

SESHADRI RAO GUDLAVALLERU ENGINEERING COLLEGE

(An Autonomous Institute with Permanent Affiliation to JNTUK, Kakinada)

Seshadri Rao Knowledge Village, GUDLAVALLERU-521 356, Krishna District, A.P., India

(Approved by AICTE, New Delhi and Permitted by A.P. State Government)

Accredited by NAAC

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M.S., M.Tech., Ph.D.,

MISTE, MIETE, MIE, MCSI, MISRS, MIAPR, MCRSI

Principal 1.1.3: *List of courses having focus on employability/entrepreneurship/ skill development offered by the institution during the academic year 2017 - 2018.*

S. No	Name of The Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
1.	Computer Aided Drafting lab	CE2502	B. Tech-CE	Skill Development
2.	Linear Algebra and Differential Equations	MA2501	B. Tech-CE	Employability
3.	Integral Transforms and Multiple integrals	MA2503	B. Tech-CE	Employability
4.	Engineering Physics	PH2501	B. Tech-CE	Employability
5.	Engineering Physics Lab	PH2503	B. Tech-CE	Skill Development
6.	Engineering Chemistry	CH2501	B. Tech-CE	Employability
7.	Engineering Chemistry Lab	CH2502	B. Tech-CE	Skill Development
8.	Engineer and Society	EN2502	B. Tech-CE	Entrepreneurship
9.	Problem solving using C	CT2501	B. Tech-CE	Employability
10.	Engineering Drawing	ME2501	B. Tech-CE	Skill Development
11.	Engineering Mechanics	CE2501	B. Tech-CE	Employability
12.	Applied Mechanics Lab and Building Trade Practice	CE2502	B. Tech-CE	Skill Development
13.	Elements of Electrical Circuits	EE2507	B. Tech-EEE	Employability
14.	Elements of Mechanical Engineering	ME2503	B. Tech-EEE	Employability
15.	Linear Algebra and Differential Equations	MA2501	B. Tech-EEE	Employability
16.	Integral transforms and Vector Calculus	MA2504	B. Tech-EEE	Employability
17.	Solid State Physics	PH2504	B. Tech-EEE	Employability
18.	Solid State Physics Lab	PH2505	B. Tech-EEE	Skill Development
19.	Applied Chemistry	CH2503	B. Tech-EEE	Employability
20.	Engineer and Society	EN2502	B. Tech-EEE	Entrepreneurship
21.	Problem Solving using C	CT2501	B. Tech-EEE	Employability

(Sponsored by A.A.N.M. & V.V.R.S.R. Educational Society, Gudlavalleru)

S. No	Name of The Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
21.	Problem Solving using C	CT2501	B. Tech-EEE	Employability
22.	Engineering Drawing	ME2501	B. Tech-EEE	Skill Development
23.	Engineering Graphics	ME2505	B. Tech-ME	Employability
24.	Linear Algebra and Differential Equations	MA2501	B. Tech-ME	Employability
25.	Integral Transforms and Multiple integrals	MA2503	B. Tech-ME	Employability
26.	Engineering Physics Lab	PH2503	B. Tech-ME	Skill Development
27.	Physics for Engineers	PH2502	B. Tech-ME	Employability
28.	Industrial Chemistry	CH2505	B. Tech-ME	Employability
29.	Industrial Chemistry Lab & Engg. Mechanics Lab	ME2508	B. Tech-ME	Skill Development
30.	Engineer and Society	EN2502	B. Tech-ME	Entrepreneurship
31.	Problem Solving Using C	CT2501	B. Tech-ME	Employability
32.	Engineering Mechanics	CE2501	B. Tech-ME	Employability
33.	Computer Aided Engineering Drawing	ME2506	B. Tech-ME	Skill Development
34.	Engineering Workshop	ME2507	B. Tech-ME	Skill Development
35.	Problem Solving Through Computer Programming	CT2502	B. Tech-ECE	Employability
36.	Computer Programming Lab	CT2503	B. Tech-ECE	Skill Development
37.	Linear Electrical Networks	EE2504	B. Tech-ECE	Employability
38.	Linear Algebra and Differential Equations	MA2501	B. Tech-ECE	Employability
39.	Integral transforms and Vector Calculus	MA2504	B. Tech-ECE	Employability
40.	Numerical Methods & Complex Analysis	MA2505	B. Tech-ECE	Employability
41.	Solid State Physics	PH2504	B. Tech-ECE	Employability
42.	Solid State Physics Lab	PH2505	B. Tech-ECE	Skill Development
43.	Applied Chemistry	CH2503	B. Tech-ECE	Employability
44.	Engineer and Society	EN2502	B. Tech-ECE	Entrepreneurship
45.	Problem Solving through Computer Programming	CT2502	B. Tech-CSE	Employability
46.	Computer Programming Lab	CT2503	B. Tech-CSE	Skill Development
47.	Python Programming	CT2504	B. Tech-CSE	Employability

S. No	Name of The Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
48.	Linear Algebra and Integral Transforms	MA2502	B. Tech-CSE	Employability
49.	Numerical Methods and Differential Equations	MA2506	B. Tech-CSE	Employability
50.	Applied Physics	PH2506	B. Tech-CSE	Employability
51.	Applied Physics Lab	PH2507	B. Tech-CSE	Skill Development
52.	Engineer and Society	EN2502	B. Tech-CSE	Entrepreneurship
53.	Chemistry	CH2506	B. Tech-IT	Employability
54.	Problem Solving through Computer Programming	CT2502	B. Tech-IT	Employability
55.	Computer Programming Lab	CT2503	B. Tech-IT	Skill Development
56.	Elements of Electronics Engineering	EC2501	B. Tech-IT	Employability
57.	Python Programming	CT2504	B. Tech-IT	Employability
58.	Elements of Electronics Engineering Lab	EC2502	B. Tech-IT	Skill Development
59.	Linear Algebra and Integral Transforms	MA2502	B. Tech-IT	Employability
60.	Numerical Methods and Differential Equations	MA2506	B. Tech-IT	Employability
61.	Applied Physics	PH2506	B. Tech-IT	Employability
62.	Applied Physics Lab	PH2507	B. Tech-IT	Skill Development
63.	Engineer and Society	EN2502	B. Tech-IT	Entrepreneurship
64.	Mechanics of Solids-I	CE1503	B. Tech-CE	Employability
65.	Engineering Geology and GIS Applications	CE1506	B. Tech-CE	Employability
66.	Engineering Geology Lab	CE1509	B. Tech-CE	Skill Development
67.	Mechanics of Solids-II	CE1510	B. Tech-CE	Employability
68.	Geotechnical Engineering -I	CE1513	B. Tech-CE	Employability
69.	Water Resources Engineering -I	CE1514	B. Tech-CE	Employability
70.	Advanced surveying and GIS lab	CE1517	B. Tech-CE	Skill Development
71.	Water Resources Engineering -II	CE1520	B. Tech-CE	Employability
72.	Concrete Technology Lab	CE1524	B. Tech-CE	Skill Development
73.	Fluid Mechanics and Hydraulic Machines Lab	CE1526	B. Tech-CE	Skill Development
74.	Prestressed Concrete	CE1530	B. Tech-CE	Employability

S. No	Name of The Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
75.	Structural Dynamics	CE1531	B. Tech-CE	Employability
76.	Project Management	CE1532	B. Tech-CE	Employability
77.	Ground Improvement Techniques	CE1533	B. Tech-CE	Employability
78.	Environmental engineering lab	CE1536	B. Tech-CE	Skill Development
79.	Mini Project/ Survey Camp	CE1538	B. Tech-CE	Skill Development
80.	Managerial Economics and Financial Analysis	BA1502	B. Tech-CE	Entrepreneurship
81.	Finite Element Method	CE1540	B. Tech-CE	Employability
82.	Advanced Structural Analysis	CE1541	B. Tech-CE	Employability
83.	Advanced Environmental Engineering	CE1542	B. Tech-CE	Employability
84.	Design And Drawing of Irrigation Structures	CE1543	B. Tech-CE	Employability
85.	Design of Industrial Structures	CE1544	B. Tech-CE	Employability
86.	Air Pollution and its Control	CE1545	B. Tech-CE	Employability
87.	Architecture and Town planning	CE1547	B. Tech-CE	Employability
88.	Building services	CE1548	B. Tech-CE	Employability
89.	Structural Engineering lab	CE1549	B. Tech-CE	Skill Development
90.	Transportation Engineering Lab	CE1550	B. Tech-CE	Skill Development
91.	Computer Applications in Civil Engineering Lab	CE1551	B. Tech-CE	Skill Development
92.	Advanced Concrete structures	CE1552	B. Tech-CE	Employability
93.	Docks and Harbour Engineering	CE1555	B. Tech-CE	Employability
94.	Industrial Waste Management	CE1557	B. Tech-CE	Employability
95.	Industrial/Practical Training	CE1562	B. Tech-CE	Skill Development
96.	Global Positioning Systems	CE1560	B. Tech-CE	Employability
97.	Remote Sensing and GIS Techniques	CE1522	B. Tech-CE	Employability
98.	Elements of civil Engineering	CE1523	B. Tech-CE	Employability
99.	Modelling and Simulation of Engineering Systems	EE1522	B. Tech-CE	Employability
100.	Renewable Energy Sources	ME1525	B. Tech-CE	Employability
101.	Elements of Mechanical Engineering	ME1526	B. Tech-CE	Employability
102.	Computer Networks	CS1507	B. Tech-CE	Employability
103.	Object Oriented Programming	CT1506	B. Tech-CE	Employability

S. No	Name of The Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
104.	Data Structures using C	CS1501	B. Tech-CE	Employability
105.	Cyber Laws	CS1508	B. Tech-CE	Employability
106.	Open Source Software	IT1505	B. Tech-CE	Employability
107.	Fundamentals of Data Base Management Systems	IT1506	B. Tech-CE	Employability
108.	Fuzzy Mathematics	MA1507	B. Tech-CE	Employability
109.	Disaster Management	CE1534	B. Tech-CE	Employability
110.	Solid Waste Management	CE1535	B. Tech-CE	Employability
111.	Material Science	ME1535	B. Tech-CE	Employability
112.	Automotive Electronics	EC1540	B. Tech-CE	Employability
113.	Introduction to MPMC	EC1541	B. Tech-CE	Employability
114.	Cloud Computing	CT1525	B. Tech-CE	Employability
115.	Web Technologies	CS1511	B. Tech-CE	Employability
116.	Virtual Reality	CS1513	B. Tech-CE	Employability
117.	Scripting Languages	IT1510	B. Tech-CE	Employability
118.	Big Data	IT1511	B. Tech-CE	Employability
119.	Multi-variant analysis and Special Functions	MA1509	B. Tech-CE	Employability
120.	Statistical Methods using R Software	MA1510	B. Tech-CE	Employability
121.	Semiconductor Devices and Circuits	EC1502	B. Tech-EEE	Employability
122.	Circuit Theory-II	EE1512	B. Tech-EEE	Employability
123.	Employability Skills	EG1505	B. Tech-EEE	Employability
124.	Fluid Mechanics & Hydraulic Machines Lab	ME1505	B. Tech-EEE	Skill Development
125.	Networks Lab	EE1515	B. Tech-EEE	Skill Development
126.	Digital Circuits	EC1515	B. Tech-EEE	Employability
127.	Electrical Measurements & Instrumentation	EE1518	B. Tech-EEE	Employability
128.	Semiconductor Devices and Circuits Lab	EC1505	B. Tech-EEE	Skill Development
129.	Signals and Systems	EC1516	B. Tech-EEE	Employability
130.	Pulse and Integrated Circuits	EC1506	B. Tech-EEE	Employability
131.	Electrical Measurements & Instrumentation Lab	EE1523	B. Tech-EEE	Skill Development

S. No	Name of The Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
132.	Mini Project	EE1525	B. Tech-EEE	Skill Development
133.	Data Structures using C	CS1501	B. Tech-EEE	Employability
134.	Integrated Circuits and PDC Lab	EC1501	B. Tech-EEE	Skill Development
135.	Power Electronics and Drives Lab	EE1532	B. Tech-EEE	Skill Development
136.	Remote Sensing and GIS Techniques	CE1522	B. Tech-EEE	Employability
137.	Elements of civil Engineering	CE1523	B. Tech-EEE	Employability
138.	Modelling and Simulation of Engineering Systems	EE1522	B. Tech-EEE	Employability
139.	Renewable Energy Sources	ME1525	B. Tech-EEE	Employability
140.	Elements of Mechanical Engineering	ME1526	B. Tech-EEE	Employability
141.	Computer Networks	CS1507	B. Tech-EEE	Employability
142.	Object Oriented Programming	CT1506	B. Tech-EEE	Employability
143.	Cyber Laws	CS1508	B. Tech-EEE	Employability
144.	Open Source Software	IT1505	B. Tech-EEE	Employability
145.	Fundamentals of Data Base Management Systems	IT1506	B. Tech-EEE	Employability
146.	Fuzzy Mathematics	MA1507	B. Tech-EEE	Employability
147.	Disaster Management	CE1534	B. Tech-EEE	Employability
148.	Solid Waste Management	CE1535	B. Tech-EEE	Employability
149.	Material Science	ME1535	B. Tech-EEE	Employability
150.	Automotive Electronics	EC1540	B. Tech-EEE	Employability
151.	Introduction to MPMC	EC1541	B. Tech-EEE	Employability
152.	Cloud Computing	CT1525	B. Tech-EEE	Employability
153.	Web Technologies	CS1511	B. Tech-EEE	Employability
154.	Virtual Reality	CS1513	B. Tech-EEE	Employability
155.	Scripting Languages	IT1510	B. Tech-EEE	Employability
156.	Big Data	IT1511	B. Tech-EEE	Employability
157.	Multi-variant analysis and Special Functions	MA1509	B. Tech-EEE	Employability
158.	HVDC Transmission Systems	EE1537	B. Tech-EEE	Employability
159.	Electrical Machine Design	EE1539	B. Tech-EEE	Employability
160.	Programmable Logic Controller	EE1540	B. Tech-EEE	Employability
161.	Computer Organization & Architecture	CS1505	B. Tech-EEE	Employability

