



Vidya Jyothi Institute of Technology

(An Autonomous Institution)

(Accredited by NAAC & NBA, Approved by AICTE New Delhi & Permanently Affiliated to JNTUH)
Aziznagar Gate, C.B. Post, Hyderabad-500 075

Institution integrates cross cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum-R18

a. CIVIL ENGINEERING

II YEAR I SEMESTER

Subject Code	Subject Name	L	T	P/D	Total Credits
A23009	Numerical Methods & Partial Differential Equations	3	0	0	3.0
A23101	Fluid Mechanics	3	0	0	3.0
A23102	Solid Mechanics – I	4	0	3	4.0
A23103	Engineering Geology	3	0	0	3.0
A23104	Surveying & Geomatics	3	0	2	3.0
A23010	Professional Communications	2	0	0	2.0
A23181	Surveying & Geomatics Lab	0	0	2	1.0
A23182	Engineering Geology Lab	0	0	2	1.0
A23MC1	Environmental Science	2	0	0	-
Total Number of Credits					20

II YEAR II SEMESTER

Subject Code	Subject Name	L	T	P/D	Total Credits
A24013	Probability & Statistics	3	0	0	3.0
A24207	Principle of Electrical Engineering	3	0	0	3.0
A24105	Solid Mechanics-II	3	0	0	3.0
A24106	Environmental Engineering	3	0	0	3.0
A24107	Structural Analysis	3	0	0	3.0
A24108	Building Materials and Construction	3	0	0	3.0
A24183	Environmental Engineering Lab	0	0	2	1.0
A24184	Solid Mechanics Lab	0	0	2	1.0
A24MC1	Gender Sensitization	2	0	0	-
Total					20

III YEAR I SEMESTER

S.No.	Course Code	Category	Course Title	L	T	P	C
1	A25016	H&S-2	Managerial Economics and Financial Analysis	3	0	0	3
2	A25110	PC – 8	Design of Reinforced Concrete Structures	3	1	0	3
3	A25111	PC – 9	Geotechnical Engineering	3	1	0	3
4	A25112	PC – 10	Concrete Technology	3	1	0	3
5	A25113	PE – 1	1. Advanced Structural Analysis	3	1	0	3
	A25114		2. Building planning & Drawing				
	A25115		3. Air Pollution and Control Methods				
6	A25116	OE – 1	1. Smart Cities	3	0	0	3
	A25117						
7	A25185	ES Lab –	CAD Lab.	0	0	3	1
8	A25087	H&S Lab.	Advance Communication Skills Lab	0	0	3	1
9	A25TP1	ES – 2	Quantitative Methods & Logical Reasoning	2	0	0	1
Total number of Credits							21

III YEAR II SEMESTER

S.No.	Course Code	Category	Course Title	L	T	P	C
1	A26118	PC - 11	Foundation Engineering	3	1	0	3
2	A26119	PC – 12	Design of Steel Structures	3	1	0	3
3	A26120	PC – 13	Hydraulics & Hydraulic Machinery	3	0	0	3
4	A26121	PC – 14	Water Resources Engineering	3	1	0	3
5	A26122	PE – 2	1. Construction Engineering Management	3	1	0	3
	A26123		2. Ground Improvement Techniques				
	A26124		3. Finite Element Method				
6	A26125	OE – 2	1. Green Building Technologies	3	0	0	3
	A26126		2. Environmental Pollution & Control Methods				
7	A26186	PC Lab –	Geotechnical Engineering Lab	0	0	3	1
8	A26187	PC Lab –	Fluid Mechanics & Hydraulic Machinery Lab	0	0	3	1
9	A26TP1	H&S-3	Personality Development & Behavioural Skills	2	0	0	1
Total number of Credits							21

b. ELECTRICAL AND ELECTRONICS ENGINEERING

II YEAR I SEMESTER

S.No.	Course Code	Course Title	L	T	P/D	Credits
1	A23011	Complex Analysis & Fourier Transforms	3	-	-	3.0
2	A23010	Professional Communication	2	-	-	2.0
3	A23203	Power Systems –I	3	-	-	3.0
4	A23204	Network Analysis	3	-	-	3.0
5	A23205	ElectroMagnetic Fields	3	-	-	3.0
6	A23206	Electrical Machines –I	4	-	-	4.0
7	A23283	Basic Simulation Tools Lab	0	-	2	1.0
8	A23284	Electric Circuits Lab	0	-	2	1.0
9	A23MC1	Environmental Science	2	-	-	-
TOTAL CREDITS						20

