational thinkers	
 Crit Obs 	SUGGESTED ACTIVITIES ess the impact of Right to Education Act on schools tical Analysis of different Committees and Commissions on Education servation of Educational Process in Private Schools nning and Implementation of Activities – • Eco-Club, • Instructional material to inculcate values, • Field visit to vocational institutes to make reports, • Development of awareness development about population explosion in rural /	32 hrs
	 Creating awareness among SC/ST students about various schemes and scholarships available to them, Survey of schools to see the implementation of various incentives of government to equalize educational opportunities Preparing a presentation on rich cultural heritage of India 	

Bhatia, K. & Bhatia, B. (1983). *The philosophical and Sociological foundation of Education*. New Delhi: Doaba House.

Bhattacharya, S. (2006). Sociological Foundation Of Education: Atlantic Publishers. New Delhi
Dhankar, N. (2010). *Education In Emerging Indian Society*. New Delhi: APH Publishing Corporation.
Dhiman, O. P. (1973). *Principles and Techniques of Education*. Ludhiana: Sharda Brothers.
Fagerling, I., and Saha, L. J.O. (1989). *Education and National Development (2nd Ed.)*. England: Pergamon Press.

Kakkar, S. B. (1995). *Changing Perspectives in Education*. New Delhi: Vikas Publishing House Pvt. Ltd.

Mehta D. D. (2009). *Education in Emerging Indian Education, Indian Education*. Ludhiyana: Tondan Publications, Books Market.

Mehta, D. D. (2009). *Education in Emerging Indian Education, Indian Education*. Ludhiyana:Tondan Publications, Books Market.

Murthy, S. K. (2009). *Philosophical and Sociological Foundation of Education*. Ludhiyana: Tondan Publication, Books Market.

Murthy, S. K. (2009). *Philosophical and Sociological Foundation of Education*. Ludhiyana: Tondan Publication, Books Market.

Narulla, S. & Naik, J. P. (1964). *Student History of Education in India*. Mc Millian & Co., of India Pvt. Ltd.

National Policy and Education. (1986). MHRD. New Delhi: Govt. of India.

Pathak, K. R. (2007). Education in the Emerging India. New Delhi: Atlantic Publishers.

Pathak, R. P. (2009). *Philosophical and Sociological Foundations of Education*. New Delhi: Kanishka Publishers.

Rao, D. B. (1996). *Globals Perception on Peace Education, Vol. I, II & III*. New Delhi: Discovery Publishing House.

Rassekh, S., and Vaideanu, G. (1987). *The contents of education*. UNESCO, Paris: Richard Clay Ltd., Bungay, Suffolk, England.

Schultz, T. W. (1972). Investment in Education. London: The University of Chicago Press Ltd.

Siddiqui, M. H. (2009). *Philosophical and Sociological foundation of Education*. New Delhi: APH Publishing Corporation, APM Publication Corporation.

Siddiqui, M. H. (2009). *Philosophical and Sociological foundation of Education*. APH Publishing Corporation, APM Publication Corporation, New Delhi

Singh Y. K. (2007). *Philosophical Foundation of Education*. New Delhi: APH Publication Corporation. Singh, Y. K. (2005). *Education in Emerging Indian Society*. New Delhi: APH Publishing.

Thakur, A. S., and Berwal, S. (2007). *Education in Emerging Indian Society*. New Delhi: National Publishing House.

Toffler, A. (1971). Future Shock. London: Hazell Watron and Viney Ltd.

Environmental Education by V.C. Pandey (Isha Books)

Environmental Education by Dr. R.A. Sharma and Dr. Shikha Chaturvedi (R. Lall Educational Publishers)

YEAR	I		Credit	4+1
Semester	Ι	LEARNER AND LEARNING	Hours	64+32
OBJECTIV ES:		1. To appreciate the role of educational psychology in teaching	ing and lea	rning.

PAPER -II

during childhood to adolescence. 3. To understand the process of learning and factors influencing learning. 4. To understand the dynamics of personality development. 6. To understand the learning process in order to organize teaching for effective learning. 7. To acquaint the teacher trainees with educational needs of special groups of pupils. 8. To understand the concept of personality, mental health and role of the school in protecting mental health of pupils. 9. To develop the ability to apply the knowledge provided by Educational Psychology to classroom problems of various kinds. COURSE CONTENT / SYLLABUS NIT-I Understanding the Learner in Socio-Cultural Perspective ✓ Meaning, nature and scope of Educational Psychology. ✓ Importance of Educational Psychology to the teacher ✓ Meaning and difference between growth and development ✓ Factors influencing the learner: Psycho-social, cultural and technological factors. JNIT-II Growth and Development ✓ Meaning and difference between growth and development ✓ Factors affecting growth and development ✓ Importance of principles of growth and development ✓ Factors affecting growth and development		2. To understand the salient features and problems of growth and develop	ment
3. To understand the process of learning and factors influencing learning. 4. To understand the dynamics of personality development. 6. To understand the learning process in order to organize teaching for effective learning. 7. To acquaint the teacher trainees with educational needs of special groups of pupils. 8. To understand the concept of personality, mental health and role of the school in protecting mental health of pupils. 9. To develop the ability to apply the knowledge provided by Educational Psychology to classroom problems of various kinds. COURSE CONTENT / SYLLABUS Influence of Educational Psychology. Meaning, nature and scope of Educational Psychology. Factors influencing the learner: Psycho-social, cultural and technological factors. 10 hrs. Meaning and difference between growth and development Factors affecting growth and development Meaning and difference between growth and development Factors affecting growth and development Sectors affecting individual development in different stages (special emphasis on concerns of adolescence) Relevant idea of Piaget, Erikson and Kohlberg on different dimension of growth and development Factors affecting individual differences Concepts of intelligence with special reference to Gardener's theory of multiple intelligence with special reference to Gardener's theory of multiple intelligence with special reference to Gardener'			
4. To understand the dynamics of personality development. 6. To understand the learning process in order to organize teaching for effective learning. 7. To acquaint the teacher trainees with educational needs of special groups of pupils. 8. To understand the concept of personality, mental health and role of the school in protecting mental health of pupils. 9. To develop the ability to apply the knowledge provided by Educational Psychology to classroom problems of various kinds. COURSE CONTENT / SYLLABUS JINIT-I Understanding the Learner in Socio-Cultural Perspective ✓ Meaning, nature and scope of Educational Psychology. 10 hrs. ✓ Importance of Educational Psychology. 10 hrs. ✓ Factors influencing the learner: Psycho-social, cultural and technological factors. 10 hrs. //NIT-II Growth and Development 10 hrs. ✓ Dimensions of individual development in different stages (special emphasis on concerns of adolescence) 10 hrs. //NIT-III Knowing the learner 10 hrs. // Individual difference-meaning, characteristics and dimensions of differences in psychological attributes: cognitive abilities, interest, aptitude, creativity, personality, values and self esteem 15 hrs. // Status of the cligence with special reference to Gardener's theory of multiple intelligence with special reference to Gardener's theory of multiple intellig			
6. To understand the learning process in order to organize teaching for effective learning. 7. To acquain the teacher trainees with educational needs of special groups of pupils. 8. To understand the concept of personality, mental health and role of the school in protecting mental health of pupils. 9. To develop the ability to apply the knowledge provided by Educational Psychology to classroom problems of various kinds. COURSE CONTENT / SYLLABUS INIT-I Understanding the Learner in Socio-Cultural Perspective ✓ Meaning, nature and scope of Educational Psychology. ✓ Importance of Educational Psychology to the teacher ✓ Meaning and difference between growth and development ✓ Factors affecting growth and development ✓ Meaning and difference between growth and development ✓ Meaning and difference between growth and development ✓ Importance of principles of growth and development ✓ Meaning and difference between growth and development ✓ Importance of principles of growth and development ✓ Importance of principles of growth and development ✓ Importance of principles of growth and development ✓ Importance of principles			
learning. 7. To acquain the teacher trainees with educational needs of special groups of pupils. 8. To understand the concept of personality, mental health and role of the school in protecting mental health of pupils. 9. To develop the ability to apply the knowledge provided by Educational Psychology to classroom problems of various kinds. COURSE CONTENT / SYLLABUS JNIT-II Understanding the Learner in Socio-Cultural Perspective ✓ Meaning, nature and scope of Educational Psychology. 10 hrs. ✓ Importance of Educational Psychology to the teacher 10 hrs. ✓ Factors influencing the learner: Psycho-social, cultural and technological factors. 10 hrs. JNIT-II Growth and Development 10 hrs. ✓ Meaning and difference between growth and development 10 hrs. ✓ Pactors affecting growth and development 10 hrs. Ø rowth and development 10 hrs. Ø Dimensions of individual development 10 hrs. Ø rowth and development 10 hrs. Ø rowth and development 10 hrs. Ø rowth and development 10 hrs. Ø			ective
7. To acquaint the teacher trainees with educational needs of special groups of pupils. 8. To understand the concept of personality, mental health and role of the school in protecting mental health of pupils. 9. To develop the ability to apply the knowledge provided by Educational Psychology to classroom problems of various kinds. COURSE CONTENT / SYLLABUS INIT-I Understanding the Learner in Socio-Cultural Perspective 10 hrs. ✓ Meaning, nature and scope of Educational Psychology. 10 hrs. ✓ Importance of Educational Psychology to the teacher 10 hrs. ✓ Factors influencing the learner: Psycho-social, cultural and technological factors. 10 hrs. JNIT-II Growth and Development 10 hrs. ✓ Meaning and difference between growth and development 10 hrs. ✓ Dimensions of individual development 10 hrs. ✓ Dimensions of individual development 10 hrs. ✓ Nation of growth and development 10 hrs. ✓ Nation of growth and development 10 hrs. ✓ Dimensions of individual development 10 hrs. ✓ Nation of growth and development 10 hrs. ✓ Dimensions of individual differences 10 hrs. ✓ Relevant idea of Piaget, Erikson and Kohlberg on different dimension of differences in psychological attributes: cognitive abilities, interest, aptitude, creativity, p			
pupils. 8. To understand the concept of personality, mental health and role of the school in protecting mental health of pupils. 9. To develop the ability to apply the knowledge provided by Educational Psychology to classroom problems of various kinds. 9. To develop the ability to apply the knowledge provided by Educational Psychology to classroom problems of various kinds. 10 hrs. VINT-I Understanding the Learner in Socio-Cultural Perspective • Meaning, nature and scope of Educational Psychology. 10 hrs. • Factors influencing the learner: Psycho-social, cultural and technological factors. 10 hrs. JINT-II Growth and Development • Meaning and difference between growth and development 10 hrs. • Factors affecting growth and development 10 hrs. • Dimensions of individual development 10 hrs. • Relevant idea of Piaget, Erikson and Kohlberg on different dimension of growth and development 10 hrs. VINIT-III Knowing the learner 10 hrs. • Individual difference-meaning, characteristics and dimensions of differences in psychological attributes: cognitive abilities, interest, aptitude, creativity, personality, values and self esteem 15 hrs. • Factors affecting individual differences 0 Concepts of intelligence and its implications 15 hrs. •			ns of
school in protecting mental health of pupils. 9. To develop the ability to apply the knowledge provided by Educational Psychology to classroom problems of various kinds. COURSE CONTENT / SYLLABUS JNIT-I Understanding the Learner in Socio-Cultural Perspective 10 hrs. Maning, nature and scope of Educational Psychology. Importance of Educational Psychology to the teacher Factors influencing the learner: Psycho-social, cultural and technological factors. 10 hrs. JNIT-II Growth and Development 10 hrs. Maportance of principles of growth and development Importance of principles of growth and development Eactors affecting growth and development Dimensions of individual development in different stages (special emphasis on concerns of adolescence) Relevant idea of Piaget, Erikson and Kohlberg on different dimension of growth and development Individual difference-meaning, characteristics and dimensions of differences in psychological attributes: cognitive abilities, interest, aptitude, creativity, personality, values and self esteem Factors affecting individual differences Concepts of intelligence and its implications Understanding differently abled learners: Slow learners, Learning disabled (Dyslexic), Gifted, and disadvantaged 15 hrs. NIT-II Iearning and tis theoretical perspectives			55 01
9. To develop the ability to apply the knowledge provided by Educational Psychology to classroom problems of various kinds. COURSE CONTENT / SYLLABUS INIT-I Understanding the Learner in Socio-Cultural Perspective 10 hrs. • Meaning, nature and scope of Educational Psychology. 10 hrs. • Importance of Educational Psychology to the teacher 10 hrs. • Factors influencing the learner: Psycho-social, cultural and technological factors. 10 hrs. JNIT-II Growth and Development • Meaning and difference between growth and development • Factors affecting growth and development • Dimensions of individual development in different stages (special emphasis on concerns of adolescence) 10 hrs. INIT-III Knowing the learner • Individual difference-meaning, characteristics and dimensions of differences in psychological attributes: cognitive abilities, interest, aptitude, creativity, personality, values and self esteem 15 hrs. • Factors affecting individual differences • Concepts of intelligence with special reference to Gardener's theory of multiple intelligence and its implications • Understanding differently abled learners: Slow learners, Learning disabled (Dyslexic), Gifted, and disadvantaged INIT-III learning and ternor(Thorndike) • Meaning and definitions of learning and their classroom implications • Understanding differently abled learners: Slow learners, Learning disabled (Dyslexic		8. To understand the concept of personality, mental health and role of the	
9. To develop the ability to apply the knowledge provided by Educational Psychology to classroom problems of various kinds. COURSE CONTENT / SYLLABUS INIT-I Understanding the Learner in Socio-Cultural Perspective 10 hrs. • Meaning, nature and scope of Educational Psychology. 10 hrs. • Importance of Educational Psychology to the teacher 10 hrs. • Factors influencing the learner: Psycho-social, cultural and technological factors. 10 hrs. JNIT-II Growth and Development 10 hrs. • Factors affecting growth and development 10 hrs. • Factors affecting growth and development 10 hrs. • Dimensions of individual development in different stages (special emphasis on concerns of adolescence) 10 hrs. • Relevant idea of Piaget, Erikson and Kohlberg on different dimension of growth and development 10 hrs. JNIT-III Knowing the learner 10 hrs. • Individual difference-meaning, characteristics and dimensions of differences in psychological attributes: cognitive abilities, interest, aptitude, creativity, personality, values and self esteem 15 hrs. • Factors affecting individual differences Concepts of intelligence and its implications 15 hrs. • Understanding differently abled learners: Slow learners, Learning disabled (Dyslexic), Gifted, and disadvantaged 20 hrs. </th <th></th> <th>school in protecting mental health of pupils.</th> <th></th>		school in protecting mental health of pupils.	
Psychology to classroom problems of various kinds. COURSE CONTENT / SYLLABUS JNIT-I Understanding the Learner in Socio-Cultural Perspective 10 hrs. Magning, nature and scope of Educational Psychology. Importance of Educational Psychology to the teacher Factors influencing the learner: Psycho-social, cultural and technological factors. 10 hrs. JNIT-II Growth and Development 10 hrs. Factors affecting growth and development Importance of Principles of growth and development Factors affecting growth and development Pactors affecting growth and development Relevant idea of Piaget, Erikson and Kohlberg on different dimension of growth and development 10 hrs. INIT-III Knowing the learner Individual difference-meaning, characteristics and dimensions of differences in psychological attributes: cognitive abilities, interest, aptitude, creativity, personality, values and self esteem Factors affecting individual differences Concepts of intelligence and its implications Understanding differently abled learners: Slow learners, Learning disabled (Dyslexic), Gifted, and disadvantaged 15 hrs. INIT-IV learning and its theoretical perspectives Meaning and definitions of learning as a process and product			
COURSE CONTENT / SYLLABUS JNIT-I Understanding the Learner in Socio-Cultural Perspective 10 hrs. ✓ Meaning, nature and scope of Educational Psychology. 10 hrs. ✓ Factors influencing the learner: Psycho-social, cultural and technological factors. 10 hrs. JNIT-II Growth and Development 10 hrs. ✓ Meaning and difference between growth and development 10 hrs. ✓ Meaning and difference between growth and development 10 hrs. ✓ Meaning and difference between growth and development 10 hrs. ✓ Meaning and difference between growth and development 10 hrs. ✓ Dimensions of individual development 10 hrs. ✓ Dimensions of individual development 10 hrs. ✓ Relevant idea of Piaget, Erikson and Kohlberg on different dimension of growth and development 10 hrs. JNIT-III Knowing the learner 10 hrs. 10 hrs. ✓ Individual difference-meaning, characteristics and dimensions of differences in psychological attributes: cognitive abilities, interest, aptitude, creativity, personality, values and self esteem 15 hrs. ✓ Factors affecting individual differences 15 hrs. ✓			
• Meaning, nature and scope of Educational Psychology. Inportance of Educational Psychology to the teacher 10 hrs. • Factors influencing the learner: Psycho-social, cultural and technological factors. Instruction of the teacher 10 hrs. JNIT-II Growth and Development • Meaning and difference between growth and development • Inportance of principles of growth and development • Factors affecting growth and development • Factors affecting growth and development • Pactors affecting growth and development • Pactors affecting growth and development • In hrs. • Dimensions of individual development • Relevant idea of Piaget, Erikson and Kohlberg on different dimension of growth and development 10 hrs. JNIT-III Knowing the learner • Individual difference-meaning, characteristics and dimensions of differences in psychological attributes: cognitive abilities, interest, aptitude, creativity, personality, values and self esteem • Factors affecting individual differences • Concepts of intelligence with special reference to Gardener's theory of multiple intelligence and its implications • Understanding differently abled learners: Slow learners, Learning disabled (Dyslexic), Gifted, and disadvantaged 15 hrs. INIT-IV learning and definitions of learning - Learning as a process and product • Different viewpoints of learning and their classroom implications (a) Learning by Trial and Error (Thorndike) 20 hrs.			
• Importance of Educational Psychology to the teacher 10 hrs. • Factors influencing the learner: Psycho-social, cultural and technological factors. 10 hrs. JNIT-II Growth and Development 10 hrs. • Meaning and difference between growth and development 10 hrs. • Importance of principles of growth and development 10 hrs. • Factors affecting growth and development 10 hrs. • Dimensions of individual development in different stages (special emphasis on concerns of adolescence) 10 hrs. • Relevant idea of Piaget, Erikson and Kohlberg on different dimension of growth and development 10 hrs. JNIT-III Knowing the learner 15 hrs. • Individual difference-meaning, characteristics and dimensions of differences in psychological attributes: cognitive abilities, interest, aptitude, creativity, personality, values and self esteem 15 hrs. • Factors affecting individual differences 15 hrs. 15 hrs. • Concepts of intelligence with special reference to Gardener's theory of multiple intelligence and its implications 15 hrs. • Understanding differently abled learners: Slow learners, Learning disabled (Dyslexic), Gifted, and disadvantaged 20 hrs. JNIT-IV learning and its theoretical perspectives • Meaning and definitions of learning - Learning as a process and product • Diffe	UNIT-I	Understanding the Learner in Socio-Cultural Perspective	
Image: A sectors influencing the learner: Psycho-social, cultural and technological factors. INIT-II Growth and Development Image: Mark Sector Sect		✓ Meaning, nature and scope of Educational Psychology.	
technological factors. JNIT-II Growth and Development · Meaning and difference between growth and development · Importance of principles of growth and development · Factors affecting growth and development in different stages (special emphasis on concerns of adolescence) 10 hrs. · Relevant idea of Piaget, Erikson and Kohlberg on different dimension of growth and development 10 hrs. JNIT-III Knowing the learner · · Individual difference-meaning, characteristics and dimensions of differences in psychological attributes: cognitive abilities, interest, aptitude, creativity, personality, values and self esteem 15 hrs. · Concepts of intelligence and its implications · 15 hrs. V Understanding differently abled learners: Slow learners, Learning disabled (Dyslexic), Gifted, and disadvantaged 15 hrs. VINT-IV learning and its theoretical perspectives · Meaning and definitions of learning - Learning as a process and product · 20 hrs. (b) Learning by Trial and Error (Thorndike) (b) Learning by Stimulus - Response conditioning (Pavlov & Skinner) 20 hrs.		✓ Importance of Educational Psychology to the teacher	10 hrs.
JNIT-II Growth and Development Importance of principles of growth and development Importance Importance of principles of growth and development Importance Importance <thimportance< th=""> Importance Importance<</thimportance<>		✓ Factors influencing the learner: Psycho-social, cultural and	
Image: A set of the set		technological factors.	
 Importance of principles of growth and development Factors affecting growth and development Dimensions of individual development in different stages (special emphasis on concerns of adolescence) Relevant idea of Piaget, Erikson and Kohlberg on different dimension of growth and development INIT-III Knowing the learner Individual difference-meaning, characteristics and dimensions of differences in psychological attributes: cognitive abilities, interest, aptitude, creativity, personality, values and self esteem Factors affecting individual differences Concepts of intelligence with special reference to Gardener's theory of multiple intelligence and its implications Understanding differently abled learners: Slow learners, Learning disabled (Dyslexic), Gifted, and disadvantaged INIT-IV Iearning and its theoretical perspectives Meaning and definitions of learning - Learning as a process and product Different viewpoints of learning and their classroom implications (a) Learning by Trial and Error (Thorndike) (b) Learning by Stimulus - Response conditioning (Pavlov & Skinner) 	UNIT-II	-	
Image: Sector of the sector			
 Dimensions of individual development in different stages (special emphasis on concerns of adolescence) Relevant idea of Piaget, Erikson and Kohlberg on different dimension of growth and development Individual difference-meaning, characteristics and dimensions of differences in psychological attributes: cognitive abilities, interest, aptitude, creativity, personality, values and self esteem Factors affecting individual differences Concepts of intelligence with special reference to Gardener's theory of multiple intelligence and its implications Understanding differently abled learners: Slow learners, Learning disabled (Dyslexic), Gifted, and disadvantaged INIT-IV Iearning and its theoretical perspectives Meaning and definitions of learning - Learning as a process and product Different viewpoints of learning and their classroom implications Learning by Trial and Error (Thorndike) Learning by Stimulus - Response conditioning (Pavlov & Skinner) 		 Importance of principles of growth and development 	
✓ Dimensions of individual development in different stages (special emphasis on concerns of adolescence) ✓ Relevant idea of Piaget, Erikson and Kohlberg on different dimension of growth and development JNIT-III Knowing the learner ✓ Individual difference-meaning, characteristics and dimensions of differences in psychological attributes: cognitive abilities, interest, aptitude, creativity, personality, values and self esteem ✓ Factors affecting individual differences 15 hrs. ✓ Concepts of intelligence with special reference to Gardener's theory of multiple intelligence and its implications 15 hrs. 15 hrs. ✓ Understanding differently abled learners: Slow learners, Learning disabled (Dyslexic), Gifted, and disadvantaged 17 hrs. 20 hrs. JNIT-IV learning and its theoretical perspectives ✓ Meaning and definitions of learning and their classroom implications 20 hrs.			10 hrs.
Image: Constraint of the second sec			10 110
of growth and developmentImage: Constant of the learnerUNIT-IIIKnowing the learnerIndividual difference-meaning, characteristics and dimensions of differences in psychological attributes: cognitive abilities, interest, aptitude, creativity, personality, values and self esteemImage: Constant of the learnerFactors affecting individual differencesImage: Constant of the learnerImage: Constant of the learnerImage: Constant of the learnerFactors affecting individual differencesImage: Constant of the learnerImage: Constant of the learnerConcepts of intelligence with special reference to Gardener's theory of multiple intelligence and its implicationsImage: Constant of the learnerImage: Constant of the learnerUnderstanding differently abled learners: Slow learners, Learning disabled (Dyslexic), Gifted, and disadvantagedImage: Constant of the learnerImage: Constant of the learnerMeaning and definitions of learning - Learning as a process and productImage: Constant of the learnerImage: Constant of the learnerImage: Constant of the learning and their classroom implicationsImage: Constant of the learnerImage: Constant of the learner </th <th></th> <th></th> <th></th>			
JNIT-III Knowing the learner ✓ Individual difference-meaning, characteristics and dimensions of differences in psychological attributes: cognitive abilities, interest, aptitude, creativity, personality, values and self esteem ✓ Factors affecting individual differences 15 hrs. ✓ Factors affecting individual differences ✓ Concepts of intelligence with special reference to Gardener's theory of multiple intelligence and its implications ✓ 15 hrs. ✓ Concepts of intelligence and its implications ✓ Understanding differently abled learners: Slow learners, Learning disabled (Dyslexic), Gifted, and disadvantaged 15 hrs. ✓ Meaning and its theoretical perspectives ✓ Meaning and definitions of learning - Learning as a process and product 20 hrs. (a) Learning by Trial and Error (Thorndike) (b) Learning by Stimulus - Response conditioning (Pavlov & Skinner) 20 hrs.			
Individual difference-meaning, characteristics and dimensions of differences in psychological attributes: cognitive abilities, interest, aptitude, creativity, personality, values and self esteem 15 hrs. Factors affecting individual differences 15 hrs. Concepts of intelligence with special reference to Gardener's theory of multiple intelligence and its implications 15 hrs. Understanding differently abled learners: Slow learners, Learning disabled (Dyslexic), Gifted, and disadvantaged 15 hrs. INIT-IV learning and its theoretical perspectives 15 hrs. Meaning and definitions of learning- Learning as a process and product 20 hrs. (a) Learning by Trial and Error (Thorndike) (b) Learning by Stimulus - Response conditioning (Pavlov & Skinner) 20 hrs.			
differences in psychological attributes: cognitive abilities, interest, aptitude, creativity, personality, values and self esteem15 hrs.✓ Factors affecting individual differences✓ Concepts of intelligence with special reference to Gardener's theory of multiple intelligence and its implications✓ Understanding differently abled learners: Slow learners, Learning disabled (Dyslexic), Gifted, and disadvantaged15 hrs.JNIT-IVlearning and its theoretical perspectives✓ Meaning and definitions of learning- Learning as a process and product ✓ Different viewpoints of learning and their classroom implications (a) Learning by Trial and Error (Thorndike) (b) Learning by Stimulus - Response conditioning (Pavlov & Skinner)20 hrs.	UNIT-III		
 aptitude, creativity, personality, values and self esteem Factors affecting individual differences Concepts of intelligence with special reference to Gardener's theory of multiple intelligence and its implications Understanding differently abled learners: Slow learners, Learning disabled (Dyslexic), Gifted, and disadvantaged JNIT-IV learning and its theoretical perspectives Meaning and definitions of learning- Learning as a process and product Different viewpoints of learning and their classroom implications (a) Learning by Trial and Error (Thorndike) (b) Learning by Stimulus - Response conditioning (Pavlov & Skinner) 		-	
 ✓ Factors affecting individual differences ✓ Factors affecting individual differences ✓ Concepts of intelligence with special reference to Gardener's theory of multiple intelligence and its implications ✓ Understanding differently abled learners: Slow learners, Learning disabled (Dyslexic), Gifted, and disadvantaged JNIT-IV learning and its theoretical perspectives ✓ Meaning and definitions of learning- Learning as a process and product ✓ Different viewpoints of learning and their classroom implications (a) Learning by Trial and Error (Thorndike) (b) Learning by Stimulus - Response conditioning (Pavlov & Skinner) 			
 ✓ Concepts of intelligence with special reference to Gardener's theory of multiple intelligence and its implications ✓ Understanding differently abled learners: Slow learners, Learning disabled (Dyslexic), Gifted, and disadvantaged JNIT-IV learning and its theoretical perspectives ✓ Meaning and definitions of learning- Learning as a process and product ✓ Different viewpoints of learning and their classroom implications (a) Learning by Trial and Error (Thorndike) (b) Learning by Stimulus - Response conditioning (Pavlov & Skinner) 			
multiple intelligence and its implications ✓ Understanding differently abled learners: Slow learners, Learning disabled (Dyslexic), Gifted, and disadvantaged JNIT-IV learning and its theoretical perspectives ✓ Meaning and definitions of learning - Learning as a process and product ✓ ✓ Different viewpoints of learning and their classroom implications 20 hrs. (a) Learning by Trial and Error (Thorndike) (b) Learning by Stimulus - Response conditioning (Pavlov & Skinner) 20 hrs.			15 hrs.
✓ Understanding differently abled learners: Slow learners, Learning disabled (Dyslexic), Gifted, and disadvantaged JNIT-IV learning and its theoretical perspectives ✓ Meaning and definitions of learning- Learning as a process and product ✓ Different viewpoints of learning and their classroom implications (a) Learning by Trial and Error (Thorndike) (b) Learning by Stimulus - Response conditioning (Pavlov & Skinner)			
disabled (Dyslexic), Gifted, and disadvantagedJNIT-IVlearning and its theoretical perspectives✓ Meaning and definitions of learning- Learning as a process and product✓ Different viewpoints of learning and their classroom implications(a) Learning by Trial and Error (Thorndike)(b) Learning by Stimulus - Response conditioning (Pavlov & Skinner)			
JNIT-IVlearning and its theoretical perspectives✓Meaning and definitions of learning- Learning as a process and product✓Different viewpoints of learning and their classroom implications(a) Learning by Trial and Error (Thorndike)(b) Learning by Stimulus - Response conditioning (Pavlov & Skinner)			
 ✓ Meaning and definitions of learning- Learning as a process and product ✓ Different viewpoints of learning and their classroom implications (a) Learning by Trial and Error (Thorndike) (b) Learning by Stimulus - Response conditioning (Pavlov & Skinner) 			
 ✓ Different viewpoints of learning and their classroom implications (a) Learning by Trial and Error (Thorndike) (b) Learning by Stimulus - Response conditioning (Pavlov & Skinner) 	UNIT-IV		_
 (a) Learning by Trial and Error (Thorndike) (b) Learning by Stimulus - Response conditioning (Pavlov & Skinner) 			
(a) Learning by Trial and Error (Thorndike)(b) Learning by Stimulus - Response conditioning (Pavlov & Skinner)			20 hrs
			20 mb.
(c) Gestalt theory- Learning by insight			
		(c) Gestalt theory- Learning by insight	