S. No	Name of The Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
162.	Electrical Costing & Estimation	EE1546	B. Tech-EEE	Employability
163.	Modelling and Analysis of Electrical Machines	EE1547	B. Tech-EEE	Employability
164.	High Voltage Engineering	EE1548	B. Tech-EEE	Employability
165.	EHV AC/ DC Transmission Systems	EE1551	B. Tech-EEE	Employability
166.	Power Plant Instrumentation	EE1552	B. Tech-EEE	Employability
167.	Electrical Safety Management	EE1553	B. Tech-EEE	Employability
168.	Industrial/ Practical Training	EE1554	B. Tech-EEE	Skill Development
169.	Statistical Methods using R Software	MA1510	B. Tech-EEE	Employability
170.	Microprocessor and Microcontrollers Lab	EC1512	B. Tech-EEE	Skill Development
171.	Electrical Systems simulation Lab	EE1544	B. Tech-EEE	Skill Development
172.	Power Systems Lab	EE1545	B. Tech-EEE	Skill Development
173.	Electrical & Electronics Engineering	EE1501	B. Tech-ME	Employability
174.	Kinematics of Machines	ME1508	B. Tech-ME	Employability
175.	Engineering Thermodynamics	ME1510	B. Tech-ME	Employability
176.	Material Science & Metallurgy	ME1511	B. Tech-ME	Employability
177.	Electrical & Electronics Engineering Lab	EE1502	B. Tech-ME	Skill Development
178.	Industrial Engineering & Management	ME1512	B. Tech-ME	Employability
179.	Dynamics of Machines	ME1513	B. Tech-ME	Employability
180.	Fluid Mechanics	ME1514	B. Tech-ME	Employability
181.	Manufacturing Processes	ME1515	B. Tech-ME	Employability
182.	Machine Dynamics Lab and Fuels & Lubricants Lab	ME1519	B. Tech-ME	Skill Development
183.	Hydraulic Machines and Systems	ME1521	B. Tech-ME	Employability
184.	Principles of Machine Design	ME1522	B. Tech-ME	Employability
185.	Thermal Engineering Lab	ME1528	B. Tech-ME	Skill Development
186.	Fluid Mechanics and Hydraulic Machines Lab	ME1537	B. Tech-ME	Skill Development
187.	Design of Mechanical Components	ME1530	B. Tech-ME	Employability

S. No	Name of The Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
188.	Operations Research	MA1508	B. Tech-ME	Employability
189.	Metrology and Instrumentation	ME1531	B. Tech-ME	Employability
190.	Computer Aided Modelling Lab	ME1538	B. Tech-ME	Skill Development
191.	Mini Project	ME1538	B. Tech-ME	Skill Development
192.	Automobile Engineering	ME1532	B. Tech-ME	Employability
193.	Finite Element Methods	ME1533	B. Tech-ME	Employability
194.	Unconventional Machining Processes	ME1534	B. Tech-ME	Employability
195.	Control Systems	EE1503	B. Tech-ME	Employability
196.	Disaster Management	CE1534	B. Tech-ME	Employability
197.	Solid Waste Management	CE1535	B. Tech-ME	Employability
198.	Energy Audit, Conservation and Management	EE1531	B. Tech-ME	Employability
199.	Material Science	ME1535	B. Tech-ME	Employability
200.	Automotive Electronics	EC1540	B. Tech-ME	Employability
201.	Introduction to MP&MC	EC1541	B. Tech-ME	Employability
202.	Cloud Computing	CT1525	B. Tech-ME	Employability
203.	Web Technologies	CS1511	B. Tech-ME	Employability
204.	Virtual Reality	CS1513	B. Tech-ME	Employability
205.	Scripting Languages	IT1510	B. Tech-ME	Employability
206.	Big Data	IT1511	B. Tech-ME	Employability
207.	Multi-variant analysis and Special Functions	CS1502	B. Tech-ME	Employability
208.	Remote Sensing and GIS Techniques	CE1522	B. Tech-ME	Employability
209.	Elements of Civil Engineering	CE1523	B. Tech-ME	Employability
210.	Modelling and Simulation of Engineering Systems	EE1522	B. Tech-ME	Employability
211.	Renewable Energy Sources	ME1525	B. Tech-ME	Employability
212.	Elements of Mechanical Engineering	ME1526	B. Tech-ME	Employability
213.	Computer Networks	CS1507	B. Tech-ME	Employability
214.	Object Oriented Programming	CT1506	B. Tech-ME	Employability
215.	Data Structures Using C	CS1501	B. Tech-ME	Employability
216.	Cyber Laws	CS1508	B. Tech-ME	Employability

S. No	Name of The Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
217.	Open Source Software	IT1505	B. Tech-ME	Employability
218.	Fundamentals of Data Base Management Systems	IT1506	B. Tech-ME	Employability
219.	Fuzzy Mathematics	MA1507	B. Tech-ME	Employability
220.	Heat Transfer	ME1540	B. Tech-ME	Employability
221.	CAD / CAM Lab	ME1549	B. Tech-ME	Skill Development
222.	Heat Transfer Lab	ME1550	B. Tech-ME	Skill Development
223.	Computational Methods for Engineers Lab	ME1551	B. Tech-ME	Skill Development
224.	Computational Fluid Dynamics	ME1541	B. Tech-ME	Employability
225.	Robotics	ME1542	B. Tech-ME	Employability
226.	Interactive Computer Graphics	ME1543	B. Tech-ME	Employability
227.	Mechanical Vibrations	ME1544	B. Tech-ME	Employability
228.	Production Planning and Control	ME1545	B. Tech-ME	Employability
229.	Tribology	ME1546	B. Tech-ME	Employability
230.	Refrigeration & Air Conditioning	ME1547	B. Tech-ME	Employability
231.	Fracture Mechanics	ME1548	B. Tech-ME	Employability
232.	Condition Monitoring	ME1553	B. Tech-ME	Employability
233.	Rapid Prototyping	ME1554	B. Tech-ME	Employability
234.	Design for Manufacturing & Assembly	ME1555	B. Tech-ME	Employability
235.	Supply Chain Management	ME1559	B. Tech-ME	Employability
236.	Statistical Methods using R Software	MA1510	B. Tech-ME	Employability
237.	Internet of Things	EC1567	B. Tech-ME	Employability
238.	Consumer Electronics	EC1568	B. Tech-ME	Employability
239.	Industrial/Practical Training	ME1562	B. Tech-ME	Skill Development
240.	Electrical Technology	EE1505	B. Tech-ECE	Employability
241.	Electronic Devices and Circuits	EC1514	B. Tech-ECE	Employability
242.	Digital Circuits	EC1515	B. Tech-ECE	Employability
243.	Signals and Systems	EC1516	B. Tech-ECE	Employability
244.	Electromagnetic Filed Theory	EC1517	B. Tech-ECE	Employability
245.	Probability Theory and Random Variables	EC1518	B. Tech-ECE	Employability
246.	Employability Skills	EG1505	B. Tech-ECE	Employability

S. No	Name of The Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
247.	Electronic Devices and Circuits Lab	EC1519	B. Tech-ECE	Skill Development
248.	Networks and Electrical technology lab	EE1506	B. Tech-ECE	Skill Development
249.	Analog Circuits	EC1520	B. Tech-ECE	Employability
250.	Analog Communications	EC1522	B. Tech-ECE	Employability
251.	Transmission Lines and Waveguides	EC1523	B. Tech-ECE	Employability
252.	Control Systems	EC1524	B. Tech-ECE	Employability
253.	Analog Circuits Lab	EC1525	B. Tech-ECE	Skill Development
254.	Managerial Economics and Financial Analysis	BA1502	B. Tech-ECE	Entrepreneurship
255.	Linear and Digital ICs	EC1527	B. Tech-ECE	Employability
256.	Computer Organization and Microprocessors	EC1528	B. Tech-ECE	Employability
257.	Pulse and Digital Circuits Lab	EC1531	B. Tech-ECE	Skill Development
258.	Microprocessors and Interfacing Lab	EC1508	B. Tech-ECE	Skill Development
259.	Digital Signal Processing	EC1533	B. Tech-ECE	Employability
260.	VLSI Design	EC1534	B. Tech-ECE	Employability
261.	Microwave and Optical Communications	EC1535	B. Tech-ECE	Employability
262.	Digital Switching and Multiplexing	EC1536	B. Tech-ECE	Employability
263.	Artificial Neural Networks	EC1538	B. Tech-ECE	Employability
264.	Electronic System Design	EC1539	B. Tech-ECE	Employability
265.	IC Applications Lab	EC1542	B. Tech-ECE	Skill Development
266.	ECAD Lab	EC1543	B. Tech-ECE	Skill Development
267.	Mini Project	EC1544	B. Tech-ECE	Skill Development
268.	Electronic Measurements and Instrumentation	EC1545	B. Tech-ECE	Employability
269.	Microcontrollers and Embedded Systems	EC1546	B. Tech-ECE	Employability
270.	Sensors and Instrumentation	EC1548	B. Tech-ECE	Employability
271.	Advanced Computer Architecture	CS1524	B. Tech-ECE	Employability
272.	DSP Architecture and Applications	EC1549	B. Tech-ECE	Employability

S. No	Name of The Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
273.	FPGA Design	EC1550	B. Tech-ECE	Employability
274.	Digital TV Engineering	EC1551	B. Tech-ECE	Employability
275.	Digital Image Processing	EC1552	B. Tech-ECE	Employability
276.	Embedded Real Time Operating Systems	EC1553	B. Tech-ECE	Employability
277.	Microwave and Optical Communications Lab	EC1557	B. Tech-ECE	Skill Development
278.	VLSI and Embedded Systems Lab	EC1558	B. Tech-ECE	Skill Development
279.	Testing and Verification of VLSI Circuits	EC1559	B. Tech-ECE	Employability
280.	Low Power VLSI Design	EC1563	B. Tech-ECE	Employability
281.	Software Engineering	EC1565	B. Tech-ECE	Employability
282.	Bio-Medical Instrumentation	EC1566	B. Tech-ECE	Employability
283.	Internet of Things	EC1567	B. Tech-ECE	Employability
284.	Consumer Electronics	EC1568	B. Tech-ECE	Employability
285.	Industrial/Practical Training	EC1569	B. Tech-ECE	Skill Development
286.	Remote Sensing and GIS Techniques	CE1522	B. Tech-ECE	Employability
287.	Elements of civil Engineering	CE1523	B. Tech-ECE	Employability
288.	Modelling and Simulation of Engineering Systems	EE1522	B. Tech-ECE	Employability
289.	Renewable Energy Sources	ME1525	B. Tech-ECE	Employability
290.	Elements of Mechanical Engineering	ME1526	B. Tech-ECE	Employability
291.	Computer Networks	CS1507	B. Tech-ECE	Employability
292.	Object Oriented Programming	CT1506	B. Tech-ECE	Employability
293.	Data Structures using C	CS1501	B. Tech-ECE	Employability
294.	Cyber Laws	CS1508	B. Tech-ECE	Employability
295.	Open Source Software	IT1505	B. Tech-ECE	Employability
296.	Fundamentals of Data Base Management Systems	IT1506	B. Tech-ECE	Employability
297.	Fuzzy Mathematics	MA1507	B. Tech-ECE	Employability
298.	Disaster Management	CE1534	B. Tech-ECE	Employability
299.	Solid Waste Management	CE1535	B. Tech-ECE	Employability
300.	Material Science	ME1535	B. Tech-ECE	Employability
301.	Automotive Electronics	EC1540	B. Tech-ECE	Employability

S. No	Name of The Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
302.	Introduction to MPMC	EC1541	B. Tech-ECE	Employability
303.	Cloud Computing	CT1525	B. Tech-ECE	Employability
304.	Web Technologies	CS1511	B. Tech-ECE	Employability
305.	Virtual Reality	CS1513	B. Tech-ECE	Employability
306.	Scripting Languages	IT1510	B. Tech-ECE	Employability
307.	Big Data	IT1511	B. Tech-ECE	Employability
308.	Multi-variant analysis and Special Functions	MA1509	B. Tech-ECE	Employability
309.	Mobile application development	CS1520	B. Tech-ECE	Employability
310.	Statistical Methods using R Software	MA1510	B. Tech-ECE	Employability
311.	Data Structures using C	CS1501	B. Tech-CSE	Employability
312.	Object Oriented Programming	CT1506	B. Tech-CSE	Employability
313.	Data Structures Lab	CS1502	B. Tech-CSE	Skill Development
314.	Object Oriented Programming Lab	CT1507	B. Tech-CSE	Skill Development
315.	Operating Systems	CT1511	B. Tech-CSE	Employability
316.	Formal Languages and Automata Theory	CT1508	B. Tech-CSE	Employability
317.	Advanced Data Structures lab	CS1504	B. Tech-CSE	Skill Development
318.	computer graphics	CT1510	B. Tech-CSE	Employability
319.	computer organization & Architecture	CS1505	B. Tech-CSE	Employability
320.	Compiler Design	CT1509	B. Tech-CSE	Employability
321.	Operating Systems and Compiler Design lab	CS1506	B. Tech-CSE	Skill Development
322.	Database Management System	CT1512	B. Tech-CSE	Employability
323.	Object Oriented Analysis and design	CT1514	B. Tech-CSE	Employability
324.	Computer Network - 1	CS1510	B. Tech-CSE	Employability
325.	Computer Network - 2	CS1514	B. Tech-CSE	Employability
326.	Computer Network lab	CS1515	B. Tech-CSE	Skill Development
327.	Web Technologies	CS1511	B. Tech-CSE	Employability
328.	Database Management Systems Lab	CT1513	B. Tech-CSE	Skill Development
329.	Web Technologies Lab	CS1512	B. Tech-CSE	Skill Development

S. No	Name of The Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
330.	Software Engineering	CT1516	B. Tech-CSE	Employability
331.	Data Warehousing and Data Mining	CT1517	B. Tech-CSE	Employability
332.	Human Computer Interface	CT1518	B. Tech-CSE	Employability
333.	Case Tools lab	CS1509	B. Tech-CSE	Skill Development
334.	Information Security	CS1522	B. Tech-CSE	Employability
335.	Embedded Systems	CS1525	B. Tech-CSE	Employability
336.	Bio-Informatics	CS1526	B. Tech-CSE	Employability
337.	Distributed Systems	CS1527	B. Tech-CSE	Employability
338.	Mobile Application Development	CS1520	B. Tech-CSE	Employability
339.	Digital Image Processing	CT1521	B. Tech-CSE	Employability
340.	Parallel Computing	CS1528	B. Tech-CSE	Employability
341.	Multi Media Application Development lab	CT1522	B. Tech-CSE	Skill Development
342.	Web Services	CS1529	B. Tech-CSE	Employability
343.	Information Security Lab	CS1523	B. Tech-CSE	Skill Development
344.	Distributed Data Bases	CT1524	B. Tech-CSE	Employability
345.	Software Project Management	CT1525	B. Tech-CSE	Employability
346.	Semantic Web	CS1533	B. Tech-CSE	Employability
347.	Machine Learning	CS1534	B. Tech-CSE	Employability
348.	Cloud Computing	CT1520	B. Tech-CSE	Employability
349.	Wireless Networks	CS1535	B. Tech-CSE	Employability
350.	Big Data	CT1519	B. Tech-CSE	Employability
351.	e- Waste Management	CS1531	B. Tech-CSE	Employability
352.	Management Information Systems	CS1532	B. Tech-CSE	Employability
353.	Advanced Computer Architecture	CS1524	B. Tech-CSE	Employability
354.	Industrial & Practice Training	CS1536	B. Tech-CSE	Skill Development
355.	Remote Sensing and GIS Techniques	CE1522	B. Tech-CSE	Employability
356.	Elements of civil Engineering	CE1523	B. Tech-CSE	Employability
357.	Modelling and Simulation of Engineering Systems	EE1522	B. Tech-CSE	Employability
358.	Renewable Energy Sources	ME1525	B. Tech-CSE	Employability
359.	Elements of Mechanical Engineering	ME1526	B. Tech-CSE	Employability

