1.Name	of the De	partment	: Education	(D.El.Ed.)										
2.Cours	e Name		C	HILD DEVELOPN	MENT A	ND PROCESS OF L	EARNI	NG	L		т		I	P
3.Cours	e Code		D	ED 401					2		1		(	0
4.Type	of Course	(use tick m	nark)						Core(√)	DE(	)		FC()	
5.Prerec	uisite			Graduation with any	у	6.Frequency	Even	()	Odd(v)	Eith	erSem()		EverySem	n()
(if any)				Discipline		(use tick marks)								
		f Lectures,	, Tutorials,	Practical										
Lecture						Tutorials=10		P	ractical=N	lil				
8. COURS			ions and n	ringinlag of diffor	ont stag	es of child developm	ont							
						lental and Emotional		roviding	knowled	ge of fac	tors aff	ecting th	em.	
3. Makin	g them a					solving the problem								of
children.		1 1	c ·	1 1 1 1	11	cc : . :	1 • .		. 1	. 1		.1 1.11	1	
-		MES (CO):	-	sychological test	s and be	come efficient in ap	olying t	nose test	s to evalu	late and	develop	the abili	ties of cr	maren.
				earners will develo	p followi	ng attributes:								
COURSE			-	ATTRIBUTES										
				The Students will	be able to	o understand the conc	ept of ch	ild devel	opment ar	nd its vario	ous stage	s and fact	tors influe	ncing it.
		201 202				o enhance the knowled			-					
		202				o develop the appropr						nrohlems	nsvcholog	vically
	, i	.03		related behaviour				inques of	lacitaryii		ing the	problems	psycholog	Siculty
	C	:04				o develop the skills of arious aspects of child			scientific	approach	es, differ	ent techn	iques and	
	c	:05		The Students will (Mean, Median ar		o acquaint the student	s about	graphical	represent	ation and	measur	es of cen	tral tende	ency
10.Unit	wise detai	led conter	nt	·		1								
Unit-1				of lectures = 12		Title of the unit : C	hild De	velopmen	t					
<ul> <li>Meaning of child development, need and its scope.</li> <li>Stages of child development (infancy, childhood, adolescence) and various aspects of development during these stages. Physical development. Mental development, intelligence, intelligence quotient, (I.Q.) intelligence test. Emotional development, cognitive development (Piaget"s Theory). Social development, Language development - Development of ability to express. Creativity and development of creative skills.</li> <li>Development of personality: meaning and types (introvert, extrovert, ambivert).</li> <li>Methods of personality testing and ways for adjustment.</li> <li>Individual differences - meaning, factors and importance.</li> <li>Development of imagination, thinking and Reasoning.</li> <li>Basis of child development and factors affecting it Heredity Environment (Family, Society, school, and Means of Communication).</li> <li>Unit-2</li> <li>Number of lectures = 10</li> <li>Title of the unit : Learning</li> <li>Meaning and Principles of Learning -Meaning of learning and factors affecting learning, physical and mental health of child, maturity, willingness for learning, motivation, nature of subject matter, Environment, Physical and mental fatigue.</li> <li>Effective methods of learning -Learning by doing, learning by imitation, learning by observation, learning by group activities, Conference and seminar method, project method, learning in groups.</li> <li>Rules of learning and their practical utility in class teaching: Thorndike's principle of 'Trial and Error'. Pavlov''s theory of 'Conditional Response'. Skinner is theory of 'Operant Conditioning'. Koehler's theory of 'Insight Learning'. Principle of Piaget. Principle of Vyogatsky. Principle of Bruner. Learning types. Plateau in learning: meaning, causes and solution. Transfer of learning; types, principle and its importance in teaching learning.</li> </ul>									for					
Unit-3				of lectures = 04		Title of the unit : Mot	ivation							
•	Method: atmosph	<b>s of motiv</b> a ere. Motiv	ation - Inter ation of ac		e commu	oup work, praise, rewand nity, village education hool management.								ther
Unit-4			Number	of lectures = 05		Title of the unit : At	tention	, Interest	and Men	nory				
•	Interest: betweer	: Meaning, 1 interest a	types and attentic	testing of child's int	erest and	methods for concentr I methods for inculcati	ng inter	est in thei	n. Importa		terest in	learning,	interrelati	ionship
• Unit-5	wemory	, ivieaning		of lectures = 04		emory. Meaning of for Title of the unit : Stat		ss, reasor	is and imp	ortance.				
•		s–Meaning /ledium an		ce and graphical rep	presentat	ion of data.								
	Omapping													
C		•		Attrib	outes			PO1	PO2	PO3	PO4	PO5	PO6	PO7
co	01			able to understand d factors influencing		ept of child developm	ent and	3	3	2	2	3	-	-

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CO2	The Students will be able to enhance the knowledge of learning and principles of learning.	3	3	2	2	2	-	-	
СОЗ	The Students will be able to develop the appropriate techniques of identifying and solving the problems psychologically related behaviour of child.	3	3	2	2	2	-	-	
CO4	The Students will be able to develop the skills of problem- solving , scientific approaches, different techniques and principles in learning and various aspects of child development.	3	3	2	2	2	-	-	
CO5	The Students will be able to acquaint the students about graphical representation and measures of central tendency (Mean, Median and Mode).	2	2	2	2	2	-	-	
	3Strongcontribution,2Averagecontribution,1Low	vcontribu	ition						
12.Brief descripti	on of self-learning/E-learning component								
https://drive.goog	zle.com/file/d/1xLUOOUGJly2VY5csoxXAuZ6uL2qltyBR/view?usp=sharing								
https://drive.goog	<pre>sle.com/file/d/1awrpkYC WjmjysDw24VpEgciu1EvgXe2/view?usp=sharing</pre>								
https://drive.goog	le.com/file/d/1IHnT8bUipOxNXsOdtiQI8VJ4e2I6POB-/view?usp=sharing								
https://drive.goog	e.com/file/d/1waytfeq0rkTs85jw7Sj103QtyvgmMV6l/view?usp=sharing								
https://drive.goog	e.com/file/d/1QhTNguJLdiRgJw2nrZo7l7-Vgn-V9O51/view?usp=sharing								
13.Books recomm	iended:								
1. Child Developm	ent and Process of Learning								
Smt. R.K.Sharma	, Radha Prakashan Mandir Ltd.								
2. Child Developm	ent and Process of Learning								
Mahendra Srivas	stava and Satish Kumar, Agrawal Publication.								
3. Educational Psyc	67								
	h, Bharti Bhawan (P&D)								
4. Educational Psyc									
Bhatia & Bhatia, Doaba House Publishers									
5. Essential of Educational Psychology									
J.C.Aggarwal,Vik	as Publishing House Pvt.Ltd.								