UNIT-V	 (d) Cognitive theory (Piaget) and Social cognitive theory (Vygotsky) ✓ Factors affecting learning ✓ Transfer of learning ✓ Motivation- concept, types of motivation, Maslow's theory of motivation, techniques of motivation Personality development and mental health of learner ✓ Concept of personality ✓ Theory of personality development ✓ Concept of mental health - factors influencing mental health Adjustment - Area and method of adjustment. 	9 hrs
	 ✓ Guidance and counselling SUGGESTED ACTIVITIES: 	
	 SUGGESTED ACTIVITIES: Observe the various age group children (Early childhood, Later childhood, Adolescent) in various situations like in the classroom, playground, at home, with parents, friends, siblings and list down the characteristics of them in physical, social, emotional and intellectual domain. List down different maladjusted behaviours of adolescents which you could identify from the classroom and out-side classroom. Take interview of a few and try to understand the factors that may be responsible for their behaviour. Visit a school (Practice Teaching) and find out the different measures/activities taken by school or teachers for healthy mental health of the children by interviewing school teachers. Development of Question box activities (can be carried out by student trainees during practice teaching). To provide authentic information on physical, physiological and psychological changes and development during adolescence and interpersonal relationship issues pertaining to adolescents. To list down the instances of peer pressure which may have harmful consequences for the students and the ways adopted by them to face or cope with these unfavourable situations. (Smoking, injecting drug etc.) Find out the plug-in points from your school subjects and link it with the components of Adolescence Education. Also plan out supplementary cocurricular activities for the same. Observe some successful individuals and list down the behavioural characteristics which impress you. Take interview of five low achievers and five high achievers and find out 	32 hrs.

	their ways of learning.
8	
9	learning. . Administration of Psychological tests.
/	MODE OF TRANSACTION
I	ecture, Discussion, Case Study, Experiments, Problem solving, Film Show
	REFERENCES
Bhatia. H	R. (1973). Elements of Educational Psychology, 5th edition, Orient Longman.
	L. (1982). Learning Theories for Teachers, (4th edition). New York, Harper and Row
	s, P.P. 89-90.
	C. (1975): Learning Theory. New York, Holt, Rinehart and Winston, P.P. 18-19.
	S.S. (1978): Advanced Educational Psychology, Vikas Publishing house Pvt. Ltd., Ne
Delhi.	
Dandapar	i, S. (2001), A textbook of Advanced Educational Psychology. New Delhi: Anmol
Publicatio	
Dunn, R.	(1983). Can students identify their own Learning Styles? Educational Leadership,40,
P.P. 60-62).
Dash, M.	(1988). Educational Psychology. Delhi: Deep and Deep Publication.
Duric, L.	(1975). Performance of Pupils in the Process of Instruction. Bratislava, SPN, P.P. 54-
90.	
	(1990). Educational Sciences: Essentials of Educational Psychology. International
	Education, UNESCO, New Delhi, Sterling Publishers, P. 81.
	D. (1995). Psychology for Teachers (3rd edition). The British Psychological Society,
	AcMillan in association with BPS Books.
	L. and Tutoo D.N. (1993) : Educational Psychology, Sterling Publishers Pvt. Ltd.
0	H. C. (1967). Educational Psychology in Classroom (3rd edition). New York: John
Wiley and	
-	. K. (1984). Psychological Foundations of Education. Ludhiana: Prakash Publishers
	and Vasudeva P. N. (1993). Learning Theories and Teaching, In Mohan Jitendra (ed.)
	al Psychology, New Delhi, Wiley Eastern Limited, P. 146. and Ronak, R. P. (2011). Management of behavioral problems of children with ment
	n. Germany: VDM publication.
	E., and Sally, W. O. (1978). Human Development. McGraw Hill Publishing Compan
-	K (2011). Shiksha Manovigyan Patna: Bharti Bhawan Publishers
0	C.E (2004) Educational Psychology. Delhi: Prentice hall
Skinner, C	

EPC- I (ENHANCEMENT OF PROFESSIONAL COMPETENCY)

YEAR	Ι	LANGUAGE ACROSS CURRICULUM	CREDIT	2+1
Semester	Ι		HOURS	32+32
OBJECTIV	Natu	 To enable students to understand nature, function and role of curriculum To acquaint students with obstacles in language usage while and ways to overcome them. To enable students to understand importance and use of first language, multilingualism and impact of culture. To acquire knowledge about the communication process and nonverbal communication skills. To familiarize the students with of barriers to (Listening, Spe Writing)LSRW skills and activities for developing these sk COURSE CONTENT / SYLLABUS 	using the l and second l verbal and eaking, Rea	anguage 1 I
UNIT-I		 Language – Meaning and Concept Functions of Language Role of Language across Curriculum Barriers in Using a Language & Strategies to Overcome them 		6 hrs.
UNIT-II		Activities for development of listening skills Activities for development of reading skills Activities for development of writing skills Activities for development of speaking skills		6 hrs.
UNIT-III	√	munication and its importanceMeaning, concept and principles of communicationProcess of communicationCharacteristic of effective communicationEffective classroom communication		8 hrs.
UNIT-IV		munication and Multi Media ICT and its importance Multi-media as a channel of communication Use of ICT and multi-media in classroom		4 hrs.
UNIT-V	Comi			8 hrs.
		MODE OF TRANSACTION		
		Lecture, discussion, exercises, assignments, language games		
	1. 2.	SUGGESTED ACTIVITIES Use of Language lab. Designing Games and Exercises for developing Listening, Speak	cing,	32 hrs.

	· · · · · · · · · · · · · · · · · · ·
	 Writing and Reading Skills 3. Assignments on developing Writing Skills- Summary, Letter, Paragraph, Essays, Speech 4. Assignments on developing speaking Skills – Oral Presentations, Debate, Elocution, Discussion, Brain-storming 5. Assignments on developing listening Skills – Listening to speech, directions 6. Designing multi-media resources for effective communication. 7. Blended learning- online, offline
	REFERENCES
Floyd, K. (20) Fromkin, V, F Learning.	. et al. (2011). <i>Human Communication</i> . (4th ed.). New York: McGraw Hill Companies Inc. 09). <i>Interpersonal Communication</i> . New York: McGraw Hill Companies Inc. Rodman, R &Hyms, N. (2011). <i>Introduction to Language</i> . (9 th ed.). Canada: Cengage
•	et al. (2010). <i>Linguistics: Introduction to Language and Communication</i> . (6 th ed.).
Cambridge: M	IIT Press.
Fasold, R. &C	Connor-Linton, J. (2013). An Introduction to Language and Linguistics. (6th ed.). Cambridge:
Cambridge U	niversity Press.
First and Seco	ond Language Acquisition- a Brief Comparison.
Retrieved from	m <u>https://www.uni-due.de/ELE/FLA_SLA_brief_comparison.pdf</u>
Similarities an	nd Differences between First and Second Language Acquisition Retrieved from
http://multilin	gualism.pbworks.com/w/page/21913433/Similarities%20and%20Differences%20between%2
0First%20and	1%20Second%20Language%20Acquisition

Activities for Developing Speaking SkillRetrieved from

http://faculty.weber.edu/ppitts/ed4320/Handouts/speakingskills.htm

http://www.educ.ualberta.ca/staff/olenka.Bilash/best%20of%20bilash/speaking.html

Activities for Developing Listening Skill Retrieved from

http://www.educ.ualberta.ca/staff/olenka.bilash/best%20of%20bilash/listening.html

https://blog.udemy.com/listening-skills-exercises/

EPC- II (ART & AESTHETICS)

YEAR	Ι	ART & AESTHETICS	IT	2+1	
Semester	Ι	HOUL	RS	32+32	
OBJECTIV	ES				
	1. To introduce certain concepts to enhance the understanding of art.				
		2. To understand the function of art			
		3. To develop aesthetic sensibilities.			
	4. To highlight the use of art in creative expression.				
		5. To give a base in dance, music, theatre and fine arts.			
		6. To give practical and theoretical understanding and practice in the	e ar	ts.	

	COURSE CONTENT / SYLLABUS	
	An Introduction of Art and Aesthetics	
UNIT-I	 (i) Meaning and definition of Art. (ii) Classification of Art. (iii) Aims and objective of Art. (iv) Meaning, Nature and scope of Aesthetics. (v) Correlation of art and aesthetics A General idea of Performing art	6 hrs.
	(i) A brief introduction to Music, Dance and Drama	
	(ii) (a) Music:	
	 (i)Meaning, Nature and definition of music (ii)Origin and development of music (iii)Classification of music (iv)Music in modern era 	
UNIT-II	 (b) Dance i)Meaning, nature and definition of dance ii) Origin and development of dance iii)Classification of dance iv)A brief study of: Kathak Bharatnatyam Kathakali Manipuri dance Oddisi Kuchipuri Mohini attam (c) Drama:- i) Origin and development of drama ii) Terms, concepts, forms and elements in drama 	10 hrs.
UNIT-III	A brief study of fundamental technical terms:- • Nad • Shruti • Swara • Alankar • Aaroh • Auroh • Pakar • Saptak • Alap • Raga • Taan	6 hrs.

	Taal	
	• Laya	
	A Consultidos of Fine Ant	
	A General idea of Fine Art A brief introduction to Fine art	_
	 Meaning and definition of Fine art 	
	-	
	 Origin and development of Fine art Fine art in modern era 	
	• Classification of different type of art Drawing, painting, printmaking,	
UNIT-IV	sculpture Various type of different modium in fine art	6 hrs.
	• Various type of different medium in fine art	
	a) Pencil	
	b) Pen	
	c) Oil pastel	
	d) Water colour	
	e) Acrylic colour f) Oil colour	
	,	
	Fine Arts and its importance in Life	_
	(i) Artists and their contribution in education of fine art	
UNIT-V	a) Indian Artist	1 hra
	b) Western Artist	4 hrs.
	(ii) Art Room- its need, equipments and decoration	
	MODE OF TRANSACTION	
	SUGGESTED ACTIVITIES	
	1. Practice of Swar and Alankar.	
	2. Practice of two basic Raga; Yaman and Bhupali	
	3. Practice of some basic taal, kaharwa, dadra, teen taal etc.	
	4. Practice of some patriotic and devotional songs.	
	5. Develop a script of any lesson of their method subject to perform a play	
	or drama	
	6. Organize a competition on some performing art forms (music, dance,	
	drama) in schools, during school internship programme and prepare a	
	report on it.	32 hrs.
	7. Drawing with the help of pencil and pen both.	
	8. Sketching with the help of pencil and pen both.	
	9. Shadowing with the help of pencil and pen both.	
	10. Mixing of colours, use of oil pastels.	
	11. Model making	
	12. Chart making	
	13. Poster making.	
	14. Organize a competition of drawing and painting in school during your	
	school internship programme and prepare a report on it.	
	REFERENCES	
Sang	geet visharad by vasant.	