S. No	Name of The Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
360.	Cyber Laws	CS1508	B. Tech-CSE	Employability
361.	Open Source Software	IT1505	B. Tech-CSE	Employability
362.	Fuzzy Mathematics	MA1507	B. Tech-CSE	Employability
363.	Disaster Management	CE1534	B. Tech-CSE	Employability
364.	Solid Waste Management	CE1535	B. Tech-CSE	Employability
365.	Material Science	ME1535	B. Tech-CSE	Employability
366.	Automotive Electronics	EC1540	B. Tech-CSE	Employability
367.	Introduction to MPMC	EC1541	B. Tech-CSE	Employability
368.	Cloud Computing	CT1525	B. Tech-CSE	Employability
369.	Web Technologies	CS1511	B. Tech-CSE	Employability
370.	Virtual Reality	CS1513	B. Tech-CSE	Employability
371.	Scripting Languages	IT1510	B. Tech-CSE	Employability
372.	Multi-variant analysis and Special Functions	MA1509	B. Tech-CSE	Employability
373.	Social Networks	CS1519	B. Tech-CSE	Employability
374.	Real Time Systems	CS1521	B. Tech-CSE	Employability
375.	Statistical Methods using R Software	MA1510	B. Tech-CSE	Employability
376.	Managerial Economics and Financial Analysis	BA1502	B. Tech-IT	Entrepreneurship
377.	Basic Electronics	EC1503	B. Tech-IT	Employability
378.	Object Oriented Programming	CT1506	B. Tech-IT	Employability
379.	Object Oriented Programming Lab	CT1507	B. Tech-IT	Skill Development
380.	Basic Electronics Lab	EC1504	B. Tech-IT	Skill Development
381.	Formal Languages & Automata Theory	CT1508	B. Tech-IT	Employability
382.	Software Engineering	CT1516	B. Tech-IT	Employability
383.	Database Management Systems	CT1512	B. Tech-IT	Employability
384.	Employability Skills	EG1505	B. Tech-IT	Employability
385.	Advanced Data Structures and Algorithms Lab	IT1504	B. Tech-IT	Skill Development
386.	Database Management Systems Lab	CT1513	B. Tech-IT	Skill Development
387.	Micro Processors and Interfacing	EC1507	B. Tech-IT	Employability
388.	Object Oriented Analysis &	CT1514	B. Tech-IT	Employability

S. No	Name of The Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
	Design			
389.	Operating Systems	CT1511	B. Tech-IT	Employability
390.	Micro Processors and Interfacing Lab	EC1508	B. Tech-IT	Skill Development
391.	Computer Networks and Case Tools Lab	IT1508	B. Tech-IT	Skill Development
392.	Operating Systems Lab	IT1509	B. Tech-IT	Skill Development
393.	Compiler Design	CT1509	B. Tech-IT	Employability
394.	Net Technologies	IT1512	B. Tech-IT	Employability
395.	Advanced Java and Web Technologies	IT1513	B. Tech-IT	Employability
396.	Computer Graphics	CT1510	B. Tech-IT	Employability
397.	Computer Architecture	IT1516	B. Tech-IT	Employability
398.	Net Technologies Lab	IT1517	B. Tech-IT	Skill Development
399.	Advanced Java and Web Technologies Lab	IT1518	B. Tech-IT	Skill Development
400.	Mini Project	IT1519	B. Tech-IT	Skill Development
401.	Data Warehousing and Data Mining	CT1517	B. Tech-IT	Employability
402.	Multimedia Application Development	IT1522	B. Tech-IT	Employability
403.	Distributed Databases	CT1524	B. Tech-IT	Employability
404.	Human Computer Interaction	CT1518	B. Tech-IT	Employability
405.	Bio-Metrics	IT1523	B. Tech-IT	Employability
406.	Software Testing Methodologies	CT1522	B. Tech-IT	Employability
407.	Information Retrieval Systems	IT1524	B. Tech-IT	Employability
408.	Digital Image Processing	CT1521	B. Tech-IT	Employability
409.	Mobile Computing	IT1525	B. Tech-IT	Employability
410.	Software Project Management	CT1525	B. Tech-IT	Employability
411.	Mobile Application Lab	IT1527	B. Tech-IT	Skill Development
412.	Multimedia Application Development Lab	CT1523	B. Tech-IT	Skill Development
413.	Free and Open Source Software Lab	IT1526	B. Tech-IT	Skill Development
414.	E-Commerce	IT1529	B. Tech-IT	Employability
415.	Cloud Computing	CT1520	B. Tech-IT	Employability

S. No	Name of The Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
416.	Business Intelligence	IT1530	B. Tech-IT	Employability
417.	Big Data	CT1519	B. Tech-IT	Employability
418.	Soft Computing	IT1531	B. Tech-IT	Employability
419.	Computer Forensics	IT1532	B. Tech-IT	Employability
420.	Software Quality Assurance	IT1533	B. Tech-IT	Employability
421.	Industrial / Practical Training	IT1534	B. Tech-IT	Skill Development
422.	Remote Sensing and GIS Techniques	CE1522	B. Tech-IT	Employability
423.	Elements of civil Engineering	CE1523	B. Tech-IT	Employability
424.	Modelling and Simulation of Engineering Systems	EE1522	B. Tech-IT	Employability
425.	Renewable Energy Sources	ME1525	B. Tech-IT	Employability
426.	Elements of Mechanical Engineering	ME1526	B. Tech-IT	Employability
427.	Cyber Laws	CS1508	B. Tech-IT	Employability
428.	Open Source Software	IT1505	B. Tech-IT	Employability
429.	Fuzzy Mathematics	MA1507	B. Tech-IT	Employability
430.	Disaster Management	CE1534	B. Tech-IT	Employability
431.	Solid Waste Management	CE1535	B. Tech-IT	Employability
432.	Material Science	ME1535	B. Tech-IT	Employability
433.	Automotive Electronics	EC1540	B. Tech-IT	Employability
434.	Introduction to MPMC	EC1541	B. Tech-IT	Employability
435.	Virtual Reality	CS1513	B. Tech-IT	Employability
436.	Scripting Languages	IT1510	B. Tech-IT	Employability
437.	Multi-variant analysis and Special Functions	MA1509	B. Tech-IT	Employability
438.	Social Networks	CS1519	B. Tech-IT	Employability
439.	Real Time Systems	CS1521	B. Tech-IT	Employability
440.	Network Management Systems	IT1519	B. Tech-IT	Employability
441.	Fundamentals of E-Commerce	IT1520	B. Tech-IT	Employability
442.	Statistical Methods using R Software	MA1510	B. Tech-IT	Employability
443.	Computational Methods in Engineering	MA2901	M. Tech-SE	Employability
444.	Advanced Concrete Technology and Structural Engineering lab	CE2908	M. Tech-SE	Skill Development

S. No	Name of The Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
445.	Research Methodologies	BA2901	M. Tech-SE	Employability
446.	Ground Improvement Techniques	CE2906	M. Tech-SE	Employability
447.	Advanced Design of Steel Structures	CE2912	M. Tech-SE	Employability
448.	Fracture Mechanics of Concrete	CE2914	M. Tech-SE	Employability
449.	Design of Sub-structures	CE2915	M. Tech-SE	Employability
450.	High Rise Buildings	CE2917	M. Tech-SE	Employability
451.	Theory of Velocity	CE2901	M. Tech-SE	Employability
452.	Structure and Dynamics	Ce2902	M. Tech-SE	Employability
453.	Advanced Design of Concrete Structure	CE2903	M. Tech-SE	Employability
454.	Stability of Structure	CE2904	M. Tech-SE	Employability
455.	Earth Quake Resistor Design	CE2909	M. Tech-SE	Employability
456.	Finite Element Analysis	CE2910	M. Tech-SE	Employability
457.	Theory of Plates and shells	CE2911	M. Tech-SE	Employability
458.	Computer Applications in Structure Engineering Lab	CE2918	M. Tech-SE	Skill Development
459.	Linear and Non-Linear Optimization technique	MA2902	M. Tech-PEED	Employability
460.	Advanced Electric Drives	EE2912	M. Tech-PEED	Employability
461.	Research Methodology	EE2910	M. Tech-PEED	Employability
462.	Application of Power Electronics to Power Systems	EE2915	M. Tech-PEED	Employability
463.	Advanced Digital Control Systems	EE3915	M. Tech-PEED	Employability
464.	ARM Architecture and Programming	EC2901	M. Tech-PEED	Employability
465.	Analysis of Power Electronics Converters	EE2902	M. Tech-PEED	Employability
466.	Electrical Machine Modelling & Analysis	EE2903	M. Tech-PEED	Employability
467.	Modern Control Theory	EE2904	M. Tech-PEED	Employability
468.	Power Electronics System Simulation Lab	EE2908	M. Tech-PEED	Skill Development
469.	Switched Mode Power Converters	EE2912	M. Tech-PEED	Employability
470.	Power Electronics and Electric Drives Lab	EE2919	M. Tech-PEED	Skill Development

S. No	Name of The Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
471.	HVDC Transmission Systems	EE2907	M. Tech-PEED	Employability
472.	AI Techniques	EE2917	M. Tech-PEED	Employability
473.	Computational Methods in Engineering	MA2901	M. Tech-MD	Employability
474.	Advanced Mechanics of Solids	ME2901	M. Tech-MD	Employability
475.	Analysis and Synthesis of Mechanisms	ME2902	M. Tech-MD	Employability
476.	Mechanical Vibrations	ME2903	M. Tech-MD	Employability
477.	Gear Engineering	ME2904	M. Tech-MD	Employability
478.	Machine Dynamics Lab	ME2908	M. Tech-MD	Skill Development
479.	Research Methodologies	ME2905	M. Tech-MD	Employability
480.	Finite Element Methods	ME2909	M. Tech-MD	Employability
481.	Design with Advanced Materials	ME2910	M. Tech-MD	Employability
482.	Design for Manufacturing and Assembly	ME2911	M. Tech-MD	Employability
483.	Rotor Dynamics	ME2905	M. Tech-MD	Employability
484.	Experimental Stress Analysis	ME2906	M. Tech-MD	Employability
485.	Product Design	ME2907	M. Tech-MD	Employability
486.	Fracture Mechanics	ME2912	M. Tech-MD	Employability
487.	Condition Monitoring	ME2913	M. Tech-MD	Employability
488.	Rapid Tooling and Prototyping	ME2914	M. Tech-MD	Employability
489.	Theory of Elasticity	ME2915	M. Tech-MD	Employability
490.	Geometric Modelling	ME2916	M. Tech-MD	Employability
491.	Tribology	ME2917	M. Tech-MD	Employability
492.	Modelling and Analysis Lab	ME2918	M. Tech-MD	Skill Development
493.	Linear and Non-Linear Optimization Techniques	MA2902	M. Tech-ES	Employability
494.	Research Methodologies	HS2901	M. Tech-ES	Employability
495.	Principles of Digital Design Using FPGA	EC2903	M. Tech-ES	Employability
496.	Advanced Digital Signal Processing	EC2904	M. Tech-ES	Employability
497.	Advanced Microcontrollers	EC2905	M. Tech-ES	Employability
498.	Advanced Digital Design Lab	EC2910	M. Tech-ES	Skill Development
499.	Advanced Embedded Systems	EC2911	M. Tech-ES	Employability

S. No	Name of The Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
500.	Principles of CMOS Analog Design	EC2912	M. Tech-ES	Employability
501.	Internet of Things	EC2913	M. Tech-ES	Employability
502.	Low Power CMOS Digital Design	EC2909	M. Tech-ES	Employability
503.	Embedded Real Time Operating Systems	EC2915	M. Tech-ES	Employability
504.	Embedded System Design	EC2916	M. Tech-ES	Employability
505.	Embedded Systems Lab	EC2920	M. Tech-ES	Skill Development
506.	Advanced Computer Networks	EC2917	M. Tech-ES	Employability
507.	Statistics with R Programming	MA2903	M. Tech-CSE	Employability
508.	Advanced Data Structures & Algorithm Analysis	CS2901	M. Tech-CSE	Employability
509.	Object Oriented Software Engineering	CS2903	M. Tech-CSE	Employability
510.	Business Intelligence	CS2904	M. Tech-CSE	Employability
511.	Advanced Data Structures & Algorithm and R Programming Lab	CS2908	M. Tech-CSE	Skill Development
512.	Research Methodology	HS2901	M. Tech-CSE	Employability
513.	Information Security	CS2909	M. Tech-CSE	Employability
514.	Scripting Languages	CS2910	M. Tech-CSE	Employability
515.	Data Analytics	CS2911	M. Tech-CSE	Employability
516.	Information Security & Scripting Languages Lab	CS2917	M. Tech-CSE	Skill Development
517.	Advanced Computer architecture	CS2905	M. Tech-CSE	Employability
518.	Advanced Operating Systems	CS2912	M. Tech-CSE	Employability
519.	Machine Learning	CS2913	M. Tech-CSE	Employability
520.	Software Testing Methodologies	CS2914	M. Tech-CSE	Employability
521.	Soft Computing	CS2915	M. Tech-CSE	Employability
522.	Internet of Things	CS2916	M. Tech-CSE	Employability
523.	Business Environment and Legislation	BA2904	MBA	Employability
524.	Business Law	BA2905	MBA	Entrepreneurship
525.	E-Business	BA2915	MBA	Entrepreneurship
526.	Training & Development	BA2921	MBA	Entrepreneurship
527.	Industrial Relations and Labour Laws	BA2922	MBA	Entrepreneurship