Course Name         PRINCIPLE OF TEACHING LEARNING         I         T           Course Code         DEDD2         2         1           Type of Course (use tick mark)         6         Frequency (use, Even ()         Odd (s)         Fither Sem ()           Total Number of Lectures, Tutorials, Practicals         Intervention of the topics introduced will serve as basic tools for specialized studes in declaring learning, which is necessary for grooming theminus succe divation field.           COURSE OUTCOMES (CO):         Intervention of the topics introduced will serve as basic tools for specialized studes in declarion field.         Practical = Nil           COURSE OUTCOMES (CO):         Intervention of the accessful occurs completion, Learner will develop following attributes:         ATTRIBUTES           COOL         Indefine teaching and state the aims of teaching: Is and explain and maxims of teaching.         COOL           COO         Indefine teaching and state the aims of teaching: Is and explain and maxims of teaching.         COOL           COOL         Is and explain all principles of teaching: Is and explain all mostance of expected learning outcome in learn reinforcement.         COOL           COOL         Is explain the concept, Is all skills of micro teaching: explain the concept and importance of expected learning outcome in learn reinforcement.         COOL           COA         Explain the concept, Is all skills of micro teaching: Fracticeas of Communication; Methods of Teaching         Princi								
Type of Course (use tick mark)       Core (4)       DE ()         Pre-requisite (flamy)       6. Frequency (use tick mark)       Even ()       Odd (4)       Either Sen ()         7. Total Number of Lectures = 25       Tutorials = 10       Practical = NII         COURSE OBJECTIVES: The course is almed to develop the skills in understanding principles of teaching learning, which is necessary for grooming them into suce diversion gradues. The topics in thocded will serve as basic tools for specialized studies in education field.       Practical = NII         COURSE OUTCOMES       COURSE OUTCOMES (CO):       attract the aims of teaching and state the aims of teaching: define communication, explain components, list types of communication, ident and principles of teaching: in teaching and learning.         CO1       Define teaching and state the aims of teaching: explain in the concept. Is is and explain all methods (new) of teaching.         CO3       List, explain and differentiate between different techniques of teaching. Is at an explain in methods (new) of teaching.         CO4       Explain the concept. Isi, identify and state the characteristics of different teaching learning materials.         0. Unit wise detailed content       07         Meaning of Communication.       Principle of deminition (explain grad in portance; Factors and Components of communication; Types of Communication; Methods of effective communication.         Multi A       Number of lectures       07         • Meaning of Communication; Need and importance; Factors and Co								
IP re-requisite (frany)         6.         Frequency (use fick marks)         Even ()         Odd (v)         Either Sem ()           1. Total Number of Lectures, Tutorials, Practicals         Tutorials = 10         Practical = NII           0. COURSE OURSE TOWES: The course is saimed to develop the skills in understanding principles of teaching learning, which is necessary for grooming them into succe ducation graduate. The topics introduced will serve as basic tools for specialized studies in education field.         OCURSE OURSE OURSE COURSE (COURSE COURSE COURSE COURSE OUTCOME         TUTRIBUTES           COURSE OUTCOME         COI Define teaching and state the aims of teaching: define communication, explain components, list types of communication, ident und importance and apply effective communication techniques in teaching: and learning.         CO3         List, explain and differentiate between different techniques of teaching. Isst and explain all maxims of teaching.           CO4         Explain the concept, list all skills of micro teaching; explain the concept and importance of expected learning outcome in learn reinforcement.         OT           CO4         Explain the concept, list, identify and state the characteristics of different teaching learning materials.         OLivit vise detailed content           Init-1         Number of lectures         07           •         Meaning of Communication: Nethods of Teaching         Init-2           Communication         07         Second first explain all microine (Fini interiste ishario) (Finiciple of definite aims: Principle of pl								
Item of Lectures       Item of Lectures       Item of Lectures       Item of Lectures         4. Total Number of Lectures       25       Item of Lectures       10       Practical = Nil         4. COURSE OUTCOMES (CO):       Externers will develop fullowing attributes:       COURSE OUTCOMES (CO):       COURSE OUTCOMES (CO):         4. COURSE OUTCOMES (CO):       COURSE OUTCOMES (CO):       ATTRIBUTES       COURSE OUTCOMES (CO):         4. COURSE OUTCOMES (CO):       COURSE OUTCOMES (CO):       ATTRIBUTES       COURSE OUTCOMES (CO):         CO1       Define teaching and state the aims of teaching; idefine communication, explain and learning.       CO2       List and explain all principles of teaching; ists and explain all maxims of teaching.         CO3       List, explain and differentiate between different techniques of teaching; list and explain all methods (new) of teaching.         CO4       Explain the concept, List all skills of micro teaching; explain the concept and importance of expected learning outcome in learning.         CO5       Explain the concept, List, identify and state the characteristics of different teaching learning materials.         0.0       Iter of teaching       07         •       Meaning of Communication, Ked and importance; Factors and Components of communication; Meening of learning by doing; Principle of motivation.       Principle of learning by doing; Principle of motivation.         •       Principles of Teaching								
Lettures = 25         Tutorials = 10         Practical = Nil           COURSE OJE CTIVES: The corresis aimed to develop the skills in understanding principles of teaching learning, which is necessary for grooming them into succe ducation graduate. The topics introduced will serve as basic tools for specialized studies in education field.         OCOURSE OUTCOMES (CO):           0.COURSE OUTCOMES (CO):         ATTRIBUTES         OUTCOMES (CO):         ATTRIBUTES           (CO)         Define teaching and state the aims of teaching; idefine communication, explain components, list types of communication, ident and importance and apply effective communication techniques in teaching and learning.         CO2         List and explain and differentiate between different techniques of teaching: its and explain all methods (new) of teaching.           CO3         Explain the concept, list, identify and state the characteristics of different teaching learning materials.           CO4         Explain the concept, list, identify and state the characteristics of different teaching learning materials.           0.Unit wise detailed content         07           • Meaning and Aims of Teaching         07           • Ormunication:         Methods of fifte communication; Principle of motivation; Principle of interest; Principle of definite aims; Principle of planning; Principle of selection Principle of faming by doing; Principle of motivation; Principle of intervise; Simulationship with life; Principle of repetition; Principle of intervise; Principle of selection Principle of indivision (Simulations); Fould out ananysis to synthesis; From Psychological to logical; From specifion								
COURSE OBJECTIVES: The coarse is animed to develop the skills in understanding principles of teaching learning, which is necessary for grooming them into succe ducation graduat. The topics introduced will serve as basic tools for specialized studies in education field.           OCOURSE OUTCOMES (CO):         Extension of the extension of thextension of the extension of the extension of the extension of								
ducation graduate. The topics introduced will serve as basic tools for specialized studies in education field.         COURSE OUTCOME           OCURSE OUTCOME         ATTRIBUTES           COOL         Define teaching and state the aims of teaching; define communication, explain components, list types of communication, ident and importance and apply effective communication techniques in teaching and learning.           CO         List and explain all principles of teaching; list and explain all maxims of teaching.           CO         List and explain all principles of teaching; list and explain all maxims of teaching.           CO         List, explain the concept, list all skills of micro teaching; explain the concept and importance of expected learning outcome in learn reinforcement.           COS         Explain the concept, list, identify and state the characteristics of different teaching learning materials.           0. Unit wise detailed content         07           Mening and Aims of Teaching         97           • Mening and Aims of Teaching         07           • Mening of Teaching         97           • Principles of Teaching         97           • Principle of learning by doing: Principle of motivation: Principle of interest: Principle of definite aims: Principle of planning: Principle of selection Principle of devision (of sm								
QCOURSE OUTCOMES (CO);       ATTRIBUTES         COURSE OUTCOME       ATTRIBUTES         COUNSE OUTCOME       ATTRIBUTES         CO1       Define teaching and state the aims of teaching; define communication, explain components, list types of communication, ident and importance and apply effective communication techniques in teaching and tearning.         CO2       List and explain all principles of teaching; list and explain all principles of teaching; list and explain all principles of teaching; list and explain all methods (new) of teaching.         CO3       List, explain and differentiate between different techniques of teaching; list and explain all methods (new) of teaching.         CO4       Explain the concept, list all skills of micro teaching; explain the concept and importance of expected learning outcome in learn reinforcement.         CO5       Explain the concept, list, identify and state the characteristics of different teaching learning materials.         0. Unit wise detailed content       07         •       Meaning and Alms of Teaching         •       Ord         •       Principles of Teaching         •       Ord         •       Principles of Teaching         •       Principle of learning by doing; Principle of motivation; Principle of interest; Principle of definite aims; Principle of planning; Principle of selection Principle of learning the doing: Principle of motivatian (Principle of selection; Principle of divisidal differenences; Principle of denoratic behaviour; Prin								
Iter the successful course completion, learners will develop following attributes:           OCINESE OUTCOME         ATTRIBUTES           (CO)         Define teaching and state the aims of teaching: define communication, explain components, list types of communication, ident and importance and apply effective communication techniques in teaching and learning.           CO2         List and explain and ifferentiate between different techniques of teaching; list and explain all methods (new) of teaching.           CO3         Explain the concept, list all skills of micro teaching; explain the concept and importance of expected learning outcome in learn reinforcement.           CO4         Explain the concept, list all skills of micro teaching; explain the concept and importance of expected learning outcome in learn reinforcement.           CO3         Explain the concept, list all skills of micro teaching; explain the concept and importance of expected learning outcome in learn reinforcement.           CO4         Explain the concept, list all skills of micro teaching; explain the concept and importance; Factors and Components of communication; Types of Communication; Methods of effective communication.           Outit wise detailed content         07           Init-2         Number of lectures         07           Principle of Teaching         Principle of motivation; Principle of motivation; Principle of selection; Principle of selection; Principle of selection; Principle of selection; Principle of of small are principle of demonative; Principle of selection; Principle of dinvision (drifferences; Principle of democratic behaviou; Princi								
COURSE OUTCOME         ATTRIBUTES           (CO)         Define teaching and state the aims of teaching; define communication, explain components, list types of communication, ident and importance and apply effective communication techning and learning.           CO2         List and explain all principles of teaching; list and explain all maxims of teaching.           CO3         List, explain and differentiate between different techniques of teaching; list and explain all methods (new) of teaching.           CO4         Explain the concept, list illustify and state the characteristics of different teaching learning materials.           IO. Unit wise detailed content         To           Init-1         Number of lectures         07           • Meaning and Aims of Teaching         07           • Meaning of Communication.         07           • Ormounication         Methods of effective communication.           Juli -2         Number of lectures         07           • Principles of Teaching         Principle of motivation, Principle of interest: Principle of definite aims; Principle of planning; Principle of selection; Principle of learning by doing; Principle of motivation; Principle of interest: Principle of selection; Principle of selection; Principle of selection; Principle of selection; Principle of division (of small steps)           • Principles of Teaching         07           • Principles of Teaching         Principle of motivation; Principle of motivation; Principle of selection; Principle of individual dif								
(CO)         Endine           CO1         Define teaching and state the aims of teaching; define communication, explain a components, list types of communication, ident and importance and apply effective communication techniques in teaching and learning.           CO2         List and explain all principles of teaching; itst and explain all maxims of teaching.           CO3         List, explain and differentiate between different techniques of teaching; list and explain all methods (new) of teaching.           CO4         Explain the concept, list all skills of micro teaching; explain the concept and importance of expected learning outcome in learn reinforcement.           CO5         Explain the concept, list, identify and state the characteristics of different teaching learning materials.           10. Unit wise detailed content         07           Vint-1         Number of lectures         07           •         Meaning of Communication; Need and importance; Factors and Components of communication; Types of Communication; Methods of effective communication; Principle of interest; Principle of definite aims; Principle of planning; Principle of selection Principle of learning by doing; Principle of motivation; Principle of interest; Principle of definite aims; Principle of planning; Principle of selection Principle of learning by doing; Principle of motivation; Principle of stabilishing relationship with life; Principle of selection Principle of division (of small steps)           •         Teaching Maxims           From casy to difficult; From known to unknown; From concrete to abstract; From whole to part; From indefinite to definit								
CO1         Define teaching and state the aims of teaching; define communication, explain components, list types of communication, ident and importance and apply effective communication techniques in teaching and learning.           CO2         List and explain all principles of teaching; list and explain all maxims of teaching.           CO3         List, explain and differentiate between different techniques of teaching; list and explain all methods (new) of teaching.           CO4         Explain the concept, list all skills of micro teaching; explain the concept and importance of expected learning outcome in learn reinforcement.           CO5         Explain the concept, list, identify and state the characteristics of different teaching learning materials.           10. Unit wise detailed content         Juit-1           Number of lectures         07           •         Meaning and Aims of Teaching           •         Meaning and Aims of Teaching           •         Meaning and Aims of Teaching           •         Mumber of lectures         07           •         Meaning and Aims of Teaching           Principles of Teaching         07           Principles of Teaching         07           Principle of distant (of small step)         07           Principle of distantion (small step)         07           •         Principle of learning by doing: Principle of motivation; Principle of interest; Principle of definite aims;								