- Sangeet Ratnawali by Ashok Kumar yaman.
- ▶ Kramik Pustak Malika, Part-I&II by Vishnu digamber palushkar.
- ▶ Raag parichay, Part-I&II by Harishchandra.
- Abhinav Raga Manjari by Pt. Bhatkhande.
- Abhivav geet manjari by Ratanjankar.
- > Theory of drama by A. Nicoll.
- ➢ Natya Kala by Dhirubhain Thakar.
- ➢ Acting is Believing by Chals Mcgaw.
- > Art of speech by Kethlin Rich
- Bharat aur Bhartiya Natya Kala by Surendra Nath Dixit.
- NCERT,(2006). Position paper by national focus group on Arts, Music, Dance and Theatre.
- > Contemporary art in India a perspective (Pran Nath Mago).
- Indian painting (Sivarama Murti)
- Art- The basic of education (Devi Prasad)
- > The art and technique of pen drawing (G. Montague Ellwood)
- Pencil shading Landscape-I,II,III,IV (Shanti publication Delhi)
- Aesthetics (Dr. Ranjendra Bajpai)
- > Everything U ever wanted to know about water colour

EPC-III (ENHANCEMENT OF PROFESSIONAL COMPETENCY)

YEAR	I HEALTH AND PHYSICAL EDUCATION	REDIT	2+1		
Semester	I HEALTH AND INTSICAL EDUCATION HO	OURS	32+32		
OBJECTIVES 1. To understand the concept and principles of Yoga					
	2. To understand the ancient system of yoga				
	3. To develop awareness about the historical aspects of	f Yoga			
	4. To learn some meditational practices and techniques	S			
	5. To learn to maintain a healthy condition of body and	d mind			
	6. To learn the utility of Yoga in modern life				
	COURSE CONTENT / SYLLABUS				
	General Health and Hygiene				
	✓ Introduction to the concept of Health and Health Education: its				
	significance and importance				
UNIT-I	✓ Determinants of Health				
	 Aims of Health Education Data of family and a supervisional Madia to maintain the supervisional Madia to maintai	- 141 1			
	 Role of family, school, community and Media to maintaining health and hygiene 				
	Food and Nutrition				
UNIT-II	✓ Concept of balanced diet and its importance				
	\checkmark Nutritional deficiencies carbohydrate, protein, vitamin, and miner	rals and	6 hrs.		
	its related diseases				
UNIT-III	Preventive Measures and First Aid				

	 ✓ First Aid and its equipment in different cases ✓ Life style diseases and remedial measures to improve physical health 	6 hrs.
	Yoga and Health	
UNIT-IV	 ✓ Concept and principles of Yoga ✓ Importance of Yoga in modern life ✓ Different Yogasans and their impact on health 	7 hrs.
	Games and Sports	
UNIT-V	 ✓ Importance of physical exercises and games ✓ Fundamental skills of games and sports and their educational implications ✓ Sports for recreation and competition ✓ Sports awards and scholarship ✓ Rules and regulations of sports- football, hockey, cricket, basketball, volleyball, badminton, kabbadi, athletic, TT. Carom. 	7 hrs.
	MODE OF TRANSACTION Lecture, discussion, workshop, practical work	
	SUGGESTED ACTIVITIES 1. Participation in various track events outdoor and indoor games. 2. Organization of games and sports tournaments. 3. Visit to Yoga ashrams and centers. 4. Learning and performing of basic Yogic activities 1. Preparation of first Aids 2. Collection of medicinal plants and preparing a report on their importance 3. March-past and Drill exercises.	32 hrs.

REFERENCES

Human Development Report 1994, United Natons Development Programme(U.N.D.P.), New Delhi,Oxford University press Inc.,1994

Vlamdir, H. European Models of teacher Education in developing countries In E.D. Lomax, European perspectives in Teacher Education, London, John Wiley and Inc., 1976, p 194-195

Gharote, M.L., (1976) Physical Fitness in Relation to the practice of selected yogic exercises. Yoga Mimamsa, 18,1, 14-23.

Gharote, M.L., Ganguly, S.K., & Moorthy, A.M. (1976) Effect of Yogic training on Minimum Muscular Fitness. Yoga-Mimamsa, 18, 3&4, 1-20.

Dhanasekeran, G., (1990). A Study of Primary and Middle School Teachers regarding Health Promotion among School Children. Mphil. Education, Madurai Kamaraj University.

Dreze, J., & Goyal, A., (2003) Future of Mid-Day Meals' Economic and Political Weekly, Vol.XXXVIII, No. 44. 4673-4683.

Ganguly, S.K. (1989) Immediate Effect of Kapalabhati on Cardio-vascular Endurance, Yoga Mimamsa, 28, 1, 1-7.

{SEMESTER- II}

PAPER -III

YEAR	Ι		CREDIT	4+1
Semester	II	CLASSROOM ORGANIZATION & SCHOOL MANAGEMENT	HOURS	64+32
OBJECTIV	/ES:	 To understand the importance of classroom management To describe approaches to classroom management. To understand ways of preventing problems in managing a To list physical resources and describe how to maintain th To explain the role of teachers and the principal in ens climate. 	a classroom. em.	nt school
		COURSE CONTENT / SYLLABUS		
UNIT-I	,	 ool as an Organisation Concept of management and administration. Organisation; Meaning, purpose and characteristics School Management Committee (SMC) School meaning, need, and criteria for school accreditation SWOT Analysis Physical facilities in the school- Building, Classroom Equipment, Laboratory, Staffroom, Restroom, Drinking v Library, Health services, Sanitation. 	m, Furniture	hrs.
UNIT-II	,	 Apponents of School Management School Time Table : Types, and principles for timetable constructions School Records: Types and its Importance Co-Curricular Activities: Need and Importance, Organis curricular activities 		15 hrs.
UNIT-III	 ✓ Concept of Leadership ✓ Educational Leadership : Roles and Responsibilities, Quality of a leader ✓ Leadership style 			15 hrs.
UNIT-IV		Classroom Management		10

		hrs.
	✓ Meaning of classroom and its concept	
	✓ Characteristics of Class room	
	✓ Components of classroom:	
	 Teachers (Role of teacher) and 	
	 Pupils as recipients and their learning needs 	
	 Meaning concept, and approaches of classroom management 	
	✓ Objectives and principle of classroom management	
	✓ Factors affecting classroom management	
	✓ Techniques of classroom management: Verbal and Non verbal	
	✓ Indiscipline in classroom - Concept, Types and Reasons and	
	Contemporary classroom issues : bullying, interpersonal attraction, social media	
	Educational Structure in India	
-	✓ The structure and function at different levels –center, state, district and	-
	institutional and university level.	
	•	12
UNIT-V	✓ Functions of apex bodies at center and state level like, CABE, NCERT,	hrs.
	NUEPA, UGC, NCTE, KVS, NVS, IGNOU, SCERT, SRC, DIET, CBSE,	
	ICSE, ICCSE.	
	\checkmark Decentralization of education with reference to the role and functions of	
	panchayatiraj institutions.	
	MODE OF TRANSACTION	
	Lecture, Lecture cum Demonstration, Discussion, Practical, Assignments	
	SUGGESTED ACTIVITIES	
	1. Visit different types of schools following different boards and do a	
	comparative study with respect to various variables.	
	2. Analyse the process of recognition to different boards.	
	3. Prepare list of various records prepared by schools and write a report on	
	its importance.	
	4. Study the various co-curricular activities undertaken by schools.	
	5. Organise any co-curricular activity in school and prepare a report on its	
	management and problems faced.	32
	6. Preparing school time table according to the principles of time table	hrs.
	construction	
	7. Analysis of a time table of any school on the basis of principles of time	
	table construction and suggestions for improvement	
	8. Prepare an awareness programme on various indiscipline problems faced	
	in schools.	
	9. Study the techniques adopted by teacher for classroom management,	
	10. Visit schools and study the leadership style of principals through observations.	
	11. Study the innovations and change introduced in school and role of leader	

there in.

REFERENCES

Desai, D. M. (1964). *Outline of Educational Administration in India*. Ahmedabad: A. R. Sheth & Co.

Desai, D. M. (1964). Shaikshanik Prakashan. Baroda: University Granth Nirman.

Getzels, J. W. et.al. (1968). *Educational Administration as a Social Process*. New York:Harper and Row.

Goleman, D. (1998). Working with Emotional Intelligence. NewYork: Bantam Books.

Goleman, D. (1995). Emotional Intelligence: NewYork: Bantam Book.

Halpin, A.W. Theory and Research in Educational Administration. Collier Mac.

Kochar, S. K. (1994). *Secondary School Administration*. Jullandhar: Jullandhar University Publications.

Mukherji, S. N. Secondary School Administration. Baroda: Acharya Book Depot.

Naik, J. P. (1969). *Institutional Planning*. New Delhi: Asian Institute of Planning and Administration.

Owenss, R. G. (1970). Organizational Behaviour in Schools. New Jersey: Prentice Hall.

Robbin, S., Judge, T., and Vohra, N. (2012). Organizational Behaviour. Delhi: Pearson.

Safeya, R., and Shaida, B. D. (1964). *School Administration and Organisation*. Delhi: Dhanpatrai & Sons.

Bhatnagar R.P. and Verma I.B.(1978) Educational supervision, layal book depot, Meerut.

Bhatnagar R.P. and Aggarwal, V. (1986) Educational administration and management, leyal Book depot Meerut.

Paper – IV (A) (Pedagogy of Subjects Part- I Method I & II) ENGLISH METHOD

COURSE OBJECTIVES:

- To become aware of the nature and system of Language, Language Acquisition and Language Learning.
- To understand the nature and characteristics of English Language.
- To develop a perspective on English Language education in Indian context.
- To critically examine the English language curricula at school level.
- To understand the dynamic nature of beliefs and assumptions about language learning and Pedagogy of language teaching.
- To develop the ability of applying various Teaching Strategies for creating effective learning environment.
- To develop the ability of creating different learning resources.
- To understand the nature of comprehensive evaluation in Language.
- To develop the ability of locating 'Hard Spots' and planning Remedial Strategies for Learners.
- To become effective language teachers by continuous learning and exploring the existing theories and practices in language education.

Year	I	TEACHING OF ENGLISH	Credit	2+1
Semester	II		Hours	32+32
Unit -I	Nature and System of Language		6 hrs.	
	Natu	re and characteristics of language (Difference wi	th Dialect and	
	Regi	sters), Language and Socialisation, Language a	as a system	
	cons	isting of several subsystems – at sound level, w	ord level and	
	sentence level.(Basic concepts in Phonology, Morphology, Syntax			
	and	Semantics).		
Unit-II	Lang	uage Acquisition and Language Learning		8 hrs.
	Philo	psophical, sociological and psychological base of lang	guage learning.	
	Beha	viouristic, Cognitive, Constructivist and linguistic vie	ew of language	
	learr	ning. Piagetian, Vygotskyan and Chomskyan principl	es of language	
	acqu	isition.		
Unit-III	Engli	ish Learning in India		5hrs.
	Signi	ficance of Learning English at Global con	text. Historical	-
	perspective and socio-cultural role of English in India. Position and			
	role of English in modern India. Teaching English as First			
	Language, Second Language and Library Language. Challenges of			
	teaching English in India.			
Unit-IV		hods of Language Teaching		8 hrs.
	Analysis of Different Methods with respect to their Strength and			
	Limit	tations :		
	Grammar cum Translation Method, Direct Method, Bilingual			
	Appr	oach, Dr. West's Method, Structural Approach, G	Communicative	
	Appr	oach, Situational Approach, Interdisciplinary Appro	bach	
Unit-V	Effec	tive Teaching and Language Teacher		5 hrs.
	Esse	ntials of good Teaching. Qualities of an Effe	ctive Teacher.	
	Unde	erstanding Reading, Writing, Speaking and Listen	ing Skill with	
	Special Reference to Classroom Techniques of their Development.			
	Strat	egies for developing Vocabulary.		
	SUGGESTED ACTIVITIES			32 hrs
	1. Visiting Language Laboratory, Practicing Stress Patterns and			
		Intonation in English.	~	
		 Project/ Survey on Various Issues Related to Lan Analysing Position Papers on 'Teaching of Englishing 		
		Presentations and Discussion on Contemporary		

European and African Literature.	
5. Critical Review of a Recently Published Book/Article/Poem.	
6. Review of Children Literature/ Popular Folk Tales.	
7. Creative Writing in English/ Translation of Articles and	
Poems from other Language.	
8. Practicing different Formats of Writing.	
9. Speech, Debates and Elocution and Role Play	
10. Preparing Study Material of English with interdisciplinary	
approach.	

fgUnh f'k{k.k

mn∼ns';	
•	Hkk"kk dh vyx&vyx Hkwfedkvksa dks tkuuk
•	Hkk"kk ds fofo/k :iksa ls ifjfpr djkuk
•	Hkk"kk lh[kus dh izfØ;k dks tkuuk
•	Hkk"kk;h dkS'kyksa ls ifjfpr djkuk
•	Hkkjr esa fgUnh Hkk"kk dh Hkwfedk dks le>uk
•	Ldwy dh Hkk"kk] cPpksa dh Hkk"kk vkSj le> ds chp ds laca/k dks tkuuk
•	Hkk"kk lh[kus ds rjhds vkSj izfØ;k dks tkuuk vkSj le>uk
•	ikB~;p;kZ] ikB~;Øe vkSj ikB~;iqLrd dk fo'ys"k.k
•	fgUnh Hkk"kk dk vU; fo ky;h fo"k;ksa ds lkFk laca/k dks tkuuk
•	Hkkoksa vkSj fopkjksa dh Lora= vfHkO;fDr djuk
•	fgUnh f'k{k.k ds mn∼ns';ksa ls ifjfpr djkuk
•	fgUnh Hkk"kk f'k{k.k dh i)fr;ksa dk Kku djkuk
•	lgk;d f'k{k.k lkexzh dh mikns;rk ls voxr djkuk
_	

- Hkk"kk ds ewY;kadu dh izfØ;k dks tkuuk
- Hkk"kk lh[kus&fl[kkus ds l`tukRed n`f"Vdks.k dks le>ukA

Year	I	fgUnh f'k{k.k	Credit	2+1
Semester	II		Hours	32+32
bdkbZ 1	fgU	nh Hkk"kk dk vFkZ ,oa Lo:i		5 hrs.
	•	✓ Hkk"kk dh ifjHkk"kk		
		✓ Hkk"kk vkSj vfLerk		
		✓ fgUnh Hkk"kk dh fo'ks"krk,i		
		Iekt esa fgUnh Hkk"kk dk LFkku		
bdkbZ 2	fgU	nh Hkk"kk ds fofo/k :i		5hrs.
	,	✓ fgUnh ekr`Hkk"kk ds :i esa		
	,	✓ fgUnh jk"V ^a Hkk"kk ds :i esa		

	 ✓ fgUnh izFke ,oa f}rh; Hkk"kk ds :i esa ✓ fgUnh Hkk"kk ek/;e ds :i esa 	
bdkbZ 3	Lkafo/kku vkSj f'k{kk lfefr;ksa ds izfrosnu esa Hkk"kk	7 hrs.
	 ✓ Hkkjrh; lafo/kku esa Hkk"kkvksa dh fLFkfr ¼/kkjk 343&351] 350%1½ ✓ jk"V^ah; ikB~;p;kZ :ijs[kk ¼,u- lh- ,Q-&2005½ esa Hkk"kk ✓ Hkk"kk leL;k ,oa f=Hkk"kk lw= ✓ cgqHkkf"kd d{kk ,oa mldh pqukSfr;k; 	
bdkbZ 4	Hkk"kk;h dkS'kyksa dk fodkl	8 hrs.
 ✓ Jo.k dkS'ky% vFkZ ,oa egRo] Jo.k nks"k] dkj.k] Jo.k nks"kksa dk fujkdj.k ,oa Jo.k dkS'ky dk fodkl ✓ okpu dkS'ky% vFkZ ,oa egRo] mPpkj.k nks"k] dkj.k] mPpkj.k nks"kksa dk fujkdj.k ,oa okpu dkS'ky dk fodkl ✓ iBu dkS'ky% vFkZ ,oa egRo] iBu ds izdkj] iBu nks"k] dkj.k] iBu nks"kksa dk fujkdj.k ,oa iBu dkS'ky dk fodkl ✓ ys[ku dkS'ky% vFkZ ,oa egRo] vkSipkfjd vkSj vukSipkfjd ys[ku] orZuh v'kqf);ksa ds dkj.k] orZuh v'kqf);ksa dk fujkdj.k ,oa ys[ku dkS'ky dk fodkl ✓ Hkk"kk iz;ksx'kkyk 		
bdkbZ 5	Hkk"kk f'k{k.k dh fof/k;kj@iz.kkfy;kj	7 hrs.
	 ✓ izpfyr fof/k;k;% O;kdj.k iz.kkyh] izR;{k iz.kkyh] vuqokn iz.kkyh ✓ uohu fof/k;k;% ekUVsljh i)fr] fd.Mj xkVZu] ifj;kstuk fof/k ,oa [ksy fof/k ✓ fgUnh f'k{k.k fof/k dh izHkko'khyrk dk ewY;kadu 	
	Xkfrfof/k	32
	 d{kk N% ls vkB rd ds fo kfFkZ;ksa dh Hkk"kk dk voyksdu djrs gq, fgUnh ds fofo/k :iksa ij ,d fjiksVZ rS;kj dhft,A foKku] lekt foKku vkSj xf.kr dh d{kk N% ls lkr dh fdrkcksa ds dqN va'k pqudj fo'ys"k.k dhft,& D;k ;g cPps ds Lrj ds vuq:i gS\ D;k ;g Hkk"kk lh[kus esa lgk;d gS\ vius vkl&ikl ds ik;p Ldwyksa dk nkSjk dj ;g tkudkjh izklr djrs gq, ,d fjiksVZ rS;kj djsa fd f=Hkk"kk lw= dh D;k fLFkfr gS\ Lkquus vkSj cksyus esa vleFkZ cPpksa dks /;ku esa 	hrs.
	j[krs gq, fgUnh f'k{k.k dh nks xfrfof/k;ki rS;kj djsaA	

5. lh-ch-,l-bZ- ,oa >kj[k.M cksMZ ds fo kfFkZ;ksa esa fgUnh Hkk"kk dh fLFkfr dk rqyukRed fo'kys"k.k dhft,A	

BIOLOGICAL SCIENCE METHOD

Course Objectives:

The course will enable student-teachers

- Gain an understanding of the nature and scope and objectives of Biological Science.
- Appreciate Biological Science as a dynamic body of knowledge understand about the pedagogy in Biological Science.
- Develop effective plans for learning Biological Sciences.
- Trace the changing trends in learning of Biological Science.
- Explore the resources specific for the learning of children with special needs.
- Facilitate development of scientific attitudes in learners.
- Understand that evaluation of students can be done in a formal and informal way.

Year	I	TEACHING OF BIOLOGICAL SCIENCE	Credit	2+1
Semester	II		Hours	32+32
Unit -I	Biolo	gical Science as a dynamic body of knowledge		6 hrs.
	•	Meaning and concept of life science		
	•	Nature of knowledge in Biological Science		
	• Importance of life science in society			
	•	Relationship of life science with other subjects		
Unit-II	The o	changing emphasis in learning Biological Science		5 hrs.
	 General aims and objectives of Biology Science Aims of life science teaching at different stages of school education Specification for the objectives of teaching life science Formulation of Instructional objectives in life science: Taxonomy of educational objectives as given by Bloom's 			
Unit-III	Biolo	gical Science curriculum		8 hrs.
	•	Strategies and principles of curriculum co secondary school Place of Biology Science in secondary school curr Problems connected with Biology teaching		
Unit-IV	Peda	gogy in Biological Science		8 hrs.
	•	Strategies of teaching Biological science:		1

	Lecture method, Lecture-cum demonstration method, Discovery method, Project method, Laboratory method, problem solving method	
Unit-V	Professional Development of Biological Science Teachers	5 hrs.
	 Professional competencies of Biology teacher Professional ethics of Biology teacher 	-
	SUGGESTED ACTIVITIES	32 hrs.
	1. Survey of Biological Laboratory in a school.	
	2. Visit to wild life sanctuary/Zoo/Bio reserves/Botanical garden etc.	
	3. Projects on studies of plant and animal species in different eco- systems like ponds, grassland, forests and gardens.	
	4. Written assignment.	
	5. Providing opportunities for group discussion.	
	6. Preparation of posters and charts to point out vitamin deficiency diseases, first aid, good posture habits, safety measures to prevent the accident at home and school, good health habits etc.	
	7. Preparation of bulletin boards with pictures, maps and posters related to conservation.	
	8. Preparation of charts, figures, models sharing various nutrition deficiency diseases in human beings.	

PHYSICAL SCIENCE METHOD

OBJECTIVES: To gain insight into the meaning, nature, scope and objectives of science education.

- To appreciate the science, as a dynamic body of knowledge.
- To have knowledge of aims and objectives of teaching Physical Science at secondary level.
- To teach Physical Science by using various strategies and methods.
- To identify and relate everyday experiences with learning science.
- To use various evaluation techniques.
- To prepare tools of evaluation in Physical science.
- To use various learning resources effectively.
- To conduct experiments in the laboratory.