S. No	Name of The Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
528.	Sales & Distribution Management	BA2925	MBA	Entrepreneurship
529.	Compensation Management	BA2928	MBA	Entrepreneurship
530.	Mange real Economics	BA2902	MBA	Entrepreneurship
531.	Business Communications	EG2901	MBA	Employability
532.	Accounting for Mangers	BA2903	MBA	Employability
533.	Information Technology Lab for Business Management	BA2906	MBA	Skill Development
534.	Financially Management	BA2907	MBA	Employability
535.	Marketing Management	BA2908	MBA	Employability
536.	Human Resources Management	BA 2909	MBA	Employability
537.	Production and Operations Management	BA2910	MBA	Employability
538.	International Business	BA2911	MBA	Employability
539.	Organizational Behaviour	BA2912	MBA	Employability


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COURSE STRUCTURE

I Year - I Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	EG2501	Functional English	4	-	-	3
2	MA2501	Linear Algebra & Differential Equations	4	1	-	4
3	EN2502	Engineer and Society	3	-	-	2
4	CH2501	Engineering Chemistry	3	-	-	2
5	CT2501	Problem Solving Using C *	4	-	2	4
6	ME2501	Engineering Drawing	1	-	4	3
7	EG2502	Functional English Lab	-	-	2	1
8	CH2502	Engineering Chemistry Lab	-	-	2	1
Total			19	1	10	20

* Integrated Course with Theory and Laboratory

I Year - II Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	EG2503	Professional Communication	3	-	-	2
2	MA2503	Integral Transforms and Multiple Integrals	3	1	-	3
3	EN2501	Environmental Studies	3	-	-	2
4	PH2501	Engineering Physics	3	1	-	3
5	CE2501	Engineering Mechanics	4	1	-	4
6	EG2504	Professional Communication Lab	-	-	4	2
7	CE2502	Computer Aided Drafting Lab	-	-	4	2
8	PH2503	Engineering Physics Lab	-	-	2	1
9	CE2503	Applied Mechanics Lab and Building Trade Practice	-	-	2	1
Total			16	3	12	20

L : Lecture T : Tutorial P : Practical




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I Year - I Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	EG2501	Functional English	4	-	-	3
2	MA2501	Linear Algebra & Differential Equations	4	1	-	4
3	EN2502	Engineer and Society	3	-	-	2
4	CH2503	Applied Chemistry	3	-	-	2
5	CT2501	Problem Solving Using C *	4	-	2	4
6	ME2501	Engineering Drawing	1	-	4	3
7	EG2502	Functional English Lab	-	-	2	1
8	CH2504	Applied Chemistry Lab	-	-	2	1
Total			19	1	10	20


* Integrated Course with Theory and Laboratory

I Year - II Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	EG2503	Professional Communication	3	-	-	2
2	MA2504	Integral Transforms and Vector Calculus	4	1	-	4
3	EE2507	Elements of Electrical Circuits	3	1	-	3
4	PH2504	Solid State Physics	4	-	-	3
5	EN2501	Environmental Studies	3	-	-	2
6	ME2503	Elements of Mechanical Engineering	3	1	-	3
7	EG2504	Professional Communication Lab	-	-	4	2
8	PH2505	Solid State Physics Lab	-	-	2	1
Total			20	3	6	20

L : Lecture T : Tutorial P : Practical




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I Year - I Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	EG2501	Functional English	4	-	-	3
2	MA2501	Linear Algebra & Differential Equations	4	1	-	4
3	PH2502	Physics for Engineers	3	1	-	3
4	EN2501	Environmental Studies	3	-	-	2
5	CT2501	Problem Solving Using C *	4	-	2	4
6	ME2505	Engineering Graphics	1	-	4	3
7	EG2502	Functional English Lab	-	-	2	1
8	PH2503	Engineering Physics Lab	-	-	2	1
Total			19	2	10	21


* Integrated Course with Theory and Laboratory

I Year - II Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	EG2503	Professional Communication	3	-	-	2
2	MA2503	Integral Transforms and Multiple Integrals	3	1	-	3
3	EN2502	Engineer & Society	3	-	-	2
4	CH2505	Industrial Chemistry	3	1	-	3
5	CE2501	Engineering Mechanics	4	1	-	4
6	ME2506	Computer Aided Engineering Drawing	-	-	2	1
7	ME2507	Engineering Workshop	-	-	2	1
8	EG2504	Professional Communication Lab	-	-	4	2
9	ME2508	Industrial Chemistry Lab & Engg. Mechanics Lab	-	-	2	1
Total			16	3	10	19

L : Lecture T : Tutorial P : Practical




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I Year - I Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	EG2501	Functional English	4	-	-	3
2	MA2501	Linear Algebra & Differential Equations	4	1	-	4
3	EN2502	Engineer & Society	3	-	-	2
4	PH2504	Solid State Physics	4	-	-	3
5	CT2502	Problem Solving through Computer Programming	4	-	-	3
6	EG2502	Functional English Lab	-	-	2	1
7	PH2505	Solid State Physics Lab	-	-	2	1
8	CT2503	Computer Programming Lab	-	-	4	2
Total			19	1	8	19

I Year - II Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	EG2503	Professional Communication	3	-	-	2
2	MA2504	Integral Transforms and Vector Calculus	4	1	-	4
3	CH2503	Applied Chemistry	3	-	-	2
4	EN2501	Environmental Studies	3	-	-	2
5	EE2504	Linear Electrical Networks	3	-	-	2
6	MA2505	Numerical Methods & Complex Analys	3	1	-	3
7	ME2501	Engineering Drawing	1	-	4	3
8	EG2504	Professional Communication Lab	-	-	4	2
9	CH2504	Applied Chemistry Lab	-	-	2	1
Total			20	2	10	21

L : Lecture T : Tutorial P : Practical



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I Year - I Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	EG2501	Functional English	4	-	-	3
2	MA2502	Linear Algebra and Integral Transforms	4	1	-	4
3	CH2506	Chemistry	4	-	-	3
4	EN2501	Environmental Studies	3	-	-	2
5	EE2506	Basic Electrical Engineering	3	-	-	2
6	CT2502	Problem Solving through Computer Programming	4	-	-	3
7	EG2502	Functional English Lab	-	-	2	1
8	CT2503	Computer Programming Lab	-	-	4	2
Total			22	1	6	20

I Year - II Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	EG2503	Professional Communication	3	-	-	2
2	MA2506	Numerical Methods and Differential Equations	4	1	-	4
3	PH2506	Applied Physics	4	-	-	3
4	EN2502	Engineer and Society	3	-	-	2
5	EC2501	Elements of Electronics Engineering	3	1	-	3
6	CT2504	Python Programming *	3	-	2	3
7	EG2504	Professional Communication Lab	-	-	4	2
8	PH2507	Applied Physics Lab	-	-	2	1
Total			20	2	8	20

* Integrated Course with Theory and Laboratory

L : Lecture T : Tutorial P : Practical

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I Year - I Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	EG2501	Functional English	4	-	-	3
2	MA2502	Linear Algebra & Integral Transforms	4	1	-	4
3	PH2506	Applied Physics	4	-	-	3
4	EN2501	Environmental Studies	3	-	-	2
5	CT2502	Problem Solving through Computer Programming	4	-	-	3
6	EG2502	Functional English Lab	-	-	2	1
7	PH2507	Applied Physics Lab	-	-	2	1
8	CT2503	Computer Programming Lab	-	-	4	2
Total			19	1	8	19


I Year - II Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	EG2503	Professional Communication	3	-	-	2
2	MA2506	Numerical Methods and Differential Equations	4	1	-	4
3	CH2506	Chemistry	4	-	-	3
4	EN2502	Engineer & Society	3	-	-	2
5	EC2501	Elements of Electronics Engineering	3	1	-	3
6	CT2504	Python Programming *	3	-	2	3
7	EG2504	Professional Communication Lab	-	-	4	2
8	EC2502	Elements of Electronics Engineering Lab	-	-	4	2
Total			20	2	10	21

* Integrated Course with Theory and Laboratory

L : Lecture T : Tutorial P : Practical




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 Gudlavalleru - 521 306, Krishna District. A.P.

Sl.No	Subject Cods	Name of the Course / Laboratory	No.of Periods per week		No.of Credits
			L	P	
1	MA1504	Probability & Statistics	3+1*	-	3
2	CE1503	Mechanics of Solids - I	3+1*	-	3
3	CE1504	Fluid Mechanics	3+1*	-	3
4	CE1505	Surveying	3+1*	-	3
5	CE1506	Engineering Geology and GIS Applications	3+1*	-	3
6	CE1507	Building Planning & Drawing	1	3	3
7	BA1501	Professional Ethics & Patents	2	-	2
8	CE1508	Surveying Field Work	-	3	2
9	CE1509	Engineering Geology Lab	-	3	2
		Total	23	9	24
10	NS1501	NSS (Mandatory Non-Credit Course)	-	2	-

II Year - I Semester

II Year - II Semester

Sl.No	Subject Cods	Name of the Course / Laboratory	No.of Periods per week		No.of Credits
			L	P	
1	CE1510	Mechanics of Solids – II	3+1*	-	3
2	CE1511	Hydraulics and Hydraulic Machines	3+1*	-	3
3	CE1512	Structural Analysis – I	3+1*	-	3
4	CE1513	Geotechnical Engineering – I	3+1*	-	3
5	CE1514	Water Resources Engineering – I	3+1*	-	3
6	CE1515	Concrete Technology	3+1*	-	3
7	EG1505	Employability Skills	1	2	2
8	CE1516	Strength of Materials Lab	-	3	2
9	CE1517	Advanced Surveying & GIS Lab	-	3	2
		Total	25	8	24

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III Year - I Semester

Sl.No	Subject Cods	Name of the Course / Laboratory	No.of Periods per week		No.of Credits
			L	P	
1	CE1527	Environmental Engineering	3+1*	-	3
2	CE1528	Transportation Engineering	3+1*	-	3
3	CE1529	Design & Drawing of steel structures	3+1*	-	3
4	CE1530	Elective – I Prestressed Concrete Structural Dynamics Project Management Ground Improvement Techniques	3+1*	-	3
5	CE1531				
6	CE1532				
7	CE1533				
8		Open Elective – II (see the list of Open Electives)	3+1*	-	3
9	CE1536	Environmental Engineering Lab	-	3	2
10	CE1537	Computer Aided Drawing (CAD) Practice Lab	-	3	2
11	CE1538	Mini Project / Survey Camp	-	-	2
		Total	20	8	21
12		Sports & Games / Creative Arts (Mandatory Non-Credit Course)	-	2	-

III Year - I Semester

Sl.No	Subject Cods	Name of the Course / Laboratory	No.of Periods per week		No.of Credits
			L	P	
1	CE1518	Structural Analysis - II	3+1*	-	3
2	CE1519	Geotechnical Engineering - II	3+1*	-	3
3	CE1520	Water Resources Engineering - II	3+1*	-	3
4	CE1521	Design & Drawing of R.C Structures	3+1*	-	3
5		Open Elective - I (see the list of Open Electives)	3+1*	-	3
6	CE1524	Concrete Technology Lab	-	3	2
7	CE1525	Geotechnical Engineering Lab	-	3	2
8	CE1526	Fluid Mechanics & Hydraulic Machines Lab	-	3	2
		Total	20	9	21
9	SG1501	Sports & Games / Creative Arts (Mandatory Non-Credit Course)	-	2	-

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IV Year - I Semester

Sl.No	Subject Cods	Name of the Course / Laboratory	No.of Periods per week		No.of Credits
			L	P	
1	BA1502	Managerial Economics and Financial Analysis	3+1*	-	3
2	CE1539	Estimating, Costing and Valuation	3+1*	-	3
3	CE1540	Elective – II Finite Element Method	3+1*	-	3
4	CE1541	Advanced Structural Analysis			
5	CE1542	Advanced Environmental Engineering			
6	CE1543	Design & Drawing of Irrigation Structures			
7	CE1544	Elective – III Design of Industrial Structures	3+1*	-	3
8	CE1545	Air Pollution & Its Control			
9	CE1546	Earthquake Resistant Design			
10	CE1547	Architecture & Town Planning			
11		Open Elective – III (see the list of Open Electives)	3+1*	-	3
12	CE1549	Structural Engineering Lab	-	3	2
13	CE1550	Transportation Engineering Lab	-	3	2
14	CE1551	Computer Applications in Civil Engineering Lab	-	3	2
Total			20	9	21

IV Year - II Semester

Sl.No	Subject Cods	Name of the Course / Laboratory	No.of Periods per week		No.of Credits
			L	P	
1	CE1552	Elective – IV Advanced Concrete Structures	3+1*	-	3
2	CE1553	Environmental Impact, Assessment & Management			
3	CE1554	Soil Dynamics & Machine Foundations			
4	CE1555	Docks & Harbour Engineering			
5	CE1556	Elective – V Pavement Analysis & Design	3+1*	-	3
6	CE1557	Industrial Waste Management			
7	CE1558	Ground Water Development & Management			
8	CE1559	Repair and Rehabilitation of Structures			
9		Self Study Course (see the list of Self Study Courses)			2
10	CE1562	Industrial / Practical Training	-	-	4
11	CE1563	Project Work	-	9	9
Total			20	9	21



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Open Elective - I

Sl. No.	Subject Cods	Title of the Subject	Department Offering the Subject	No.of Periods per week		No.of. Credits
				L	P	
1	CE1522	Remote Sensing and GIS Techniques	CE	3+1*	-	3
2	CE1523	Elements of Civil Engineering (other than CE)	CE	3+1*	-	3
3	EE1522	Modeling and Simulation of Engineering Systems	EEE	3+1*	-	3
4	ME1525	Renewable Energy Sources	ME	3+1*	-	3
5	ME1526	Elements of Mechanical Engineering (other than ME)	ME	3+1*	-	3
6	CS1507	Computer Networks (other than CSE & IT)	CSE	3+1*	-	3
7	CT1506	Object Oriented Programming (other than CSE & IT)	CSE	2+1*	-	3
8	CS1501	Data Structures Using C (other than EEE,ECE,CSE&IT)	CSE	2+1*	-	3
9	CS1508	Cyber Laws	CSE	3+1*	-	3
10	IT1505	Open Source Software	IT	3+1*	-	3
11	IT1506	Fundamentals of Data Base Management Systems (other than CSE & IT)	IT	3+1*	-	3
12	MA1507	Fuzzy Mathematics	Maths	3+1*	-	3


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Open Elective - II

Sl. No.	Subject Cods	Title of the Subject	Department Offering the Subject	No.of Periods per week		No.of. Credits
				L	P	
1	CE1534	Disaster Management	CE	3+1*	-	3
2	CE1535	Solid Waste Management (other than CE)	CE	3+1*	-	3
3	EE1531	Energy Audit, Conservation and Management	EEE	3+1*	-	3
4	ME1535	Material Science (other than ME)	ME	3+1*	-	3
5	EC1540	Automotive Electronics	ECE	3+1*	-	3
6	EC1541	Introduction to MP&MC (other than EEE, ECE, CSE & IT)	ECE	3+1*	-	3
7	CT1525	Cloud Computing (other than CSE & IT)	CSE	3+1*	-	3
8	CS1511	Web Technologies (other than CSE & IT)	CSE	2+1*	-	3
9	CS1513	Virtual Reality	CSE	3+1*	-	3
10	IT1510	Scripting Languages	IT	3+1*	-	3
11	IT1511	Big Data (other than CSE & IT)	IT	3+1*	-	3
12	MA1509	Multi-variate analysis and Special Functions	Maths	3+1*	-	3



