Department of	Mathematic	rs.				Dibrug	arh University
Title of the Cor	ırca	Mathematics Teaching			Da	Paper Number 4C4	
Category	Core	Year 2		Credits	4	Course Code	MTH C13
		Semester	4	Craits	-	Course Code	WITHCIS
Instructional Hours		Lecture		Tutorial	La	ıb Practical	Total
(Per week)		3		2	La	10 Tractical	5
Objectives of the Course Course Outline		On completion of the course, the students will be able to 01. Describe the nature of mathematics and also arithmetic, algebra, geometry and statistics. 02. Define and describe mathematical concepts, generalization and different types of proofs. 03. Appreciate the development of Mathematical understanding in the human civilization 04. State the aims and objectives of mathematics teaching in light of the NEP 2020. 05. Discuss and compare methods of Mathematics teaching. 06. Use different techniques of assessment & evaluation. Unit 1: Mathematical Concepts Marks 15					
		Nature of Mathematics, arithmetic, algebra, geometry, and statistics; mathematical propositions, axioms and symbolism; Mathematical concepts and proofs, Historical developments of Mathematical understandings till 21st century. Unit 2: Aims and Objectives of teaching Mathematics Educational values of Mathematics; Aims and objectives of teaching Mathematics at different levels; Objectives of teaching Arithmetic, Algebra, Geometry and Statistics; Bloom's Taxonomy of Educational Objectives; Revision of Bloom's Taxonomy. Unit 3: Methods and Techniques of Teaching Mathematics Marks 15 Methods: Inductive – Deductive, Analytic – Synthetic, Problem Solving, Heuristic, Laboratory, Project, Flip classroom. Techniques: Oral, Online and Hybrid Techniques, Assignment, Supervised study, Programmed Learning. Unit 4: Assessment and Evaluation Marks 15 Meaning of assessment and evaluation and their interrelationship, devices and techniques of assessment, planning, construction and implementation of assessment in Mathematics,					
Recommended	Text	 Online assessments, Issues in Assessment and evaluation. Baur Gregory R and Linder Olson George: Helping children Learn Mathematics. Cummings publishing Co. INC, London. NCERT, A Textbook of Content-cum-Methodology of Teaching Mathematics, New Delhi: NCERT. Ebel, R.L.: Measuring Educational Achievement; Prentice Hall of India Pvt. Ltd, New Delhi. 					
Reference Books 1. Sidhu, K.S.: The Teaching of Mathematics; Sterling Publishers Pvt. Ltd. New Delh Website and E-learning Source • https://www.nctm.org/publications/mathematics-teacher/ • https://academic.oup.com/teamat							Ltd. New Delhi-16