Year	I	TEACHING OF PHYSICAL SCIENCE	Credit	2+1
Semester	II		Hours	32+32
Unit -I	Natu	ture of Science		
	Scie	ience as domain of enquiry, as a dynamic expanding body of		
	knov	wledge, role of science in bringing advancements, impact of science		

	on society (in removing superstitions, ignorance and poverty,	
	environmental concerns and ensuring gender equity), place of science	
	in school curriculum.	
Unit-II	Popularization and propagation of science	5 hrs.
	Modes of popularization and propagation of science, science fair,	-
	science club, field trips, magazine, journal, museum, quiz etc. Low cost	
	life related experiences, role of science teacher in developing interest	
	of students in science subject.	
Unit-III	Methods and strategies of teaching learning physical science	8 hrs.
	Use of various strategies and methods in teaching learning of Physical	-
	science, - Lecture cum demonstration method, Project method,	
	Assignment method (in small groups), Problem solving method, Self	
	learning strategies- Computer assisted instruction, group self learning	
	strategies. Debate, Discussion.	
Unit-IV	Learning Resources	
	Utility of various learning resources, improvised learning resources,	-
	presentations in the classroom, use of ICT in teaching learning of	
	Physical Science	
Unit-V	Teaching Learning of Physical Science	
	Identification and organisation of concepts for teaching learning of	
	science/physics and chemistry (motion, work and energy, matter,	
	carbon and its compounds, energy, periodic properties of elements,	
	atomic structure, dual nature of matter, radiation etc.) designing	
	teaching learning experiences, ICT applications in learning	
	science/physics and chemistry.	
	SUGGESTED ACTIVITIES	32 hrs.
	1. Preparation of list of competencies required for an effective	-
	physical science teacher (discussion)	
	2. Preparation of learning resources (charts, models)improvised	
	apparatus	
	3. Preparing assignment sheets based on the topics	
	4. Performing simple experiments in the laboratory related to the	
	content	
	(i) Verify laws of reflection	
	(ii) To measure the diameter of cylinder using vernier callipers(iii)Using screw guage to measure diameter of cylinder	
	(iv)Preparation of crystals from impure sample of CuSo4	
	(v) To determine the density of solid (denser than water) by using a	
	spring balance and measuring cylinders	

(vi)To prepare a true solution, a suspension and colloidal solution(vii) To separate the components of a mixture of sand, common	
salt and ammonium chloride (or campher) by sublimation	
(viii) To carry out simple chemical reactions	

MATHEMATICS METHOD

YEAR	Ι	TEACHING OF MATHEMATICS CREDIT	2+1		
Semester	II	TEACHING OF MATHEMATICS HOURS	32+32		
Essence of	the C	Course:			
Mathematic	cs is t	the useful subject to one and all. It has its utilitarian value, practical value and			
disciplinary	v valu	e. It contributes a lot to development of human civilization. This course will de	evelop		
methods an	d ski	lls of teaching Mathematics and students will understand its importance along	with		
contribution	n to t	he field of knowledge.			
OBJECTIV	'ES	Student teacher will be able to:			
:		1. Understand nature of Mathematics as a discipline.			
		2. Understand general objectives of teaching Mathematics.			
		3. Formulate instructional objectives in terms of behavioural outcomes.			
		4. Analyze the content in terms of concepts, sub-concepts and relation	between		
		them.			
		5. Select and organise learning experiences according to content and	level of		
		students.			
		COURSE CONTENT / SYLLABUS			
	Nat	ture of Mathematics			
		• The discipline of Mathematics - Its concept, nature and structure.	-		
		Place of Mathematics in School Curriculum.			
UNIT-I		• Values of Mathematics [Long term objectives] : Cultural value,			
		Disciplinary value and Utilitarian value			
		• Correlation of Mathematics with other subjects			
		Contribution of the Indian Mathematicians			
	UD	jectives of Teaching Mathematics	-		
		• Objectives of teaching Mathematics at Secondary/Higher Secondary			
		Level: [As recommended by various reports]			
		• General Objectives of teaching Mathematics [Knowledge, Understanding, Application, Skills, Interest, Aptitude, Appreciation]			
UNIT-II		 Instructional objectives of teaching Mathematics [Knowledge, 	6 hrs.		
		Understanding, Application, Skills, Interest, Aptitude, Appreciation]			
		 Axiomatic Framework of mathematics 			
		 Axioms, Postulates, Undefined terms, Defined terms 			
		 Proofs- types of proofs 			

	Planning of Instruction in Teaching of Mathematics	
	• Content categories in Mathematics: [Facts, Concepts, Illustrations,	8 hrs. 6 hrs. 6 hrs.
	Generalisations etc.]	
UNIT-III	Content Analysis in Mathematics	8 hrs.
	• Problem solving, concept and its formation	
	• Designing of learning experiences in Mathematics	
	• Lesson plan and Unit plan with their specific steps	
	Various Methods/Approaches for Teaching of Mathematics	
	Inductive-deductive	
UNIT-IV	Analysis Synthesis	6 hrs.
	Problem solving	
	{With specific illustrations for their use in teaching of Mathematics }	
	Evaluation in Mathematics	
	• Various types of questions useful in evaluation	
	Concept of Diagnosis in Mathematics	
UNIT-V	• Concept of Remediation in Mathematics	6 hrs
UINII-V	Preparation of Achievement test	0 11 5.
	Preparation of Diagnostic test	
	Blue print	
	Preparation of question paper	
	MODE OF TRANSACTION	
Lecture, le	cture cum Discussion, project work, Demonstration of A. V. Aid, Action Research,	
	Visit, Group work and its Presentation	
	SUGGESTED ACTIVITIES	
The followi	ng practical work be carried out by the student teachers :	
• Wri	te an essay on nature of Mathematics and contribution of Indian Mathematicians.	
• Prep	paration of various teaching aids.	
-	paration of programmed learning material for selected Units in Mathematics.	
-	luation of Mathematics text book.	
	struction of various types of test items.	
	struction of achievement and diagnostic tests.	
	-	22 hrs
	tify the slow learners, low achievers and high achievers in Mathematics from the	52 1118.
	sroom during practice teaching. (Case study)	
	ducting of Action Research for selected problems.	
	elopment and tryout of Teaching-learning strategy for teaching of particular	
	hematical concepts.	
	of Computer in Teaching of Mathematics.	
• Use	of Mathematics activities for recreation.	
• Dev	elopment and use of Mathematics laboratory.	
• Prep	pare mathematical activities in the context of socio-cultural aspects.	
	27	

REFERENCES

(English)

Anice, J. (2008). Methods of Teaching Mathematics. New Delhi: Neelkamal Publications.

- Butler, C. H., Wren F. L. and Banks, J. H. (1971). *The teaching of Secondary Mathematics*. New York : McGraw Hill.
- Coney, T. J., Davis, G. J., and Hen Derson, K. B. (1975). *Dynamics of Teaching Secondary School Mathematics*. Boston: Houghton - Mifflin co.
- Ediger, M., and Rao, B. (2000). *Teaching Mathematics successfully*. New Delhi: Discovery Publishing House.
- Kidd, P. K., Myers, S. S., Cilley David, M. (1970). *The Laboratory Approach to Mathematics*. Chicago: Science Research Associates Inc.
- Kinney, L. B., and Purdy, C. R. (1965). *Teaching of Mathematics in Secondary School*. New York; Holt, Rinchart and Winston.
- Koehler, M. J. & Mishra, P. (2008). Introducing technological pedagogical content knowledge. In AACTE Committee on Innovation and Technology (Eds)., *Handbook of technological pedagogical content knowledge (TPACK) for educators*. New York: Routledge.
- Kolb, J. R., and Bassler, O. C. (1979). *Learning to teach secondary School Mathematics*. London: In text Educational Pub.
- Kothari, R. G., and Mistry, H. S. (2012). *Diagnosis of Learning Difficulties on Fractions and Decimals: A study on the students of upper primary schools*. Germany: Lambert Academic Publishers.
- Kothari, R. G., and Shelat, P. H. (2011). *Mathematical weaknesses among secondary school students*. Germany: VDM Verlag Publishers.
- Kumar, S. (1993). Teaching of Mathematics. New Delhi: Anmol Pub. Pvt.
- Mottershead, L. (1978). Sources of Mathematical discovery. Oxford : Basil black Wall.
- Nickson, M. (2006). Teaching and Learning Mathematics : A Guide to Recent Research and its Application. London: Continuum

Packiam, S. (1983). Teaching of Modern Mathematics: A New Approach. New Delhi: Doaba House.

Pandya, B. (2007). Teaching of Mathematics. Agra : Radha Prakashan Mandir.

- Paul, C. (2008). *Teaching Mathematics : Developing as a Reflective Secondary Teacher*. New Delhi: Sage Publication.
- Rao, N. M. (2007). A Manual of Mathematics Laboratory. New Delhi: Neelkamal Publications.
- Reeve, W. D. (1954). *Mathematics for the Secondary School.* New York: Holt, Rinehart and Winston, Inc.
- Servais, W., and Varga, T. (Ed.) (1971). *Teaching School Mathematics*. A UNESCO Source Book. UNESCO, Penguin books.

Shah G. B. (1964). New Dimensions in teaching of Mathematics. Baroda : CASE.

Sidhu, K. B. (1974). *The Teaching of Mathematics*. New Delhi: Sterling Pub. (p). Ltd. (LB 1646 14 54)

Singh, H., Avtar, R., and Singh, V. P. (2008). *A Handbook for Designing Mathematics* (Hindi)

Ravat, M. S., and Agrawal, M. (1986). Ganit Shikshan. Agra: Vinod Pustak Amandir.

(Gujarati)

Joshi, H. O. (1997). Ganit Shashtra Adhyapan Padhdhati. Amadavad: BAOU.

- Joshi, P. M., Sejpal, D. K., Parikh, K. O., and Patel, N. B. (1988). *Ganit Na Adhyapan Nu Parishilan*. Amdavad: B.S. Shah Prakashan.
- Kothari, R. G., Doctor, I. H., and Patel, V.G. (1996). *Ganit Adhyapan Padhdhati* Amdavad : Anand Book Depot.
- Mahant, G. V., Trivedi, M. D., Patel, J. A., and Dave (1981). *Ganit Shikshan Padhdhati*. Amadavad: A. R. Sheth & Co.

Patel J. Z., and Jani, P. N. Hand-Book for Mathematics Teachers. V. V. Nagar: Manisha Prakashan.

GEOGRAPHY METHOD

OBJECTIVES:

- To develop an understanding of the nature of the knowledge in Geography.
- To develop an understanding in correlation aspect of the subject with other disciplines at secondary stage.
- To trace the changing trends in learning Geography with respect to its goals and approaches to learning.
- To develop the ability to organize learning experiences according to the nature of learning of the learner.
- To develop ability to analyze principles, designs and materials produced in the curriculum of Geography
- To identify issues and concerns related to the subject in present times.
- To examine the different ways in which learning situations can be created to learn concepts of Geography.
- To formulate different strategies for classroom transaction of knowledge of Geography.
- To explore the use and relevance of different learning resources and materials in learning different units in Geography.
- To understand the need and aims of evaluation of learning outcomes.
- To arrange the Geography laboratory in schools and develop knowledge of facilities and materials available in the laboratory that facilitate learning of Geography.
- To appreciate the importance of knowledge of Geography in day to day dealings in life.
- To inculcate right values and competencies for development in the profession of teaching of Geography.

Year	I TEACHING OF GEOGRAPHY Credit	2+1
Semester	II Hours	32+32
Unit -I	Foundation of Geography Education	
	 Meaning, Concept and Importance of Geography in the presen context Nature and Scope of Geography Geography and its correlation with other school subjects Geography and development of learner 	t 6 hrs.
Unit-II	Teaching Learning of Geography	
	 Content Analysis Differentiating between sites (location) and situation (place) Various resources and their distribution Patterns of human activities Environmental degradation and its prevention 	7 hrs.
Unit-III	Strategies and Methods of Teaching Geography	
	 ✓ Teacher controlled- Lecture, Demonstration, Team teaching ✓ Learner controlled – Individual self learning strategies - P (Programmed instruction), PSI (Personalised System or Instruction), CAI (Computer-assisted instruction), and Projects Group self-learning strategies- Discussion, Debate discussion Seminar, Brainstorming, Simulation through role playing, Group investigation 	f ,
Unit-IV	Teaching Learning Resources in Geography	
	 ✓ Primary and Secondary sources ✓ Various teaching aids (visual, audio and audio-visuals) ✓ Use of ICT in teaching and learning of Geography ✓ Geography resource room 	6 hrs.
Unit-V	Development of Skills associated with Teaching-Learning o	
	 Geography ✓ Map reading and analysis (Latitude, Longitude and map references) ✓ Case study, action research and Survey ✓ Interpretation of Diagrams, Charts, Tables & Graphs ✓ Report writing 	5 hrs.
	SUGGESTED ACTIVITIES	
	 Visits to a village, locality of a town, an industrial site, a hyde power project or a mining locality and preparation of a report or its geographical personality, development problems and measures for solution. Preparation of a project report on an industry, tourism, mining crop etc. using secondary data Preparing a report on the status of Environmental pollution in Ranchi 	1 32 hrs.

4.	Preparation of various types of learning resources (for hybrid	
	teaching)	
5.	Preparing self learning instructional material	
6.	Interpretation of topographical sheet	
7.	Geographical tools and equipments- a visit to geography laboratory	
8.	Teaching presentation on various topics of geography at secondary level	

CIVICS/POLITICAL SCIENCE METHOD

Course obje	ectives	:		
The course	will en	able student-teachers		
• To dev	velop a	and understand of the nature and importance of Civi	cs/Pol.Sc.	
• To und	dersta	nd of the place/ importance of Civics/Pol.Sc.		
• To acc schoo	•	nowledge about aims and general objectives of Civic	s teaching in s	econdary
• To inte	egrate	knowledge within components of Civics/Pol.Sc with	other school s	subject.
		changing trends in learning of Civics/Pol.Sc. With rest to learning.	spect to its goa	als and
	•	he content in learning of Civics/Political Sc. With resk knowledge organization and other critical issues.	pect to its cate	gories,
 To devalue and st 	•	ability to teach different content/topics of Civics/Pol. es.	Sc. with variou	us methods
	-	ability to use various learning recourses effectively.		
		ability to understand different political issues.		
	ntify	theme in Civics/Pol.Sc. In which community can be us	sed as a learni	ng
• To ide	ntify a	nd relate everyday experiences with learning Civics.		
Year	I	TEACHING OF CIVICS/POLITICAL SCIENCE	Credit	2+1
Semester	П		Hours	32+32
Unit -I	Four	ndation of Civics /Pol.Sc.Teaching		8 hrs.
		 Meaning, nature and scope of Civics/Pol.Sc. Aims and objectives of Civics/Pol.Sc. teaching Correlation of Civics with different subjects Place and importance of Civics as a subject 	t in the sch	ool
		curriculum		

	✓ Place and importance of Civics as a subject in the school curriculum				
Unit-II	Methods of Civics /Pol.Sc.Teaching	8 hrs.			
	✓ Discussion method				
	✓ Project method				
	✓ Problem solving method				

	✓ Unit method			
	✓ Source method			
	✓ Lecture method			
Unit-III	t-III Learning resources in Civics/Pol.Sc.			
	✓ Audio-visual aids: Picture, Chart, Map, Time line			
	✓ Text book			
	✓ Community resources			
	✓ News paper and Magazine			
	✓ Civics Room			
Unit-IV	Curriculum for Civics/Pol.Sc.	5 hrs.		
	\checkmark Principle of selection and organisation of the material content			
	✓ Issues and concerns of Civics curriculum addressed by NCF 2005			
Unit-V	Current affairs and Issues in Civics/Political Science	6 hrs.		
	✓ Need and importance of current affairs and issues			
	✓ International issues			
	✓ National issues			
	✓ Local issues			
	SUGGESTED ACTIVITIES	32 hrs.		
	1. Collection of data and information about one current problem as			
	prescribed in school syllabus			
	2. Presentations related to current political issues.			
	3. Preparing Album, scrap book related to contemporary issues			
	4. To visit neighborhood and conduct a socio-economic survey			
	5. Mock Session			
	6. Organizing discussions, debates, quiz on Political and social			
	Issues.			

HISTORY METHOD

OBJECTIVES:

- Develop an understanding of the nature and importance of History.
- To understand the importance of History.
- Explore the use and relevance of different learning resources and materials in learning different units in History.
- Ability to teach different content/topics of History with various method and strategies.
- Reflect upon his/her experimental knowledge in the different processes of becoming a History student.
- Conduct History related activities through History club, History fair, History science exhibitions during school attachment.
- Ability to develop time sense.
- Ability to use various learning of History sources effectively.

• Identify themes in History in which community can be used as a learning resources.

Year	I TEACHING OF HISTORY Credit	2+1		
Semester	II Hours	32+32		
Unit -I	Foundation of History Education			
	 Meaning nature and scope of History Aims and objectives of teaching History Importance of History Place of History in secondary school curriculum Correlation of History with different subjects 			
Unit-II	Methods of teaching History	5 hrs.		
	 Meaning of teaching method Difference between method and technique Types of method: story telling, source method, project method, discussion method, lecture method, text book method 			
Unit-III	Techniques of Teaching History	8 hrs.		
	 ✓ Simulated teaching ✓ Team teaching ✓ Programme Instruction ✓ Seminar technique ✓ Conference technique ✓ CAI meaning uses and its limitations ✓ ICT in History 			
Unit-IV	Teaching learning of History			
	 ✓ History at different stages ✓ Nationalism in Europe ✓ French revolution, Russian revolution, American revolution ✓ Nasism ✓ Reforms in Indian History ✓ The national movement 			
Unit-V	Learning resources in History			
	 ✓ Text-book ✓ Audio-visual aids ✓ Difference between Geographical and historical map ✓ Field trip, excursion ✓ Time line, time chart, history classroom 			
	SUGGESTED ACTIVITIES			
	 Project work using ICT on any History lesson Preparation of teaching aids and organizing exhibition Analysis of History text book and other curriculum materials Visiting History places and writing report Preparing time line and time chart 			

ECONOMICS METHOD

OBJECTIVES:

- To develop the understanding of the meaning nature and scope of Economics.
- To understand the importance of Economics.
- To acquire knowledge about correlation of Economics with other subjects.
- To develop ability to teach different topics of Economics with various method and strategies so as to teach economics effectively.
- To develop ability to use various learning resources effectively.
- To analyze the curriculum of Economics.
- To develop the ability to understand different economic issues.
- To enhance ability to correlate everyday experiences with learning economics in daily life.

Year	I	TEACHING OF ECONOMICS	Credit	2+1	
Semester	II		Hours	32+32	
Unit -I	Foundation of Economics Teaching			6 hrs.	
	✓ Meaning, Nature and Scope of economics.				
	✓ Correlation of Economics with other school subjects.				
	✓ Place of Economics in the school curriculum.				
Unit-II	Aims	s And Objectives of Economics Teaching		5 hrs.	
	v	Difference between aims and objectives.		-	
	v	 Writing of instructional objectives of Economic 	s Teaching in		
		Behavioural terms.			
Unit-III	Methods of Economics Teaching			8 hrs.	
	✓ Lecture – cum- Demonstration method.				
	 Mastery – Learning method, Project Method. 				
	v	Problem-Solving Method.			
	v	Discussion Method.			
	v	Viit Method.			
Unit-IV	Teaching Aid in Economics			5 hrs.	
	v	 Meaning importance, objectives, usage of Teachir 	ng Aids.	-	
	v	 Types: Traditional and New aids. 			
	v	Visual, Audio, Audio-Visual Aids.			
Unit-V	Теас	Teaching Learning of Economics		8 hrs.	
	✓ Concept of Economic Growth and Development.			1	
	✓ Planning, Five year plans.				
	~	Economic problem of India-Unemployment, Pov	erty and their		
		data analysis.			
		SUGGESTED ACTIVITIES		32 hrs.	

 Preparation related to current Economic issues. Visit of local industries - small scale industry or large scale
industry.
3. Presentation of economic content through table, chart, pictures, graphs based on Primary and secondary data.
4. Preparing album scrap book related to Economics issues of Ranchi/Jharkhand.
5. Organizing discussion, debates, duly related to Economics issues.