Ind importance and apply effective communication techniques in teaching and learning.         Cold           CO2         List and explain all principles of teaching; list and explain all maxims of teaching.           CO3         List, explain and differentiate between different techniques of teaching; list and explain all methods (new) of teaching.           CO4         Explain the concept, list all skills of micro teaching; explain the concept and importance of expected learning outcome in learning reinforcement.           CO5         Explain the concept, list, identify and state the characteristics of different teaching learning materials.           10. Unit wise detailed content         07           Sint-1         Number of lectures         07           •         Meaning and Aims of Teaching         value of the commonication.           Wethods of effective commonication.         07           •         Principles of Teaching         Principle of feartive commonication.           Principle of learning by doing: Principle of motivation; Principle of interest; Principle of definite aims; Principle of planning; Principle of selection Principle of division (of small steps)           •         Teaching Maxims           From easy to difficult; From known to unknown; From concrete to abstract; From whole to par; From indefinite to definite; From direct to indirect from particular to general; From analysis to synthesis; From Psychological to logical; From easynthesid; Pollowing the nature.           Init-3         Number of lectur								
CO2         List and explain all principles of teaching; list and explain all maxims of teaching.           CO3         List, explain and differentiate between different techniques of teaching; list and explain all methods (new) of teaching.           CO4         Explain the concept, list all skills of micro teaching; explain the concept and importance of expected learning outcome in learn reinforcement.           CO5         Explain the concept, list, identify and state the characteristics of different teaching learning materials.           10. Unit wise detailed content         Tombor of lectures         07           Imit:1         Number of lectures         07           •         Meaning of Communication; Need and importance; Factors and Components of communication; Types of Communication; Methods of effective communication.         Of           Principle of Teaching         Principle of mominication; Principle of motivation; Principle of interest; Principle of definite aims; Principle of planning; Principle of selection principle of individual differences; Principle of democratic behaviour; Principle of establishing relationship with life; Principle of selection principle of individual differences; Principle of democratic behaviour; Principle of selection; Principle of definite aims; Principle of planning; Principle of selection principle of individual differences; Principle of selection principle of individual differences; Principle of motivation; Principle of establishing relationship with life; Principle of selection; Principle of individual differences; Principle of planning; Principle of learning by obing; Principle of neertific prom analysis to synthesis; From Psychological to logical; From experience t								
CO3         List, explain and differentiate between different techniques of teaching; list and explain all methods (new) of teaching.           CO4         Explain the concept, list all skills of micro teaching; explain the concept and importance of expected learning outcome in learn reinforcement.           CO5         Explain the concept, list, identify and state the characteristics of different teaching learning materials.           10. Unit wise detailed content         Number of lectures         07           •         Meaning and Aims of Teaching         O           •         Ommunication: Methods of effective communication.         Need and importance; Factors and Components of communication; Types of Communication; Methods of effective communication.           Init-2         Number of lectures         07           •         Principles of Teaching Principle of learning by doing; Principle of motivation; Principle of interest; Principle of definite aims; Principle of planning; Principle of selection; Principle of individual differences; Principle of democratic behaviour; Principle of establishing relationship with life; Principle of repetition; Principle of division (of small steps)         OT           •         Teaching Maxims         From experience to (rationalization); Following the nature.           Init-3         Number of lectures         07           •         Techniques of teaching Principle of division (of small steps)         O           •         Techniques of teaching Lecture method; Staplanation method; Narrativ								
CO3         Explain the concept, list all skills of micro teaching; explain the concept and importance of expected learning outcome in learn reinforcement.           CO4         Explain the concept, list all skills of micro teaching; explain the concept and importance of expected learning outcome in learn reinforcement.           Outit wise detailed content         OT           Unit of the concept, list all skills of micro teaching;         Oppontunctation           Meaning and Ains of Teaching         O7           Communication         Mumber of lectures         O7           Methods of effective communication; Need and importance; Factors and Components of communication; Types of Communication; Methods of effective communication; Principle of microscient of the concept of								
COV         reinforcement.           COS         Explain the concept, list, identify and state the characteristics of different teaching learning materials.           Ob. Unit wise detailed content         07           Init-1         Number of lectures         07           • Meaning and Aims of Teaching         07           • Communication; Need and importance; Factors and Components of communication; Types of Communication; Methods of effective communication.         07           Init-2         Number of lectures         07           • Principles of Teaching         07           • Principle of learning by doing; Principle of motivation; Principle of interest; Principle of definite aims; Principle of planning; Principle of selection Principle of dividual differences; Principle of democratic behaviour; Principle of establishing relationship with life; Principle of repetition; Principle of division (of small steps)           • Teaching Maxims         Teaching Maxims           From easy to difficult; From known to unknown; From concrete to abstract; From whole to part; From indefinite to definite; From direct to indirect From particular to general; From analysis to synthesis; From Psychological to logical; From experience to (rationalization); Following the nature.           Init-3         Number of lectures         07           • Techniques of teaching         10           Lecture method; Explanation method; Narrative method; Descriptive method; Story telling method; Inspection and observation Sport/activity method; Group discussion me								
CO5         Explain the concept, list, identify and state the characteristics of different teaching learning materials.           10. Unit wise detailed content         Number of lectures         07           Imit-1         Number of lectures         07           • Meaning and Aims of Teaching         Ommunication; Methods of effective communication; Need and importance; Factors and Components of communication; Types of Communication; Methods of effective communication.         Imit-2           • Number of lectures         07           Imit-1         Number of lectures         07           Principles of Teaching Principle of learning by doing; Principle of motivation; Principle of interest; Principle of establishing relationship with life; Principle of selection Principle of division (of small steps)         07           • Teaching Maxims From easy to difficult; From known to unknown; From concrete to abstract; From whole to part; From indefinite to definite; From direct to indirect From particular to general; Prom analysis to synthesis; From Psychological to logical; From experience to (rationalization); Following the nature.           Jnit-3         Number of lectures         07           Imit-3         Number of lectures         07								
0. Unit vise detailed content         Unit-1       Number of lectures       07         • Meaning and Aims of Teaching       • Communication         • Communication       Meaning of Communication; Need and importance; Factors and Components of communication; Types of Communication;         Methods of effective communication.       07         • Principles of Teaching       07         • Principle of learning by doing: Principle of motivation; Principle of individual differences; Principle of motivation; Principle of establishing relationship with life; Principle of selection; Principle of division (of small steps)         • Teaching Maxims       From easy to difficult; From known to unknown; From concrete to abstract; From whole to part; From indefinite to definite; From direct to indirect From particular to general; From analysis to synthesis; From Psychological to logical; From experience to (rationalization); Following the nature.         Jnit-3       Number of lectures       07         • Techniques of teaching       Or         Lecture method; Explanation method; Narrative method; Descriptive method; Story telling method; Excursion method; Questionnaire method.         Sport/activity method; Group discussion method; Deyful learning method; Co-operative teaching; Skill based teaching; Remedial teaching; Multi class and multigrade teaching.         Unit-4       Number of lectures       07         • Micro-Teaching and fundamental skills of teaching; Skill of recopirulation.       10////////////////////////////////////								
Jnit-1       Number of lectures       07         • Meaning and Aims of Teaching       Communication         Meaning of Communication; Need and importance; Factors and Components of communication; Types of Communication; Methods of effective communication.       Dnit-2         Jnit-2       Number of lectures       07         • Principles of Teaching Principle of learning by doing; Principle of motivation; Principle of interest; Principle of definite aims; Principle of planning; Principle of selection Principle of adming by doing; Principle of democratic behaviour; Principle of establishing relationship with life; Principle of regetition; Principle of division (of small steps)         • Teaching Maxims       From easy to difficult; From known to unknown; From concrete to abstract; From whole to part; From indefinite to definite; From direct to indirec From particular to general; From analysis to synthesis; From Psychological to logical; From experience to (rationalization); Following the nature.         Jnit-3       Number of lectures       07         • Techniques of teaching Lecture method; Explanation method; Narrative method; Descriptive method; Story telling method; Example method; Questionnaire method.         New Methods of Teaching Child centered method; Activity based method; Joyful learning method; Co-operative teaching; Skill based teaching; Remedial teaching; Multi class and multigrade teaching.         Jmit-4       Number of lectures       07         • Methods of Teaching and fundamental skills of teaching; Meaning of micro teaching need, importance and types. Teaching skill of Introducing the Lesson; Skill of introduc								
• Meaning and Aims of Teaching         • Communication         Meaning of Communication; Need and importance; Factors and Components of communication; Types of Communication; Methods of effective communication.         Unit-2       Number of lectures       07         • Principles of Teaching Principle of learning by doing; Principle of motivation; Principle of interest; Principle of definite aims; Principle of planning; Principle of selection Principle of individual differences; Principle of democratic behaviour; Principle of establishing relationship with life; Principle of repetition; Principle of division (of small steps)         • Teaching Maxims From easy to difficult; From known to unknown; From concrete to abstract; From whole to part; From indefinite to definite; From direct to indirect From particular to general; From analysis to synthesis; From Psychological to logical; From experience to (rationalization); Following the nature.         Jnit-3       Number of lectures       07         • Techniques of teaching Lecture method; Group discussion method; Descriptive method; Story telling method; Example method; Inspection and observation Sport/activity method; Group discussion method; Debate method; Project method; Workshop method; Excursion method; Questionnaire method.         • New Methods of Teaching Child centered method; Activity based method; Joyful learning method; Co-operative teaching; Skill based teaching; Remedial teaching: Remedial teaching: Remedial teaching: Remit importance and types. Teaching and fundamental skills of teaching: Meaning of micro teaching meet, importance and types. Teaching skill - Meaning; Skill of Introducing the Lesson; Skill of introducing the objective; Skill of interolucing questions; Skill of Inte								
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Unit-5 Number of lectures 07								
Teaching learning Material: Meaning; Need and importance; Types/ classification of teaching learning material; Characteristics of effective teaching learning material.								
<ul> <li>Types of teaching Learning Material:</li> </ul>								
• Types of reaching Learning Material: TLM For sensuous learning and perceptual learning; Visual material; Materials made by teacher trainees and students, readymade material.								
Material provided by department- Operation black board Kit, Mathematics Kit, Science Kit, Text Books, training module, supplementary reading								
teacher module etc.								
Material from nature - Roots, seeds, sands, leaves, branches, stones, pebbles etc.								
Audio Material - Radio, tape recorder, Audio C.D., Cassette players etc,								
Audio -visual material- Computer, T.V., D.V.D., Video, C.D. etc.								
Characteristics of Effective teaching learning material- Material without cost.								
Characteristics of Effective teaching learning material- Material without cost. Low-cost material; Multipurpose material- can be used for many classes, subjects, topics,								
Characteristics of Effective teaching learning material- Material without cost. Low-cost material; Multipurpose material- can be used for many classes, subjects, topics, academic utility; According to children's interest, age and mental level.								
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COs	Attributes	Р	Р	Р	Р	Р	Р	Р	
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		1	2	3	4	5	6	7	
CO	Define teaching and state the aims of teaching; define communication, explain components, list types of communication, identify need and importance and apply effective communication techniques in teaching and learning.	2	2	3	1	3	-	-	
CO	List and explain all principles of teaching; list and explain all maxims of teaching.	2	2	3	2	3	•	-	
CO	List, explain and differentiate between different techniques of teaching; list and explain all methods (new) of teaching.	2	2	3	3	3	-	-	
CO	Explain the concept, list all skills of micro teaching; explain the concept and importance of expected learning outcome in learning reinforcement.	2	2	3	3	3	-	-	
CO	Explain the concept, list, identify and state the characteristics of different teaching learning materials.	2	2	3	2	3	-	-	
	3 Strong contribution, 2 Average contribution, 1 Low contribution								
12. Brief description of self-learning / E-learning component									
https://ilizone.iul.ac.in/mod/resource/view.php?id=288435									
13. B	13. Books recommended: CO1, PO2, BT2								
1. Sharma R.A (2009)- Essentials of instructional Technology									
2.	Pitler Howard, Kuhn Matt (2012)- Using Technology with classroom instruction that works.								
3.	Nimbalkar M.R (2011) Educational skills & strategies of Teaching.								
4.	Thorne L.Steven, May Stephen (2017) Language, Education and technology.								
5. Kulshrestha S.P (2011) Foundations of Educational Technology.									

