


Curriculum Plan: B. Sc. (Hons) II Year

<h1 style="margin: 0;">Ms. Anshu Chotani</h1> <p style="margin: 0;">Department of Mathematics Kalindi College, University of Delhi, Delhi-110008 Mobile: +91-9810668790 E- mail: achotani@yahoo.com</p>			Marks Distribution	Theory -75	
				Internal Assessment-25	
			Classes Assigned	Lectures	2 per week
				Tutorials	1 per week
Reference	[1]	K.A. Ross, <i>Elementary Analysis: The Theory of Calculus</i> , Undergraduate Texts in Mathematics, Springer (SIE), Indian reprint, 2004.			
	[2]	R.G. Bartle D.R. Sherbert, <i>Introduction to Real Analysis</i> (3rd edition), John Wiley and Sons (Asia) Pvt. Ltd., Singapore, 2002.			
	[3]	Charles G. Denlinger, <i>Elements of Real Analysis</i> , Jones and Bartlett (Student Edition), 2011.			
Section	Week	Topics	Practical		
1	Beginning day /1st week January 1- 8, 2022	Riemann integration; inequalities of upper and lower sums	Unit I		
	2nd week , January 10-15, 2022	Riemann sum and definition of Riemann integral through Riemann sums			
	3rd week , January 17-22, 2022	Riemann conditions of integrability			
	4th week , January 24-29, 2022	Equivalence of two definitions, Riemann integrability of monotone and continuous functions.			
	5th week , January 31- February 5, 2022	Properties of the Riemann integral	Unit I		
	6th week , February 7-12, 2022	definition and integrability of piecewise continuous and monotone functions			
	7th week , February 14-19, 2022	Intermediate Value theorem for Integrals			
	8th week , February 21- 26, 2022	Fundamental theorems of Calculus.	Unit I		
	9th week , February 28- March 5, 2022	Improper integrals			
2	10th week , March 7-12, 2022	Improper integrals	Unit II		
	11th week , March 21- 26, 2022	Convergence of Beta functions			
	12th week , March 28- April 2, 2022	Convergence of Beta functions and similar problem			
3	13th week , April 4-9, 2022	Convergence of Gamma functions.	Unit II		
	14th week , April 11-16, 2022	Convergence of Gamma functions and similar problems			
	15th week April 18- 22, 2022	Revision			