

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 (AI & ML)

COURSE STRUCTURE & SYLLABUS (R24 Regulations)

Applicable from AY 2024-25 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.	24PH102BS	Applied Physics	3	1	0	4
3.	24CS103ES	Programming for Problem Solving	3	0	0	3
4.	24ME104ES	Engineering Workshop	0	1	3	2.5
5.	24EN105HS	English for Skill Enhancement	2	0	0	2
6.	24CS106ES	Elements of Computer Science & Engineering	0	0	2	1
7.	24PH107BS	Applied Physics Laboratory	0	0	3	1.5
8.	24CS108ES	Programming for Problem Solving Laboratory	0	0	2	1
9.	24EN109HS	English Language and Communication Skills Laboratory	0	0	2	1
10.	24MC110NC	Environmental Science	3	0	0	0
		Induction Program				
		Total	14	3	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.	24CH202BS	Engineering Chemistry	3	1	0	4
3.	24ME203ES	Computer Aided Engineering Graphics	1	0	4	3
4.	24EE204ES	Basic Electrical Engineering	2	0	0	2
5.	24EC205ES	Electronic Devices and Circuits	2	0	0	2
6.	24CS206ES	Python Programming Laboratory	0	1	2	2
7.	24CH207BS	Engineering Chemistry Laboratory	0	0	2	1
8.	24EE208ES	Basic Electrical Engineering Laboratory	0	0	2	1
9.	24CS209ES	IT Workshop	0	0	2	1
		Total	11	3	12	20

II YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	24CS301PC	Mathematical and Statistical Foundations	3	1	0	4
2	24CS302PC	Data Structures	3	0	0	3
3	24CS303PC	Computer Organization and Architecture	3	0	0	3
4	24CS304PC	Software Engineering	3	0	0	3
5	24CS305PC	Operating Systems	3	0	0	3
6	24CS306PC	Introduction to Data Structures Lab	0	0	2	1
7	24CS307PC	Operating Systems Lab	0	0	2	1
8	24CS308PC	Software Engineering Lab	0	0	2	1
9	24CS309PC	Node JS/ React JS/ Django	0	0	2	1
	24MC310NC	Constitution of India	3	0	0	0
Total			18	0	10	20

II YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	24CS401PC	Discrete Mathematics	3	0	0	3
2	24CS402PC	Automata Theory and Compiler Design	3	0	0	3
3	24CS403PC	Database Management Systems	3	0	0	3
4	24CS404PC	Introduction to Artificial Intelligence	3	0	0	3
5	24CS405PC	Object Oriented Programming through Java	3	0	0	3
6	24CS406PC	Database Management Systems Lab	0	0	2	1
7	24CS407PC	Java Programming Lab	0	0	2	1
8	24CS408PC	Real-time Research Project/Field-Based Research Project	0	0	4	2
9	24CS409PC	Prolog/ Lisp/ Pyswip	0	0	2	1
10	24MC410NC	Gender Sensitization Lab	0	0	2	0
Total			15	0	12	20