2. Course Name         SCIENCE:-A         L         T         P           3. Course Code         DED 403         1         1         0           4. Type of Course (use tickmark)         Graduation with any Discipline         Core (v) Externation         Def 0         FC0           5. Persequisite         Graduation with any Discipline         Total Number of Lectures, Tutorials, Practical         Even ()         Odd (v)         Either Sem ()         Even ()           8. COURSE DBACETIVES:         Tote develop understanding of the subject matter of science.         To educate the trainees to present the contents through resources and material available in the surroundings: To enable the trainees to present the scientific concepts through daily life activities and events.         Science and events.           9. COURSE OUTCOMES (CO)         Artresures         Science in interesting ways.         Science in surroundings.           9. COURSE OUTCOMES (CO)         Artresures         Science in interesting ways.         Science in surroundings.           0. COURSE OUTCOMES (CO)         Artresures         Science in interesting ways.         Science in interesting ways.           9. COURSE OUTCOME (CO)         Artresures         Science in interesting ways.         Science in interesting ways.           9. COURSE OUTCOME (CO)         Artresures         Science in interesting ways.         Science in interesting ways.	1.	Name of the	Departme	nt: Educatio	on										
4. Type of Course (use tick mark)       Graduation with any biodopine       Core (r) OE()       DE()       PC()         5. Pre-regulate (regulate (regulate course, Tutorials, Practical location with any (regulate course), To develop understanding of the subject matter of science.       Practical = NI         0. To develop understanding of the subject matter of science.       To enable the trainees to present the contents through resources and material available in the surroundings.         0. To educate the trainees to present the content of science in interesting ways.       Jourse ourcows (co)         Arriteurse       Arriteurse         0. Students will be able to define natural and man-made things.       Course ourcows (co)         0. Students will be able to define MKS & S1 unit.       Course ourcows (co)         0. Unit wise detailed content       Unit and man-made things.         0. Unit wise detailed content       Unit and man-made things and their classification, differences between living and non-living things, similarities and differences between plants and animals. Plant's World: Different types of plants and their functions, uses of plants and their functions, muses of plants and their functio	2.	Course Nam	e	SC	CIENCE-A			L		т			P		
5.       Pre-regulate (if any)       Graduation with any Discipline       6. Frequency (use (if any)       0 Odd (V)       Either Sem ()       Every Sem ()         7.       Total Number of Lectures, Tutorials, Practical Lectures = 10       Tutorials = 10       Practical = Nil         8.       COURSE OBJECTIVES       • To develop scientific thinking of what, why, How.       • To develop scientific thinking of what, why, How.       • To develop scientific thinking of what, why, How.         • To develop scientific thinking of what, why, How.       • To develop scientific thinking of what, why, How.       • To develop scientific thinking of what, why, How.         • To develop scientific thinking of what, why, How.       • To develop scientific thinking of what, why, How.       • To develop scientific thinking of what, why, How.         • To enable the trainees to present the scientific concepts through faily life activities and events.       • To train them to present the content of science in interesting ways.         9. COURSE OUTCOME (CO)       ArtiBurts         CO1       Students will be able to define matural and mam-made things.         CO2       Students will be able to define MLS & St lunt.         CO3       Students will be able to understand the different types of motion and force.         CO4       Students will be able to understand states of matter         10. Unit wise detailed content       Imate and animals. Promoremental adaptation between planta animals.	3.	Course Code	2	1	DED 403			1		1			0		
Other Students       Discipline       text marks)         7. Total Number of Lectures, Tutorials, Practical       Intorials = 10       Practical = NII         8. COURSE OBJECTIVES       • To develop scientific thinking of what, why, How.       • To develop scientific thinking of the subject matter of science.         • To develop understanding of the subject matter of science.       • To educate the trainees to present the scientific concepts through daily life activities and events.         • To enable the trainees to present the content of science in interesting ways.       • Scourse ourcomest(co)         After the successful course competition, learners will develop following attributes:       • Course ourcomest(co)         COURSE OUTCOME (CO)       ATTRIBUTES         • Course ourcomest(co)       ATTRIBUTES         • Course ourcomest (CO)       Students will be able to differentiate in Sexual and Asexual reproduction.         • Cod       Students will be able to during attributes:         10. Unit wide detailed content       Uniterent parts of plants and their classification, differences between plant and man-made things.         10. Unit wide detailed content parts of plants       • Title of the unit: Living things, similarities and differences between plant and animals, modification and uses of different parts of plants.         10. Unit wide detailed content parts of plants       • Title of the unit: Different kinds of Reproduction in plants         Sexual and asexual reproduction, parts of allower, po	4.	Type of Cou	rse (use tick	( mark)				Core (√)	DE ()	)		FC ()			
Lectures = 10       Tutorials = 10       Practical = Nil         8. COURSE OBJECTIVES: <ul> <li>To develop scientific thinking of what, why, How.</li> <li>To develop understanding of the subject matter of science.</li> <li>To educate the trainees to present the contents through resources and material available in the surroundings.</li> <li>To enable the trainees to present the content of science in interesting ways.</li> <li>Socurse completion. Jeaners will develop following attributes:</li> <li>COURSE OUTCOME (CO)</li> <li>After the successful course completion. Jeaners will develop following attributes:</li> <li>COURSE OUTCOME (CO)</li> <li>Attrabuters</li> <li>CO1</li> <li>Students will be able to differentiate in Sexual and Asexual reproduction.</li> <li>CO2</li> <li>Students will be able to differentiate in Sexual and Asexual reproduction.</li> <li>CO3</li> <li>Students will be able to understand the different types of motion and force.</li> <li>CO4</li> <li>Students will be able to understand the different types of motion and force.</li> <li>CO5</li> <li>Students will be able to understand the different types of plants and differences between blant and name-made things, similarities and differences between plants and namials, modification and uses of different parts of plants and animals, modification and uses of different parts of plants and animals.</li> <li>Unit-2</li> <li>Number of lectures = 02</li> <li>Title of the unit: Different kinds of Reproduction in plants</li> <li>Sexual and asexual reproduction, parts of a Dover, pollination, fertilization, seed and dispersion of sect.</li> <li>Unit-3</li> <li>Number of lectures = 02</li> <li>Title of the unit: Motion and Vibrational motion), speed; definition, foranitan and traing as gravitationian, magnetic;</li></ul>	5.	•	9				Even ()	Odd (√)	Eithe	er Sem	()	Every Ser	m ()		
a. COURSE OBJECTIVES-         • To develop scientific thinking of what, why, How.         • To develop understanding of the subject matter of science.         • To enable the trainees to present the contents through resources and material available in the surroundings         • To enable the trainees to present the content of science in interesting ways.         9. COURSE OUTCOMES (CO)         AFT the successful course completion, learners will develop following attributes:         COURSE OUTCOME (CO)         AFT the successful course completion, learners will develop following attributes:         COURSE OUTCOME (CO)         AFT the successful course completion, learners will develop following attributes:         COURSE OUTCOME (CO)         Students will be able to define natural and man-made things.         CO4       Students will be able to define MLS & SL unit.         CO4       Students will be able to understand states of matter         10. Unit wise detailed content       Unit-1         Unit-1       Number of lectures = 02       Title of the unit: Living things. similarities and differences between plants and animals. Plant's World: Different parts of plants and diminals, environmental adaptation between plant and animals. Plant's World: Different linds of Reproduction in plants         Sexual and asexual reproduction, parts of a flower, pollination, fertilization, seed and dispersion of seed.         Unit-3       Number of lectures = 02       Title of t	7.	Total Numb	er of Lectur	es, Tutorial	s, Practical										
<ul> <li>To develop scientific thinking of what, why, How.</li> <li>To develop understanding of the subject matter of science.</li> <li>To enable the trainees to present the contents through resources and material available in the surroundings.</li> <li>To enable the trainees to present the content of science in interesting ways.</li> <li>Sources corrows (co):</li> <li>After the successful course completion, learners will develop following attributes:</li> <li>Course ourcows (co):</li> <li>After the successful course completion, learners will develop following attributes:</li> <li>Course ourcows (co):</li> <li>Attrate successful course completion, learners will be able to differentiate in Sexual and Asexual reproduction.</li> <li>Co1</li> <li>Students will be able to differentiate in Sexual and Asexual reproduction.</li> <li>Co3</li> <li>Students will be able to understand the different types of motion and force.</li> <li>co5</li> <li>Students will be able to understand states of matter</li> <li>10. Unit wise detailed content</li> <li>Unit-1</li> <li>Number of lectures = 02</li> <li>Title of the unit: Living things, similarities and differences between plant and animals. Plan's World: Different parts of plants and their functions, uses of plants and animals, environmental adaption between plants and animals. Plan's World: Different parts of plants and their functions, uses of plants and animals. Plan's of plants and dispersion of seed.</li> <li>Unit-2</li> <li>Number of lectures = 02</li> <li>Title of the unit: Different kinds of Reproduction in plants</li> <li>Sexual and asexual reproduction, parts of a flower, pollination, fertilization, seed and dispersion of seed.</li> <li>Unit-3</li> <li>Number of lectures = 02</li> <li>Title of the unit: Matter and States of matter</li> <li>States of matter</li> <li>Number of lectures = 02</li> <li>Title of the unit. Matter and States of matter</li> <li>States of matter (solid, liquid and gas), property and structure, solubility of matter, kinds of matter.</li> <li>State</li></ul>						Tutorials = 10		Practical =	Nil						
To develop understanding of the subject matter of science.     To educate the trainees to present the contents through resources and material available in the surroundings.     To enable the trainees to present the content of science in interesting ways.     To train them to present the content of science in interesting ways.     GOURSE OUTCOMES (CO):     ATTRIBUTES     CO1 Students will be able to define natural and man-made things.     CO2 Students will be able to define natural and man-made things.     CO3 Students will be able to define natural and Man-made things.     CO4 Students will be able to define matural and Assual reproduction.     CO3 Students will be able to understand the different types of motion and force.     CO4 Students will be able to understand the different types of motion and force.     CO5 Students will be able to understand states of matter     Jourt-1 Number of lectures = 02 Table of the unit: Living things Natural and man-made things and their classification, differences between living and non-living things, similarities and differences, uses of plants and animals, conviormental adaptation between plants and animals, Plant's World: Different kinds of Reproduction in plants     Sexual and assual reproduction, parts of a flower, pollination, fertilization, seed and dispersion of seed.     Unit:3 Number of lectures = 02 Table of the unit: Motion and Force     What is motion, takes of motion (linear motion, circular motion, rotational motion), speed; definition, formula and unit, force; muscular, gravitational, magnetic, electrical and frictional.     Unit:4 Number of lectures = 02 Table of the unit: Motion and Force     What is motion, takes of motion (linear motion, circular motion, rotational motion, and vibrational motion), speed; definition, formula and unit, force; muscular, gravitational, magnetic, electrical and frictional.     Unit:4 Number of lectures = 02 Table of the unit: Motion and Force     What is motion, takes of motion (linear motion, circular motion, rotational m	8. COI	URSE OBJECT	TIVES-												
9. COURSE OUTCOMES (CO): After the successful course completion, learners will develop following attributes: COURSE OUTCOME (CO)       ATTRIBUTES         COURSE OUTCOME (CO)       ATTRIBUTES         CO1       Students will be able to define natural and man-made things.         CO2       Students will be able to define MKS & SI unit.         CO3       Students will be able to define MKS & SI unit.         CO4       Students will be able to understand the different types of motion and force.         CO5       Students will be able to understand states of matter         10. Unit wise detailed content       Unit-1         Number of lectures = 02       Title of the unit: Living things. similarities and differences between plant and animals, environmental adaptation between plants and animals. Plant's World: Different parts of plants and their functions, uses of plants and animals, modification and uses of different parts of plants         Unit-2       Number of lectures = 02       Title of the unit: Different kinds of Reproduction in plants         Sexual and asexual reproduction, parts of a flower, pollination, fertilization, seed and dispersion of seed.       Unit-4         Vonter of lectures = 02       Title of the unit: Motion and Force         What is motion, laws of motion, types of motion (linear motion, circular motion, rotational motion), and vibrational motion), speed; definition, formula and unit, force; muscular, gravitational, eelectrical and frictional.         Unit-4       Number of lectures = 02       Titl		<ul> <li>To de</li> <li>To ec</li> <li>To er</li> </ul>	evelop ur lucate th able the	nderstan e traine trainee	ding of the subject es to present the co s to present the scie	matter of science. ontents through re entific concepts th	rough dail					rround	ings.		
COURSE OUTCOME (CO)       ATTRIBUTES         C01       Students will be able to define natural and man-made things.         C02       Students will be able to define MKS & SI unit.         C03       Students will be able to define MKS & SI unit.         C04       Students will be able to understand the different types of motion and force.         C05       Students will be able to understand states of matter         10. Unit wise detailed content       Number of lectures = 02         Natural and man-made things and their classification, differences between living and non-living things, similarities and differences between plant and animals, environmental adaptation between plants and animals. Plant's World: Different parts of plants and their functions, uses of plants and animals, modification and uses of different parts of plants         Unit-2       Number of lectures = 02       Title of the unit: Different kinds of Reproduction in plants         Sexual and asexual reproduction, parts of a flower, pollination, fertilization, seed and dispersion of seed.       Unit-3         Wint 3       Number of lectures = 02       Title of the unit: Motion and Force         What is motion, laws of motion, types of motion (linear motion, circular motion, rotational motion, speed; definition, formula and unit, force; muscular, gravitational, magnetic, electrical and frictional.         Unit-4       Number of lectures = 02       Title of the unit: Motion and Force         What is motion, laws of motion (tipes of motion, circular motion, rota		OURSE OUTC	OMES (CO):												
CO1       Students will be able to define natural and man-made things.         CO2       Students will be able to define natural and man-made things.         CO3       Students will be able to define MKS & S1 unit.         CO4       Students will be able to define MKS & S1 unit.         CO4       Students will be able to understand the different types of motion and force.         CO5       Students will be able to understand states of matter         10. Unit wise detailed content       Title of the unit: Living things         Natural and man-made things and their classification, differences between living and non-living things, similarities and differences between plant and animals, modification and uses of different parts of plants and animals. Plant's World: Different stands of Reproduction in plants         Sexual and asexual reproduction, parts of a flower, pollination, fertilization, seed and dispersion of seed.       Unit-2         Unit-3       Number of lectures = 02       Title of the unit: Physical Measurement         Need and methods, standards, M.K.S. or S.I. System, Apparatus used in measurement e.gRain gauge, Thermometer etc         Unit-4       Number of lectures = 02       Title of the unit: Motion and Force         What is motion, types of motion (linear motion, circular motion, notational motion, and vibrational motion), speed; definition, formula and unit, force; muscular, gravitational, magnetic, electrical and frictional.         Unit-5       Number of lectures = 02       Title of the unit: Matter and S				mpletion, le		ving attributes:									
C01       C02       Students will be able to differentiate in Sexual and Asexual reproduction.         C03       Students will be able to define MKS & SI unit.         C04       Students will be able to understand the different types of motion and force.         C05       Students will be able to understand states of matter         10. Unit wise detailed content       Unit-1         Number of lectures = 02       Title of the unit: Living things, similarities and differences between plant and animals, environmental adaptation between plants and animals. Plant's World: Different parts of plants and their functions, uses of plants and animals, modification and uses of different parts of plants         Unit-2       Number of lectures = 02       Title of the unit: Different kinds of Reproduction in plants         Sexual and asexual reproduction, parts of a flower, pollination, fertilization, seed and dispersion of seed.       Unit-3         Unit-3       Number of lectures = 02       Title of the unit: Physical Measurement         Need and methods, standards, M.K.S. or S.I. System, Apparatus used in measurement e.gRain gauge, Thermometer etc         Unit-4       Number of lectures = 02       Title of the unit: Motion and Force         What is motion, types of motion (linear motion, circular motion, rotational motion, and vibrational motion), speed; definition, formula and unit, force; muscular, gravitational, magnetic, electrical and frictional.         Unit-5       Number of lectures = 02       Title of the unit: Matter and States of m	COUR	SE OUTCOM	E (CO)												