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Open Elective - III

Sl. No.	Subject Cods	Title of the Subject	Department Offering the Subject	No.of Periods per week		No.of. Credits
				L	P	
1	CE1548	Building Services (other than CE)	CE	3+1*	-	3
2	EE1542	Modern Optimization Techniques	EEE	3+1*	-	3
3	EE1543	Electrical Power Utilization (other than EEE)	EEE	3+1*	-	3
4	ME1542	Robotics (other than ME)	ME	3+1*	-	3
5	EC1554	Assistive Technologies	ECE	3+1*	-	3
6	EC1555	Introduction to Embedded Systems (other than ECE, CSE & IT)	ECE	3+1*	-	3
7	CS1519	Social Networks	CSE	3+1*	-	3
8	CS1520	Mobile Application Development (other than CSE & IT)	CSE	3+1*	-	3
9	CS1521	Real-Time Systems	CSE	3+1*	-	3
10	IT1520	Network Management Systems	IT	3+1*	-	3
11	IT1521	Fundamentals of E-Commerce (other than CSE & IT)	IT	3+1*	-	3
12	MA1510	Statistical Methods using R Software	Maths	3+1*	-	3


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Self Study Courses

Sl. No.	Subject Cods	Title of the Subject	Department Offering the Subject	No.of. Credits
1	CE1560	Global Positioning Systems	CE	2
2	CE1561	Interior Design	CE	2
3	EE1553	Electrical Safety Management	EEE	2
4	ME1560	Green Engineering	ME	2
5	ME1561	Managing Innovation & Entrepreneurship	ME	2
6	EC1566	Internet of Things	ECE	2
7	EC1567	Consumer Electronics	ECE	2
8	CS1531	e-Waste Management	CSE	2
9	CS1532	Management Information Systems	CSE	2
10	IT1528	Information & Communication Technology	IT	2
11	BA1503	Organizational Behaviour	MBA	2
12		MOOCs	--	2



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II Year - I Semester

Sl.No	Subject Cods	Name of the Course / Laboratory	No.of Periods per week		No.of Credits
			L	P	
1	MA1505	Complex Variables and Special Functions	3+1*	-	3
2	EC1502	Semiconductor Devices and Circuits	3+1*	-	3
3	EE1511	Electromagnetic Fields	3+1*	-	3
4	EE1512	Circuit Theory – II	3+1*	-	3
5	EE1513	Electrical Machines – I	3+1*	-	3
6	EE1514	Power Systems – I	3+1*	-	3
7	EG1505	Employability Skills	1	2	2
8		Fluid Mechanics & Hydraulic Machines			
	ME1505	Lab	-	3	2
9	EE1515	Networks Lab	-	3	2
		Total	25	8	24
10	NS1501	NSS (Mandatory Non-Credit Course)	-	2	-

II Year - II Semester

Sl.No	Subject Cods	Name of the Course / Laboratory	No.of Periods per week		No.of Credits
			L	P	
1	EC1515	Digital Circuits	3+1*	-	3
2	BA1502	Managerial Economics and Financial Analysis	3+1*	-	3
3	EE1516	Electrical Machines – II	3+1*	-	3
4	EE1517	Power Systems – II	3+1*	-	3
5	EE1518	Electrical Measurements & Instrumentation	3+1*	-	3
6	EE1503	Control Systems	3+1*	-	3
7	BA1501	Professional Ethics and Patents	2	-	2
8	EC1505	Semiconductor Devices & Circuits Lab	-	3	2
9	EE1519	Electrical Machines Lab – I	-	3	2
		Total	26	6	24


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III Year - I Semester

Sl.No	Subject Cods	Name of the Course / Laboratory	No.of Periods per week		No.of Credits
			L	P	
1	EC1516	Signals and Systems	3+1*	-	3
2	EC1506	Pulse and Integrated Circuits	3+1*	-	3
3	EE1520	Electrical Machines – III	3+1*	-	3
4	EE1521	Power Electronics	3+1*	-	3
5		Open Elective - I (see the list of Open Electives)	3+1*	-	3
6	EE1523	Electrical Measurements & Instrumentation Lab	-	3	2
7	EE1524	Control Systems Lab	-	3	2
8	EE1525	Mini Project	-	3	2
		Total	20	9	21
9	SG1501	Sports & Games / Creative Arts (Mandatory Non-Credit Course)	-	2	-

III Year - II Semester

Sl.No	Subject Cods	Name of the Course / Laboratory	No.of Periods per week		No.of Credits
			L	P	
1	EE1526	Power Semiconductor Drives	3+1*	-	3
2	EC1509	Microprocessors and Microcontrollers	3+1*	-	3
3	EE1527	Switchgear and Protection	3+1*	-	3
4	EE1528	Optimization Techniques	3+1*	-	3
6	EE1529	Advanced Control Systems			
7	EE1530	Power Systems Operation Control			
8	CS1501	Data Structures Using C			
9		Open Elective – II (see the list of Open Electives)	3+1*	-	3
10	EC1501	Integrated Circuits & PDC Lab	-	3	2
11	EE1532	Power Electronics and Drives Lab	-	3	2
12	EE1533	Electrical Machines Lab – II	-	3	2
		Total	20	9	21

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 Gudlavalluru Engineering College
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 Gudlavalluru - 522 201 Krishna District, A.P.

IV Year - I Semester

Sl.No	Subject Cods	Name of the Course / Laboratory	No.of Periods per week		No.of Credits
			L	P	
1	EE1534	Power System Analysis	3+1*	-	3
2	EE1535	Utilization of Electrical Energy	3+1*	-	3
3	EE1536	Electrical Distribution Systems	3+1*	-	3
4	EE1537	HVDC Transmission Systems			
5	EE1534	VLSI Design			
6	EE1538	Special Electrical Machines			
7	EE1539	Electrical Machine Design	3+1*	-	3
8	EE1540	Programmable Logic Controller			
9	CS1505	Computer Organization & Architecture			
10	EE1541	Flexible AC Transmission System			
11		Open Elective - III (see the list of Open Electives)	3+1*	-	3
12	EC1512	Microprocessors and Microcontrollers Lab	-	3	2
13	EE1544	Electrical Systems Simulation Lab	-	3	2
14	EE1545	Power Systems Lab		3	2
Total			20	9	21

IV Year - II Semester

Sl.No	Subject Cods	Name of the Course / Laboratory	No.of Periods per week		No.of Credits
			L	P	
1	EE1546	Electrical Costing & Estimation	3+1*	-	3
2	EE1547	Modeling and Analysis of Electrical Machines			
3	EE1548	High Voltage Engineering			
4	EC1533	Digital Signal Processing			
5	EE1549	Digital Control Systems	3+1*	-	3
6	EE1550	AI Techniques			
7	EE1551	EHV AC/DC Transmission Systems			
8	EE1552	Power Plant Instrumentation			
9		Self Study Course (see the list of Self Study Courses)	-	-	2
10	EE1554	Industrial / Practical Training	-	-	4
11	EE1555	Project Work	-	9	9
Total			8	9	21

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 Seshadri Rao
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 Seshadri Rao Subbarao Village
 Gudlavalluri - 521 306, West Godavari District, A.P.

Open Elective - I

Sl. No.	Subject Cods	Title of the Subject	Department Offering the Subject	No.of Periods per week		No.of. Credits
				L	P	
1	CE1522	Remote Sensing and GIS Techniques	CE	3+1*	-	3
2	CE1523	Elements of Civil Engineering (other than CE)	CE	3+1*	-	3
3	EE1522	Modeling and Simulation of Engineering Systems	EEE	3+1*	-	3
4	ME1525	Renewable Energy Sources	ME	3+1*	-	3
5	ME1526	Elements of Mechanical Engineering (other than ME)	ME	3+1*	-	3
6	CS1507	Computer Networks (other than CSE & IT)	CSE	3+1*	-	3
7	CT1506	Object Oriented Programming (other than CSE & IT)	CSE	2+1*	-	3
8	CS1501	Data Structures Using C (other than EEE,ECE,CSE&IT)	CSE	2+1*	-	3
9	CS1508	Cyber Laws	CSE	3+1*	-	3
10	IT1505	Open Source Software	IT	3+1*	-	3
11	IT1506	Fundamentals of Data Base Management Systems (other than CSE & IT)	IT	3+1*	-	3
12	MA1507	Fuzzy Mathematics	Maths	3+1*	-	3

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 Gudlavalleru - 521 356, Krishna District. A.P.

Open Elective - II

Sl. No.	Subject Cods	Title of the Subject	Department Offering the Subject	No.of Periods per week		No.of. Credits
				L	P	
1	CE1534	Disaster Management	CE	3+1*	-	3
2	CE1535	Solid Waste Management (other than CE)	CE	3+1*	-	3
3	EE1531	Energy Audit, Conservation and Management	EEE	3+1*	-	3
4	ME1535	Material Science (other than ME)	ME	3+1*	-	3
5	EC1540	Automotive Electronics	ECE	3+1*	-	3
6	EC1541	Introduction to MP&MC (other than EEE, ECE, CSE & IT)	ECE	3+1*	-	3
7	CT1525	Cloud Computing (other than CSE & IT)	CSE	3+1*	-	3
8	CS1511	Web Technologies (other than CSE & IT)	CSE	2+1*	-	3
9	CS1513	Virtual Reality	CSE	3+1*	-	3
10	IT1510	Scripting Languages	IT	3+1*	-	3
11	IT1511	Big Data (other than CSE & IT)	IT	3+1*	-	3
12	MA1509	Multi-variate analysis and Special Functions	Maths	3+1*	-	3


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Open Elective - III

Sl. No.	Subject Cods	Title of the Subject	Department Offering the Subject	No.of Periods per week		No.of. Credits
				L	P	
1	CE1548	Building Services (other than CE)	CE	3+1*	-	3
2	EE1542	Modern Optimization Techniques	EEE	3+1*	-	3
3	EE1543	Electrical Power Utilization (other than EEE)	EEE	3+1*	-	3
4	ME1542	Robotics (other than ME)	ME	3+1*	-	3
5	EC1554	Assistive Technologies	ECE	3+1*	-	3
6	EC1555	Introduction to Embedded Systems (other than ECE, CSE & IT)	ECE	3+1*	-	3
7	CS1519	Social Networks	CSE	3+1*	-	3
8	CS1520	Mobile Application Development (other than CSE & IT)	CSE	3+1*	-	3
9	CS1521	Real-Time Systems	CSE	3+1*	-	3
10	IT1520	Network Management Systems	IT	3+1*	-	3
11	IT1521	Fundamentals of E-Commerce (other than CSE & IT)	IT	3+1*	-	3
12	MA1510	Statistical Methods using R Software	Maths	3+1*	-	3


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Gudlavaluru - 521 356, Krishna District. A.P.

Self Study Courses

Sl. No.	Subject Cods	Title of the Subject	Department Offering the Subject	No.of. Credits
1	CE1560	Global Positioning Systems	CE	2
2	CE1561	Interior Design	CE	2
3	EE1553	Electrical Safety Management	EEE	2
4	ME1560	Green Engineering	ME	2
5	ME1561	Managing Innovation & Entrepreneurship	ME	2
6	EC1566	Internet of Things	ECE	2
7	EC1567	Consumer Electronics	ECE	2
8	CS1531	e-Waste Management	CSE	2
9	CS1532	Management Information Systems	CSE	2
10	IT1528	Information & Communication Technology	IT	2
11	BA1503	Organizational Behaviour	MBA	2
12		MOOCs	--	2



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Gudlavalleru - 521 030, Krishna District. A.P.

Sl.No	Subject Cods	Name of the Course / Laboratory	No.of Periods per week		No.of Credits
			L	P	
1	BA1502	Managerial Economics and Financial Analysis	3+1*	-	3
2	EE1502	Electrical & Electronics Engineering	3+1*	-	3
3	ME1508	Kinematics of Machines	3+1*	-	3
4	ME1509	Mechanics of Solids	3+1*	-	3
5	ME1510	Engineering Thermodynamics	3+1*	-	3
6	ME1511	Material Science & Metallurgy	3+1*	-	3
7	EG1505	Employability Skills	1	2	2
8	EE1502	Electrical & Electronics Engineering Lab	-	3	2
9	ME1512	Mechanics of Solids Lab & Metallurgy Lab	-	3	2
		Total	25	8	24
10	NS1501	NSS (Mandatory Non-Credit Course)	-	2	-

II Year - I Semester

II Year - II Semester

Sl.No	Subject Cods	Name of the Course / Laboratory	No.of Periods per week		No.of Credits
			L	P	
1	NS1501	Industrial Engineering & Management	3+1*	-	3
2	ME1513	Dynamics of Machines	3+1*	-	3
3	ME1514	Fluid Mechanics	3+1*	-	3
4	ME1515	Manufacturing Processes	3+1*	-	3
5	ME1516	Thermal Engineering - I	3+1*	-	3
6	ME1517	Machine Drawing	1	4	3
7	ME1518	Professional Ethics and Patents	2	-	2
8		Machine Dynamics Lab and Fuels & Lubricants Lab	-	3	2
9	ME1519	Manufacturing Processes Lab	-	3	2
		Total	23	10	24


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Gudlavalleru - 521 339, Krishna District. A.P.