Year	I	TEACHING OF COMMERCE	Credit	2+1	
Semester	II		Hours	32+32	
Unit -I	Concept of Commerce			8 hrs.	
	\checkmark	Meaning need and scope of Commerce.			
	✓	 Importance of the subject. 			
	✓	Co-relation with other subjects with Busi	ness, Maths,		
		Economics, Geography, Book-Keeping, Science lan	guage.		
Unit-II	Aims	and Objectives of Commerce Teaching		6 hrs.	
	✓	Aims and objectives of teaching at Secondary	y and Higher		
		Secondary level.			
	\checkmark	Writing of instructional objectives of Commerce	e Teaching in		
		Behavioural terms.			
	✓	Difference between aims and objectives.			
Unit-III	Comr	nerce Teacher		4 hrs.	
	✓ Qualification and training, qualities.				
	✓ Roles and responsibilities.				
	~	Professional growth.			
Unit-IV	Teach	ning Aid		6 hrs.	
	~	Meaning importance, objectives usage of Teaching	g Aid.		
	✓	Types: Types Traditional and New Aids.			
	~	Visual, Audio, Audio Visual Aids.			
	Techniques of Commerce Teaching				
	✓ Questioning, Assignment, Seminar.				
Unit-V		Workshop, Educational Conference, panel	discussion,	8 hrs.	
	symposium				
	✓ Observation Lesson planning: Concept, Importance of lesson				
	planning, construction of observation lesson plan for commerce				

COMMERCE METHOD

class		
	SUGGESTED ACTIVITIES	
2. 3.	Preparation related to commerce issues. Visit to local companies, firms regarding maintenance of Accounts. Presentation of Business & commercial contents through-table, chart, pictures and graphs based an primary and secondary data. Preparing album regarding commercial events/activities of Ranchi/Jharkhand.	32 hrs.

EPC-IV (**ICT-Part I**)

YEAR	I	ICT	CREDIT	4+1	
Semester	II	1	HOURS	64+32	
OBJECTIVES:	1.	To acquaint teacher trainees with different parts of Computer System and their functions.			
	2.	To develop competency among teacher trainees to use Online and			
	3.	Off line electronic resources. To acquaint teacher trainees with the facilities available on Internet.			
		To train the teacher trainees in handling MS-Word and MS- Excel.			
		To explore the environment of $WINDOW - O$			
	6.	To acquaint teacher trainees with the terminol	logy and Cont	figuration	
		of Computers.			
	1	COURSE CONTENT / SYLLABUS			
UNIT - I		uction to Computer System. History and Ev	olution of	2	
	Compu	uter System.		HOURS	
	Charac	teristics of Computer System		2	
	•	Speed		HOURS	
	•	Storage			
		Accuracy			
		Versatile			
	•	Automation Diligence			
	Classification of Computers				
		Mechanical		•	
		Electro Mechanical		2	
		Electronic		HOURS	
		Digital			
		 Micro computer 			
		 Mini computer 			
		 Mainframe computer 			

	 Super computer Personal Digital Assistant Data representation within Computer System Binary Number System Octal Number System Hexadecimal Number System Conversion of data from Decimal to Binary Number System and vice versa Decimal to Octal Number System and vice versa Decimal to Hexadecimal Number System and vice versa Binary to Octal Number System and vice-versa Binary to Hexadecimal Number System and vice versa Binary to Hexadecimal Number System and vice versa 	4 HOURS
	Liveware	
UNIT - II	Computer Hardware and Its type	2 HOURS
	Input Device	2
	 Keyboard 	HOURS
	 Mouse 	
	 Touch screen 	
	 MICR 	
	 LIGHT Pen 	
	 Joy Stick 	2
	 Digitizer 	HOURS
	• Scanner	HOUKS
	Output device Viewel display upit	2
	Visual display unitPrinter	2
	► Printer ≻ Laser	HOURS
	 Laser Inkjet 	
	Storage Device	
	 Computer Memory and its type 	
	Primary Memory	1
	ROM	HOUR
	• RAM	1
	Secondary Memory	HOUR
	Hard Disk	
	• Tape	
	Compact Disk	
	Digital Video Disk	

	• Pen Drive etc.	
	Processor	
	• How to select a Personal Computer	
	 Configuration of Computer System 	
UNIT - III	Working with Ms. Word	12
		HOURS
	Starting MS-Word: Creating a document, Opening a document, saving a document, editing, formatting text, viewing documents; formatting documents- line spacing, paragraph spacing, setting tab, indenting text, aligning text; adding header and footer; numbering page; inserting a table; proofing a document- spell check, automatic spell check, auto text, auto correct; printing a document; mail merge; simple trouble shooting; use of MS. Word in education. Preparing a resume.	
Suggested Activities	 Conversion of data from Decimal to Binary Number System and vice versa Decimal to Octal Number System and vice versa Decimal to Hexadecimal Number System and vice versa Binary to Octal Number System and vice-versa Binary to Hexadecimal Number System and vice versa Starting MS-Word Creating a document Opening a document Editing, formatting text, viewing documents; Formatting documents- line spacing, paragraph spacing, setting tab, indenting text, aligning text; Adding header and footer; numbering page; inserting a table Proofing a document- spell check, automatic spell check, auto text, auto correct Mail merge Preparing a resume. 	16 HOURS
Delhi: B 2. Introduc 3. Flynn, M	REFERENCES : .K.: Computer Fundamentals: Concepts, Systems, and Applications. N PB Publications, 1992. tion to Computer Science; 2 nd Edition, Pearson. Meredith and Rutkosky, Nita: Advanced Microsoft Office 2000. New I blications, 2000.	
-	Douglas: Excel 4 for Windows – Instant Reference. Singapore: Tech ations PTE Ltd., 1992.	

5. Hillman, David: Multimedia Technology and Applications. New York: Delmar Publishers, 1998.
6. Matthews, Martin: Windows 95 Power Tools. New York: Random House Electronic Publishing, 1995.
7. Minasi, Mark, Christiansen, Eric, & Shapar, Kristina: Expert Guide to Windows 98. San Francisco: Sybex, 1998.
8. Nagpal, D.P.: Computer Course. New Delhi: Wheeler Publishing, 2001.
9. Oberlin, S.K,Kervran,P. & Cox,J: A Quick Course in Windows 3.1.Delhi: Jaico Publishing House, 1993.
 Rajaraman, V.: Fundamentals of Computers. New Delhi: Prentice Hall of India Pvt. Ltd., 1997.
11. Rathbone, Andy: Windows for Dummies. Delhi: Pustak Mahal, 1993.
12. Ray, John: Special Edition Using Microsoft TCP / IP. New Delhi: Prentice Hall of India Pvt. Ltd., 1997.
13. Sanders, Donald H.: Computers Today. New York: McGraw Hill Book Co., 1988.
14. Sansanwal, D.N.: Information Technology and Higher Education. UNIVERSITY NEWS, Vol. 38, No. 46, 2000, pp 1-6.
15. Sansanwal, D.N.& Suri, S.: Computers in Psychological Testing. JOURNAL OF EDUCATION AND PSYCHOLOGY, Vol. 53, Nos. 1-2-3, 1996.
16. Underdahl, Brian & Underdahl, Keith: Internet with Web Page / Web Site Design. New Delhi: IDG Books India (P) Ltd., 2000.

OBJECTIVES:	1. To acquaint teacher trainees with different parts of Con	nputer System	
	and their functions.	and their functions.	
	2. To develop competency among teacher trainees to use C	nline and Off	
	line electronic resources.		
	3. To acquaint teacher trainees with the facilities available or	n Internet.	
	4. To train the teacher trainees in handling MS-Word and MS	S-Excel.	
	5. To explore the environment of WINDOW – Operating Sy	stem.	
	6. To acquaint teacher trainees with the terminology and Co	nfiguration of	
	Computers.		
	COURSE CONTENT / SYLLABUS		
UNIT – IV	Computer as a Learning Tool.4 HOURS		
	• Use of Computers in schools, computer as a learning		
	tool.		
	• Use of Internet and e-mail.		
	• Effective browsing of internet for discovering and		
	selecting relevant information.		
	• Survey of education sites.		
	• Downloading and off loading relevant materials.		
	• Interactive use of ICT: Participating in Yahoo group,		

EPC-IV (ICT- Part II)

	creating blogs etc.	
UNIT - V	Computer Software and its type	4 HOURS
	 System Software Operating System What is operating system? Types of Operating system. Comparison among various types of operating system Introduction to Windows Control Panel File Manager Accessories Application Software MS-Office Generic Software Customized Software 	
UNIT - VI	MS-Excel	12 HOURS
	Introduction to MS. Excel; Starting MS. Excel, opening a worksheet, saving a worksheet; spreadsheet operations- entering numbers, texts, date & time, formulas; editing worksheet- deleting cells, rows, columns; inserting cells, rows, columns, printing a worksheet; formulas and functions- entering formulas, absolute and relative reference of cell, mixed referencing, operating in formulas, using text, data, date and time in a formula, array and named ranges.	
	MS-PowerPoint Introduction to MS. PowerPoint; Starting MS. PowerPoint, opening a presentation, saving a presentation; Types of Presentation- Blank Presentation, Auto content wizard, Design Template. Slider, Transition, animation, background, image, time setting, animating and rehearsing the presentation, adding sound and narration, automating the presentation, hyperlink, action buttons ,running and controlling a slide show.	12 HOURS
Suggested Activities	 MS-Excel Opening a worksheet Saving a worksheet Spreadsheet operations- entering numbers, texts, date & time, formulas; Editing worksheet- deleting cells, rows, columns; inserting cells, rows, columns, 	16 HOURS

	 Printing a worksheet; Formulas and functions- entering formulas, absolute and relative reference of cell, mixed referencing, Operating in formulas, using text, data, date and time in a formula, array and named ranges. MS-PowerPoint Starting MS. PowerPoint Opening a presentation Saving a presentation Types of Presentation- Blank Presentation, Auto content wizard, Design Template. Slider, Inserting transition, animation, background, image, Animating and rehearsing the presentation, Adding sound and narration Automating the presentation, Inserting hyperlink, action buttons etc.
	Running and controlling a slide show. REFERENCES:
2.	 Sinha, P.K.: Computer Fundamentals: Concepts, Systems, and Applications. New Delhi: BPB Publications, 1992. Introduction to Computer Science; 2nd Edition, Pearson. Flynn, Meredith and Rutkosky, Nita: Advanced Microsoft Office 2000. New Delhi: PB Publications, 2000.
4.	Hergest, Douglas: Excel 4 for Windows – Instant Reference. Singapore: Tech Publications PTE Ltd., 1992.
5.	Hillman, David: Multimedia Technology and Applications. New York: Delmar Publishers, 1998.

- 6. Matthews, Martin: Windows 95 Power Tools. New York: Random House Electronic Publishing, 1995.
- 7. Minasi, Mark, Christiansen, Eric, & Shapar, Kristina: Expert Guide to Windows 98. San Francisco: Sybex, 1998.
- 8. Nagpal, D.P.: Computer Course. New Delhi: Wheeler Publishing, 2001.
- 9. Oberlin, S.K,Kervran,P. & Cox,J: A Quick Course in Windows 3.1.Delhi: Jaico Publishing House, 1993.
- 10. Rajaraman, V.: Fundamentals of Computers. New Delhi: Prentice Hall of India Pvt. Ltd., 1997.
- 11. Rathbone, Andy: Windows for Dummies. Delhi: Pustak Mahal, 1993.
- 12. Ray, John: Special Edition Using Microsoft TCP / IP. New Delhi: Prentice Hall of India Pvt. Ltd., 1997.
- 13. Sanders, Donald H.: Computers Today. New York: McGraw Hill Book Co., 1988.
- 14. Sansanwal, D.N.: Information Technology and Higher Education. UNIVERSITY

NEWS, Vol. 38, No. 46, 2000, pp 1-6.

15. Sansanwal, D.N.& Suri, S.: Computers in Psychological Testing. JOURNAL OF EDUCATION AND PSYCHOLOGY, Vol. 53, Nos. 1-2-3, 1996.

16. Underdahl, Brian & Underdahl, Keith: Internet with Web Page / Web Site Design. New Delhi: IDG Books India (P) Ltd., 2000.

{SEMESTER – III}

PAPER- V

YEAR			CREDIT	4+1
Semester			HOURS	64+32
OBJECTIV	 ES: 1. To understand of the role of a 2. To write instructional objective 3. To understand different skills 4. To understand various conception 	and their role in effective teac	C	
	COURSE CONT	ENT / SYLLABUS		
	Unit I Understanding Teaching			
	✓ Meaning and nature of teaching			
UNIT-I	✓ Maxims of teaching			10 hrs.
	✓ Characteristics of good teaching			
	✓ Factors affecting teaching			
	Phases of Teaching			
	Role and functions of teacher in diff	erent phases		
	a) Pre active phase of teaching			
	✓ Visualizing the learner			
	✓ Framing instructional objectives✓ Planning of teaching			
UNIT- II			18 hrs.	
	b) Interactive phase of teaching:			
	✓ Different approaches and	0		
	0	nodels of teaching: Expository	y, inquiry	
	c) Post active phase of teaching:			
	✓ Evaluation and Feedback	<u> </u>		
	Developing instructional skills			
	✓ Concept and nature of Micro tea	•		
	✓ Significance of Simulated teaching	ng		10
UNIT- III	✓ Co operative and Collaborative and Collabo	approaches of teaching : Brain	storming,	hrs.
	Role play and Dramatization			
	 Group discussion, Simulation and 	d Games, Debate, Quiz, Semi	nar	
	Approaches to Individualized instruc	tion		
UNIT- IV	✓ Concept and Principles of Self le			16 hrs.

	✓ Organizing Self learning Strategies: With Special reference to	
	(i) Programmed Instruction (ii) CAI (iii) PSI (iv) Modular Instruction	
	(v) Learning Activity Packages	
	Professional development programme of teacher	
	✓ Participation in Seminar, Conferences, Workshops, On- line sharing	-
UNIT- V	✓ Participation in various activities of organization	10 hrs.
	✓ Teacher as a researcher (Action Research)	
	✓ Membership of professional organizations	
	MODE OF TRANSACTION	
	Group discussion, Lecture-cum –discussion, pair and share, group work, panel	
	discussion, Symposium, Assignments, School Visits and Sharing of experiences	
	SUGGESTED ACTIVITIES	
	1.Writing instructional objectives	
	2. Preparing lesson plan	
	3. Micro teaching classes	
	4. Appraisal classes	32 hrs.
	5. Planning classes with collaborative approaches	
	6. Preparing resources for individualized instructions	
	7. Planning classes with different teaching models	
	8. Preparing peer appraisal reports	
	9. Action research	
	REFERENCES	
Educ	m, B S., Englehart M D, Furst E J, Hill W H and Khrathwohl, D R (1956, 1964) Taxonc ational Objective Handbook 1, Cognitive Domain, Handbook 2, Affective Domain, L	
	on Buch.	
M B aro	and Santharam M R (1972) Communication in Classroom, CASE, Faculty of Ed. & Psy da	y. M S Uni
Davis	s, Irork (1971) The Management of Learning, Mc Graw Hill, London	
Jangi Delhi	ira N K and Ajit Singh (1982) Core Teaching Skills: The Microteaching Approach, NCI i	ERT, New
Nagr	oure, V. (1992) Teacher Education at Secondary Level, Himalaya Publishing House, '	Ramdoot'

Dr Balerao Marg, Girgaon, Bombay 400 004

Passi, B K (1976) Becoming better teacher Micro-teaching Approach, Sahitya Mudranalaya, Aahmedabad

Sharma, R A (1983) Technology of Teaching; International Publishing House, Meerut Kumar, K L (1996) Educational Technology; New Age International (P) Ltd Publishers, New Delhi

Singh, L C Microteaching: Theory and Practical, National Psychological Corporation, Agra

PAPER – IV (B) (PEDAGOGY OF SUBJECTS PART- II METHOD I & II) ENGLISH METHOD

Year	II	TEACHING OF ENGLISH	Credit	2+1
Semester	III		Hours	32+32
Unit -I	Cent Regi Awa Cons 343-	guage in Indian Schools trality of Language in Learning, Different Scho sters, Critical Review of Medium of Instruction reness and Language Teaching. stitutional Provisions and Policies on Language Ed -351, 350A, Recommendations of Kothari Commis 1992, NCF 2005.	on, Multicultural ucation : Articles	8 hrs.
Unit-II	Plan	ning Classroom Teaching		6 hrs.
	Aims and Objectives of Teaching English at Secondary stage, Concept of Lesson Plan, Significance of Lesson Planning. Lesson Plan in Prose, Poetry, Grammar and Comprehension. Designing lessons with different Methods and approaches of language teaching. Concept and Relevance of Unit Plan.			
Unit-III	Mea Resc Flasl	sation of Learning Resources Ining, Types, Functions, Preparation and Utilization Durces. Use of Multi-media materials, Activity Base In Cards, Graded Readers, Newspaper Collage, La sroom Libraries, Language Laboratories.	ed Strategy, CAI,	6 hrs.
Unit-IV				6 hrs.
Unit-iv	Assessment of English Learning Assessment and evaluation in English. Characteristics of a good test. Construction of Blue Print. Item Construction, Construction of English Question Paper. Constructing Diagnostic Tests. Presentation of Achievement Records, Writing Reports while locating 'Hard Spots' of language learning (Portfolio Evaluation in English). Planning Remedial Teaching Strategies.		0 1113.	
Unit-V	Curr	iculum Analysis		6 hrs.
	Sylla Anal	onale, Objectives and Principles of curriculum cons abus at National and State levels and their Cr lysis of Textbooks in different Boards. Significanc ish with special reference to communication skills	itical Appraisal. e of Functional	
		SUGGESTED ACTIVITIES		32 hrs.
		 Writing Instructional Objectives and Lesson Plans Practicing Skills with Lesson Plans. Teaching of Basic Grammatical concepts (Parts o 		

Tense, Voice, Narration etc.) 4. Planning Alternative Teaching Strategies. 5. Analysis of Textbooks in English 6. Analysis of Language Registers in Different Subjects. 7. Use of Different Resources in English Classrooms. 8. Preparing Language games. 9. Preparing Evaluation Reports. 10. A Report on the Diagnostic and Remedial Activities.

References :

Baruah (1988) The English Teacher's Hand Book, New Delhi, Sterling.

Edwin, A, Harper Jr. and Erika S. Harper (1992) Preparing

Objective Examination: A Handbook for Teachers, Students and Examiners, Prentice Hall of India Pvt. Ltd. New Delhi.

Harris (1979) Testing English as a Second Language, Macmillan.

Lado, R. (1963) Language Testing, New York Mc. Graw Hill.

NCERT (1988) National Curriculum for Elementary and Secondary Education : A Frame Work (Revised Edn.).

Verghese, C.P. (1980) Teaching English as a Second Language, Bombay, Somaiya.

Widdowson, M (1988) Teaching Language as communication Oxford O.U.P.

Willis (1989) Teaching English through English ELBS

Yule, George (1996) The Study of Language, Cambridge University Press, Cambridge.

Chomsky, N.1986. Knowledge of Language. New York: Praeger

Mohanty, A. K. Bilingualism in a Multilingual Society: Psycho-social and Pedagogical Implication. Mysore: CIIL.

NCERT. 2005. National Curriculum Framework-2005, NCERT: New Delhi.

NCERT 2000 Continuous and Comprehensive Evaluation. NCERT: New Delhi.

NCERT 2005. Examination Reforms: Position Paper of the National Focus Groups. NCERT: New Delhi.

Agnihotri, P.K., Khanna, A.L. 1994. (Eds.) Second Language. Acquisition: Socio-cultural and linguistics Aspects of English in India (RAL1), New Delhi: Sage Publications.

Brown, J.D. 1996 Testing in Language Programmes. Upper Saddle River, NJ: Prentice Hall Regents.