CO3       Students will be able to define MKS & SI unit.         CO4       Students will be able to understand the different types of motion and force.         CO5       Students will be able to understand states of matter         10. Unit wise detailed content         Unit-1       Number of lectures = 02       Title of the unit: Living things.         Natural and man-made things and their classification, differences between living and non-living things, similarities and differences between plant and animals, modification and uses of different parts of plants         Unit-2       Number of lectures = 02       Title of the unit: Different parts of plants and animals. Plant's World: Different kinds of Reproduction in plants         Sexual and asexual reproduction, parts of a flower, pollination, fertilization, seed and dispersion of seed.       Unit-3         Unit-3       Number of lectures = 02       Title of the unit: Physical Measurement         Need and methods, standards, M.K.S. or S.I. System, Apparatus used in measurement e.gRain gauge, Thermometer etc         Unit-4       Number of lectures = 02       Title of the unit: Motion and Force         What is motion, types of motion (linear motion, circular motion, notational motion, and vibrational motion), speed; definition, formula and unit, force; muscular, gravitational, magnetic, electrical and frictional.         Unit-5       Number of lectures = 02       Title of the unit: Matter and States of matter			CO1					-							
Co4       Students will be able to understand the different types of motion and force.         CO5       Students will be able to understand states of matter         10. Unit wise detailed content         Unit-1       Number of lectures = 02       Title of the unit: Living things.         Natural and man-made things and their classification, differences between living and non-living things, similarities and differences between plants and animals. Plant's World: Different parts of plants and their functions, uses of plants and animals, modification and uses of different parts of plants         Unit-2       Number of lectures = 02       Title of the unit: Different kinds of Reproduction in plants         Sexual and asexual reproduction, parts of a flower, pollination, fertilization, seed and dispersion of seed.         Unit-3       Number of lectures = 02       Title of the unit: Physical Measurement         Need and methods, standards, M.K.S. or S.I. System, Apparatus used in measurement e.gRain gauge, Thermometer etc         Unit-4       Number of lectures = 02       Title of the unit: Motion and Force         What is motion, laws of motion, types of motion (linear motion, circular motion, rotational motion), speed; definition, formula and unit, force; muscular, gravitational, magnetic, electrical and frictional.       Unit-5       Number of lectures = 02 <th <="" colspan="2" td=""><td></td><td></td><td>CO2</td><td></td><td></td><td></td><td></td><td>al reproducti</td><td>on.</td><td></td><td></td><td></td><td></td></th>	<td></td> <td></td> <td>CO2</td> <td></td> <td></td> <td></td> <td></td> <td>al reproducti</td> <td>on.</td> <td></td> <td></td> <td></td> <td></td>				CO2					al reproducti	on.				
Cos         Students will be able to understand states of matter         10. Unit wise detailed content         Unit-1       Number of lectures = 02       Title of the unit: Living things.         Natural and man-made things and their classification, differences between living and non-living things, similarities and differences between plants and animals. Plant's World: Different parts of plants and their functions, uses of plants and animals, modification and uses of different parts of plants.         Unit-2       Number of lectures =02       Title of the unit: Different kinds of Reproduction in plants         Sexual and asexual reproduction, parts of a flower, pollination, fertilization, seed and dispersion of seed.       Unit-3         Unit-3       Number of lectures = 02       Title of the unit: Physical Measurement         Need and methods, standards, M.K.S. or S.I. System, Apparatus used in measurement e.gRain gauge, Thermometer etc         Unit-4       Number of lectures = 02       Title of the unit: Motion and Force         What is motion, laws of motion, types of motion (linear motion, circular motion, notational motion, and vibrational motion), speed; definition, formula and unit, force; muscular, gravitational, magnetic, electrical and frictional.         Unit-5       Number of lectures = 02       Title of the unit: Matter and States of matter         States of matter (solid, liquid and gas), property and structure, solubility of matter, kinds of mixture and separation of mixture.         11. CO-PO mapp			CO3												
COS         10. Unit wise detailed content         Unit-1         Number of lectures = 02         Title of the unit: Living things.         Number of lectures = 02         Number of lectures = 02         Unit-2         Number of lectures = 02         Title of the unit: Different kinds of Reproduction in plants         Sexual and asexual reproduction, parts of a flower, pollination, fertilization, seed and dispersion of seed.         Unit-3         Number of lectures = 02         Title of the unit: Physical Measurement         Need and methods, standards, M.K.S. or S.I. System, Apparatus used in measurement e.gRain gauge, Thermometer etc         Unit-4         Number of lectures = 02         Title of the unit: Motion and Force         What is motion, laws of motion (linear motion, circular motion, nad vibrational motion), speed; definition, formula and unit, force; muscular, gravitational, magnetic, electrical and frictional.         Unit-4         Number of lectures = 02         Title of the unit: Matter and States of matter         States of matter (solid, liquid and gas), property and structure, solubility of matter, kinds of mixture and separa			CO4					notion and I	orce.						
Unit-1       Number of lectures = 02       Title of the unit: Living things         Natural and man-made things and their classification, differences between living and non-living things, similarities and differences between plants and animals. Plant's World: Different parts of plants and their functions, uses of plants and animals, modification and uses of different parts of plants.         Unit-2       Number of lectures = 02       Title of the unit: Different kinds of Reproduction in plants         Sexual and asexual reproduction, parts of a flower, pollination, fertilization, seed and dispersion of seed.       Unit-3         Unit-3       Number of lectures = 02       Title of the unit: Physical Measurement         Need and methods, standards, M.K.S. or S.I. System, Apparatus used in measurement e.gRain gauge, Thermometer etc       Unit-4         Number of lectures = 02       Title of the unit: Motion and Force         What is motion, laws of motion (linear motion, circular motion, rotational motion), speed; definition, formula and unit, force; muscular, gravitational, magnetic, electrical and frictional.       Unit-5         Unit-5       Number of lectures = 02       Title of the unit: Matter and States of matter         States of matter (solid, liquid and gas), property and structure, solubility of matter, kinds of mixture and separation of mixture.       11. CO-PO mapping         CO1       Students will be able to define natural and man-made things.       2       2       2       2       2       2       2       -			CO5		Students will be able to	understand states of n	natter								
Natural and man-made things and their classification, differences between living and non-living things, similarities and differences between plants and animals. Plant's World: Different parts of plants and their functions, uses of plants and animals, modification and uses of different parts of plants         Unit-2       Number of lectures =02       Title of the unit: Different kinds of Reproduction in plants         Sexual and asexual reproduction, parts of a flower, pollination, fertilization, seed and dispersion of seed.       Unit-3         Unit-3       Number of lectures = 02       Title of the unit: Physical Measurement         Need and methods, standards, M.K.S. or S.I. System, Apparatus used in measurement e.gRain gauge, Thermometer etc         Unit-4       Number of lectures = 02       Title of the unit: Motion and Force         What is motion, laws of motion, types of motion (linear motion, circular motion, rotational motion, and vibrational motion), speed; definition, formula and unit, force; muscular, gravitational, magnetic, electrical and frictional.         Unit-5       Number of lectures = 02       Title of the unit: Matter and States of matter         States of matter (solid, liquid and gas), property and structure, solubility of matter, kinds of mixture and separation of mixture.       11. CO-PO mapping         C03       Students will be able to define natural and man-made things.       2       2       2       2       2       2       2       2       2       2       2       2       2       2       1 <td>10. L</td> <td colspan="6"></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	10. L														
and animals, environmental adaptation between plants and animals. Plant's World: Different parts of plants and their functions, uses of plants and animals, modification and uses of different parts of plants          Unit-2       Number of lectures =02       Title of the unit: Different kinds of Reproduction in plants         Sexual and asexual reproduction, parts of a flower, pollination, fertilization, seed and dispersion of seed.         Unit-3       Number of lectures = 02       Title of the unit: Physical Measurement         Need and methods, standards, M.K.S. or S.I. System, Apparatus used in measurement e.gRain gauge, Thermometer etc         Unit-4       Number of lectures = 02       Title of the unit: Motion and Force         What is motion, laws of motion, types of motion (linear motion, circular motion, rotational motion, and vibrational motion), speed; definition, formula and unit, force; muscular, gravitational, magnetic, electrical and frictional.         Unit-5       Number of lectures = 02       Title of the unit: Matter and States of matter         States of matter (solid, liquid and gas), property and structure, solubility of matter, kinds of mixture and separation of mixture.       11. CO-PO mapping         CO3       Attributes       PO1       PO2       PO3       PO4       PO5       PO6       PC0         CO1       Students will be able to differentiate in Sexual and Asexual       2       1       1       2       2       -       -															
Sexual and asexual reproduction, parts of a flower, pollination, fertilization, seed and dispersion of seed.         Unit-3       Number of lectures = 02       Title of the unit: Physical Measurement         Need and methods, standards, M.K.S. or S.I. System, Apparatus used in measurement e.gRain gauge, Thermometer etc         Unit-4       Number of lectures = 02       Title of the unit: Motion and Force         What is motion, laws of motion, types of motion (linear motion, circular motion, rotational motion, and vibrational motion), speed; definition, formula and unit, force; muscular, gravitational, magnetic, electrical and frictional.         Unit-5       Number of lectures = 02       Title of the unit: Matter and States of matter         States of matter (solid, liquid and gas), property and structure, solubility of matter, kinds of mixture and separation of mixture.         11. CO-PO mapping       Cos       Attributes       PO1       PO2       PO3       PO4       PO5       PO6       PC         CO1       Students will be able to define natural and man-made things.       2       2       2       2       -       -	and animals, environmental adaptation between plants and animals. Plant's World: Differ														
Unit-3       Number of lectures = 02       Title of the unit: Physical Measurement         Need and methods, standards, M.K.S. or S.I. System, Apparatus used in measurement e.gRain gauge, Thermometer etc         Unit-4       Number of lectures = 02       Title of the unit: Motion and Force         What is motion, laws of motion, types of motion (linear motion, circular motion, rotational motion, and vibrational motion), speed; definition, formula and unit, force; muscular, gravitational, magnetic, electrical and frictional.         Unit-5       Number of lectures = 02       Title of the unit: Matter and States of matter         States of matter (solid, liquid and gas), property and structure, solubility of matter, kinds of mixture and separation of mixture.         11. CO-PO mapping         COs       Attributes       PO1       PO2       PO3       PO4       PO5       PO6       PC         CO1       Students will be able to define natural and man-made things.       2       2       2       2       -       -	Unit	:- <b>2</b>		Number	of lectures =02	Title of the unit: D	ifferent kinds	of Reprodu	ction in pl	ants					
Need and methods, standards, M.K.S. or S.I. System, Apparatus used in measurement e.gRain gauge, Thermometer etc         Unit-4       Number of lectures = 02       Title of the unit: Motion and Force         What is motion, laws of motion, types of motion (linear motion, circular motion, rotational motion, and vibrational motion), speed; definition, formula and unit, force; muscular, gravitational, magnetic, electrical and frictional.       Unit-5       Number of lectures = 02       Title of the unit: Matter and States of matter         States of matter (solid, liquid and gas), property and structure, solubility of matter, kinds of mixture and separation of mixture.       II. CO-PO mapping         COs       Attributes       PO1       PO2       PO3       PO4       PO5       PO6       PC         CO1       Students will be able to define natural and man-made things.       2       2       2       2       -       -	Sexua	al and asexu	ual reprodu	iction, par	ts of a flower, pollinatio	n, fertilization, seed ar	d dispersior	of seed.							
Unit-4       Number of lectures = 02       Title of the unit: Motion and Force         What is motion, laws of motion, types of motion (linear motion, circular motion, rotational motion, and vibrational motion), speed; definition, formula and unit, force; muscular, gravitational, magnetic, electrical and frictional.         Unit-5       Number of lectures = 02       Title of the unit: Matter and States of matter         States of matter (solid, liquid and gas), property and structure, solubility of matter, kinds of mixture and separation of mixture.         11. CO-PO mapping         COs       Attributes       PO1       PO2       PO3       PO4       PO5       PO6       POC         CO1       Students will be able to define natural and man-made things.       2       2       2       2       2       -       -         CO2       Students will be able to differentiate in Sexual and Asexual       2       1       1       2       2       -       -	Unit	:-3		Number	of lectures = 02	Title of the unit: Pl	nysical Mea	surement							
What is motion, laws of motion, types of motion (linear motion, circular motion, rotational motion, and vibrational motion), speed; definition, formula and unit, force; muscular, gravitational, magnetic, electrical and frictional.         Unit-5       Number of lectures = 02       Title of the unit: Matter and States of matter         States of matter (solid, liquid and gas), property and structure, solubility of matter, kinds of mixture and separation of mixture.         11. CO-PO mapping         COs       Attributes       PO1       PO2       PO3       PO4       PO5       PO6       PC         CO1       Students will be able to define natural and man-made things.       2       2       2       2       -       -	Need	and metho	ds, standar	ds, M.K.S	. or S.I. System, Appara	atus used in measureme	ent e.gRai	n gauge, The	ermomete	er etc					
formula and unit, force; muscular, gravitational, magnetic, electrical and frictional.         Unit-5       Number of lectures = 02       Title of the unit: Matter and States of matter         States of matter (solid, liquid and gas), property and structure, solubility of matter, kinds of mixture and separation of mixture.         11. CO-PO mapping         COs       PO1       PO2       PO3       PO4       PO5       PO6       PC         COs       Attributes       PO1       PO2       PO4       PO5       PO6       PC         CO1       Students will be able to define natural and man-made things.       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2	Unit	-4		Number	of lectures = 02	Title of the unit: M	otion and Fo	rce							
States of matter (solid, liquid and gas), property and structure, solubility of matter, kinds of mixture and separation of mixture.         11. CO-PO mapping         COs       Attributes       PO1       PO2       PO3       PO4       PO5       PO6       PC         CO1       Students will be able to define natural and man-made things.       2       2       2       2       2       2       -       -         CO1       Students will be able to differentiate in Sexual and Asexual       2       1       1       2       2       -       -							tational mot	ion, and vib	rational m	notion),	speed; o	definition	1,		
Interview of the transmission of transmissi and transmission of transmission of transmission of trans	Unit	:-5		Number	of lectures = 02	Title of the unit: M	atter and Sta	tes of matter							
COsAttributesPO1PO2PO3PO4PO5PO6PC6C01Students will be able to define natural and man-made things.222222C02Students will be able to differentiate in Sexual and Asexual21122	States	s of matter	(solid, liqu	id and gas	), property and structure	e, solubility of matter, l	cinds of mix	ture and sep	aration of	f mixtu	re.				
CO1Students will be able to define natural and man-made things.222222-CO2Students will be able to differentiate in Sexual and Asexual21122-	11. 0		ng		Attaihutos			1 002	002	DO4	DOF	DOC	007		
CO1       Students will be able to differentiate in Sexual and Asexual       2       1       1       2       2       -		cos	Students	will be ab		man-made things.						-	-		
		CO1	Statents												
reproduction.		CO2			le to differentiate in Sex	ual and Asexual	2	1	1	2	2	-	-		
Students will be able to define MKS & SL unit 1 2 2 2 2 -		<u> </u>			le to define MKS & SI u	ınit.	1	2	2	2	2	-	-		
CO3     Students will be able to understand the different types of motion and     2     2     2     1     2     -		03	G. 1.					2	2	1	2				
co4 Students will be able to understand the different types of motion and force.		CO4	-	will be ab.	le to understand the diff	erent types of motion a	ind			1		-	-		
Students will be able to understand states of matter       2       2       2       1       2       -         CO5       Image: CO5 <td></td> <td>CO5</td> <td>Students</td> <td>will be ab</td> <td>le to understand states o</td> <td>f matter</td> <td>2</td> <td>2</td> <td>2</td> <td>1</td> <td>2</td> <td>-</td> <td>-</td>		CO5	Students	will be ab	le to understand states o	f matter	2	2	2	1	2	-	-		
3 Strong contribution, 2 Average contribution, 1 Low contribution							on , 1 Low co	ntribution				•	•		
12. Brief description of self-learning / E-learning component	12. B	sriet descript	ion of self-l	earning / E	-iearning component										