II YEAR II SEMESTER

S.No.	Course Code	Course Title	L	T	P/D	Credits
1	A24014	Numerical Methods and Partial Differential Equations	3			3.0
2	A24109	Fluid Mechanics and Hydraulic Machines	3	-	-	3.0
3	A24406	Electronics Devices and Circuits	3	-	-	3.0
4	A24208	Electrical Machines –II	3	-	-	3.0
5	A24209	Power Systems –II	3	-	-	3.0
6	A24210	Control Systems	3	-	-	3.0
7	A24285	Electrical Machines –I Lab	0	-	2	1.0
8	A24484	Electronic Devices and Circuits Lab	0	-	2	1.0
9	A24MC1	Gender Sensitization	2	-	-	-
TOTAL CREDITS						20

III YEAR I SEMESTER

S.No.	Course Code	CourseTitle	L	T	P	Credits
1	A25016	ManagerialEconomicsandFinancialAnalysis	3	0	0	3
2	A25412	SwitchingTheoryandLogicDesign	3	0	0	3
3	A25212	ElectricalMachines-III	3	0	0	3
4	A25213	PowerElectronics	3	0	0	3
5	A25214/ A25215	Electrical Energy Conservation and Auditing/ElectricalEstimation andCosting	3	0	0	3
6	A25216/ A25217	Non- ConventionalEnergySources/Fundamentals of Electrical Power Generation andProtection	3	0	0	3
7	A25287	ElectricalMachines-IIILab	0	0	2	1
8	A25087	AdvancedCommunicationSkillsLab	0	0	2	1
9	A25TP1	QuantitativeMethods&LogicalReasoning	2	0	0	1
TOTALCR EDITS						21

III YEAR II SEMESTER

S.No.	Course Code	CourseTitle	L	T	P	Credits
1	A26219	ElectricalMeasurements&Instrumentation	3	0	0	3
2	A26220	ComputerMethodsInPowerSystems	3	0	0	3
3	A26221	PowerSemiconductorDrives	3	0	0	3
4	A26222	SwitchGearand Protection	3	0	0	3
5	A26223/ A26224	Integrated Circuit and Applications/ ArtificialIntelligenceTechniquesin ElectricalEngineering	3	0	0	3
6	A26225/ A26226	EnergyAuditingand Conservation/ Principles of ElectricPowerUtilizati on	3	0	0	3
7	A26288	ControlSystemsandSimulation Lab	0	0	2	1
8	A26289	PowerElectronicsandSimulationLab	0	0	2	1
9	A26TP1	PersonalityDevelopment&BehavioralSkills	2	0	0	1
TOTALCRE DITS						21

c. MECHANICAL ENGINEERING

II YEAR I SEMESTER

Subject Code	Subject Name	L	T	P/D	Total Credits
A23009	Numerical Methods & Partial Differential Equations	3	-	-	3.0
A23304	Materials Technology	3	-	-	3.0
A23305	Mechanics of Solids	4	-	-	4.0
A23306	Thermodynamics	3	-	-	3.0
A23010	Professional Communications	3	-	-	2.0
A23307	Production Technology	3	-	-	3.0
A23383	Metallurgy and Mechanics of Solids Lab	0	-	2	1.0
A23384	Production Technology Lab	0	-	2	1.0
A23MC1	Environmental Science	2	-	-	-
Total No.of Credits		21	-	4	20

II YEAR II SEMESTER

Subject Code	Subject Name	L	T	P/D	Total Credits
A24013	Probability and Statistics	3	-	-	3.0
A24211	Basic Electrical Engineering	3	-	-	3.0
A24308	Machine Drawing & Drafting	3	-	-	3.0
A24309	Kinematics of Machines	3	-	-	3.0
A24310	Thermal Engineering	3	-	-	3.0
A24311	Mechanics of Fluids and Hydraulic Machines	3	-	-	3.0
A24385	Mechanics of Fluids and Hydraulic Machines Lab	0	-	2	1.0
A24286	Basic Electrical Engineering Lab	0	-	2	1.0
A24MC1	Gender Sensitization	2	-	-	-
Total No.of Credits		20	-	4	20