Year	11	fgUnh f'k{k.k	Credit	2+1
Semester	111		Hours	32+32

fallph fikik k

bdkbZ	fgUnh f'k{k.k ds mn~ns';	4 hrs.
1	✓ ekr`Hkk"kk f'k{k.k ds mn~ns';	
	✓ fgUnh f'k{k.k ds lkekU; mn~ns';	
	 ✓ fgUnh f'k{k.k ds fof'k"V mn~ns'; ✓ vuqns'kukRed mn~ns';ksa dks O;kogkfjd :i esa fy[kuk 	
	Hkk"kk ,oa lkfgR; dh fofo/k fo/kkvksa dk v/;kiu	7 hrs.
bdkbZ	\checkmark x f'k{k.k ¼miU;kl] ukVd] fuca/k] dgkuh½% mn~ns';] v/;kiu	/ 111 5.
2	fof/k;kj] ikB ;kstuk fuekZ.k	
	✓ dfork f'k{k.k% mn~ns';] v/;kiu fof/k;ki] ikB ;kstuk fuekZ.k	
	✓ fgUnh O;kdj.k f'k{k.k% mn~ns';] v/;kiu fof/k;k¡] ikB ;kstuk	
	fuekZ.k	
bdkbZ	fo ky;h ikB~;Øe esa Hkk"kk ,oa f'k{k.k	6 hrs.
3		o ms.
5	✓ fgUnh dk vU; fo ky;h fo"k;ksa ds lkFk lg~lEcU/k	
	✓ fo ky;h ikB~;Øe esa fgUnh dk LFkku	
	 ✓ ,d vPNh ikB~;iqLrd dh fo'ks"krk,j ✓ fal lab f'k[kd da ya k 	
	✓ fgUnh f'k{kd ds xq.k	- 1
halleh 7	lgk;d f'k{k.k lkexzh	5 hrs.
bdkbZ 4	 ✓ vFkZ ,oa egRo] mn~ns';] fuekZ.k ,oa iz;ksx esa lko/kkfu;k; 	
4	✓ IkkjEifjd Ikexzh rFkk uohu Ikexzh	
	\checkmark n`';] JO; rFkk n`';&JO lkexzh	
	Hkk"kk f'k{k.k esa ewY;kadu	8 hrs.
bdkbZ	✓ ewY;kadu dk izR;;] egRo ,oa mn~ns';	
5	✓ lajpukRed rFkk ;ksxkRed ewY;kadu	
	✓ orZeku ijh{kk iz.kkyh dk ewY;kadu] oLrqfu"B ,oa	
	fucU/kkRed ijh{kkvksa ds izdkj] xq.k ,oa nks"k ✓ funkukRed ,oa mipkjkRed f'k{k.k	
	Xkfrfof/k	32 hrs.
	1. ,d gh fo"k; ij fdUgha rhu v[kckjksa ds laikndh; dh Hkk"kk ij	
	ckrphr dj mudh fo"k; izLrqfr dk fo'ys"k.k djsaA	
	2. orZeku ijh{kk iz.kkyh dk voyksdu dj mlds xq.k&nks"kksa ij	
	,d fjiksVZ rS;kj dhft,A	
	 Hkk"kk nks"k dks de djus okys nks lgk;d f'k{k.k lkexzh dks rS;kj dj mldks izLrqr dhft,A 	
	4. $gLrfyf[kr lekpkj&i= dk fodkl dhft,A$	
	5. f'k{k.k gsrq ikB ;kstuk dk fuekZ.k dhft,A	
	6. ewY;kadu gsrq iz'u&i= dk fuekZ.k dhft,A	

vuqeksfnr iqLrdsa

fgUnh f'k{k.k & jke'kdy ik.Ms; uwru fgUnh f'k{k.k & HkkbZ ;ksxsUnz thr fgUnh f'k{k.k & f'k[kk prqosZnh fgUnh f'k{k.k & ch- ,y- 'kekZ fgUnh f'k{k.k & ehuk{kh HkVukxj fgUnh f'k{k.k & fxjh'k ipkSjh] lhek jkuh fgUnh f'k{k.k ds vk/kkj & ljkst vxzoky] lqj{kk caly] ch- ds- ekgs'ojh

BIOLOGICAL SCIENCE METHOD

Year	II	TEACHING OF BIOLOGICAL SCIENCE Credit	2+1
Semester	III	Hours	32+32
Unit -I	Learn	ing Resources in Biological Science	8 hrs.
	•	Uses of resources for Biological Science teaching- audio-visual aids: charts, models, real object, computer aid learning etc Characteristics of a good text book	
Unit-II	Life so	cience Activities	6 hrs.
	•	Development of Aquarium, Vivarium and terrarium. Planning and organization of Biological Science fair Biological science clubs Excursion Uses of resources for Biological science teaching:- Museum and Botanical garden	
Unit-III	Biological science laboratories and related activities		
	•	Need and importance of Biology laboratory Planning and organization of biology laboratory Different types of science laboratory	
Unit-IV	Evalua	ation in Biological science	6 hrs.
	• • •	Concept of evaluation. Needs and objectives of evaluation Purposes and functions of evaluation Framing different types of tests and different types of questions (objectives, essay and short answer type)	
Unit-V	Plann	ing for learning in Biological sciences	6 hrs.
	•	Steps and advantages of designing lesson plan for Biology content	
		SUGGESTED ACTIVITIES	32 hrs.
		Preparation of lesson/unit plan. Practice the skill of collection, fixation and preservation of Biological/plants materials.	

	Preparation of charts/models etc.
4.	Group/individual presentation.
5.	Observe and draw different microscopic permanent slides.
6.	Demonstration and use of bleaching powder in nearby community well.
7.	A visit to a nearby pond/factory to observe various sources of pollution in water and air.
8.	Preparation of tables and charts to indicate calorific values of vegetarian and non-vegetarian food stuffs.

References

Das, R.C. (1985) Science Teaching in Schools, Sterling Publication

Innovations in Teacher Education Science Teacher Education Project (STEP), Mac Grow Hills, New York.

Heiss, E.D., Obourn E.S. and Hoffman, C.W. (1961) Modern Science Teaching : by Macmillan Publication, New York.

Mangal, S.K. : Teaching of Physical and life Sciences, Arya Book Dept., New Delhi.

Mason, M and Ruth T. Peters : Teacher Guide for life Sciences,

Published by D. Van Nostran Company, Inc., New York.

NCERT (1988) National Curriculum for Elementary and Secondary Education :

A Framework (Revised Ed.)

NCERT (1995) Environmental Education in the School Curriculum, New Delhi.

NCERT (1996) Science for Classes IX and X, New Delhi.

NCERT Environment Education : Process for Pre-service Teacher

Training Curriculum Development, UNESCO – UNEP

International series 26 prepared by NCERT, New Delhi.

NCERT : Procedures for Developing an Environmental Education Curriculum, UNESCO-UNEP International Environmental Education Programme, Environmental Education series 22, New Delhi.

Nair, P.K.G. (1985) Principles of Environmental Biology, UNESCO

Training of Science Teachers and Educators, Bangkok UNESCO

Sood, J.K. Teaching Life Sciences, Published by Kohli Publication

Sharma, R.C. : Modern Science Teaching, Dhanpat Rai and Sons, Delhi.

Sytnik, K.M. : Living in the Environment : A Source Book for Environmental Education, UNESCO

NCERT, Position paper of NFG on Teaching of Science-2005.

NCERT, Position paper of NFG on Examination Reforms-2005

NCERT, Position paper of NFG on Aims of Education -2005.

Sutton, CR and Hayson JH, The Art of the Science Teacher, MC Graw Hill Book company Ltd.

(1974)

Their, DH, Teaching Elementary School Science: A Laboratory Approach Sterling Publication Pvt. Ltd. (1973).

Science Teach (NSTA's per reviewed journal for secondary science teaching).

Journal of Research in Science Teaching (Wiley-Blackwell).

Turner Tony and Wendey Di Macro, learning to teach school experience in secondary school teaching. Routledge, London and New York.

Taber K.S.: Chemical Misconceptions-Prevention, Diagnosis and cure volume 1 and 2, London 2002 (Royal Society of Chemistry).

PHYSICAL SCIENCE METHOD

Year	II	TEACHING OF PHYSICAL SCIENCE	Credit	2+1
Semester	III		Hours	32+32
Unit -I	Plan	ning for the effective teaching learning		8 hrs.
		Identification of the objectives, Formulating obj	ectives (specific)	-
	Presentation of content, Assessment of learning			
	Use of learning resources, Mode of transaction, ensuring			
		learner's participation, Unit planning, selection	_	
		curriculum transaction, preparation of learning preparations.	g resources, PPT	
Unit-II	Asse	ssment of Learning		6 hrs.
		Meaning and purpose of Evaluation in Physical Assessment, Types of tests - Written test, prac- test, activities etc.	• 1	
Unit-III	Construction of tools of Assessment		6 hrs.	
		Developing different types of questions, Esse	entials of a good	
		question paper, Blue print.		
Unit-IV	Physical Science curriculum for schools in India		6 hrs.	
		Curriculum reforms suggested in NCF 2005, NH	EP 2020	
		Process of curriculum development.		
Unit-V	Prof	essional development of science teachers		6 hrs.
		Professional development programmes for s	science teachers,	
		participation in seminars, conferences, fiel	d visits, online	
		sharing, Teacher as researcher		
		SUGGESTED ACTIVITIES		32 hrs.
	1	. Preparing lesson plans form the content		
	2			
	3	8 8 8 8 F	oratory	
	4	. Recording and evaluation of practical work		

	5. Preparing a question paper and developing criteria of assessment
	6. Suggesting ways to make science teaching interesting by
	adopting innovative/alternative ways of teaching 7. Organising activities of science club
	8. Preparing Evaluation Reports.
	9. Unit Planning
	10. Preparing question bank of Physical science
	11. Preparing learning resources for classroom teaching
	Reference
Teaching of	science. Prof. J.K. Sood.
Teaching of	Science – S.P. Kulshreshtha (2008) R. Lall Book Depot. Meerut.
Modern Me	htods of teaching Physics. Shalini Wadhwer (2001) Sarup & Sons Publication.
Teaching of	f Physical sciences Dr S.K. Mangal Shubhra Mangal (2007) International
publishing h	
	Ku f'k{k.k izks- ts- ,l- usxh ¼2012& 2013½ vxzoky icfyds'ku
	onal Curriculum Framework -2005.
	tion Paper of NFG on Teaching of Science-2005.
-	tion Paper of NFG on Habitat and Learning-2005.
-	tion Paper of NFG on Examination Reforms-2005.
-	tion Paper of NFG on Aims of Education-2005
-	tion Paper of NFG on Gender Issues in Education-2005.
-	tion Paper of NFG on Education for Peace- 2005.
-	-
	nce Teaching for 21 st Century, Deep and Deep Publications (1999).
	cyclopedia of Teaching Science, Sarup and Sons, New Delhi (2004).
	an, Innovative Science Teaching for Physical Science Teachers, Prentice Hall of
	d., New Delhi (2002).
	and Hayson JH, The Art of the Science Teacher, MC Graw Hill Book Company Ltd.
(1974).	
Their, DH, T	eaching Elementary School Science: A Laboratory Approach Sterling Publication
Pvt. Ltd. (19	73).
Science and	Children (NSTA's peer reviewed journal for elementary teachers).
Science Tead	ch (NSTA's per reviewed journal for secondary science teachers).
Journal of Re	esearch in Science Teaching (Wiley-Blackwell).
Internationa	al Journal of Science Education.
Misconcepti	ions in chemistry, addressing perceptions in Chemical Education, Barke, Hans
Dieter, Al Yit	tbarek, Sileshi, Publication of Springer.
Turner Tony	y and Wendey Di Macro, Learning to Teach School Experience in secondary
-	ning. Routledge, London and New York.
	Chemical Misconceptions-Prevention, Diagnosis and cure volume 1 and 2,

London 2002 (Royal Society of Chemistry)

Web Sites

1. http:// <u>www.tc.columbia.edu/mst/science</u> ed/courses. asp.

2. http://www.edu.uwo.ca

MATHEMATICS METHOD

YEAR	II		CREDIT	2+1		
Semester	III	TEACHING OF MATHEMATICS	HOURS	32+32		
Essence of the Course:						
This course	This course is designed to equip the learners to use ICT in various ways in teaching and learning of					
		e learners will be able to construct many forms of tests in Mathem	•			
		ng of innovations and implications of researches in the field of M	athematic e	ducation.		
OBJECTIVE	ES:	Students will be able to				
		1. Design appropriate teaching – learning strategy/approach	n suited to	particular		
		content.				
		2. Use ICT and various teaching aids in teaching of Mathem	atics			
		3. Evaluate Mathematics Text Book.				
		4. Construct achievement test and diagnostic test.	• .1	C 11 C		
		5. Understand innovations and implications of research	les in the	field of		
		Mathematics Education.				
		COURSE CONTENT / SYLLABUS				
	Various Methods/Approaches for Teaching of Mathematics					
	•	Laboratory Method				
UNIT-I	•	 Discovery Method 		8 hrs.		
	•	Project Method				
		th specific illustrations for their use in teaching of Mathematics}				
	Use	of ICT in teaching of Mathematics				
	•					
	•	• Pedagogical issues				
	•	• Need of Technological Pedagogical Content Knowledge (TF	PACK) in	10		
UNIT-II		Mathematics		Hours		
	•	• Use of various Audio Visual aids in teaching of Mathematics				
		models, overhead projector, films with their specific	use and			
		limitations				
	•	• Use of Computer and other ICT equipments				
	Cur	riculum and Text book of Mathematics				
UNIT-III		• Curriculum at upper primary, secondary and Higher secondary	-	10		
		[A critical review with respect to Principle of Curriculum Des	ign.]	Hours		
		 Functions of Mathematics Text Book 				

	Characteristics of a good text book				
	• Evaluation of Mathematics Text book : [Physical aspects, academic				
	aspects]				
	Research in Mathematics Education				
	Meaning of Research with respect to Mathematics Education	0.11			
UNIT-IV	• Action Research in Mathematics	9 Hours			
	• Implications of researches in the field of Mathematics education				
	Innovations in teaching of Mathematics				
	• Teaching of Mathematics in the context of socio-cultural aspects	-			
	• Recreation in Mathematics (Mathematics Club & Activities for				
UNIT-V	Mathematical creativity & Vedic Mathematics)	1 Hours			
	Mathematics Laboratory				
	Cooperative learning in mathematics				
	Mastery Learning Strategy				
	MODE OF TRANSACTION				
Lecture, le	ecture cum Discussion, project work, Demonstration of A. V. Aid, Action Researc	ch, Visit,			
	Group work and its Presentation				
	SUGGESTED ACTIVITIES				
The followi	ng practical work be carried out by the student teachers :				
• Iden	tify the slow learners, low achievers and high achievers in Mathematics from				
	the classroom during practice teaching. (Case study)				
Conducting of Action Research for selected problems.					
• Development and tryout of Teaching-learning strategy for teaching of particular Mathematical concepts.					
	-				
	of Computer in Teaching of Mathematics. of Mathematics activities for recreation.				
	elopment and use of Mathematics laboratory.				
	Prepare mathematical activities in the context of socio-cultural aspects.				
- 15.	REFERENCES				
(English)					
, <u> </u>	(2008). Methods of Teaching Mathematics. New Delhi: Neelkamal Publications.				
	C. H., Wren F. L. and Banks, J. H. (1971). The teaching of Secondary Mathematic	tics. New			
	rk : McGraw Hill.				
Coney,	Coney, T. J., Davis, G. J., and Hen Derson, K. B. (1975). Dynamics of Teaching Secondary Sche				
Ма	Mathematics. Boston: Houghton - Mifflin co.				
Ediger,	Ediger, M., and Rao, B. (2000). Teaching Mathematics successfully. New Delhi: Discov				
Pu	Publishing House.				
Kidd, P.	Kidd, P. K., Myers, S. S., Cilley David, M. (1970). The Laboratory Approach to Mathematical Science (1970).				
Ch	Chicago: Science Research Associates Inc.				
Kinney,	Kinney, L. B., and Purdy, C. R. (1965). Teaching of Mathematics in Secondary School. New York;				

Holt, Rinchart and Winston.

- Koehler, M. J. & Mishra, P. (2008). Introducing technological pedagogical content knowledge. In AACTE Committee on Innovation and Technology (Eds)., *Handbook of technological pedagogical content knowledge (TPACK) for educators*. New York: Routledge.
- Kolb, J. R., and Bassler, O. C. (1979). *Learning to teach secondary School Mathematics*. London: In text Educational Pub.
- Kothari, R. G., and Mistry, H. S. (2012). Diagnosis of Learning Difficulties on Fractions and Decimals: A study on the students of upper primary schools. Germany: Lambert Academic Publishers.
- Kothari, R. G., and Shelat, P. H. (2011). *Mathematical weaknesses among secondary school students*. Germany: VDM Verlag Publishers.
- Kumar, S. (1993). Teaching of Mathematics. New Delhi: Anmol Pub. Pvt.
- Mottershead, L. (1978). Sources of Mathematical discovery. Oxford : Basil black Wall.
- Nickson, M. (2006). Teaching and Learning Mathematics : A Guide to Recent Research and its Application. London: Continuum
- Packiam, S. (1983). *Teaching of Modern Mathematics: A New Approach*. New Delhi: Doaba House.
- Pandya, B. (2007). *Teaching of Mathematics*. Agra : Radha Prakashan Mandir.
- Paul Chambers (2008). *Teaching Mathematics : Developing as a Reflective Secondary Teacher*. New Delhi: Sage Publication.
- Rao, N. M. (2007). A Manual of Mathematics Laboratory. New Delhi: Neelkamal Publications.
- Reeve, W. D. (1954). *Mathematics for the Secondary School*. New York: Holt, Rinehart and Winston, Inc.
- Servais, W., and Varga, T. (Ed.) (1971). *Teaching School Mathematics*. A UNESCO Source Book. UNESCO, Penguin books.
- Shah G. B. (1964). New Dimensions in teaching of Mathematics. Baroda : CASE.
- Sidhu, K. B. (1974). *The Teaching of Mathematics*. New Delhi: Sterling Pub. (p). Ltd. (LB 1646 14 54)
- Singh, H., Avtar, R., and Singh, V. P. (2008). A Handbook for Designing Mathematics

(Hindi)

Ravat, M. S., & Agrawal, M. (1986). Ganit Shikshan. Agra: Vinod Pustak Amandir.

(Gujarati)

Joshi, H. O. (1997). Ganit Shashtra Adhyapan Padhdhati. Amadavad: BAOU.

- Joshi, P. M., Sejpal, D. K., Parikh, K. O., and Patel, N. B. (1988). *Ganit Na Adhyapan Nu Parishilan*. Amdavad: B.S. Shah Prakashan.
- Kothari, R. G., Doctor, I. H., and Patel, V.G. (1996). *Ganit Adhyapan Padhdhati* Amdavad : Anand Book Depot.
- Mahant, G. V., Trivedi, M. D., Patel, J. A., and Dave (1981). *Ganit Shikshan Padhdhati*. Amadavad: A. R. Sheth & Co.
- Patel J. Z., and Jani, P. N. Hand-Book for Mathematics Teachers. V. V. Nagar: Manisha

Prakashan.

Year	II TEACHING OF GEOGRAPHY Credit	2+1		
Semester	III Hours	32+32		
Unit -I	Planning of Instruction	8 hrs.		
	✓ Aims of teaching Geography and writing instructional objectives			
	✓ Lesson planning, Unit planning			
	✓ Importance of teaching-learning resources in teach	ing		
	Geography			
Unit-II	Assessment of Learning in Geography	7 hrs.		
	Evaluation: different dimensions			
	✓ Meaning and purpose of evaluation in Geography			
	✓ Formative and Summative evaluation			
	✓ Achievement test, Diagnostic test & Online test			
	✓ Blue print and essentials of a good question paper			
Unit-III	Geography in school education in India			
	✓ Recommendations of Kothari commission (1964-66), N	6 hrs.		
	• Recommendations of Roman commission (1904-00), N 1986; POA 1992, NPE 2020	FE,		
	✓ Curriculum reforms (NCF, 2005)			
	Currentini ferorinis (rver, 2005)			
Unit-IV	Geography Curriculum and related aspects	7 hrs.		
	✓ Concept of Curriculum and its importance in Geography			
	teaching			
	 Relevance of Geography curriculum of different boards on In 	dia		
	✓ Characteristics of a good Text book			
Unit-V	Professional Development of Geography Teacher	4 hrs.		
	\checkmark Need for up-gradation of pedagogical skills in teach	ing		
	Geography			
	 Participation in Seminars, Conferences, Online sharing, Dista 	nce		
	learning			
	 Membership of professional organizations Data of calf organization professional development 			
	 ✓ Role of self-appraisal in professional development SUGGESTED ACTIVITIES 	32 hrs.		
		52 1115.		
	1. Preparing a lesson plan/Unit plan			
	2. Preparing learning resources contextually			
	3. Writing instructional objectives for a lesson			
	4. Constructing an achievement test			
	5. Preparing blue print for a test	in		
	6. Conducting an activity on environmental conservation secondary school during practice teaching and preparing a rep			
	NECONDALY NUMBER OF THE DIACHCE TEACHING AND DIEDAFING A FEI			

	 7. Comparative analysis of curriculum of any two/three boards of secondary school education of India 8. Assessment of text books of Geography at secondary level of education 				
	Reference				
1.	Position paper by National focus group on teaching of social sciences.				
2.	Learning without Burden, Report of the National Advisory committee, 1993, Ministry of				
	Human Resource Development, Government of India.				
3.	Yagnik K.S. the teaching of social studies in India, Orient Longman Ltd. 1966.				
4.	UNESCO, New Source Book for Teaching of Geography, UNESCO 2005.				
5.	5. NCERT text books for class VIII, IX and X in social sciences.				
6.	6. National Curriculum Framework 2005, NCERT, New Delhi.				
7.	. Singh R.L (1989)-India- a regional Geography, National Geography society of India,				
	Varanasi.				
8.	Verma O.P Geography Teaching, Sterling Publishers, New Delhi.				
9.	 Singh R.P-Teaching of Geography, Surya publications, Meerut. 				
10.	10. Singh H.N-Bhugol Sikshan, Agrawal publication, Agra.				
11.	11. Arora K.K.(1976), the teaching of Geography, Jalandhar: Prakash Brothers.				
12.	12. Verma J.P. (1960) Bhugol Adhyan Agra, Vinod Pustak Mandir.				

