A.S.D. GOVERNMENT DEGREE COLLEGE FOR WOMEN(A), KAKINADA

DEPARTMENT OF MATHEMATICS

ACADEMIC YEAR - 2024-25

LIST OF COURSES OFFERED

Yr.	Course & Theory	Paper	Title	Workload Hrs / Week	Credits	Max. Marks		
						CIA	Extrnl	Total
I	Sem I	I (Major)	Essentials and Applications of Mathematical, Physical and Chemical **Sciences**	3Hrs	4	40	60	100
		II (Major)	Advances in Mathematical, Physical and Chemical	3 Hrs	4	40	60	100
		Skill Course	Analytical Skills	2 Hrs	2	10	40	50
	Sem II	III (Major)	Differential Equations & Problem Solving Sessions	5 Hrs	3	40	60	100
		IV (Major)	Analytical Solid Geometry & Problem	5 Hrs	3	40	60	100
		I (Minor)	Differential Equations & Problem Solving	5 Hrs	3	40	60	100
II	Sem III	VI (Major)	Group Theory &Problem Solving Sessions	5 Hrs	4	40	60	100
		VII (Major)	Numerical Methods &Problem Solving Sessions	5 Hrs	4	40	60	100
		VII (Major)	Laplace Transforms &Problem Solving Sessions	5 Hrs	4	40	60	100
		VIII (Major)	Special Functions &Problem Solving Sessions	5 Hrs	4	40	60	100
		II (Minor)	Group Theory &Problem Solving Sessions	5 Hrs	4	40	60	100

		IX (Major)	Ring Theory &Problem Solving Sessions	5 Hrs	4	40	60	100
		X (Major)	Introduction to Real Analysis& Problem Solving Sessions	5 Hrs	4	40	60	100
	Sem IV	XI (Major)	Integral Transforms &Problem Solving Sessions	5 Hrs	4	40	60	100
		III (Minor)	Ring Theory &Problem Solving Sessions	5 Hrs	4	40	60	100
		IV (Minor)	Introduction to Real Analysis& Problem Solving Sessions	5 Hrs	4	40	60	100
III	Sem V	VI A	(To choose One pair from the Three alternate pairs) Numerical Methods	5 Hrs	5	40	60	100
		VII A	Mathematical Special Functions	6 Hrs	5	40	60	100
			OR			40	60	
		VI B	Multiple integrals and Applications of Vector Calculus	6 Hrs	5	40	60	100
		VII B	Integral transforms with Applications	6 Hrs	5	40	60	100
			OR			40	60	
		VI C	Partial Differential Equations and Fourier Series	6 Hrs	5	40	60	100
		VIIC	Number theory	6 Hrs	5	40	60	100