

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 ELECTRONICS AND COMMUNICATION 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.	24PH102BS	Applied Physics	3	1	0	4
3.	24EC103ES	C Programming for Engineers	3	0	0	3
4.	24ME104ES	Engineering Workshop	0	1	3	2.5
5.	24EN105HS	English for Skill Enhancement	2	0	0	2
6.	24EC106ES	Elements of Electronics and Communication Engineering	0	0	2	1
7.	24PH107BS	Applied Physics Laboratory	0	0	3	1.5
8.	24EC108ES	C Programming for Engineers 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 Programme				
Total Credits			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.	24EC206ES	Applied 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.	24EC209ES	Electronic Devices and Circuits Laboratory	0	0	2	1
Total Credits			11	3	12	20

II YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	24MA301BS	Numerical Methods and Complex Variables	3	1	0	4
2	24EC302PC	Analog Circuits	3	0	0	3
3	24EC303PC	Network analysis and Synthesis	3	0	0	3
4	24EC304PC	Digital Logic Design	3	0	0	3
5	24EC305PC	Signals and Systems	3	1	0	4
6	24EC306PC	Analog Circuits Laboratory	0	0	2	1
7	24EC307PC	Digital logic Design Laboratory	0	0	2	1
8	24EC308PC	Basic Simulation Laboratory	0	0	2	1
9	*24MC309NC	Constitution of India	3	0	0	0
Total Credits			18	2	6	20

II YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	24EC401PC	Probability Theory and Stochastic Processes	3	0	0	3
2	24EC402PC	Electromagnetic Fields and Transmission Lines	3	0	0	3
3	24EC403PC	Analog and Digital Communications	3	0	0	3
4	24EC404PC	Linear and Digital IC Applications	3	0	0	3
5	24EC405PC	Electronic Circuit Analysis	3	0	0	3
6	24EC406PC	Analog and Digital Communications Laboratory	0	0	2	1
7	24EC407PC	Linear and Digital IC Applications Laboratory	0	0	2	1
8	24EC408PC	Electronic Circuit Analysis Laboratory	0	0	2	1
9	24EC409PC	Real Time Project/ Field Based Project	0	0	4	2
10	*24MC410NC	Gender Sensitization Lab	0	0	2	0
Total Credits			15	0	12	20

*MC – Satisfactory/Unsatisfactory