d. ELECTRONICS AND COMMUNICATION ENGINEERING

II YEAR I SEMESTER

Subject Code	Subject Name	L	T	P/D	Total Credits
A23011	Mathematics-III (Complex Analysis and Fourier Transforms)	3	-	-	3
A23503	OOPS Through JAVA	3	-	-	3
A23401	Electronic Devices and Circuits	3	-	-	3
A23402	Probability Theory and Stochastic Processes	3	-	-	3
A23403	Signals and Systems	3	-	-	3
A23404	Network Analysis and Transmission Lines	3	-	-	3
A23481	Electronic Devices and Circuits Laboratory	-	-	2	1
A23482	Basic Simulation Laboratory	-	-	2	1
A23MC2	Gender Sensitization	2	-	-	-
Total number of Credits					20

II YEAR II SEMESTER

Subject Code	Subject Name	L	T	P/D	Total Credits
A24407	Switching Theory and Logic Design	3	-	-	3
A24408	Electrical Technology	3	-	-	3
A24015	Professional Communications	2	-	-	2
A24409	Analog and Digital Communications	4	-	-	4
A24410	Analog and Pulse Circuits	3	-	-	3
A24411	Electromagnetic Waves	3	-	-	3
A24485	Analog & Digital Communications Laboratory	-	-	2	1
A24486	Analog and Pulse Circuits Laboratory	-	-	2	1
A24MC2	Environmental Science	2	-	-	-
Total number of Credits					20

e. COMPUTER SCIENCE AND ENGINEERING

II YEAR I SEMESTER

Subject Code	Subject Name	L	T	P/D	Total Credits
A23012	Probability and Statistics	3	0	0	3
A23405	Digital Logic Design	3	0	0	3
A23401	Electronic Devices & Circuits	3	0	0	3
A23504	Data Structures	3	0	0	3
A23505	Mathematical Foundations of Computer Science	3	0	0	3
A23506	Python Programming	3	0	0	3
A23583	Data Structures & Python Programming Lab	0	0	2	2
A23483	Digital Logic Design and Electronic Devices & Circuits Lab	0	0	2	2
A23MC2	Gender Sensitization/Cyber Laws	2	0	0	--
Total number of Credits					20

II YEAR II SEMESTER

Subject Code	Subject Name	L	T	P/D	Total Credits
A24507	Design and Analysis of Algorithms	4	0	0	4
A24508	Computer Organization	3	0	0	3
A24509	Java Programming	3	0	0	3
A24510	Software Engineering	3	0	0	3
A24511	Database Management Systems	3	0	0	3
A24015	Professional Communications	2	0	0	2
A24584	Java Programming Lab	0	0	2	1
A24585	Database Management Systems lab	0	0	2	1
A24MC2	Environmental Science	2	0	0	-
Total number of Credits					20

f. Information Technology

II YEAR I SEMESTER

Subject Code	SubjectName	L	T	P/D	Total Credits
A23012	ProbabilityandStatistics	3	0	0	3
A23405	DigitalLogicDesign	3	0	0	3
A23401	ElectronicDevices&Circuits	3	0	0	3
A23504	DataStructures	3	0	0	3
A23505	MathematicalFoundationsofComputerScience	3	0	0	3
A23506	PythonProgramming	3	0	0	3
A23583	DataStructures&PythonProgrammingLab	0	0	2	2
A23483	DigitalLogicDesignandElectronicDevices&CircuitsLab	0	0	2	2
A23MC2	GenderSensitization/ Cyber Laws	2	0	0	-
TOTALCREDITS					20

II YEAR II SEMESTER

SubjectCode	SubjectName	L	T	P/D	TotalCredits
A24507	DesignandAnalysisofAlgorithms	4	0	0	4
A24508	ComputerOrganization	3	0	0	3
A24509	JavaProgramming	3	0	0	3
A24510	SoftwareEngineering	3	0	0	3
A24511	DatabaseManagementSystems	3	0	0	3
A24015	ProfessionalCommunications	2	0	0	2
A24584	JavaProgrammingLab	0	0	2	1
A24585	DatabaseManagementSystemslab	0	0	2	1
A24MC2	EnvironmentalScience	2	0	0	-
TOTALCREDITS					20