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

DEPARTMENT OF COMPUTER SCIENCE

B.Sc. Computer Science

ACADEMIC YEAR - 2023-24

LIST OF COURSES OFFERED

Semester	Paper	Subject	Hrs./	Credits	CI	ES	Total		
FIRST YEAR									
SEM-I	1	Essentials and applications of	5	4	40	60	100		
SEWI-I	1	Essentials and applications of Mathematical, Physical and Chemical Sciences	3	4	40	60	100		
	2	Advances in Mathematical, Physical and Chemical Sciences	5	4	40	60	100		
SEM-II	3	Problem Solving in C	3	3	40	60	100		
		Problem Solving in C Lab	2	1	10	40	50		
	4	Digital Logic Design	3	3	40	60	100		
		Digital Logic Design Lab	2	1	10	40	50		
	SECOND YEAR								
SEM-III	5	Object Oriented Programming using Java	3	3	40	60	100		
		Object Oriented Programming using Java Lab	2	1	10	40	50		
	6	Data Structures using C	3	3	40	60	100		
		Data Structures using C Lab	2	1	10	40	50		
	7	Computer Organization	3	3	40	60	100		
		Computer Organization Lab	2	1	10	40	50		
	8	Operating Systems	3	3	40	60	100		
		Operating Systems Lab using C/Java	2	1	10	40	50		
SEM-IV	9	Database Management System	3	3	40	60	100		
		Database Management System Lab	2	1	10	40	50		
	10	Object Oriented Software Engineering	3	3	40	60	100		
		Object Oriented Software Engineering Lab	2	1	10	40	50		
	11	Data Communications and Computer Networks	3	3	40	60	100		
		Data Communications and Computer Networks Lab	2	1	10	40	50		

		THIRD YEAR							
SEM-V	12	Web Interface Designing Technologies	3	3	40	60	100		
		Web Interface Designing Technologies Lab	2	1	10	40	50		
	13	Web Applications Development using PHP& MYSQL	3	3	40	60	100		
		Web Applications Development using PHP& MYSQL Lab	2	1	10	40	50		
	14 A	Internet of Things	3	3	40	60	100		
		Internet of Things Lab	2	1	10	40	50		
	OR								
	14 B	Foundations of Data Science	3	3	40	60	100		
		Foundations of Data Science Lab	2	1	10	40	50		
	15 A	IoT Applications Development and Programming	3	3	40	60	100		
		IoT Applications Development and Programming Lab	2	1	10	40	50		
		OR							
	15 B	Application Development using Python	3	3	40	60	100		
		Application Development using Python Lab	2	1	10	40	50		
SEM-VI									
		FOURTH YEAR							
SEM-VII	16 A	Advanced Data Structures	3	3	40	60	100		
		Advanced Data Structures Lab	2	1	10	40	50		
		OR							
	16 B	Artificial Intelligence	3	3	40	60	100		
		Artificial Intelligence Lab	2	1	10	40	50		
	17 A	Computer Graphics	3	3	40	60	100		
		Computer Graphics Lab	2	1	10	40	50		
	OR								
	17 B	Design and Analysis of Algorithms	3	3	40	60	100		
		Design and Analysis of Algorithms Lab	2	1	10	40	50		
	18 A	Principles of Machine Learning	3	3	40	60	100		
		Principles of Machine Learning Lab	2	1	10	40	50		
		OR							
	18 B	Software Testing	3	3	40	60	100		
		Software Testing Lab	2	1	10	40	50		

SEM-VII (SEC)	19 A	Advanced Java Programming	3	3	40	60	100	
(SEC)		Advanced Java Programming Lab	2	1	10	40	50	
	OR							
	19 B	Mobile Application Development	3	3	40	60	100	
		Mobile Application Development Lab	2	1	10	40	50	
	20 A	MEAN Stack Development	3	3	40	60	100	
		MEAN Stack Development Lab	2	1	10	40	50	
	OR							
	20 B	R Programming	3	3	40	60	100	
		R Programming Lab	2	1	10	40	50	
SEM-VIII	21 A	Big Data Technologies	3	3	40	60	100	
		Big Data Technologies Lab	2	1	10	40	50	
		OR						
	21 B	Compiler Design	3	3	40	60	100	
		Compiler Design Lab	2	1	10	40	50	
	22 A	Data Mining Concepts & Techniques	3	3	40	60	100	
		Data Mining Concepts & Techniques	2	1	10	40	50	
	Lab OR							
	22 B	Digital Image Processing	3	3	40	60	100	
		Digital Image Processing Lab	2	1	10	40	50	
	23 A	Information Security and Cryptography	3	3	40	60	100	
		Information Security and Cryptography Lab	2	1	10	40	50	
	OR							
	23 B	Mobile ADHOC and Sensor Networks	3	3	40	60	100	
		Mobile ADHOC and Sensor Networks Lab	2	1	10	40	50	
SEM-VIII (SEC)	24 A	Advanced DBMS	3	3	40	60	100	
(520)		Advanced DBMS Lab	2	1	10	40	50	
	OR OR							
	24 B	Cloud Computing	3	3	40	60	100	
	25 A	Cloud Computing Lab Computer Vision	3	3	10 40	40 60	50 100	
	23 A							
		Computer Vision Lab OR	2	1	10	40	50	
	25 B	Digital Forensics	3	3	40	60	100	
		Digital Forensics Lab	2	1	10	40	50	
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