

VAAGESWARI COLLEGE OF ENGINEERING

UGC AUTONOMOUS

Accredited by NAAC with A+ Grade and ISO 9001:2015 Certified

Approved by AICTE New Delhi, Affiliated to JNTUH Hyderabad and Recognized by Govt. of Telangana

B.Tech. in COMPUTER SCIENCE AND ENGINEERING (DATA SCIENCE)

COURSE STRUCTURE & SYLLABUS (VR24 Regulations)

Applicable from AY 2023-24 Batch

I Year I Semester

S. No.	Course Code	Course Title	L	T	P	Credits
1.	24MA101BS	Matrices and Calculus	3	1	0	4
2.	24CH102BS	Engineering Chemistry	3	1	0	4
3.	24CS103ES	Programming for Problem Solving	3	0	0	3
4.	24EE104ES	Basic Electrical Engineering	2	0	0	2
5.	24ME105ES	Computer Aided Engineering Graphics	1	0	4	3
6.	24CS106ES	Elements of Computer Science & Engineering	0	0	2	1
7.	24CH107BS	Engineering Chemistry Laboratory	0	0	2	1
8.	24CS108ES	Programming for Problem Solving Laboratory	0	0	2	1
9.	24EE109ES	Basic Electrical Engineering Laboratory	0	0	2	1
		Induction Program				
Total			12	2	12	20

I Year II Semester

S. No.	Course Code	Course Title	L	T	P	Credits
1.	24MA201BS	Ordinary Differential Equations and Vector Calculus	3	1	0	4
2.	24PH202BS	Applied Physics	3	1	0	4
3.	24ME203ES	Engineering Workshop	0	1	3	2.5
4.	24EN204HS	English for Skill Enhancement	2	0	0	2
5.	24EC205ES	Electronic Devices and Circuits	2	0	0	2
6.	24CS206ES	Python Programming Laboratory	0	1	2	2
7.	24PH207BS	Applied Physics Laboratory	0	0	3	1.5
8.	24EN208HS	English Language and Communication Skills Laboratory	0	0	2	1
9.	24CS209ES	IT Workshop	0	0	2	1
10.	24MC210NC	Environmental Science	3	0	0	0
Total			13	4	12	20

II YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	24DS301PC	Digital Electronics	3	0	0	3
2	24DS302PC	Data Structures	3	0	0	3
3	24DS303PC	Computer Oriented Statistical Methods	3	1	0	4
4	24DS304PC	Computer Organization and Architecture	3	0	0	3
5	24DS305PC	Object Oriented Programming through Java	3	0	0	3
6	24DS306PC	Data Structures Lab	0	0	3	1.5
7	24DS307PC	Object Oriented Programming through Java Lab	0	0	3	1.5
8	24DS308PC	Data visualization- R Programming/ Power BI	0	0	2	1
9	24MC309NC	Gender Sensitization Lab	0	0	2	0
Total			15	1	10	20

II YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	24DS401PC	Discrete Mathematics	3	0	0	3
2	24SM402MS	Business Economics & Financial Analysis	3	0	0	3
3	24DS403PC	Operating Systems	3	0	0	3
4	24DS404PC	Database Management Systems	3	0	0	3
5	24DS405PC	Software Engineering	3	0	0	3
6	24DS406PC	Operating Systems Lab	0	0	2	1
7	24DS407PC	Database Management Systems Lab	0	0	2	1
8	24DS408PC	Real-time Research Project/ Societal Related Project	0	0	4	2
9	24DS409PC	Node JS/ React JS/ Django	0	0	2	1
10	24MC410NC	Constitution of India	3	0	0	0
Total			18	0	10	20