CIVICS/POLITICAL SCIENCE METHOD

Year	II	TEACHING OF CIVICS/POLITICAL SCIENCE Credit	2+1
Semester	III	Hours	32+32
Unit -I	Теас	hing process in Civics /Pol. Sc.	8 hrs.
		 Lesson planning- designing of lesson steps and exposition of lesson planning Process of writing instructional objectives in a behavioural terms 	
Unit-II	Asse	ssment of Learning of Civics /Pol. Sc.	6 hrs.
	A. Evaluation-different dimensions		
		Meaning and purpose of evaluation in Civics	
		Formative and summative evaluation	
	~	Various tools and techniques of evaluation in Civics	
	~	Construction of unit test	
Unit-III	New	Dimensions/Innovation in Civics /Pol. Sc.	6 hrs.
	✓ ✓	 Micro Teaching, Team Teaching, Simulated Teaching, Programmed Instruction, Interactive Approach Use of ICT in Civics/ Pol. Sc. teaching 	

Unit-IV	Assessing syllabus and textbooks	6 hrs.
	✓ Need of text book in Civics teaching	
	✓ Characteristics of good text book	
	✓ Text book of Civics in Indian school	
	✓ Analysing text book of different boards at secondary stage on the basis of the guideline/criteria suggested by NCF 2005	
	the basis of the guideline effectia suggested by iver 2005	
Unit-V	Civics /Pol. Sc. Teaching for National and International	6 hrs.
	Understanding	
	✓ Meaning of National understanding and International	
	understanding	
	 ✓ Need of National and International understanding ✓ Role of Civics in promoting National and International 	
	understanding	
	SUGGESTED ACTIVITIES	32 hrs.
	1. Preparing teaching aids	
	2. Constructing unit test during practice teaching	
	3. Using ICT for preparing one topic of Civics at secondary stage	
	4. Visit to political institution/Govt. Institution and submit an	
	analytical report on the functioning of the elected bodies	
	5. To meet the elected representatives and submit a report on the	
	basis of discussion/ Interview with them	
	Reference	с · I
Bhathagar, Studies.	, CPR, Bhushan and Khanna : A Preparation and Evaluation of Text Books in	Social
Binning an	d Bining : Social Studies in Secondary Schools	
Edwin, A, H	Harper Jr. and Erika S Harper (1992) Preparing Objective Examination : A	
Handbook	for Teachers, Students and Examiners. Prentice Hall of India Pvt. Ltd. New	Delhi
Martorella	, PH : Social Studies Strategies – Theory and Practical	
NCERT, Im	proving Civics Teaching, New Delhi	
NCERT (19	88) National curriculum for Elementary and Secondary	
Educatio	on : A Framework (Review Edn.)	
Social Stud	lies : - A Draft Syllabus for Classes I to X	
Yajnik, K.S.	: The Teaching of Social Studies in India	
Tyagi Guru	Sharan Das : Nagrik Shastra Ka Shikshan.	
Singh Ram	pal : Nagrik Shastra Shikshan	
National C	urriculum Frame Work, 2005, NCERT, New Delhi.	
Position pa	aper by National Focus on Teaching of Social Sciences	
Report of	the Secondary Education Commission, 1953, Ministry of Education, Gove	ernment
	56	
	50	

of India. New Delhi.

The Curriculum for the Ten Year School- a Frame Work, 1975, NCERT, New Delhi.

Learning without Burden, Report of the National Advisory Committee, 1993, Ministry of Human Resource

Development, Government of India.

Delors J., (1996) Learning the Treasure within. Report of International commission on Education for 21st Century-UNESCO.

Mc. Graw Hill Book company, Inc, New York, 1952.

Bank, James, a (1977) teaching strategies for the social studies. Enquiry, valuing and

decision making, Wesly Publishing comp. Massachusetts.

Dhamija, Neelam (1993) Multimedia Approaches in Teaching Social Studies. Human Publishing House, New Delhi.

James, Hemming (1953) The teaching of Social studies in secondary school.

Longman Green & Company, London.

Kumar Krishna (2005) Second Edn. Political agends of Education: A study of colonialist nationalist ideas, sage, New Delhi.

NCERT (1971) Report of the Committee on Examination, CABE, Ministry of Education on Social Welfare, India New Delhi.

NCERT Textbooks in Social for classes VIII, IX and X.

Year	II	TEACHING OF HISTORY	Credit	2+1
Semester	III		Hours	32+32
Unit -I	Issu	es and concerns in History	-	8 hrs.
	,	/ Importance of local History		
		 Teaching of controversial issues 		
	,	 Current events in History 		
	,	Issues and concerns in History curriculum add	resses in NCF	
		2005		
Unit-II	Hist	ory curriculum		6 hrs.
	,	 Meaning of curriculum 		
	1	 Principles of curriculum constructions 		
	1	Innovation in curriculum		
		Advantage of curriculum construction		
	,	 Psychological basis of selection of facts, organiza 	tion of facts	
	١	Content of History syllabus		
Unit-III	Tea	ching of Process in History		6 hrs.
	,	Aims of teaching history and writing instructional	objectives	
		Less on planning		
		Content-analysis, writing objectives, designing of	lesson	

HISTORY METHOD

Unit-IV	Assessment of learning History	6 hrs.		
	 Meaning and purpose of evaluation 			
	 Difference between evaluation and measurement 			
	✓ Types of evaluation			
	 Principal of construction of question papers at different stages 			
Unit-V	History teaching and National and International integration	6 hrs.		
	✓ Need of national integration			
	✓ Meaning of national integration			
	✓ Role of history for national integration.			
	✓ Role of history in the development of international understanding			
	SUGGESTED ACTIVITIES			
	1. Planning of lesson on History units of class 7 th , 8 th , 9 th , 10 th	32 hrs.		
	2. Preparing question papers	52 11 5.		
	3. Construction of objectives types of tests			
	4. Assignment on current issues			
	References:			
Ghosh K [D. (1951) : Creative Teaching of History, Bombay, Oxford University Press			
	70) – Teaching History in Secondary Schools, New Delhi			
-				
Vajreswari, R. (1966) A Handbook of History Teachers Bombay Allied Publishers Tyagi Guru Sharan Das : Ethihas Shikshan				
_	C. : Teaching of History : A practical approach.			
-	K. : Teaching of Hostory			
	A. : Itihas Shikshan			
	urriculum Frame Work, 2005, NCERT, New Delhi.			
•	per by National Focus on Teaching of Social Sciences			
Report of	the Secondary Education Commission, 1953, Ministry of Education, Gove	ernment		
of India. Ne	ew Delhi.			
The Curricu	ulum for the Ten Year School- a Frame Work, 1975, NCERT, New Delhi.			
Learning w	vithout Burden, Report of the National Advisory Committee, 1993, Mir	nistry of		
Human Res	source			
Developme	ent, Government of India.			
Delors J.,	(1996) Learning the Treasure within. Report of International commis	sion on		
Education	for 21 st Century-UNESCO.			
Mc. Graw I	Hill Book company, Inc, New York, 1952.			
Bank, Jame	es, a (1977) teaching strategies for the social studies. Enquiry, valuing and o	decision		
making, W	making, Wesly Publishing comp. Massachusetts.			
	Neelam (1993) Multimedia Approaches in Teaching Social Studies.	Human		
• •	· · · · · · · · · · · · · · · ·			

Publishing House, New Delhi.

James, Hemming (1953) The teaching of Social studies in secondary school.

Longman Green & Company, London.

Kumar Krishna (2005) Second Edn. Political agends of Education: A study of colonialist nationalist ideas, sage, New Delhi.

NCERT (1971) Report of the Committee on Examination, CABE, Ministry of Education on Social Welfare, India New Delhi.

NCERT Textbooks in Social for classes VIII, IX and X

Year	II	TEACHING OF ECONOMICS	Credit	2+1
Semester	III		Hours	32+32
Unit -I	Tech	niques of Economics Teaching		6 hrs.
	~	Questioning, Assignment, Seminar.		
	✓	Workshop, Educational Conference.		
	✓	Śymposium.		
Unit-II	Lesso	on Planning		5 hrs.
	~	Concept.		
	✓	Objectives and importance.		
	~	Characteristics of an Ideal lesson-plan.		
	~	Construction of Lesson-plan for Economics teach	ing.	
Unit-III	New	Dimensions/ Innovation in Economics Teaching		6 hrs.
	~	Micro teaching cycle, Team teaching.		
	✓	Simulated teaching.		
	~	Action Research in Economics teaching.		
Unit-IV	Curri	culum for Economics		7 hrs.
	~	Principles of curriculum construction in Economic	cs.	
	~	Importance of Economics curriculum at second	ary and higher	
		secondary stage.		
	✓	Curriculum reforms (based on NCF 2005)		
	~	Innovations in curriculum with reference to NEP 2	2020	
Unit-V		ation in Economics		8 hrs.
	✓	 Meaning, importance and Principles of Evaluation 		
	~		aluation.	
	✓	Different techniques of evaluation in Economics.		
		SUGGESTED ACTIVITIES		32 hrs.
	1	. Preparing lesson plan.		
	2	. Preparing teaching aids.		

ECONOMICS METHOD

3. Demonstration of Micro-teaching skills	
4. Constructing unit test and objective based test.	
5. Writing report on the evolution of curriculum of different boards.	
6. Use of ICT for preparing topics in Economics.	

References

- Binning and Binning : Social Studies in Secondary Schools
- Martorella, P.H : Social Studies Strategies Theory and Practical
- NCERT (1988) National curriculum for Elementary and Secondary Education : A Framework (Review Edn.)
- Yajnik, K.S. : The Teaching of Social Studies in India
- National Curriculum Frame Work, 2005, NCERT, New Delhi.
- Position paper by National Focus on Teaching of Social Sciences
- Report of the Secondary Education Commission, 1953, Ministry of Education, Government of India. New Delhi.
- Learning without Burden, Report of the National Advisory Committee, 1993, Ministry of Human Resource Development, Government of India.
- Mishra R.C, Lesson Planning. A.P.H publishing corporation New Delhi.
- Tyagi Gursharan Arthashastra Shiksha Ka Pranali Vigyan
- Parween, Abida & others Samajik Adhyan Shikshan, Astha Prakashan, Jaipur.
- Sharma B.L & others, Samajik Vigyan Shikshan, R.Lal Book Depot, Meerut U.P
- Pandey Mridula: Dictionary of Education Rajat publication New Delhi.
- Aggarwal J.C: Teaching of Economics
- NCERT/ ICSE/JAC Board Books of Economics (Class 9th, 10th, 11th, and 12th)

Year	П	TEACHING OF COMMERCE	Credit	2+1
Semester	III		Hours	32+32
Unit -I	Meth	nod of Teaching	i	10 hrs.
	~	Expository based – Lecture, debate, disc	cussion story-te	elling.
	~	 Discovery based – Experimental, inquiry 	, problem-solv	ing.
	~	 Activity based – Simulation/gaming, sproject. 	survey, case s	tudy,
	~	 Individualised Instructive based-C instruction modulars, mastery learning, 	•	isted

COMMERCE METHOD

Unit-II	Lesson Planning	6 hrs.
	✓ Concept.	
	✓ Importance of lesson plan.	
	✓ Characteristics of ideal lesson plan.	
	✓ Construction of lesson plan for commerce teaching.	
Unit-III	Text-book in Commerce	4 hrs.
	✓ Characteristics, importance of text-books.	-
	✓ Criteria for their selection.	
Unit-IV	Co-curricular Activities	4 hrs.
	 ✓ Objective, importance. 	
	✓ Principles of organisation.	
Unit-V	Evaluation	8 hrs.
	 ✓ Meaning importance and principles of Evaluation of commerce 	
	✓ Difference between formative and summative evaluation.	
	✓ Various tools and techniques of evaluation in commerce.	
	SUGGESTED ACTIVITIES	32 hrs.
	1. Preparing Lesson plan.	
	2. Preparation of teaching aids.	
	3. Demonstration of Micro-teaching skills.	
	4. Constructing unit test and objective based test.	
	5. Use of ICT for preparing topics for commerce.	

References

- Pedagogy of School Commerce
 - Dr. S.S. Chandra, Dr. N.L.Sharma, Dr. Amit Sharma
- Pedagogy of School Subject Commerce
 - Dr. R.P. Singh and Dr. Imtiyaj Mansoori
- Okf.kT; f'k{k.k & Ckh0,y0'kekZ] bfEr;kt ealwj

{SEMESTER- IV} PAPER- VI

YEAR	II	ASSESSMENT AND EVALUATION	CREDIT	4+1
Semester IV		ASSESSIVIENT AND EVALUATION	HOURS	64+32
OBJECTIV	/ES:	1. To understand the nature of assessment and evaluate	on and thei	r role in
		teaching-learning process.		

UNIT-I - Concept of instructional objectives and its classification h ✓ Concept of instructional objectives and its classification h ✓ Writing instructional objectives and its classification h ✓ Reporting evaluation results. 61 ✓ Validity – meaning, concepts and its types 61 ✓ Validity – meaning, concepts and its types 61 ✓ Objectivity - meaning, concepts and its types 61 ✓ Objectivity - meaning, concepts and its types 61 ✓ Objectivity - meaning, concepts and its types 61 ✓ Objectivity - meaning, concepts and its types 61 ✓ Objectivity - meaning, concepts and its types 61 ✓ Objectivity - meaning, concepts and its types 61 ✓ Objectivity - meaning, concepts and its types 61 ✓ Objectivity - meaning, concepts and its types 61 ✓ Objectivity - meaning, concepts and its types 61 ✓ Tools and techniques of evaluation 12 ✓ Paper pencil tests, Oral tests, and Performance tests 12 ✓ Rating scale<			
schools. 9. To understand the policy perspectives on examinations and evaluation and the implementation practices. 10. To tracing the technology bases of assessment practices and other trends at international level. COURSE CONTENT / SYLLABUS PERSPECTIVES ON ASSESSMENT AND EVALUATION Meaning of Measurement and Evaluation in Education Characteristics of the evaluation Purpose uses and types of evaluation Concept of instructional objectives and its classification Writing instructional objectives- Bloom's taxonomy and RCEM approach. Reporting evaluation results. UNIT-II Characteristics of Standardized tests Validity – meaning, concepts and its types 61 Validity – meaning, concepts and its types 61 Voljetivity - meaning, concepts and its types 61 Volgor Tools of Evaluation and their uses 12 VintT-III Tools and techniques of evaluation Paper pencil tests, Oral tests, and Performance tests Intelligence tests and aptitude tests Intelligence tests and aptitude tests Check list Anecdotal records Socio-metric technique Interview, Questionnaire and Inventory UNIT-II Achiev		 assessment realize the need for school based and authentic assessment. To examine the contextual roles of different forms of assessment in scho To understand the different dimensions of learning and the related asse procedures, tools and techniques. To develop assessment tasks and tools to assess learner's performance A manage, and interpret assessment data. To analyze the reporting procedures of learners' performance in schools. To develop indicators to assess learners performance on different t 	ols. essment Analyze,
9. To understand the policy perspectives on examinations and evaluation and the implementation practices. 10. To tracing the technology bases of assessment practices and other trends at international level. COURSE CONTENT / SYLLABUS PERSPECTIVES ON ASSESSMENT AND EVALUATION Meaning of Measurement and Evaluation in Education Characteristics of the evaluation Concept of instructional objectives and its classification Writing instructional objectives. Bloom's taxonomy and RCEM approach. Reporting evaluation results. Validity – meaning, concepts and its types Steps of standardized tests Objectivity - meaning, concepts and its types Steps of standardisation of tests Major Tools of Evaluation and their uses Intelligence tests and aptitude tests Intelligence tests and aptitude tests Intelligence tests and aptitude tests Anecdotal records Socio-metric technique Interview, Questionnaire and Inventory 12 Achievement & Diagnostic tests Achievement Resists of a good test Achievement & Diagnostic tests Characteristics of a good test 			ctices in
COURSE CONTENT / SYLLABUS PERSPECTIVES ON ASSESSMENT AND EVALUATION Meaning of Measurement and Evaluation in Education Characteristics of the evaluation Characteristics of the evaluation Purpose uses and types of evaluation Purpose uses and types of evaluation Concept of instructional objectives and its classification Writing instructional objectives- Bloom's taxonomy and RCEM approach. Reporting evaluation results. UNIT-II Validity – meaning, concepts and its types Steps of standardized tests Objectivity - meaning, concepts and its types Steps of standardisation of tests 61 Major Tools of Evaluation and their uses VINIT-III Paper pencil tests, Oral tests, and Performance tests UNIT-III Rating scale Validity conduction Intelligence tests and aptitude tests Anecdotal records Socio-metric technique Interview, Questionnaire and Inventory UNIT-IV Characteristics of a good test		9. To understand the policy perspectives on examinations and evaluation a implementation practices.	
UNIT-I PERSPECTIVES ON ASSESSMENT AND EVALUATION Meaning of Measurement and Evaluation in Education Characteristics of the evaluation Purpose uses and types of evaluation Purpose uses and types of evaluation Concept of instructional objectives and its classification Writing instructional objectives- Bloom's taxonomy and RCEM approach. Reporting evaluation results. UNIT-II Validity – meaning, concepts and its types Steps of standardisation of tests Major Tools of Evaluation and their uses Yools and techniques of evaluation Paper pencil tests, Oral tests, and Performance tests Intelligence tests and aptitude tests Anecdotal records Socio-metric technique Interview, Questionnaire and Inventory UNIT-IV Classroom Achievement Tests Characteristics of a good test		international level.	
UNIT-I Meaning of Measurement and Evaluation in Education Characteristics of the evaluation Purpose uses and types of evaluation Purpose uses and types of evaluation Concept of instructional objectives and its classification Writing instructional objectives- Bloom's taxonomy and RCEM approach. Reporting evaluation results. UNIT-II Characteristics of Standardized tests Validity – meaning, concepts and its types Validity – meaning, concepts and its types Steps of standardisation of tests Objectivity - meaning, concepts and its types Steps of standardisation of tests Tools and techniques of evaluation Paper pencil tests, Oral tests, and Performance tests Intelligence tests and aptitude tests Rating scale Check list Anecdotal records Socio-metric technique Interview, Questionnaire and Inventory Interview, Questionnaire and Inventory Interview of Questionnaire and Inventory		COURSE CONTENT / SYLLABUS	
UNIT-I Characteristics of the evaluation Purpose uses and types of evaluation Concept of instructional objectives and its classification Writing instructional objectives- Bloom's taxonomy and RCEM approach. Reporting evaluation results. UNIT-II Characteristics of Standardized tests Validity – meaning, concepts and its types Validity – meaning, concepts and its types Steps of standardisation of tests Major Tools of Evaluation and their uses Tools and techniques of evaluation Paper pencil tests, Oral tests, and Performance tests Intelligence tests and aptitude tests Intelligence tests and aptitude tests Check list Anecdotal records Socio-metric technique Interview, Questionnaire and Inventory Interview, Questionnaire and Inventory Mair Characteristics of a good test		PERSPECTIVES ON ASSESSMENT AND EVALUATION	
UNIT-II Characteristics of Standardized tests 61 · Validity – meaning, concepts and its types 61 · Reliability - meaning, concepts and its types 61 · Objectivity - meaning, concepts and its types 61 · Steps of standardisation of tests 10 VINIT-III Major Tools of Evaluation and their uses · Tools and techniques of evaluation 12 · Paper pencil tests, Oral tests, and Performance tests 12 · Intelligence tests and aptitude tests 12 · Rating scale 12 · Check list Anecdotal records · Socio-metric technique 14 · Interview, Questionnaire and Inventory 14 VINIT-IV · Achievement Tests · Achievement & Diagnostic tests 14 · Characteristics of a good test 14	UNIT-I	 ✓ Characteristics of the evaluation ✓ Purpose uses and types of evaluation ✓ Concept of instructional objectives and its classification ✓ Writing instructional objectives- Bloom's taxonomy and RCEM approach. 	18 hrs.
UNIT-II Validity – meaning, concepts and its types Reliability - meaning, concepts and its types Objectivity - meaning, concepts and its types Steps of standardisation of tests Major Tools of Evaluation and their uses Tools and techniques of evaluation Paper pencil tests, Oral tests, and Performance tests Intelligence tests and aptitude tests Intelligence tests and aptitude tests Check list Anecdotal records Socio-metric technique Interview, Questionnaire and Inventory Interview, Questionnaire and Inventory Achievement & Diagnostic tests Characteristics of a good test Characteristics of a good test Tools a good test 			
Wajor Tools of Evaluation and their uses Image: Second	UNIT-II	 ✓ Validity – meaning, concepts and its types ✓ Reliability - meaning, concepts and its types ✓ Objectivity - meaning, concepts and its types 	6 hrs.
UNIT-III Paper pencil tests, Oral tests, and Performance tests Intelligence tests and aptitude tests Intelligence tests and aptitude tests Rating scale Check list Check list Anecdotal records Socio-metric technique Interview, Questionnaire and Inventory Interview, Questionnaire and Inventory Interview, Int			
Classroom Achievement Tests ✓ Achievement & Diagnostic tests 1 VNIT-IV ✓ Characteristics of a good test 1	UNIT-III	 Paper pencil tests, Oral tests, and Performance tests Intelligence tests and aptitude tests Rating scale Check list Anecdotal records Socio-metric technique 	12 hrs.
UNIT-IV ✓ Characteristics of a good test			
- Types of classroom achievement test	UNIT-IV	 ✓ Achievement & Diagnostic tests ✓ Characteristics of a good test ✓ Types of achievement test. 	12 hrs.