III Year - I Semester

Sl.No	Subject Cods	Name of the Course / Laboratory	No.of Periods per week		No.of Credits
			L	P	
1	ME1521	Hydraulic Machines and Systems	3+1*	-	3
2	ME1522	Principles of Machine Design	3+1*	-	3
3	ME1523	Metal Cutting & Machine Tools	3+1*	-	3
4	ME1524	Thermal Engineering - II	3+1*	-	3
5	ME1527	Open Elective – I (see the list of Open Electives)	3+1*	-	2
6	ME1521			Machine Tools Lab	
7	ME1528	Thermal Engineering Lab	-	3	2
8	ME1537	Fluid Mechanics and Hydraulic Machines Lab	-	3	2
Total			20	9	21
9	SG1501	Sports & Games / Creative Arts (Mandatory Non-Credit Course)	-	2	-

III Year - I Semester

Sl.No	Subject Cods	Name of the Course / Laboratory	No.of Periods per week		No.of Credits
			L	P	
1	MA1508	Operation Research	3+1*	-	3
2	ME1530	Design of Mechanical Components	3+1*	-	3
3	ME1531	Metrology and Instrumentation	3+1*	-	3
4		Design & Drawing of R.C Structures	3+1*	-	3
5	ME1532 ME1533 ME1534 EE1503	Elective – I Automobile Engineering Finite Element Methods Unconventional Machining Processes Control Systems	3+1*	-	3
6		Open Elective – II (see the list of Open Electives)	-	3	2
7	ME1536		Metrology and Instrumentation Lab	-	3
8		Computer Aided Modeling Lab	-	3	2
9	ME1538	Mini Project			
Total			20	9	21
10	SG1501	Sports & Games / Creative Arts (Mandatory Non-Credit Course)	-	2	-

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IV Year - I Semester

Sl.No	Subject Cods	Name of the Course / Laboratory	No.of Periods per week		No.of Credits
			L	P	
1	ME1539	CAD / CAM	3+1*	-	3
2	ME1540	Heat Transfer	3+1*	-	3
3	ME1541	Elective – II Computational Fluid Dynamics Robotics Interactive Computer Graphics Mechanical Vibrations	3+1*	-	3
4	ME1542				
5	ME1543				
6	ME1544				
7	ME1545	Elective – III Production Planning and Control Tribology Refrigeration & Air Conditioning Fracture Mechanics	3+1*	-	3
8	ME1546				
9	ME1547				
10	ME1548				
11		Open Elective – III (see the list of Open Electives)	3+1*	-	3
12	ME1549	CAD / CAM Lab	-	3	2
13	ME1550	Heat Transfer Lab	-	3	2
14	ME1551	Computational Methods for Engineers Lab	-	3	2
Total			20	9	21

IV Year - II Semester

Sl.No	Subject Cods	Name of the Course / Laboratory	No.of Periods per week		No.of Credits
			L	P	
1	ME1552	Elective – IV Condition Monitoring Rapid Prototyping	3+1*	-	3
2	ME1553				
3	ME1554	Power Plant Engineering Design for Manufacturing & Assembly	3+1*	-	3
4	ME1555				
5	ME1556	Elective – V Nanotechnology Gas Dynamics & Jet Propulsion Automation in Manufacturing Supply Chain Management	3+1*	-	3
6	ME1557				
7	ME1558				
8	ME1559				
9		Self Study Course (see the list of Self Study Courses)			2
10	ME1562	Industrial / Practical Training	-	-	4
11	ME1563	Project Work	-	9	9
Total			20	9	21

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Open Elective - I

Sl. No.	Subject Cods	Title of the Subject	Department Offering the Subject	No.of Periods per week		No.of. Credits
				L	P	
1	CE1522	Remote Sensing and GIS Techniques	CE	3+1*	-	3
2	CE1523	Elements of Civil Engineering (other than CE)	CE	3+1*	-	3
3	EE1522	Modeling and Simulation of Engineering Systems	EEE	3+1*	-	3
4	ME1525	Renewable Energy Sources	ME	3+1*	-	3
5	ME1526	Elements of Mechanical Engineering (other than ME)	ME	3+1*	-	3
6	CS1507	Computer Networks (other than CSE & IT)	CSE	3+1*	-	3
7	CT1506	Object Oriented Programming (other than CSE & IT)	CSE	2+1*	-	3
8	CS1501	Data Structures Using C (other than EEE,ECE,CSE&IT)	CSE	2+1*	-	3
9	CS1508	Cyber Laws	CSE	3+1*	-	3
10	IT1505	Open Source Software	IT	3+1*	-	3
11	IT1506	Fundamentals of Data Base Management Systems (other than CSE & IT)	IT	3+1*	-	3
12	MA1507	Fuzzy Mathematics	Maths	3+1*	-	3

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Open Elective - II

Sl. No.	Subject Cods	Title of the Subject	Department Offering the Subject	No.of Periods per week		No.of. Credits
				L	P	
1	CE1534	Disaster Management	CE	3+1*	-	3
2	CE1535	Solid Waste Management (other than CE)	CE	3+1*	-	3
3	EE1531	Energy Audit, Conservation and Management	EEE	3+1*	-	3
4	ME1535	Material Science (other than ME)	ME	3+1*	-	3
5	EC1540	Automotive Electronics	ECE	3+1*	-	3
6	EC1541	Introduction to MP&MC (other than EEE, ECE, CSE & IT)	ECE	3+1*	-	3
7	CT1525	Cloud Computing (other than CSE & IT)	CSE	3+1*	-	3
8	CS1511	Web Technologies (other than CSE & IT)	CSE	2+1*	-	3
9	CS1513	Virtual Reality	CSE	3+1*	-	3
10	IT1510	Scripting Languages	IT	3+1*	-	3
11	IT1511	Big Data (other than CSE & IT)	IT	3+1*	-	3
12	MA1509	Multi-variate analysis and Special Functions	Maths	3+1*	-	3


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Open Elective - III

Sl. No.	Subject Cods	Title of the Subject	Department Offering the Subject	No.of Periods per week		No.of. Credits
				L	P	
1	CE1548	Building Services (other than CE)	CE	3+1*	-	3
2	EE1542	Modern Optimization Techniques	EEE	3+1*	-	3
3	EE1543	Electrical Power Utilization (other than EEE)	EEE	3+1*	-	3
4	ME1542	Robotics (other than ME)	ME	3+1*	-	3
5	EC1554	Assistive Technologies	ECE	3+1*	-	3
6	EC1555	Introduction to Embedded Systems (other than ECE, CSE & IT)	ECE	3+1*	-	3
7	CS1519	Social Networks	CSE	3+1*	-	3
8	CS1520	Mobile Application Development (other than CSE & IT)	CSE	3+1*	-	3
9	CS1521	Real-Time Systems	CSE	3+1*	-	3
10	IT1520	Network Management Systems	IT	3+1*	-	3
11	IT1521	Fundamentals of E-Commerce (other than CSE & IT)	IT	3+1*	-	3
12	MA1510	Statistical Methods using R Software	Maths	3+1*	-	3


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Self Study Courses

Sl. No.	Subject Cods	Title of the Subject	Department Offering the Subject	No.of. Credits
1	CE1560	Global Positioning Systems	CE	2
2	CE1561	Interior Design	CE	2
3	EE1553	Electrical Safety Management	EEE	2
4	ME1560	Green Engineering	ME	2
5	ME1561	Managing Innovation & Entrepreneurship	ME	2
6	EC1566	Internet of Things	ECE	2
7	EC1567	Consumer Electronics	ECE	2
8	CS1531	e-Waste Management	CSE	2
9	CS1532	Management Information Systems	CSE	2
10	IT1528	Information & Communication Technology	IT	2
11	BA1503	Organizational Behaviour	MBA	2
12		MOOCs	--	2


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II Year - I Semester

Sl.No	Subject Cods	Name of the Course / Laboratory	No.of Periods per week		No.of Credits
			L	P	
1	EE1505	Electrical Technology	3+1*	-	3
2	EC1514	Electronic Devices and Circuits	3+1*	-	3
3	EC1515	Digital Circuits	3+1*	-	3
4	EC1516	Signals and Systems	3+1*	-	3
5	EC1517	Electromagnetic Field Theory	3+1*	-	3
6	EC1518	Probability Theory and Random Variables	3+1*	-	3
7	EG1505	Employability Skills	1	2	2
8	EC1519	Electronic Devices and Circuits Lab	-	3	2
9	EE1506	Networks and Electrical Technology Lab	-	3	2
Total			25	8	24

II Year - II Semester

Sl.No	Subject Cods	Name of the Course / Laboratory	No.of Periods per week		No.of Credits
			L	P	
1	BA1502	Managerial Economics and Financial Analysis	3+1*	-	3
2	EC1520	Analog Circuits	3+1*	-	3
3	EC1521	Pulse Circuits	3+1*	-	3
4	EC1522	Analog Communications	3+1*	-	3
5	EC1523	Transmission Lines and Waveguides	3+1*	-	3
6	EC1524	Control Systems	3+1*	-	3
7	BA1501	Professional Ethics and Patents	1	2	2
8	EC1525	Analog Circuits Lab	-	3	2
9	EC1526	Analog Communications Lab	-	3	2
Total			25	8	24
10	SG1501	Sports and Games/Creative Arts (Mandatory Non-Credit Course)	-	2	-


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III Year - I Semester

Sl.No	Subject Cods	Name of the Course / Laboratory	No.of Periods per week		No.of Credits
			L	P	
1	EC1527	Linear and Digital ICs	3+1*	-	3
2	EC1528	Computer Organization and Microprocessors	3+1*	-	3
3	EC1529	Antennas and Wave Propagation	3+1*	-	3
4	EC1530	Digital Communications	3+1*	-	3
5		Open Elective - I (see the list of Open Electives)	3+1*	-	3
6	EC1531	Pulse and Digital Circuits Lab	-	3	2
7	EC1532	Digital Communications Lab	-	3	2
8	EC1508	Microprocessors and Interfacing Lab	-	3	2
Total			20	9	21

III Year - II Semester

Sl.No	Subject Cods	Name of the Course / Laboratory	No.of Periods per week		No.of Credits
			L	P	
1	EC1533	Digital Signal Processing	3+1*	-	3
2	EC1534	VLSI Design	3+1*	-	3
3	EC1535	Microwave and Optical Communications	3+1*	-	3
4		Elective - I			
5	EC1536	Digital Switching and Multiplexing	3+1*	-	3
6	EC1537	Computer Networks			
7	EC1538	Artificial Neural Networks			
7	EC1539	Electronic System Design			
8		Open Elective - II (see the list of Open Electives)	3+1*	-	3
9		IC Applications Lab	-	3	2
10	EC1543	ECAD Lab	-	3	2
11	EC1544	Mini Project	-	3	2
Total			20	9	21
12	NS1501	NSS (Mandatory Non-Credit Course)	-	2	-


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IV Year - I Semester

Sl.No	Subject Cods	Name of the Course / Laboratory	No.of Periods per week		No.of Credits
			L	P	
1	EC1545	Electronic Measurements and Instrumentation	3+1*	-	3
2	EC1546	Microcontrollers and Embedded Systems	3+1*	-	3
Core Elective – II					
3	EC1547	Cellular and Mobile Communications	3+1*	-	3
4	EC1548	Sensors and Instrumentation			
5	CS1524	Advanced Computer Architecture			
6	EC1549	DSP Architecture and Applications			
Core Elective – III					
7	EC1550	FPGA Design	3+1*	-	3
8	EC1551	Digital TV Engineering			
9	EC1552	Digital Image Processing			
10	EC1553	Embedded Real Time Operating Systems			
11		Open Elective - III (see the list of Open Electives)	3+1*	-	3
12	EC1556	Digital Signal Processing Lab	-	3	2
13	EC1557	Microwave and Optical Communications Lab	-	3	2
14	EC1558	VLSI and Embedded Systems Lab	-	3	2
Total			20	9	21

IV Year - II Semester

Sl.No	Subject	Name of the Course / Laboratory	No.of Periods per week		No.of Credits
			L	P	
Elective – IV					
1	EC1559	Testing and Verification of VLSI Circuits	3+1*	-	3
2	EC1560	Speech Processing			
3	EC1561	Satellite Communications			
4	EC1562	Wireless Sensor Networks			
Elective – V					
5	EC1563	Lower Power VLSI Design	3+1*	-	3
6	EC1564	Radar Engineering			
7	EC1565	Software Engineering			
8	EC1566	Biomedical Instrumentation			
9		Self Study Course (see the list of Self Study Courses)	-	-	2
10	EC1568	Industrial / Practical Training	-	-	4
11	EC1569	Project Work	-	9	9
Total			8	9	21

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Open Elective - I

Sl. No.	Subject Cods	Title of the Subject	Department Offering the Subject	No.of Periods per week		No.of. Credits
				L	P	
1	CE1522	Remote Sensing and GIS Techniques	CE	3+1*	-	3
2	CE1523	Elements of Civil Engineering (other than CE)	CE	3+1*	-	3
3	EE1522	Modeling and Simulation of Engineering Systems	EEE	3+1*	-	3
4	ME1525	Renewable Energy Sources	ME	3+1*	-	3
5	ME1526	Elements of Mechanical Engineering (other than ME)	ME	3+1*	-	3
6	CS1507	Computer Networks (other than CSE & IT)	CSE	3+1*	-	3
7	CT1506	Object Oriented Programming (other than CSE & IT)	CSE	2+1*	-	3
8	CS1501	Data Structures Using C (other than EEE,ECE,CSE&IT)	CSE	2+1*	-	3
9	CS1508	Cyber Laws	CSE	3+1*	-	3
10	IT1505	Open Source Software	IT	3+1*	-	3
11	IT1506	Fundamentals of Data Base Management Systems (other than CSE & IT)	IT	3+1*	-	3
12	MA1507	Fuzzy Mathematics	Maths	3+1*	-	3


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 Gudlavalleru - 521 356, Krishna District. A.P.

