

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 COURSE****STRUCTURE & SYLLABUS (VR24 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.	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	24CS301PC	Digital Electronics	3	0	0	3
2	24CS302PC	Data Structures	3	0	0	3
3	24CS303PC	Computer Oriented Statistical Methods	3	1	0	4
4	24CS304PC	Computer Organization and Architecture	3	0	0	3
5	24CS305PC	Object Oriented Programming through Java	3	0	0	3
6	24CS306PC	Data Structures Lab	0	0	3	1.5
7	24CS307PC	Object Oriented Programming through Java Lab	0	0	3	1.5
8	24CS308PC	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	24CS401PC	Discrete Mathematics	3	0	0	3
2	24SM402MS	Business Economics & Financial Analysis	3	0	0	3
3	24CS403PC	Operating Systems	3	0	0	3
4	24CS404PC	Database Management Systems	3	0	0	3
5	24CS405PC	Software Engineering	3	0	0	3
6	24CS406PC	Operating Systems Lab	0	0	2	1
7	24CS407PC	Database Management Systems Lab	0	0	2	1
8	24CS408PC	Real-time Research Project/ Societal Related Project	0	0	4	2
9	24CS409PC	Node JS/ React JS/ Django	0	0	2	1
10	24MC410NC	Constitution of India	3	0	0	0
Total			18	0	10	20

VAAGESWARI COLLEGE OF ENGINEERING

(AUTONOMOUS)

M.Tech. in COMPUTER SCIENCE AND ENGINEERING COURSE

Applicable from AY 2024-25 Batch

VR24 COURSE STRUCTURE AND SYLLABUS**I YEAR I – SEMESTER**

Course Code	Course Title	L	T	P	Credits
24D58C101	Mathematical Foundations of Computer Science	3	0	0	3
24D58C102	Advanced Data Structures	3	0	0	3
Professional Elective – I	24D58E103:Database Programming with PL/SQL 24D58E104:Deep Learning 24D58E105:Natural Language Processing	3	0	0	3
Professional Elective – II	24D58E106:Applied Cryptography 24D58E107:Software Quality Engineering 24D58E108:Mining Massive Datasets	3	0	0	3
24D58L109	Advanced Data Structures Lab	0	0	4	2
Professional Elective - I Lab	24D58L110:Database Programming with PL/SQL 24D58L111:Deep Learning 24D58L112:Natural Language Processing	0	0	4	2
24D58M113	Research Methodology & IPR	2	0	0	2
Audit Course- I	24D58N114:English for Research Paper Writing 24D58N115:Disaster Management 24D58N116:Sanskrit for Technical Knowledge 24D58N117:Value Education	2	0	0	0
	Total	16	0	8	18

I YEAR II – SEMESTER

Course Code	Course Title	L	T	P	Credits
24D58C201	Advanced Algorithms	3	0	0	3
24D58C202	Advanced Computer Architecture	3	0	0	3
Professional Elective – III	24D58E203:Enterprise Cloud Concepts 24D58E204:Advanced Computer Networks 24D58E205:Edge Analytics	3	0	0	3
Professional Elective –IV	24D58E206:Bioinformatics 24D58E207:Nature Inspired Computing 24D58E208:Robotic Process Automation	3	0	0	3
24D58L209	Advanced Algorithms Lab	0	0	4	2
Professional Elective - III Lab	24D58L210:Enterprise Cloud Concepts 24D58L211:Advanced Computer Networks 24D58L212:Edge Analytics	0	0	4	2
24D58M213	Mini Project with Seminar	0	0	4	2
Audit Course- II	24D58N214:Constitution of India 24D58N215:Pedagogy Studies 24D58N216:Stress Management by yoga 24D58N217:Personality Development Through Life Enlightenment Skills	2	0	0	0
	Total	14	0	12	18

Course Code	Course Title	L	T	P	Credits
Professional Elective – V	24D58E301:Digital Forensics 24D58E302:High Performance Computing 24D58E303:Quantum Computing	3	0	0	3
Open Elective	Open Electives for other Departments: 24D58O304:IPR 24D58O305:Fault Tolerance Systems 24D58O306:Intrusion Detection Systems 24D58O307:Digital Forensics 24D58O308:Optimization Techniques 24D58O309:Cyber Physical Systems 24D58O310:Graph Analytics	3	0	0	3
24D58P311	Dissertation Work Review - II	0	0	12	6
	Total	6	0	12	12

II YEAR II - SEMESTER

Course Code	Course Title	L	T	P	Credits
24D58P401	Dissertation Work Review - III	0	0	12	6
24D58P402	Dissertation Viva-Voce	0	0	28	14
	Total	0	0	40	20









