Curriculum Plan: B.Sc. (Hons) Mathematics (Semester V)- Elementary Mathematical Analysis 2024-25 Odd Sem

Mr. Manish Kumar Assistant Professor Department of Mathematics Kalindi College University of Delhi Delhi- 110008 Mobile: 7503244811 E- mail: manishkumar@kalindi.du.ac.in		**Marks Distribution**	**Theory** - 90
			Internal Assessment- 30 **Tutorial 40**
		Classes Assigned	**Lectures: 2 per week**
	References	1. Denlinger, Charles G. (2011). Elements of Real Analysis. Jones & Bartlett India Pvt. Ltd. Student Edition. Reprinted 2015.	
	Week	Topics	
	1st week	Limit and Continuity	
	2nd week	Sequences	
	3rd week	Series	
	4th week	Sequential criterion for limits	
	5th week	Sequential criterion for continuity	
	6th week	Continuity on intervals	
	7th week	Intermediate value theorem	
	8th week	Applications of Intermediate value theorem	
	9th week	Uniform continuity	
	10th week	Uniform continuity	
	11th week	Riemann integration	
	12th week	criterion for integrability	
	13th week	Examples of Riemann integration	
	14th week	Integrability of continuous functions	
	15th week	Integrability of monotone functions	