Curriculum Plan: B. Sc. (H) I (Semester I) Probability and statistics

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Marks Distribution	**Theory 2L per week**	**90 Marks**
	Internal Assessment	Total 30 Marks Assignments 12 Marks Home Ex 12 Marks Attendance 6 Marks
	Continuous Assessment	40 Marks

Reference	[1]	**Devore, Jay L. (2016). Probability and Statistics for Engineering and the Sciences (9th ed.). Cengage Learning India Private Limited. Delhi. Indian Reprint 2020.**
	[2]	
	[3]	

Section	**Week**	**Topics**	
	1st week Aug, 29th – Sep 5th, 2024		
	1st week Aug, 29th – Sep 5th, 2024	Continuous random variables, Probability density functions, Uniform distribution,	
	2nd week Sep, 6th – 13th, 2024	Continuous random variables, Probability density functions, Uniform distribution,	
	3nd week Sep, 14th – 21th, 2024	Continuous random variables, Probability density functions, Uniform distribution,	
	4th week Sep, 23th – 30th, 2024		
	5th week Oct, 1st - 8th , 2024	Cumulative distribution functions and expected values,	
	6th week, Oct, 9th - 16th, 2024	Bounded above and bounded below sets, Suprema and infima, The completeness axiom and the Archimedean property of $\mathbb{R}$	
	7th week Oct, 17st – 25th, 2024	The normal, exponential and lognormal distributions.	
	8th week Nov, 4th - Nov 11th, 2024	The normal, exponential and lognormal distributions.	
	9th week Nov, 12th - 19th, 2024	Sampling distribution and standard error of the sample mean,	
	10th week Nov, 20th - 27th, 2024	Central Limit Theorem and applications;	
	11th week Nov, 28th - Dec, 5th, 2024	Scatterplot of bivariate data, Regression line using principle of least squares,	
	12th week Dec, 6th – 13th, 2024	Scatterplot of bivariate data, Regression line using principle of least squares,	
	13th week Dec, 14nd - 21th, 2024	Estimation using the regression lines; Sample correlation coefficient and properties.	
	14th week Dec, 23th - 28th, 2024	Estimation using the regression lines; Sample correlation coefficient and properties.	