## 13. Books recommended:

- 1. Martin D.J (2009) Elementary science methods- A constructivist approach
- 2. Bhatnagar S.S & Bhatnagar A.B (2009)- Pedagogy of Science
- 3. Yadav M.S (2004) Teaching Science at higher level.
- 4. Kulshreshtha S.P(2011) Teaching of Science
- 5. Mishra Savita (2016) Pedagogy of Science Teaching

2. Course Name	MATHEMATICS - A			L	т	Р
3. Course Code	DED 404			1	1	0
4.Type of Course (use tick	mark)			Core(√)	DE()	FC()
5.Prerequisite (if any)	Graduation with any Discipline	6.Frequency (use tick marks)	Even()	Odd(√)	Either Sem()	Every Sem()
7.Total Number of Lecture	s, Tutorials, Practical		1			1
Lectures =1		Tutorials =1		Practical = N	il	

- in Maths.
- To develop knowledge of subject matter and understanding of their concepts.
- Train the trainees to present the need and utility of the contents in interesting manner.

different techniques and methods in solving problems of basic

- To get the T.L.M./ Activity/ Computer game/ Puzzle prepared by the trainee related to the subject matter.
- To introduce pedagogy and methodology of Maths used in teaching the contents of Maths.
- To explain the utility of educational techniques in teaching Maths and make them proficient in its use.
- To train the trainees for continuous evaluation of the contents of Maths. •

## 9.COURSE OUTCOMES (CO):

	E(CO)	ATTRIBUTES								
		The Students will h	be able to explore the knowle	edge of	number	rs place	value	and one	rations	and it
	CO1	application.		5455 01	indinio ei	5) place	, value (			and
	CO2		be able to develop the skills of	of solvir	g probl	em relat	ted to L	C.M. a	nd H.C.F	
		Percentage.			0 1					-,
	CO3		be able to apply scientific app	oroache	s, differ	ent tech	nniques	and m	ethods i	n
		solving problems o	of basic algebra and geometr	у.			-			
	CO4	rectangle, square a	be able to enhance their kno and circle and its perimeter.	0	0					0,
	CO5	with real life situat	be able to develop the intere tion and also able to prepare rials for teaching Maths.	st in su the tea	bject ma Iching le	atter an earning i	d corre materia	late the Il from t	knowle the	dge
10.Unit wise deta	ailed content									
Unit-1	Nu	mber of lectures = 05	Title of the unit : Number a	nd Nume	rals					
• Underst	anding of r	numbers and numera	als, knowledge of digits	place	value.					
Concep	t and opera	ations of multiplicati	ion and division.							
Concept	t of fraction	and mathematical	operations.							
•			e of digits used in decim	nal nur	nhers	and m	athem	atical	onerat	ion
Unit-2		mber of lectures = 05	Title of the unit : Factors, L.					atical	operat	
	t of factor (	divisor) multiple co	mmon factor, common i							
•	•		,	•						
•		-	of composite and prime		ers.					
			d to find out percentage							
Unit-3		mber of lectures = 05	Title of the unit : Graph, Alg							
<ul> <li>Represe</li> </ul>	entation of	ungrouped data by p	oictograph, bar-graph ar	nd -pie	-graph					
1										
•	dge of like a	and unlike algebraic	expression its addition a	and su	btracti	on.				
Knowled	-	-	expression its addition a t, line, curve, line segme							
<ul><li>Knowled</li><li>Concept</li></ul>	t of plane, p	-	•	ent, ray	/s and					
<ul> <li>Knowled</li> <li>Concept</li> <li>Unit-4</li> </ul>	t of plane, p	plane segment, point mber of lectures = 04	t, line, curve, line segme Title of the unit : Construction	ent, ray	ys and Ies	angle.	comp			
<ul> <li>Knowled</li> <li>Concept</li> <li>Unit-4</li> <li>Making</li> </ul>	t of plane, p Nu angle of 60	plane segment, point mber of lectures = 04 degree , 90 degree	t, line, curve, line segme Title of the unit : Construction and 120 degree with the	ent, ray	ys and Ies	angle.	comp	ass.		
<ul> <li>Knowled</li> <li>Concept</li> <li>Unit-4</li> <li>Making</li> <li>Types of</li> </ul>	t of plane, p № angle of 60 f angle (Acu	plane segment, poin mber of lectures = 04 degree , 90 degree ute angle, right angle	t, line, curve, line segme Title of the unit : Constructio and 120 degree with the and obtuse angle)	ent, ray on of Ang e help	ys and les of scal	angle. le and	•			
<ul> <li>Knowled</li> <li>Concept</li> <li>Unit-4</li> <li>Making</li> <li>Types of</li> <li>Unit-5</li> </ul>	angle of 60 f angle (Acu nu	blane segment, point mber of lectures = 04 degree , 90 degree ute angle, right angle umber of lectures = 05	t, line, curve, line segme Title of the unit : Construction and 120 degree with the e and obtuse angle) Title of the unit : Triangle, Re	ent, ray on of Ang e help ectangle,	/s and les Of scal Square, C	angle. le and	•			
<ul> <li>Knowled</li> <li>Concept</li> <li>Unit-4</li> <li>Making</li> <li>Types of</li> <li>Unit-5</li> <li>Concept</li> </ul>	angle of 60 f angle (Acu f angle (Acu Nu t of triangle	blane segment, point mber of lectures = 04 degree , 90 degree ute angle, right angle umber of lectures = 05 e, rectangle, square,	t, line, curve, line segme Title of the unit : Constructio and 120 degree with the and obtuse angle)	ent, ray on of Ang e help ectangle,	/s and les Of scal Square, C	angle. le and	•			
<ul> <li>Knowled</li> <li>Concept</li> <li>Unit-4</li> <li>Making</li> <li>Types of</li> <li>Unit-5</li> <li>Concept</li> <li>Meaning</li> </ul>	t of plane, p Nu angle of 60 f angle (Acu f angle (Acu t of triangle g of perime	blane segment, point mber of lectures = 04 degree , 90 degree ute angle, right angle umber of lectures = 05 e, rectangle, square,	t, line, curve, line segme Title of the unit : Construction and 120 degree with the e and obtuse angle) Title of the unit : Triangle, Re	ent, ray on of Ang e help ectangle,	/s and les Of scal Square, C	angle. le and	•			
<ul> <li>Knowled</li> <li>Concept</li> <li>Unit-4</li> <li>Making</li> <li>Types of</li> <li>Unit-5</li> <li>Concept</li> <li>Meaning</li> <li>11.CO-PO mapping</li> </ul>	t of plane, p Nu angle of 60 f angle (Acu f angle (Acu t of triangle g of perime	blane segment, point mber of lectures = 04 degree , 90 degree ute angle, right angle umber of lectures = 05 e, rectangle, square, eter.	t, line, curve, line segme Title of the unit : Construction and 120 degree with the e and obtuse angle) Title of the unit : Triangle, Ro circle and knowledge of	ent, ray on of Ang e help ectangle, its pa	ys and les of scal Square, C rts.	angle. e and	its Perim	eter		
<ul> <li>Knowled</li> <li>Concept</li> <li>Unit-4</li> <li>Making</li> <li>Types of</li> <li>Unit-5</li> <li>Concept</li> <li>Meaning</li> </ul>	t of plane, p Nu angle of 60 f angle (Acu f angle (Acu t of triangle g of perime	blane segment, point mber of lectures = 04 degree , 90 degree ute angle, right angle umber of lectures = 05 e, rectangle, square, eter. Attributes	t, line, curve, line segme Title of the unit : Construction and 120 degree with the e and obtuse angle) Title of the unit : Triangle, Ro circle and knowledge of	ent, ray on of Ang e help ectangle, its pa PO1	ys and les of scal Square, C rts. PO2	angle. le and ircle and	its Perim	eter PO5	P06	PO
<ul> <li>Knowled</li> <li>Concept</li> <li>Unit-4</li> <li>Making</li> <li>Types of</li> <li>Unit-5</li> <li>Concept</li> <li>Meaning</li> <li>11.CO-PO mapping</li> </ul>	angle of 60 f angle (Acu f angle (Acu t of triangle g of perime ng The Student	blane segment, point mber of lectures = 04 degree , 90 degree ute angle, right angle umber of lectures = 05 e, rectangle, square, eter. Attributes	t, line, curve, line segme Title of the unit : Construction and 120 degree with the and obtuse angle) Title of the unit : Triangle, Re circle and knowledge of the knowledge of numbers,	ent, ray on of Ang e help ectangle, its pa	ys and les of scal Square, C rts.	angle. e and	its Perim	eter	P06 -	P07 -
<ul> <li>Knowled</li> <li>Concept</li> <li>Unit-4</li> <li>Making</li> <li>Types of</li> <li>Unit-5</li> <li>Concept</li> <li>Meaning</li> <li>11.CO-PO mappin cos</li> <li>co1</li> </ul>	angle of 60 f angle (Acu f angle (Acu nu t of triangle g of perime ng The Student place value a	blane segment, point mber of lectures = 04 degree , 90 degree ute angle, right angle umber of lectures = 05 e, rectangle, square, eter. <u>Attributes</u> s will be able to explore and operations and its a	t, line, curve, line segme Title of the unit : Construction and 120 degree with the and obtuse angle) Title of the unit : Triangle, Re circle and knowledge of the knowledge of numbers, pplication.	ent, ray on of Ang e help ectangle, its pa PO1	ys and les of scal Square, C rts. PO2	angle. le and ircle and	its Perim	eter PO5	PO6 -	P07 -
<ul> <li>Knowled</li> <li>Concept</li> <li>Unit-4</li> <li>Making</li> <li>Types of</li> <li>Unit-5</li> <li>Concept</li> <li>Meaning</li> <li>11.CO-PO mapping</li> <li>Cos</li> </ul>	t of plane, p Nu angle of 60 f angle (Acu f angle (Acu t of triangle g of perime ng The Student place value a The Student	blane segment, point mber of lectures = 04 degree , 90 degree ute angle, right angle umber of lectures = 05 e, rectangle, square, eter. <u>Attributes</u> s will be able to explore	t, line, curve, line segme Title of the unit : Construction and 120 degree with the and obtuse angle) Title of the unit : Triangle, Re circle and knowledge of the knowledge of numbers, pplication.	ent, ray on of Ang e help ectangle, its pa <u>PO1</u> 3	ys and les of scal Square, C rts. PO2 3	angle. le and ircle and PO3 3	its Perim PO4 2	eter PO5 2	P06 - -	P07 - -

	algebra and geometry.							
CO4	The Students will be able to enhance their knowledge of angle and its constructions and triangle, rectangle, square and circle and its perimeter.	3	3	3	2	3	-	-
CO5	The Students will be able to develop the interest in subject matter and correlate the knowledge with real life situation and also able to prepare the teaching learning material from the surrounding materials for teaching Maths.	3	3	3	3	3	-	-
	3Strongcontribution,2Averagecontribution,1Low	wcontribu	ution	•				
12.Brief descrip	tion of self-learning / E-learning component							
https://classroor	n.google.com/c/NTM3OTU3ODI3OTZa/p/OTg0OTIzOTY1OTIa/details							
ttps://classroor	n.google.com/c/NTM3OTU3ODI3OTZa/p/NjM4MTA5NjIyNzRa/details							
https://classroor	n.google.com/c/NTM3OTU3ODI3OTZa/p/Njc3OTM3NzM0ODla/details							
13.Books recom	imended :							
Class Teless Teles	eaching of Mathematics, Ashwani Kumar Jain, Agrawal Publication,	, Agra.						
	matics Class Teaching and Content, H.S.Sharma, Radha Prakashan r	-	Agra.					
	matics Class Teaching and Content, Jai Prakash Ojha and Vijay Kant		-	a Prakas	shan, A	gra.		

• Teaching of Mathematics, Dr. A.K. Kulshrestha, Surya publication, Meerut.