Open Elective - II

Sl. No.	Subject Cods	Title of the Subject	Department Offering the Subject	No.of Periods per week		No.of. Credits
				L	P	
1	CE1534	Disaster Management	CE	3+1*	-	3
2	CE1535	Solid Waste Management (other than CE)	CE	3+1*	-	3
3	EE1531	Energy Audit, Conservation and Management	EEE	3+1*	-	3
4	ME1535	Material Science (other than ME)	ME	3+1*	-	3
5	EC1540	Automotive Electronics	ECE	3+1*	-	3
6	EC1541	Introduction to MP&MC (other than EEE, ECE, CSE & IT)	ECE	3+1*	-	3
7	CT1525	Cloud Computing (other than CSE & IT)	CSE	3+1*	-	3
8	CS1511	Web Technologies (other than CSE & IT)	CSE	2+1*	-	3
9	CS1513	Virtual Reality	CSE	3+1*	-	3
10	IT1510	Scripting Languages	IT	3+1*	-	3
11	IT1511	Big Data (other than CSE & IT)	IT	3+1*	-	3
12	MA1509	Multi-variate analysis and Special Functions	Maths	3+1*	-	3


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Open Elective - III

Sl. No.	Subject Cods	Title of the Subject	Department Offering the Subject	No.of Periods per week		No.of. Credits
				L	P	
1	CE1548	Building Services (other than CE)	CE	3+1*	-	3
2	EE1542	Modern Optimization Techniques	EEE	3+1*	-	3
3	EE1543	Electrical Power Utilization (other than EEE)	EEE	3+1*	-	3
4	ME1542	Robotics (other than ME)	ME	3+1*	-	3
5	EC1554	Assistive Technologies	ECE	3+1*	-	3
6	EC1555	Introduction to Embedded Systems (other than ECE, CSE & IT)	ECE	3+1*	-	3
7	CS1519	Social Networks	CSE	3+1*	-	3
8	CS1520	Mobile Application Development (other than CSE & IT)	CSE	3+1*	-	3
9	CS1521	Real-Time Systems	CSE	3+1*	-	3
10	IT1520	Network Management Systems	IT	3+1*	-	3
11	IT1521	Fundamentals of E-Commerce (other than CSE & IT)	IT	3+1*	-	3
12	MA1510	Statistical Methods using R Software	Maths	3+1*	-	3



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Self Study Courses

Sl. No.	Subject Cods	Title of the Subject	Department Offering the Subject	No.of. Credits
1	CE1560	Global Positioning Systems	CE	2
2	CE1561	Interior Design	CE	2
3	EE1553	Electrical Safety Management	EEE	2
4	ME1560	Green Engineering	ME	2
5	ME1561	Managing Innovation & Entrepreneurship	ME	2
6	EC1566	Internet of Things	ECE	2
7	EC1567	Consumer Electronics	ECE	2
8	CS1531	e-Waste Management	CSE	2
9	CS1532	Management Information Systems	CSE	2
10	IT1528	Information & Communication Technology	IT	2
11	BA1503	Organizational Behaviour	MBA	2
12		MOOCs	--	2



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II Year - I Semester

Sl.No	Subject Cods	Name of the Course / Laboratory	No.of Periods per week		No.of Credits
			L	P	
1	MA1506	Discrete Mathematical Structures	3+1*	-	3
2	BA1502	Managerial Economics and Financial Analysis	3+1*	-	3
3	CT1505	Digital Logic Design	3+1*	-	3
4	CT1508	Formal Languages and Automata Theory	3+1*	-	3
5	CT1506	Object Oriented Programming	3+1*	-	3
6	CS1501	Data Structures using C	3+1*	3	3
7	BA1501	Professional Ethics and Patents	2	-	2
8	CT1507	Object Oriented Programming Lab	-	3	2
9	CS1502	Data Structures Using C Lab	-	3	2
Total			20	6	24

II Year - I Semester

Sl.No	Subject Cods	Name of the Course / Laboratory	No.of Periods per week		No.of Credits
			L	P	
1	MA1504	Probability & Statistics	3+1*	-	3
2	CT1509	Compiler Design	3+1*	-	3
3	CS1503	Advanced Data Structures	3+1*	-	3
4	CS1505	Computer Organization and Architecture	3+1*	-	3
5	CT1510	Computer Graphics	3+1*	-	3
6	CT1511	Operating Systems	3+1*	-	3
7	EG1505	Employability Skills	1	2	2
8	CS1504	Advanced Data Structures Lab	-	3	2
9	CS1506	Operating Systems and Compiler Design Lab	-	3	2
Total			20	6	24
10	SG1501	Sports and Games/Creative Arts (Mandatory Non-Credit Course)	-	2	-



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III Year - I Semester

Sl.No	Subject Cods	Name of the Course / Laboratory	No.of Periods per week		No.of Credits
			L	P	
1	CT1512	Database Management Systems	3+1*	-	3
2	CS1510	Computer Networks - I	3+1*	-	3
3	CS1511	Web Technologies	3+1*	-	3
4	CT1514	Object Oriented Analysis and Design	3+1*	-	3
5		Open Elective - I (see the list of Open Electives)	3+1*	-	3
6	CT1513	Database Management Systems Lab	-	3	2
7	CS1509	Case Tools Lab	-	3	2
8	CS1512	Web Technologies Lab	-	3	2
Total			20	9	21

III Year - II Semester

Sl.No	Subject Cods	Name of the Course / Laboratory	No.of Periods per week		No.of Credits
			L	P	
1	CT1515	Design and Analysis of Algorithms	3+1*	-	3
2	CT1516	Software Engineering	3+1*	-	3
3	CS1514	Computer Networks - II	3+1*	-	3
4	CT1517	Elective - I Data Warehousing and Data Mining Micro Processors and Multi Core Systems Human Computer Interface Artificial Intelligence (or) Any other elective depending on industry needs	3+1*	-	3
5	EC1511				
6	CT1518				
7	CT1521				
8		Open Elective - II (see the list of Open Electives)	3+1*	-	3
9	CS1515	Computer Networks Lab	-	3	2
10	CS1516	Software Engineering Lab	-	3	2
11	CS1518	Mini Project	-	3	2
Total			20	9	21
12	NS1501	NSS (Mandatory Non-Credit Course)	-	2	-

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IV Year - I Semester

Sl.No	Subject Cods	Name of the Course / Laboratory	No.of Periods per week		No.of Credits
			L	P	
1	CS1522	Information Security	3+1*	-	3
2	CS1520	Mobile Application Development	3+1*	-	3
3	CT1519	Core Elective – II Digital Image Processing	3+1*	-	3
4	CS1524	Advanced Computer Architecture			
5	CS1525	Embedded Systems			
6	CS1526	Bio-Informatics			
7	CS1527	Core Elective – III Distributed Systems	3+1*	-	3
8	CS1528	Parallel Computing			
9	CT1520	Software Testing Methodologies			
10	CS1529	Web Services			
11		Open Elective - III (see the list of Open Electives)	3+1*	-	3
12	CS1523	Information Security Lab	-	3	2
13	CT1521	Mobile Application Development Lab	-	3	2
14	CT1522	Multi Media Application Development Lab		3	2
Total			20	9	21

IV Year - II Semester

Sl.No	Subject Cods	Name of the Course / Laboratory	No.of Periods per week		No.of Credits
			L	P	
1	CT1524	Elective – IV Distributed Data Bases	3+1*	-	3
2	CT1525	Software Project Management			
3	CS1533	Semantic Web			
4	CT1519	Big Data			
1	CS1534	Elective – V Machine Learning	3+1*	-	3
2	CT1520	Cloud Computing			
3	CT1526	Pattern Recognition			
4	CS1535	Wireless Networks			
5		Self Study Course (see the list of Self Study Courses)	-	-	2
6	CS1536	Industrial / Practical Training	-	-	4
7	CS1537	Project Work	-	9	9
Total			8	9	21



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Open Elective - I

Sl. No.	Subject Cods	Title of the Subject	Department Offering the Subject	No. of Periods per week		No. of Credits
				L	P	
1	CE1522	Remote Sensing and GIS Techniques	CE	3+1*	-	3
2	CE1523	Elements of Civil Engineering (other than CE)	CE	3+1*	-	3
3	EE1522	Modeling and Simulation of Engineering Systems	EEE	3+1*	-	3
4	ME1525	Renewable Energy Sources	ME	3+1*	-	3
5	ME1526	Elements of Mechanical Engineering (other than ME)	ME	3+1*	-	3
6	CS1507	Computer Networks (other than CSE & IT)	CSE	3+1*	-	3
7	CT1506	Object Oriented Programming (other than CSE & IT)	CSE	2+1*	-	3
8	CS1501	Data Structures Using C (other than EEE, ECE, CSE & IT)	CSE	2+1*	-	3
9	CS1508	Cyber Laws	CSE	3+1*	-	3
10	IT1505	Open Source Software	IT	3+1*	-	3
11	IT1506	Fundamentals of Data Base Management Systems (other than CSE & IT)	IT	3+1*	-	3
12	MA1507	Fuzzy Mathematics	Maths	3+1*	-	3


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Open Elective - II

Sl. No.	Subject Cods	Title of the Subject	Department Offering the Subject	No.of Periods per week		No.of. Credits
				L	P	
1	CE1534	Disaster Management	CE	3+1*	-	3
2	CE1535	Solid Waste Management (other than CE)	CE	3+1*	-	3
3	EE1531	Energy Audit, Conservation and Management	EEE	3+1*	-	3
4	ME1535	Material Science (other than ME)	ME	3+1*	-	3
5	EC1540	Automotive Electronics	ECE	3+1*	-	3
6	EC1541	Introduction to MP&MC (other than EEE, ECE, CSE & IT)	ECE	3+1*	-	3
7	CT1525	Cloud Computing (other than CSE & IT)	CSE	3+1*	-	3
8	CS1511	Web Technologies (other than CSE & IT)	CSE	2+1*	-	3
9	CS1513	Virtual Reality	CSE	3+1*	-	3
10	IT1510	Scripting Languages	IT	3+1*	-	3
11	IT1511	Big Data (other than CSE & IT)	IT	3+1*	-	3
12	MA1509	Multi-variate analysis and Special Functions	Maths	3+1*	-	3


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Open Elective - III

Sl. No.	Subject Cods	Title of the Subject	Department Offering the Subject	No.of Periods per week		No.of. Credits
				L	P	
1	CE1548	Building Services (other than CE)	CE	3+1*	-	3
2	EE1542	Modern Optimization Techniques	EEE	3+1*	-	3
3	EE1543	Electrical Power Utilization (other than EEE)	EEE	3+1*	-	3
4	ME1542	Robotics (other than ME)	ME	3+1*	-	3
5	EC1554	Assistive Technologies	ECE	3+1*	-	3
6	EC1555	Introduction to Embedded Systems (other than ECE, CSE & IT)	ECE	3+1*	-	3
7	CS1519	Social Networks	CSE	3+1*	-	3
8	CS1520	Mobile Application Development (other than CSE & IT)	CSE	3+1*	-	3
9	CS1521	Real-Time Systems	CSE	3+1*	-	3
10	IT1520	Network Management Systems	IT	3+1*	-	3
11	IT1521	Fundamentals of E-Commerce (other than CSE & IT)	IT	3+1*	-	3
12	MA1510	Statistical Methods using R Software	Maths	3+1*	-	3


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Self Study Courses

Sl. No.	Subject Cods	Title of the Subject	Department Offering the Subject	No.of. Credits
1	CE1560	Global Positioning Systems	CE	2
2	CE1561	Interior Design	CE	2
3	EE1553	Electrical Safety Management	EEE	2
4	ME1560	Green Engineering	ME	2
5	ME1561	Managing Innovation & Entrepreneurship	ME	2
6	EC1566	Internet of Things	ECE	2
7	EC1567	Consumer Electronics	ECE	2
8	CS1531	e-Waste Management	CSE	2
9	CS1532	Management Information Systems	CSE	2
10	IT1528	Information & Communication Technology	IT	2
11	BA1503	Organizational Behaviour	MBA	2
12		MOOCs	--	2


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II Year - I Semester

Sl.No	Subject Cods	Name of the Course / Laboratory	No.of Periods per week		No.of Credits
			L	P	
1	MA1506	Discrete Mathematical Structures	3+1*	-	3
2	BA1502	Managerial Economics and Financial Analysis	3+1*	-	3
3	MA1504	Probability & Statistics	3+1*	-	3
4	EC1503	Basic Electronics	3+1*	-	3
5	CT1505	Digital Logic Design	3+1*	-	3
6	CT1506	Object Oriented Programming	3+1*	3	3
7	BA1501	Professional Ethics and Patents	2	-	2
8	EC1504	Basic Electronics Lab	-	3	2
9	CT1507	Object Oriented Programming Lab	-	3	2
Total			26	6	24

II Year - II Semester

Sl.No	Subject Cods	Name of the Course / Laboratory	No.of Periods per week		No.of Credits
			L	P	
1	CT1508	Formal Languages & Automata Theory	3+1*	-	3
2	CT1516	Software Engineering	3+1*	-	3
3	IT1502	Computer Organization	3+1*	-	3
4	IT1503	Advanced Data Structures Using C	3+1*	-	3
5	CT1512	Database Management Systems	3+1*	-	3
6	CT1515	Design and Analysis of Algorithms	3+1*	-	3
7	EG1505	Employability Skills	1	2	2
8	IT1504	Advanced Data Structures and Algorithms Lab	-	3	2
9	CT1513	Database Management Systems Lab	-	3	2
Total			26	8	24
10	SG1501	Sports and Games/Creative Arts (Mandatory Non-Credit Course)	-	2	-

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III Year - I Semester

Sl.No	Subject Cods	Name of the Course / Laboratory	No.of Periods per week		No.of Credits
			L	P	
1	EC1507	Micro Processors and Interfacing	3+1*	-	3
2	IT1507	Computer Networks	3+1*	-	3
3	CT1514	Object Oriented Analysis & Design	3+1*	-	3
4	CT1511	Operating Systems	3+1*	-	3
5		Open Elective - I (see the list of Open Electives)	3+1*	-	3
6	EC1508	Micro Processors and Interfacing Lab	-	3	2
7	IT1508	Computer Networks and Case Tools Lab	-	3	2
8	IT1509	Operating Systems Lab	-	3	2
Total			20	9	21

III Year - II Semester

Sl.No	Subject Cods	Name of the Course / Laboratory	No.of Periods per week		No.of Credits
			L	P	
1	CT1509	Compiler Design	3+1*	-	3
2	IT1512	Net Technologies	3+1*	-	3
3	IT1513	Advanced Java and Web Technologies	3+1*	-	3
4	IT1514	Advanced Operating Ssystem			
5	CT1510	Computer Graphics		-	
6	IT1515	Cryptography and Network Security			
7	IT1516	Computer Architecture	3+1*		3
8		Open Elective - II (see the list of Open Electives)	3+1*	-	3
9	IT1517	Net Technologies Lab	-	3	2
10	IT1518	Advanced Java and Web Technologies Lab	-	3	2
11	IT1519	Mini Project	-	3	2
Total			20	9	21
12	NS1501	NSS (Mandatory Non-Credit Course)	-	2	-

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IV Year - I Semester

Sl.No	Subject Cods	Name of the Course / Laboratory	No.of Periods per week		No.of Credits
			L	P	
1	CT1517	Data Warehousing and Data Mining	3+1*	-	3
2	IT1522	Multimedia Application Development	3+1*	-	3
Core Elective – II					
3	CT1523	Distributed Databases	3+1*	-	3
4	CT1518	Human Computer Interaction			
5	IT1523	Bio-Metrics			
6	CT1520	Software Testing Methodologies			
Core Elective – III					
7	IT1524	Information Retrieval Systems	3+1*	-	3
8	CT1519	Digital Image Processing			
9	IT1525	Mobile Computing			
10	CT1524	Software Project Management			
11		Open Elective - III (see the list of Open Electives)	3+1*	-	3
12	CT1521	Mobile Application Lab	-	3	2
13	CT1522	Multimedia Application Development Lab	-	3	2
14	IT1526	Free and Open Source Software Lab		3	2
Total			20	9	21