	\checkmark Preparation of blue print	
	✓ Relating test items and specific behavioural objectives	
	✓ Improving the limitations of different types of test	
	Elementary Statistics in Educational Evaluation	
	✓ Organization of Data: Frequency Distribution	
	✓ Graphical representations of grouped data	
UNIT-V	✓ Measures of Central Tendency	16
01411-4	✓ Variability with special reference to Standard Deviation	hrs.
	✓ Correlation Coefficient: Rank difference method	
	✓ Normal Probability Curve and its applications	
	✓ Fundamental idea of Standard Scores (T-test & Z-test)	
	MODE OF TRANSACTION	
	Lecture, Team Teaching, Practical Work, Group Discussion, Presentation by St	udent
	Unit Test	
	SUGGESTED ACTIVITIES	
	1. Writing instructional objectives	
	2. Framing measurable and non-measurable learning outcomes	
	3. Finding out the content validity of the given question paper	
	4. Designing Rating scale, Observation schedule, Check list in a given a	32
	topic	hrs.
	5. Developing evaluation technique of question paper	
	6. Framing different types of questions	
	7. Preparation of Blue Print and a question paper	
	8. Prepare graphs and use statistics for analysis of test result REFERENCES	
Ebel, R.L. Learning PV	and Fresbie, D.A. (2009). <i>Essentials of Educational Measurement</i> . New Dell T. LTD.	ni: PH
Garrett, H.E	(2008). Statistics in Psychology and Education. Delhi: Surject Publication.	
	(1994). Applied Statistics for Education. Mittal Publications.	
-	I., and Shah, I. K. (1982). Educational Evaluation. Ahmedabad: Anand Pra	akasha
(Gujarati).		
	04). Educational Measurement and Evaluation. New Delhi: Discovery Publishers.	
, ,	. (1970). Measurement, Evaluation and Statistics in Education., New Delhi: N	AW R
Book Depot.		
-		
	.R., Livingston, R.B., and Willson, V. (2011). Measurement and Assessment in Edu	icano
	PHI Learning PVT. LTD.	
Ten Brink, T	C. D. (1974). Evaluation - A Practical Guide for Teachers. New York: McGraw Hi	ll Boo
Co.		
Thorndike, I	R.M. (2010). Measurement and Evaluation in Psychology and Education. New Del	hi: PF
Learning PV	T. LTD.	
Yadav, M. S	. and Govinda, R. (1977). Educational Evaluation, Ahmedabad: Sahitya Mudranal	aya.
	(2004). Encyclopedia of Indian Education. New Delhi: NCERT.	-
	n, P.V. (2004). Curriculum development and management. New Delhi: DPH.	
~ ary anaraya	63	

Sharma, R. (2002). Modern methods of Curriculum Organisation. Jaipur: Book Enclave.
Sharma, S. R. (1999). Issues in Curriculum Administration. New Delhi: Pearl Publishing House.
Sockett, H. (1976). Designing the Curriculum. Britain: Pitman Press.
Srivastava, H. S. (2006). Curriculum and methods of teaching. New Delhi: Shipra Publishers.
Tata, H. (1962). Curriculum development theory & practice. New York: Harcourt, Brace & World Inc.
Yadav, Y.P. (2006). Fundamentals of Curriculum design. New Delhi; Shiri Sai Printographers

PAPER- VII

YEAR	II	CREDIT	4+1
Semester	IV	- KNOWLEDGE AND CURRICULUM HOURS	64+32
OBJECTIVE	ES:	1. To acquaint the students with the changing paradigms of education.	- I
		2. To enable the students to understand models and process of development	curriculum
		3. To enable the student to understand the strategies of curriculum implementation of the student to understand the strategies of the student strategies of the student strategies of the strate	nentation
		4. To enable the students to understand the ways of curriculum evaluation	1
		5. To enable the students to examine issues in curriculum development	
		COURSE CONTENT / SYLLABUS	
	Epi	stemological Base of Knowledge	
		✓ Concept of Knowledge	
		✓ Source of knowledge	
		✓ Forms of knowledge	15
UNIT-I		✓ Difference between i. Information & Knowledge ii. Belief and Opinio	n hrs.
		✓ Nature of knowledge in different disciplines	111 5.
		 Inquiry Training Model 	
		 Concept Attainment Model 	
		 Advance Organizer Model 	
	Edu	ucational Implication of Knowledge Base	
		✓ Different approaches of knowledge transaction	8
UNIT-II		\checkmark Knowledge base in different modes of education face to	hrs.
		face/tutorial/large group/oral-aural/ group based / individualized/	111 5.
		distance mode/ digital mode/virtual mode	
	Co	ncept of Curriculum	
		✓ Meaning, nature and concept of curriculum	12
UNIT-III		✓ Types of curriculum	
		✓ Components of curriculum	hrs.
		 ✓ Principles of curriculum development ✓ Process of curriculum development 	
UNIT-IV	Cm	rriculum Evaluation and Issues	13
	- Cu		10

	\checkmark Basis for evaluation of the curriculum	hrs.
	\checkmark Curriculum reforms with special reference to Mudaliyar, Kothari	
	Commission, NPE 1986 and NCF 2005	
	Analysis of existing Curriculum State Board/ CBSE/ICSE.	
	Gender Issues in Curriculum	-
	 ✓ Gender Identities and socialization ✓ Gender in school: Curriculum, Text books, Classroom processes and 	
UNIT-V	student –teacher interactions	16
	 ✓ Overcoming gender Stereotypes 	hrs.
	✓ Working towards gender equality in the classroom (need and strategies)	
	✓ Empowerment of women: Strategies and Issues	
	MODE OF TRANSACTION	
	Group discussion, Lecture-cum –discussion, Pair and Share, Group Work, Panel	
	discussion, Symposium, Assignments, School visits and Sharing of experiences	
	SUGGESTED ACTIVITES	
	1 Analysis of School curriculum at different stages	
	2 Designing an activity based curriculum	
	3 Textbook analysis	
	4 Visit to different schools (Pvt. &Govt.) to analyse the role of different	
	personnel in Curriculum development process	
	5 Evaluation and preparation of a report of existing curriculum of different	32 hrs.
	boards: CBSE/ICSE/State Board	02
	6 Group discussion over issues concerning curriculum in Indian schools	
	7 Policy analysis on curriculum framework	
	8 Analysis of position papers on different subjects' curriculum	
	9 Analysis of textual materials from the perspective of gender bias and	
	stereotypes	
	10 Debates and discussion on violation of rights of girls and women	
	REFERENCES	
Aggrawal, J	. C., & Gupta, S. (2005). Curriculum Development. New Delhi: Shipra Publisher.	
Alaxander,	W. M., & Saylor, J. G. (1966). Curriculum Planning for modern schools. New	York:
Holt	, Rinhart and Winston Inc.	
Balrara, M.	(1999). Principles of Curriculum Renewal. New Delhi: Kanishka Publishers.	
Candra, A.	(1977). Curriculum Development and Evaluation in education. New Delhi:	Sterling
Publ	ishers.	
Darji, D. R.	, & Lulla, B. P. (1967). Curriculum development in secondary schools of Baroda.	Baroda:
Sadh	nana Press.	
Erickson, H	.L.(2007) concept based curriculum and instruction for the thinking classroom Cal	ifornia;
corw	vin press	
Hassrin, M.	(2004). Curriculum Planning for elementary education. New Delhi: Anmol Public	lishers.
Herbert, J.	W. & Geneva, D. H. (1990). International Encyclopedia of Education Evaluation	n. New
York	: Pergamon Press Oxford House.	

- Jenkins, D., & Shifman, D. M. (1976). Curriculum an introduction. London: Pitman Publishing House.
- Jhompson, K., and White, J. C. (1975). Curriculum development. London: Pitman Publishing
- Khan.M.I. and Nigam,B.K.(2007).Curriculum reform change and continuity. New Delhi; kanishka publication
- Kumari, S., and Srivastava, D. S. (2005). Curriculum and Instruction. New Delhi: Shipra Publishers.
- Macdonald, B., & Walker, R. (1976). Changing the Curriculum. Britain: Pitman Press.
- Musgrave, P. W. (1974). *Contemporary studies in the Curriculum*. Australia: Angus and Roberston Publishers.
- Nigam, B. K., & Khan, I. M. (1993). *Evaluation and research in Curriculum Construction*. New Delhi: Kaniska Publishers.
- Ornsttein, A. C. & Hunkins, F.P. (1988). Curriculum foundations, Principles and issues New jersey prentice hall
- Panday, M. (2007). Principles of Curriculum Development. New Delhi; Rajat publications
- Rajput, J. S. (2004). Encyclopedia of Indian Education. New Delhi: NCERT.
- Satyanarayan, P.V. (2004). Curriculum development and management. New Delhi: DPH.
- Sharma, R. (2002). Modern methods of Curriculum Organisation. Jaipur: Book Enclave.
- Sharma, S. R. (1999). Issues in Curriculum Administration. New Delhi: Pearl Publishing House.
- Sockett, H. (1976). Designing the Curriculum. Britain: Pitman Press.
- Srivastava, H. S. (2006). Curriculum and methods of teaching. New Delhi: Shipra Publishers.
- Taba, H. (1962). Curriculum development theory & practice. New York: Harcourt, Brace &WorldInc.
- Yadav, Y.P. (2006). Fundamentals of Curriculum design. New Delhi; Shri Sai Printographers
- Gender Inequality & Women Empowerment; Anil kumar. Tai Axis Books Pvt.Ltd.
- Gender Mainstreaming and issues; S. Basik. Adhyayan publishers & distributions

Gender Sociology; Sumit Dutta(2013). Wisdom press

PAPER -VIII

CDEATING AN INCLUSIVE SCHOOL	CREDIT	4+1
CREATING AN INCLUSIVE SCHOOL	HOURS	64+32
1.To sensitize regarding the needs of Special children.		
2.To understand the concept of Special Education, Main stream	ming and Inc	lusion.
3.To analyse the status of Inclusive Education in India with	th reference t	o different
Policies, Programmes and Acts regarding rehabilitation Special Children.		
4.To realise the nature and needs of different categories of Special Children.		ı.
5.To comprehend and apply special techniques of teaching Sp	pecial Childre	n.
6.To analyze the role of Parents, Teachers (special schools/regular), Commu		ommunity,
Peers, Principals etc.		
7.To analyze the role of parents, teachers (Special Schools	and Regular	/ General
	 2.To understand the concept of Special Education, Main streat 3.To analyse the status of Inclusive Education in India with Policies, Programmes and Acts regarding rehabilitation Spectration of the status of different categories of Spectral Stress (Special techniques of teaching Spectral techniques of teaching Spectral techniques (Special school) Peers, Principals etc. 	CREATING AN INCLUSIVE SCHOOL HOURS 1.To sensitize regarding the needs of Special children. 2.To understand the concept of Special Education, Main streaming and Inc 3.To analyse the status of Inclusive Education in India with reference to Policies, Programmes and Acts regarding rehabilitation Special Children. 4.To realise the nature and needs of different categories of Special Children 5.To comprehend and apply special techniques of teaching Special Children 6.To analyze the role of Parents, Teachers (special schools/regular), Comparent

	Schools), community, peers, principals, etc.	
	8. To comprehend and apply the special techniques of teaching the disable	ed and
	evaluating impaired children.	
	9.To critically think on issues of special Education and Inclusive Education.	
	COURSE CONTENT / SYLLABUS	
	Concept of Special School and Main Streaming	
	✓ Concept of Special Education	10
UNIT-I	✓ Factors affecting special education	hrs.
	✓ Mainstreaming through special education	
	Understanding Diversities	
	✓ Children with special needs: Concept and classification	
	✓ Visual impairment	10
UNIT-II	✓ Hearing impairment	12
	✓ Intellectually disabled	hrs.
	 Locomotor and neuromuscular disorders(orthopaedic impairment) Autism 	
	National Policies its acts and international convention for inclusive	
	education.	
	✓ NPE- 1986, NEP 2020	
UNIT-III	✓ RCI Act 1992, PWD Act-1995, National Trust Act- 1999, RTE Act-	20
	2009, RPWD Act - 2016	hrs.
	✓ UN convention on Rights of the Child, UNESCO-1989	111 5.
	\checkmark UN convention on Rights of the Person with Disability, UNESCO-2009	
	✓ Policies guide lines on inclusive education UNESCO - 2009	
	Inclusive Education	
	✓ Concept of inclusive education	
UNIT-IV	\checkmark Difference with special, integrated and inclusive education	10
	✓ Models of inclusive education	hrs.
	\checkmark Concept of an inclusive school- infrastructure and accessibility, issues	
	and challenge.	
	Inclusion in Operation	
	✓ Factors affecting inclusion	12
UNIT-V	✓ Rehabilitation of disabilities:	hrs.
	Role of the Parents, Community, Peers, Resource Person, Itinerant	
	Teacher, Shadow teacher, Headmaster and Teacher.	
	MODE OF TRANSACTION	
	Lecture, Discussion, Case Study, Field Visits, Problem solving, Film Show	

SUGGESTED ACTIVITIES	
records.	
2. Visit to Inclusive Schools and to observe classroom transaction of any one of	
such school in Ranchi and make a report of the same.	
3. Identifying one/two pupils with special needs in the primary schools and	
preparing a profile of these pupils.	32 hrs.
4. Preparation of teaching aids, toys, charts, flash cards for children having any	52 1115.
one type of disability.(Visit to Resource Room)	
5. Preparation of Lesson Plan and instruction material for teaching students with	
disability in inclusive school.	
6. Developing list of teaching activities of CWSN in the school.	
7. Case study of one main streamed (Inclusive) student w.r.to	
a) Role of a parent	
b) Role of a teacher : Special School teacher, General School Teacher	
c) Role of Counselor	
8. Visit to different institutions dealing with different disabilities and their	
Classroom observation	
	 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 school in Ranchi and make a report of the same. Identifying one/two pupils with special needs in the primary schools and preparing a profile of these pupils. Preparation of teaching aids, toys, charts, flash cards for children having any one type of disability.(Visit to Resource Room) Preparation of Lesson Plan and instruction material for teaching students with disability in inclusive school. Developing list of teaching activities of CWSN in the school. Case study of one main streamed (Inclusive) student w.r.to Role of a parent Role of a teacher : Special School teacher, General School Teacher Role of Counselor

REFERENCES

Fimian, M. J., Fafard, M., and Howell, K. W. A Teacher's guide to Human Resources in Special Education: Para Professionals, Volunteers, and peer tutors. Boston: Allyn and Bacon, Inc.Furth, H. (1964). Thinking without Language. New York: Free Press.

Hallahan, D. P., and Kauffman, J. K. (1988). *Exceptional Children: Introduction to special Education*. N.J.: Englewood Cliffs.

Jangira, N. K. (1986). *Special Education Scenario in Britain and India*. Gurgaon: The Academic Press.

Kothari, R. G, and Mistry, H. S. (2011). *Problems of students and Teachers of the special schools- A study of Gujarat state*. Germany: VDM Publication.

Meadow, K. P. (1980). *Deafruss and child development*. Berkley, C.A.: University of California Press

Mithu, A and Michael, B (2005) *Inclusive Education: From rhetoric to Reality*, New Delhi: Viva Books Pvt. Ltd.

Oza, D. and, Pandit R, (2011). *Management of behavioural problems of children with mental retardation*. Germany: VDM publication.

Premavathy, V. and Geetha, T (2006): Integrated and Inclusive Education DSE(VI) Manual: New Delhi, Krishana Publication.

Reed, M. (1984). *Educating Hearing Impaired Children*. Milton Keynes: Open University Press. Sharma, P. L. (1988). *A Teacher's Handbook on Integrated Education of the Disabled*. New Delhi: NCERT.

Voluntary Health Association of India. Disabled 'Village Children' - A Guide for Community Health

Workers, Rehabilitation Workers, and Families.

EPC- V (ART & AESTHETICS)

YEAR	II		CREDIT	2+1
Semester	IV	ART & AESTHETICS	HOURS	32+32
OBJECTIVES		 To understand the significance of art at secondary level of school education. To understand the difference between education in arts and arts in education. Promote among the student-teachers aesthetic sense, time sense, tolerance and self-confidence. To introduce the great artists. To develop knowledge of Indian craft traditions and its relevance in education (based on a set of slides, selected for the purpose) To develop knowledge of Indian contemporary arts and artists; visual arts (based on a set of slides, selected for the purpose) 		
		COURSE CONTENT / SYLLABUS		
	Ар	plication of art in academics		
UNIT-I		 (i) Significance of art in education. (ii) Integrating arts in school curriculum (with reference to NCTE (iii) Correlation of art with other school subjects. (iv) Role of art education in B.Ed course. 	2005)	8 hrs.
UNIT-II	Dec	corative arts		
		 (i) Concepts and forms of arts and craft (ii) Difference between Fine art and decorative arts/crafts (iii) Integrating arts and craft in school curriculum as pedagogical (iv) Identification of different National and Local art and craft for (a) Fine art (b) Craft 		6 hrs.
	Stu	dy of the following sculptures		
UNIT-III		 (i) Symbol player Sun temple (Konar, Orissa) (ii) Descent of Ganga (Tamilnadu) (iii) Lakshmi,Narayana (Khajuraho M.P) (iv) Lion capital from (Sarnath) (v) Seated Buddha from Katra Tila Mathura (vi) Mother and Child (Vimla Shah Temple, Mount Abu, Rajastha 	an)	6 hrs.
	Int	roduction of Musical Instruments, their uses and artists	,	
UNIT-IV		 (i) Classification of Instruments (ii)) Tat vadya (iii) Sushir vadya (iv) Avnad vadya (v) Ghan vadya (vi) Importance of instruments in music. 		6 hrs.

	Identification of Folk Instruments and Regional performing art forms of India		
UNIT-V	(i) Folk songs of India(ii) Folk Instruments of India		
	MODE OF TRANSACTION		
	SUGGESTED ACTIVITIES		
	1. Decorative art.		
	• Pot Painting.		
	Glass Painting		
	Wall Painting.		
	• Creativities with paper		
	2. Create some crafts.		
	3. Prepare useful Products and decorative items form waste material.		
	4. Basic knowledge of water colour.		
	5. Organize a workshop of fine art.	32 hrs	
	6. Organize a competition of drawing and painting.		
	7. Practice of Alankar with the use of komal and tivra swar.		
	8. Practice of two basic Raga: Bhairav and Bilawal.		
	9. Practice of Patriotic and Folk songs.		
	10. Practice of Dugun and chaugun of taal keharwa, dadra and teen taal.		
	11. Organize a solo and group competition of singing.		
	12. Organize a solo/group competition of dance.		
	13. Develop an audio CD based on self composed poem, songs, prayer songs		
	etc.		
	REFERENCES		
	an Folk arts and crafts (Jasleen Dhamija)		
	nples of North India (Krishna Deva)		
	nples of South India (K.R.Srinivasan)		
	indranath Tagore-Philosophy of education and painting		
	tionary of Music: Pdam Aiyer		
	of Indian Dance: Projesh Bamerjs		
	k India set in XT Vol.; Manorama Sharma		
> Non	approximation and a second s		

- Sangeet visharad by vasant.
 Sangeet Ratnawali by Ashok Kumar yaman.
 Kramik Pustak Malika, Part-I&II by Vishnu digamber palushkar.
 Raag parichay, Part-I&II by Harishchandra.