1.		e Department: E										
2.	Course Na		Social Studies-A				L		Т		I	
3.	Course Co		DED405				3		1			)
4.	Type of Co	urse (use tick ma	ark)				Core $()$	) DE	0		FC ()	
5.	Pre- requisite (if any)		Graduation	6. Frequency (usetick marks)	Ever	1	$\operatorname{Odd}()$	Eitl	ner Sen	n ()	Every Se	em ()
7.		ber of Lectures,	Tutorials, Practical									
	ctures = 30			Tutorials = 10			Practical					
and	teaching . By	y using the princi	e purpose of this Diploma c pal of learning and teaching course, the student will ab	students may enable	e thems	selves a	better tead	cher.	tional te	chnologi	ical techr	niques
		TCOMES (CO)										
-	-		etion, learners will develop	following attributes:	•							
COL	IRSE OUTO	COME (CO)	ATTRIBUTES									
		CO1	Students will be able	to know about .mea	ning an	d conce	pt of histo	ory signif	icance a	and its so	ources .	
		CO2	Students would able t			iod :Pre	and post	Vedic pe	eriod. M	Ihajanpa	das Age	
			Upanishadic period -		0						-	
		CO3	Students will be able		r Syste	m Map a	and Atlas	Latitud	e and L	ongitud	e Therm	al zones
			on the Earth, Hemisp Students will be able	here and poles.	1		D		: D .: C.			
		CO4	Panchayat, Block Par							/stem - v	mage	
		CO5	To make the contents	of social study for us	e of the	e child c	entric teac	hing met	hods as	acting, g	group dise	cussion,
		005	panel discussion, deb	ate, problem solution	n, excu	rsion, pr	oject metl	hod etc.				
10.	Unit wise de	tailed content	•									
Un	-		per of lectures = 08	Title of the unit								
			ory, significance and its									
			s, methods of time deterr									
			ge. Valley Civilization:	Indus Valley Civi	lizatio	n Meso	opotamia	n civiliz	zation,	civiliza	tion of	Egypt,
Chin	ese Civiliza	ation.										
Vedi	c period: P	re and post Ved	ic period.									
					<b>a</b> 1							
Un			er of lectures =08	Title of the unit:	Collo	idal Sta	te					
		and post Vedic p		ning of Magadh Silv	on dor's	invesio	n and ita i	nfluonoo	a on Ind	lia		
		od - Jain and Bud	n Mahajanpads of India, Emp dha religion	pire of Magadii - Sik	andars	invasio	n and its i	muence	s on me	lla.		
Opar	lisitadie perio	a - Jam and Dud	una rengion.									
Un			per of lectures = 08	Title of the unit:								
			ls, galaxy, comets. Map and									
			hy, how GMT, IST Internat									
			on and Revolution, what, wh ountries, land features, clima								n Asia - I	osition
and i	is boundaries	s, neighbourning et	ountries, fand features, enna	ate nora and rauna.A	suono	linear or	gamzatioi	1 - Ivasa		O cic.		
Un	it-4	Numb	er of lectures = 08	Title of the unit:	Theri	nochem	istry					
Rura	l and Urban		al life - Panchayati Raj S					, District	Panch	ayat, the	ir format	ion and
funct	ion.Urban lit	fe - town Panchay	yat, Municipal Council, Met	tropolitan Corporatio	on form	nation ar	d function	n.Distric	t level A	Administ	ration - I	.aw and
	-	-	of Citizen's facilities, Educa	ation, Health and sec	urity s	ystem.T	raffic and	Security	.Knowl	edge of	rules and	l signals
of ro	ad transport.	Cautions for safet	ty on road accidents.									
Un			ber of lectures = 08	Title of the unit:							<b>-</b>	
			lls and symbols on railway									
	oins, J K Meł		nics, View point of Economi	ists on Economics, c	ontriot	ition of	ramous ed	conomist	s- Adar	n Smith,	Alfred, F	viarsnei,
			ome, Gross domestic produc	ct (G.D.P.) Net Dom	estic P	roduct (	NDP) Gro	oss Natio	nal Pro	duct (GN	IP) Net I	National
			Disposable Income, National								,	
	00.50	•										
11.	CO-PO map CO	ping	Attribut			PO1	PO	PO3	PO4	PO5	РО	PO7
	s		es			101	2	105	104	105	6 FO	10/
		Students will be	able to know about .mean	ing and concept of	history	2	1	1	2	2	1	
		significance and i		-								

1								
CO 2	Students would able to understand the Vedic period :Pre and post Vedic period. Mhajanpadas Age .Upanishadic period - Jain and Buddha religion.	2	1	2	1	2	1	
CO 3	Students will be able to know about .Solar System Map and Atlas <b>Latitude and Longitude</b> Thermal zones on the Earth, Hemisphere and poles.	2	1	2	3	2	1	
CO 4	Students will be able to know about Rural and Urban life styles. Panchayati Raj System - village Panchayat, Block Panchayat, District Panchayat, their formation and function.	2	1	1	2	2	2	
CO 5	To make the contents of social study for use of the child centric teaching methods as acting, group discussion, panel discussion, debate, problem solution, excursion, project method etc.		1	1	2	3	2	
	3 Strong contribution, 2 Average contribut	tion, 1 L	ow					1
2. Brief des	contribution contribution							
	oogle.com/file/d/1UugyBNO_AeHLKXg							
	commended: Jonam (2010) Introduction in Poonam Batra (ed) (2010) Social Science Lea	arning in	Schools	s; Perspe	ctive an	d Challei	nges, Sag	ge: Ne
Delhi pp	3-41							

2. Bhattacharya, Neeladhari (2009). Teaching History in Schools: The Politics of Textbooks in India. History Workshop Journal. 67 (1) pp 99-110

3. NCERT, (2006). Position Paper National Focus Group on Teaching of Social Sciences. NCERT: New Delhi. pp. 1-19

4. Social Science Textbooks for classes VI, VII and VIII, New Delhi: NCERT 2006-2008

5. George, A. and A. Madan (2009) Teaching Social Science in Schools: NCERT's New Textbook Initiative. Sage: New Delhi. pp 31-57

1. Name of the De	partment: Edu	ucation									
2. Course Name		HINDI A				L		Т		I	?
3. Course Code:		DED406				1		1		(	0
4. Type of Course	(use tick mark)					Core $()$	DF	E ()		FC ()	
5. Pre- requisite (if any)			6. Frequency (use tick marks)	Even	0	Odd $()$	Eit	her Sem	0	Every Se	em ()
7. Total Number of	f Lectures, Tut	orials, Practicals									
Lectures = 15			Tutorials = 10		I	Practical =	Nil				
		ourse is aimed to develop langute. The topics introduced will							ichis neces	ssary for g	rooming
9. COURSE OUTCO											
		on, learners will develop follo	owing attributes:								
COURSE OUTCOM	1E (CO)	ATTRIBUTES	lantify the years le and		onto un	donaton d ti	haimma		faamaat		otion
	01	Classify the sound, id identify the causes of	incorrect pronunciation	on and s	suggest	ways to in	prove p	pronunci	ation in l	Hindi lan	guage.
	02	Recognize antonyms in Hindi language.							improve	their voc	abulary
	03	Explain the history, st List, identify and state				-					
	04	State methodology of	*				-	y skills			
	05	State memodology of	shine and sug	,5001 III	cusures	to improve		5 0111101			
	init wise detailed content -1 Number of lectures 05										
Unit-1 • To listen	listen and understand sounds and correct pronunciation in Hindi lang										
	। में ध्वनियों को स्	ige.									
Unit-2		per of lectures	05								
		s, Synonyms, rhythmic and Ho रवं समान ध्वनियों वाले शब्दों की									
Unit-3	-	er of lectures	पहचान 05								
		s, vowels, consonants, compo				nagri Scrip	t.				
		केतों, स्वर, मात्रा, व्यञ्जन, संयुक्त	-	मात्राओं	का ज्ञान						
Unit-4		per of lectures	05								
			n, full stop, question mark, exclamatory mark, inverted comma. यबोधक, अवधरण चिह्न तथा विराम चिह्न का ज्ञान एवं उनका प्रयोग								
Unit-5		ber of lectures	05								
		, Important topics of learning				-	How to	hold the	pen, sta	rting line	e, script,
		ppropriate example, practice और लिखना सीखने में ध्यान रर					उरी कल	ाम पकड	ने के विधि	धे शिरोरेर	वा लिपि
		ायुक्त नमूने, अभ्यास, सुलेख, अ		, .			a,	<del>,</del>		.,	,,
11. CO-PO mappin	-		<u> </u>								
COs		At tri			PO1	PO2	PO3	PO4	PO5	PO6	PO7
		bu									
	Classify the sou	tes and, identify the vowels and	consonants, understar	nd the	3	3	3	1	3	-	-
CO1 i	mportance of opportunciation a	correct pronunciation, ident and suggest ways to impro	ify the causes of inc	orrect							
CO2 H		nyms and synonyms, identif nd improve their vocabulary		-	3	2	3	1	3	-	-
CO3		tory, state the importance and		ıgari	3	2	3	1	3	-	-
CO4		nd state use of each punctuat	ion marks in Hindi		3	3	3	1	3	-	-
	0 0	ogy of writing skills and su			3	2	3	3	3	-	-
		3 Strong contri	ibution, 2 Average con	ntributio	on, 1 Lo	ow				_	
12. Brief description	Brief description of self learning / E-learning component										

https://ilizone.iul.ac.in/mod/resource/view.php?id=287586

## 13. Books recommended:

- Books Feroininended.
   Mangal, Uma (2006). Hindi Shikshan. Delhi: Agra Book Depot.
   Singh, Savitri (1992). Hindi Shikshan. Meerut: Loyal Book Depot.
   Bhai, Yogendrajeet (2005). Hindi Bhasha Shikshan. Agra: Vinod Pustak Mandir.
- Pandey, R.S. (1992). Hindi Shikshan. Agra: Vinod Pustak Mandir.
   Prasad, Keshar (1991). Teaching of Hindi. Dhanpat Rai and sons.
   Mishra, Alka. Hindi Shikshan. Agra: Agarwal Publications.

1.Name	of the Department : Educati	on (D.El.Ed.)					
2.Course	e Name	COMPUTER EDUCATION	N A		L	Т	Р
3.Course	e Code	DED 407			1	1	0
4.Type o	of Course (use tick mark)				Core(√)	DE()	FC()
5.Prereq (if any)	juisite	Graduation with any Discipline	6.Frequency (use tick marks)	Even()	Odd(√)	EitherSem()	EverySem()
7.Total I	Number of Lectures, Tutorial	s, Practical			1		
Lectures			Tutorials=10		Practical=Nil		
8. COURS	E OBJECTIVES-						
	To provide information r game/video clip etc. for r To provide information r To get the knowledge of To get the knowledge of	the computer, internet and elating life skill and conten- naking class room teaching egarding Microsoft office of various applications of con various internet browsers a	It through activities b g effective. open source software nputer, Microsoft offi and searching the ma	ased on techno cyber safety a ce etc.	nd rule to the		of computer
-	Successful course completion	n, learners will develop follow ATTRIBUTES	ing attributes:				
COUNDE	. ,						
	CO1	Students shall be able to k internet effectively during	•				
	CO2	Students shall be able to k	now about computers ,	basics of opera	ting system, ov	erview of computer p	rogramming.
	CO3	Students will be familiar w	vith Saving of data use	of computer gai	me/video clin e	tc. for making class re	oom teaching
	COS	effective and interesting.					
	CO4	Students will be familiar w applications etc. Students				e open source softwa	ire,multimedia
	CO5	Students shall be able to s regarding new academic r			ke them aware	in the use and utility	of computer
10.Unit v	wise detailed content						
Unit-1	Numbe	er of lectures = 5	Title of the unit : D	efinition of a (	Computer Sys	tem	
	<ul> <li>On the basis of</li> <li>Uses &amp; Applic</li> <li>Components of</li> <li>Processing Dev</li> </ul>	<sup>2</sup> Data Representation (Ana <sup>2</sup> Size & Speed (Microcomp ation area of Computers A f a Computer System Hard vices C.P.U. / Microprocess view & Basic Concept Ca	outers (PC), Minicom dvantages & Limitati ware Input Devices ( sors Overview & Bas apacity Terminology	puters, Mainfi ons of Compu Keyboard, Mo ic Concept Re	iters. ouse, Trackba gisters & Bus	ll, Stylus, Light per es Processing Spee	ds (GHz etc.)
Unit-2		er of lectures =5	Title of the unit : W		omputer Sys	stem	
• • • •	Overview of Instructin Working with System OS : Functions, Uses Introduction to differen Using Microsoft s Wir Number Components of the Wind Desktop s settings (Wall	er System I-P-O (Input I ng / Programming a Com Software ( Operating Sy & Benefits, Types of OS nt types of OS (Window ndows OS (Microsoft Wi er of lectures = 5 lows XP s Desktop (Icons, papers, Screen Savers etc.) Programs etc) Files & Fold	puter machine. Testem (OS) module S (Single User, Mul s, Macintosh, Linux indows XP), Welco Title of the unit : Co Taskbar, Clock & Ca	only) Introductiuser, Multi tiuser, Multi x Ubuntoo et ome screen ,I	tasking, Mu c.). Desktop scre	ltiprocessing, Rea	ıl-Time etc.),
•	Introduction to My Com	puter Working with Wind Folders (Creation, Deletion,	ows Explorer (Parts o			s, Scrolling etc.)	
Unit-4	Numbe	er of lectures = 5	Title of the unit : Co	ncept of a De	sktop and me	mory	
•	System Management, Tu	rning ON & OFF your con	nputer machine Cont	rol Panel, Dev	vice (Printer, I	Fax, Mouse, Keybo	ard etc.)

System Management, Turning ON & OFF your computer machine Control Panel, Device (Printer, Fax, Mouse, Keyboard etc.)
management

- Program (Installation & Uninstallation) management Recycle Bin, Working with Applications Software (Hand on practice over general applications)
- Calculator, Notepad, MS Paint, Games etc. Installing new software & using it,
- Working with Multimedia, Introduction & Basic Concept Uses & Application, Using some Multimedia Application (Windows Media Player, Microsoft s Encarta etc.)
- Uploading innovative teaching methods in different browsers.
- Types of Memory

- Primary (RAM, ROM, Cache) Secondary (HDDs, CDs, DVDs, PDs, Memory Cards etc.)
- Output Devices (V.D.U., Printer), Software (System Software, Application Software)

Unit-5	Number of lectures = 5	Title of the unit : Internet

- Introduction to Networking
- Introduction & Basic Concept Uses & Application Types of Networks
- Performing setup together (Two or more systems in a network)
- Introduction to Internet Introduction & Basic Concept Components of Internet (Web Browser, Server, Website & Web pages, Hyperlinks).
- Services of Internet (WWW, Email, FTPs, Chatting etc.)
- Performing setup for Internet in a Computer System.

COs	Attributes	PO1	PO2	PO3	PO4	PO5	PO6	PO
CO1	Students shall be able to know about computers ,apply the use of computer, also able to apply use multimedia and internet effectively during class room teaching. Student shall be able to know about basics of microprocessor.	2	3	2	3	1		
CO2	Students shall be able to know about computers ,basics of operating system, overview of computer programming.	3	1	3	3		1	1
CO3	Students will be familiar with Saving of data, use of computer game/video clip etc. for making class room teaching effective and interesting.	2	2	1	3	1		
CO4	Students will be familiar with different applications of computer ,Microsoft office open source software,multimedia applications etc. Students will be familiar with different types of memories.	1			2	2	1	
CO5	Students shall be able to search the material on internet and make them aware in the use and utility of computer regarding new academic researchers in the world.	e 1		1	3	2	2	
2.Brief descrip	3Strongcontribution,2Averagecontribution,1Lo stion of self-learning/E-learning component	wcontribu	ution					
•	ogle.com/drive/folders/1nlCMQA5b4fQ63qq3crBllUoA5QZHcw-b?usp=sharing							
tps://drive.goo	<pre>pgle.com/drive/folders/1jS2bqhT3ueLc3CCDUGv-IRRH9_q1sZXb?usp=sharing</pre>							
tps://drive.goo	pgle.com/drive/folders/1-x08ZbxkUtO7XeK5eSXK0xZeg6uUQmTm?usp=sharing							
tps://drive.goo	ogle.com/drive/folders/1lhrU2t9T6YTHf91kfOq7Oz272UNUil?usp=sharing							
ttps://drive.goo	bgle.com/drive/folders/10JhLnAPLqLovymQjzWdRtZYYWyKMJSrt?usp=sharing							
13.Books recom		- a con						
	nd Ellington H, 1984 A Handbook of Educational Technology, London: K al 1984. Introduction to Educational Technology, Sterling Publishers Pvt. I	-	7 Delhi					
•	); Edwards, J. Havriluk, Mary 2000. Integrating Educational Technology in							
•	2 1986 Introduction to Educational Technology IBH Publishing Co. New 1		ning.					

- Kulkarni, SS 1986 Introduction to Educational Technology, IBH Publishing Co., New Delhi.
   UNESCO 1988 Linking Technology with Science Education Technology in life, UNESCO Press.
- D. UNESCO 1988 Linking Technology with Science Education Technology in life, UNESCO

6. Ruhela S.P, (1973) Educational Technology, Raj Prakashan, New Delhi.

7. Mangal, S. K; Mangal Uma; 2009, Essentials of Educational Technology, PHI Learning Pvt. Ltd., New Delhi.

1. Name of th	e Department: E	ducation									
2. Course Na	<b>m</b> 0	Urdu -A				L		Т			P
3. Course Co								1			0
4. Type of Course (use tick mark)						$\frac{3}{\text{Core}(\sqrt{)}}$	DE	20		FC()	5
5. Pre-	Jurse (use tiek in		Odd $()$		her Sem		Every So	em ()			
requisite (if any)			6. Frequency (usetick marks)							•	
7. Total Number of Lectures, Tutorials, Practical											
Lectures = 20 Tutorials = 08 Practical = Nil											
8. COURSE OBJECTIVES: The purpose of this Diploma course is to impart basic and key knowledge of Educational technological techniques and teaching . By using the principal of learning and teaching students may enable themselves a better teacher. . After successfully completion of course, the student will able explore subject into their respective dimensions.										niques	
	JTCOMES (CO)		ст								
		etion, learners will develop j	following attributes:								
COURSE OUT	COME (CO)	ATTRIBUTES									
	CO1	To know the important	00							nguage.	
	CO2	To get knowledge abo	out the skill of Urdu	language	(listen	ing speaki	ng, rea	ading &	writing)		
	CO3	To develop knowledg	ge about wright Pron	unciation	of urd	u Languag	e				
	CO4	make children aware	about the methods of	f Urdu tea	aching	and its way	y of cr	itical ana	alysis.		
	CO5	Students will be able	to know about how t	o hold th	e pen f	for transcrip	otion				
10. Unit wise de											
Unit-1 Importance of Ur	Numb du language in sc	er of lectures = 04 hool syllabus.Objectives of	Title of the unit Urdu teaching.Metho	Gaseou ods of Ur	is State du teac	es ching.					
Unit-2		er of lectures =04	Title of the unit:								
In view of effective and successful teaching inculcate interest in Urdu teaching, use TLM and different activities.Listening- meaning and its importance. Develop listening skills through story, conversation, songs and poems Unit-3 Number of lectures = 04 Title of the unit: Thermodynamics- I											
Speaking- meaning and its importance.Develop speaking skills through story, conversation, question answer and improve pronunciation.Reading-meaning and its importance.         Unit-4       Number of lectures = 04         Title of the unit: Thermochemistry         Develop reading skill through word recognition and to learn pronunciation, putting "airab" on the words, to read small paragraphs with understanding, poems and stories.											
Unit-5	Num	ber of lectures = 04	Title of the unit:	Dhoco F	anilih	rium					
Writing- meaning	and its important	ce.Make the children aware $ce.Make the children aware$	how to hold the pen	for transc	ription	n. structure	of wo	rds. and	different	shape of	f words.
to put "arab" on t	hem and ask the c	children to write transcription	n, dictation, stories a	nd poems	S.	,		,		1	
11. CO-PO ma	oping										
CO		Attribut			PO1		PO3	PO4	PO5	PO	<b>PO7</b>
S	To know the imr	es oortance of Urdu language, i	inculcate the interest	in the	2	2 2	1	2	2	<u>6</u> 1	
CO 1	children for Urdu		incurcate the interest	in uic	-	2	1	2	-	1	
	To get knowledge about the skill of Urdu language (listening speaking, 2 1 1 2 2 1 reading & writing)										
CO 3	To develop knowledge about wright Pronunciation of urdu Language 2 2 2 2 1										
	make children aware about the methods of Urdu teaching and its way of 2 2 1 1 2 1 critical analysis.										
C05	Students will be a	able to know about how to h	old the pen for trans	cription	2	1	1	2	2	2	
	1	3 Strong contri	bution, 2 Average co	ntributio	n, 1 La	ow		1			L
14 0 1 4 2		-	contribution								
	ption of self learı	ning / E-learning component	nt								
Nil											

## 13. Books recommended:

Ansari, Akhtar, Ghazal aur Dars- e- Ghazal, Anjuman Taraqui-e- Urdu, Aligarh Ansari, Akhtar, Studies in Language and Language Teaching, Friends Aligarh, 1962 Ahmad Hasan Tadrees on Urdu, Marathwadas Collage of Education, Aurangabad, 1973. Saiyadin, K.G.Zindagi, Zaban aur Taleem, Anjuman Tariq-e- Urdu, Aligarh, 1971 Moinduddin Urdu Zaban ki Tadrees, Tarikhi-Urdu Bureau, New Delhi, 1983Gurrey, P. TeachinMother Tongue in Secondary Schools, Longamans London 1958.

1. Name	of the D	epartment: Eo	ducatio	n											
2. Cours	e Name	e SANSKRIT A						L		Т		]	2		
3. Course	e Code	Code DED410						1		1		(	)		
4. Type of Course (use tick mark)								Core ()	DE	(√)		<b>FC</b> ()			
5. Pre-requisite (if any)					6. Frequency (use tick marks)	Even	0	Odd $()$	Eitl	ner Sem (	)	Every Ser	n ()		
7. Total l	Number	of Lectures, Tu	itorials,	Practicals	1	1	1								
Lectures = 15Tutorials = 10Practical = Nil															
8. COURSE OBJECTIVES: The course is aimed to develop language proficiency and interest towards language among students and the skills in Sanskrit, which is necessa grooming them into successful education graduate. The topics introduced will serve as basic tools for specialized studies in education field.								ary for							
grooming monthice successfureducation graduate. The topics introduced will serve as basic tools for specialized studies in education field.															
9. COURSE OUTCOMES (CO): After the successful course completion, learners will develop following attributes:															
COURSE	OUTCO	ME (CO)		ATTRIBUTES											
		201		Recall the names of animals	ls, birds and things around and pronounce the Sanskrit words correctly; define noun and gender										
					number in noun and pronoun in Sanskrit.										
	(	202		Identify nouns, list types of Sanskrit language.	bes of pronouns, differentiate among types of gender and change the number of nouns and pronouns in										
	(	203		Identify cases of nouns and their number.	pronouns, identify the u	ses of a	ll cases a	and write al	l cases of	nouns ar	nd pronou	ns accord	ing to		
	(	204		Identify verbs, tenses, and v	vrite cases of present, pa	ist and f	uture ter	nse accordir	ng to pers	on and nu	umber.				
	(	205		Recite prayers, shloks and n	noral based sentences ar	nd under	stand nu	umbers from	n 1-20 in	Sanskrit.					
10. Unit	wise det	ailed content													
Unit-1		N	umber	of lectures	05										
•				s, birds and things around in $3^{2}$	Sanskrit language.										
•		•	•	ों के संस्कृत नाम का ज्ञान ntences into Hindi.											
•															
Unit-2	<ul> <li>सरल संस्कृत वाक्यों का हिंदी में अनुवाद</li> <li>Unit-2 Number of lectures 05</li> </ul>														
•		lge of Noun, G													
•	• संस्कृत भाषा में संज्ञा, सर्वनाम, लिंग व वचन का ज्ञान														
Unit-3					05										
	<ul> <li>Knowledge of all the cases in noun, pronoun and numbers</li> <li>संज्ञा एवं सर्वनाम शब्दों में सभी विभक्तियों तथा वचनों का ज्ञान</li> </ul>														
Unit-4															
Use of present and past tense form of verb in tenses.															
•	<b>c</b>	•		ट एवं लंग लकार का प्रयोग											
•				form of verb according to the											
• Unit-5															
	Meaning			ver, shloks and moral based s											
•	वंदना, श्व	ग्नेकों एवं नीतिप	रक वाक	यों का अर्थज्ञान तथा सस्वर वाच	न										
•		s from 1 to 20 स तक की संस्व													
11. CO-P	O mappi														
CO				Attributes			P01	PO2	PO3	PO4	PO5	PO6	PO7		
CO1 Recall the names of animals, birds and things arou Sanskrit words correctly; define noun and gender a				nd	3	2	3	1	3	-	-				
number in noun and pronoun in Sanskrit.           CO2         Identify nouns, list types of pronouns, differentiate change the number of nouns and pronouns in Sans				and	3	2	3	1	3	-	-				
CO3 Identify cases of nouns and pronouns, identify the			uses of all cases and wr	ite all	3	2	3	1	3	-	-				
CO	cases of nouns and pronouns according to their nur           CO4         Identify verbs, tenses, and write cases of present, p to person and number.				ording	3	2	3	1	3	-	-			
CO5 Recite prayers, shloks and moral based sen 1-20 in Sanskrit.			and understand numbers	from	3	2	3	1	3	-	-				
					17		:1+								
12 Rrinf	descripti	on of solf loors	ing / F	3 Strong contributio	on, 2 Average contributio	on, I Lo	ow contr	ioution							
12. 01101	acocripti	n or sen rear ll	g / Ľ-I	icar ning component											

13. Bo	oks recommended:						
1. Pand	ey, R.N. (2004). Modern Methods of Teaching Sanskrit. Jaipur:						
ABD P	ublication.						
2.	Sethi, Urmila (2016). Sanskrit Shikshan. 21st century						
Publica	tion.						
3.	Jain, Shudhiyatmak Prakash( 2016). Sanskrit Shikshan. Agra:						
Rakhi F	Publication.						
4.	Singh, Renu (2017). Sanskrit Shikshan. Meerut: R Lall Book						
Depot.							
5.	Sharma Radha (2016). Sanskrit Shikshan. Agra: Agarwal						
Publica	tion.						
6.	Sharma, Bharat Bhushan. Sanskrit Shikshan. Agra: Agarwal						
Publica	tion.						