IV Year - II Semester

Sl.No	Subject Cods	Name of the Course / Laboratory	No.of Periods per week		No.of Credits
			L	P	
Elective – IV					
1	IT1529	E-Commerce	3+1*	-	3
2	CT1526	Pattern Recognition			
3	CT1520	Cloud Computing			
4	IT1530	Business Intelligence			
Elective – V					
1	CT1519	Big Data	3+1*	-	3
2	IT1531	Soft Computing			
3	IT1532	Computer Forensics			
4	IT1533	Software Quality Assurance			
5		Self Study Course (see the list of Self Study Courses)	-	-	2
6	IT1534	Industrial / Practical Training	-	-	4
7	IT1535	Project Work	-	9	9
Total			8	9	21


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Open Elective - I

Sl. No.	Subject Cods	Title of the Subject	Department Offering the Subject	No.of Periods per week		No.of. Credits
				L	P	
1	CE1522	Remote Sensing and GIS Techniques	CE	3+1*	-	3
2	CE1523	Elements of Civil Engineering (other than CE)	CE	3+1*	-	3
3	EE1522	Modeling and Simulation of Engineering Systems	EEE	3+1*	-	3
4	ME1525	Renewable Energy Sources	ME	3+1*	-	3
5	ME1526	Elements of Mechanical Engineering (other than ME)	ME	3+1*	-	3
6	CS1507	Computer Networks (other than CSE & IT)	CSE	3+1*	-	3
7	CT1506	Object Oriented Programming (other than CSE & IT)	CSE	2+1*	-	3
8	CS1501	Data Structures Using C (other than EEE,ECE,CSE&IT)	CSE	2+1*	-	3
9	CS1508	Cyber Laws	CSE	3+1*	-	3
10	IT1505	Open Source Software	IT	3+1*	-	3
11	IT1506	Fundamentals of Data Base Management Systems (other than CSE & IT)	IT	3+1*	-	3
12	MA1507	Fuzzy Mathematics	Maths	3+1*	-	3


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Open Elective - II

Sl. No.	Subject Cods	Title of the Subject	Department Offering the Subject	No.of Periods per week		No.of. Credits
				L	P	
1	CE1534	Disaster Management	CE	3+1*	-	3
2	CE1535	Solid Waste Management (other than CE)	CE	3+1*	-	3
3	EE1531	Energy Audit, Conservation and Management	EEE	3+1*	-	3
4	ME1535	Material Science (other than ME)	ME	3+1*	-	3
5	EC1540	Automotive Electronics	ECE	3+1*	-	3
6	EC1541	Introduction to MP&MC (other than EEE, ECE, CSE & IT)	ECE	3+1*	-	3
7	CT1525	Cloud Computing (other than CSE & IT)	CSE	3+1*	-	3
8	CS1511	Web Technologies (other than CSE & IT)	CSE	2+1*	-	3
9	CS1513	Virtual Reality	CSE	3+1*	-	3
10	IT1510	Scripting Languages	IT	3+1*	-	3
11	IT1511	Big Data (other than CSE & IT)	IT	3+1*	-	3
12	MA1509	Multi-variate analysis and Special Functions	Maths	3+1*	-	3


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Open Elective - III

Sl. No.	Subject Cods	Title of the Subject	Department Offering the Subject	No. of Periods per week		No. of Credits
				L	P	
1	CE1548	Building Services (other than CE)	CE	3+1*	-	3
2	EE1542	Modern Optimization Techniques	EEE	3+1*	-	3
3	EE1543	Electrical Power Utilization (other than EEE)	EEE	3+1*	-	3
4	ME1542	Robotics (other than ME)	ME	3+1*	-	3
5	EC1554	Assistive Technologies	ECE	3+1*	-	3
6	EC1555	Introduction to Embedded Systems (other than ECE, CSE & IT)	ECE	3+1*	-	3
7	CS1519	Social Networks	CSE	3+1*	-	3
8	CS1520	Mobile Application Development (other than CSE & IT)	CSE	3+1*	-	3
9	CS1521	Real-Time Systems	CSE	3+1*	-	3
10	IT1520	Network Management Systems	IT	3+1*	-	3
11	IT1521	Fundamentals of E-Commerce (other than CSE & IT)	IT	3+1*	-	3
12	MA1510	Statistical Methods using R Software	Maths	3+1*	-	3



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Self Study Courses

Sl. No.	Subject Cods	Title of the Subject	Department Offering the Subject	No.of. Credits
1	CE1560	Global Positioning Systems	CE	2
2	CE1561	Interior Design	CE	2
3	EE1553	Electrical Safety Management	EEE	2
4	ME1560	Green Engineering	ME	2
5	ME1561	Managing Innovation & Entrepreneurship	ME	2
6	EC1566	Internet of Things	ECE	2
7	EC1567	Consumer Electronics	ECE	2
8	CS1531	e-Waste Management	CSE	2
9	CS1532	Management Information Systems	CSE	2
10	IT1528	Information & Communication Technology	IT	2
11	BA1503	Organizational Behaviour	MBA	2
12		MOOCs	--	2


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COURSE STRUCTURE

I Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	MA2901	Computational Methods in Engineering	4	-	-	3
2	CE2901	Theory of Elasticity	4	-	-	3
3	CE2902	Structural Dynamics	4	-	-	3
4	CE2903	Advanced Design of Concrete Structures	4	-	-	3
5	CE2904	Stability of Structures	4	-	-	3
6		Professional Elective - I	4	-	-	3
7	CE2908	Advanced Concrete Technology and Structural Engineering Lab	-	-	4	2
Total			24	-	4	20

II Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	CE2909	Earthquake Resistant Design	4	-	-	3
2	CE2910	Finite Element Analysis	4	-	-	3
3	CE2911	Theory of Plates and Shells	4	-	-	3
4	HS2901	Research Methodologies	4	-	-	3
5		Professional Elective - II	4	-	-	3
6		Professional Elective - III	4	-	-	3
7	CE2918	Computer Applications in Structural Engineering Lab	-	-	4	2
8		Seminar	-	-	-	2
Total			24	-	4	22

L : Lecture T : Tutorial P : Practical

M.Tech - Structural Engineering (CE) - R17

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III Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1		Term Paper	-	-	4	2
2		Dissertation (Initiated in third semester)	-	-	-	-
Total			-	-	4	2

IV Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1		Dissertation (Carried out in third & Fourth Semester)	-	-	52	34
Total			-	-	52	34

Professional Electives:

Professional Elective - I

- CE2905 Advanced Concrete Technology
- CE2906 Ground Improvement Techniques
- CE2907 Structural Optimization

Professional Elective - II

- CE2912 Advanced Design of Steel Structures
- CE2913 Pre-Stressed Concrete
- CE2914 Fracture Mechanics of Concrete

Professional Elective - III

- CE2915 Design of Sub-Structures
- CE2916 Design of Bridge Structures
- CE2917 High Rise Buildings



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COURSE STRUCTURE

I Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	MA2902	Linear and Non-Linear Optimization	4	-	-	3
2	EC2901	ARM Architecture and Programming**	3	-	2	3
3	EE2902	Analysis of Power Electronic Converters	4	-	-	3
4	EE2903	Electrical Machine Modeling and Analysis	4	-	-	3
5	EE2904	Modern Control Theory	4	-	-	3
6		Professional Elective - I	4	-	-	3
7	EE2908	Power Electronic System Simulation Lab	-	-	4	2
Total			23	-	6	20

II Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	HS2901	Research Methodology	4	-	-	3
2	EE2911	Advanced Digital Control Systems	4	-	-	3
3	EE2912	Switched Mode Power Converters **	3	-	2	3
4	EE2913	Advanced Electric Drives	4	-	-	3
5		Professional Elective - II	4	-	-	3
6		Professional Elective - III	4	-	-	3
7	EE2919	Power Electronics and Electric Drives Lab	-	-	4	2
8		Seminar	-	-	-	2
Total			23	-	6	22

** Project Based Theory Course

L : Lecture T : Tutorial P : Practical

M.Tech - Electrical Engineering (EE) - R17

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III Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1		Term Paper	-	-	4	2
2		Dissertation (Initiated in third semester)	-	-	-	-
Total			-	-	4	2

IV Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1		Dissertation (Carried out in third & Fourth Semester)	-	-	52	34
Total			-	-	52	34

Professional Electives:

Professional Elective - I

- EE2905 Power Semiconductor Devices & Protection
- EE2906 Special Machines and Control
- EE2907 HVDC Transmission Systems

Professional Elective - II

- EE2914 Renewable Energy Storage Systems
- EE2915 Application of power Electronics to Power Systems
- EE2916 Custom Power Devices

Professional Elective - III

- EC2902 Digital Signal Processing and Applications
- EE2917 AI Techniques
- EE2918 Smart Grids


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COURSE STRUCTURE

I Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	MA2901	Computational Methods in Engineering	4	-	-	3
2	ME2901	Advanced Mechanics of Solids	4	-	-	3
3	ME2902	Analysis and Synthesis of Mechanisms	4	-	-	3
4	ME2903	Mechanical Vibrations **	3	-	2	3
5	ME2904	Gear Engineering	4	-	-	3
6		Professional Elective - I	4	-	-	3
7	ME2908	Machine Dynamics Lab	-	-	4	2
Total			23	-	6	20

II Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	HS2901	Research Methodologies	4	-	-	3
2	ME2909	Finite Element Methods **	3	-	2	3
3	ME2910	Design with Advanced Materials	4	-	-	3
4	ME2911	Design for Manufacturing and Assembly	4	-	-	3
5		Professional Elective - II	4	-	-	3
6		Professional Elective - III	4	-	-	3
7	ME2918	Modeling and Analysis Lab	-	-	4	2
8		Seminar	-	-	-	2
Total			23	-	6	22

** Project Based Theory Course

L : Lecture T : Tutorial P : Practical

M.Tech - Machine Design (ME) - R17

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III Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1		Term Paper	-	-	4	2
2		Dissertation (Initiated in third semester)	-	-	-	-
Total			-	-	4	2

IV Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1		Dissertation (Carried out in third & Fourth Semester)	-	-	52	34
Total			-	-	52	34

Professional Electives:

Professional Elective - I

- ME2905 Rotor Dynamics
- ME2906 Experimental Stress Analysis
- ME2907 Product Design

Professional Elective - II

- ME2912 Fracture Mechanics
- ME2913 Condition Monitoring
- ME2914 Rapid Tooling and Prototyping

Professional Elective - III

- ME2915 Theory of Elasticity
- ME2916 Geometric Modeling
- ME2917 Tribology

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COURSE STRUCTURE

I Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	MA2902	Linear and Non-Linear Optimization Techniques	4	-	-	3
2	EC2903	Principles of Diital Design Using FPGA**	3	-	2	3
3	EC2904	Advanced Digital Signal Processing	4	-	-	3
4	EC2905	Advanced Microcontrollers	4	-	-	3
5	EC2906	Embedded C	4	-	-	3
6		Professional Elective - I	4	-	-	3
7	EC2910	Advanced Digital Design Lab	-	-	4	2
Total			23	-	6	20

II Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	HS2901	Research Methodology	4	-	-	3
2	EC2911	Advanced Embedded Systems **	3	-	2	3
3	EC2912	Principles of CMOS Analog Design	4	-	-	3
4	EC2913	Internet of Things	4	-	-	3
5		Professional Elective - II	4	-	-	3
6		Professional Elective - III	4	-	-	3
7	EC2920	Embedded Systems Lab	-	-	4	2
8		Seminar	-	-	-	2
Total			23	-	6	22

** Project Based Theory Course

L : Lecture T : Tutorial P : Practical




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 Gudlavalleru - 521 356, Krishna District. A.P.

III Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1		Term Paper	-	-	4	2
2		Dissertation (Initiated in third semester)	-	-	-	-
Total			-	-	4	2

IV Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1		Dissertation (Carried out in third & Fourth Semester)	-	-	52	34
Total			-	-	52	34

Professional Electives:

Professional Elective - I

- EC2907 Embedded Networking
- EV2908 Sensors and Actuators
- EE2909 Low Power CMOS Digital Design

Professional Elective - II

- EC2914 SoC Design
- EC2915 Embedded Real Time Operating Systems
- EC2916 Embedded System Design

Professional Elective - III

- EC2917 Advanced Computer Networks
- EC2918 Hardware Software Co-Design
- EC2919 Wireless Sensor Networks



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COURSE STRUCTURE

I Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	MA2903	Statistics with R Programming	4	-	-	3
2	CS2901	Advanced Data Structures & Algorithm Analysis	4	-	-	3
3	CS2902	Wireless Networks	4	-	-	3
4	CS2903	Object Oriented Software Engineering	4	-	-	3
5	CS2904	Business Intelligence **	3	-	2	3
6		Professional Elective - I	4	-	-	3
7	CS2908	Advanced Data Structures & Algorithm and R Programming Lab	-	-	4	2
Total			23	-	6	20

II Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	HS2901	Research Methodology	4	-	-	3
2	CS2909	Information Security	3	-	2	3
3	CS2910	Scripting Languages	4	-	-	3
4	CS2911	Data Analytics **	3	-	2	3
5		Professional Elective - II	4	-	-	3
6		Professional Elective - III	4	-	-	3
7	CS2917	Information Security & Scripting Languages Lab	-	-	4	2
8		Seminar	-	-	-	2
Total			23	-	6	22

** Project Based Theory Course

L : Lecture T : Tutorial P : Practical


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III Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1		Term Paper	-	-	4	2
2		Dissertation (Initiated in third semester)	-	-	-	-
Total			-	-	4	2

IV Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1		Dissertation (Carried out in third & Fourth Semester)	-	-	52	34
Total			-	-	52	34

Professional Electives:

Professional Elective - I

- CS2905 Advanced Computer Architecture
- CS2906 Digital Image Processing
- CS2907 E-Commerce

Professional Elective - II

- CS2912 Advanced Operating Systems
- CS2913 Machine Learning
- CS2914 Software Testing Methodologies

Professional Elective - III

- CT2901 Cloud Computing
- CS2915 Soft Computing
- CS2916 Internet of Things



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COURSE STRUCTURE

I Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	EG2901	Business Communication	4	-	-	3
2	MA2901	Quantitative Analysis for Business Decisions	3	1	-	3
3	BA2901	Perspectives of Management	4	-	-	3
4	BA2902	Managerial Economics	4	-	-	3
5	BA2903	Accounting for Managers	4	-	-	3
6	BA2904	Business Environment and Legislation	4	-	-	3
7	BA2905	Business Law	4	-	-	3
8	BA2906	Information Technology Lab for Business Management	-	-	4	2
Total			27	1	4	23

II Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	MA2903	Business Research Methods	3	1	-	3
2	BA2907	Financial Management	4	-	-	3
3	BA2908	Marketing Management	4	-	-	3
4	BA2909	Human Resource Management	4	-	-	3
5	BA2910	Production & Operations Management	4	-	-	3
6	BA2911	International Business	4	-	-	3
7	BA2912	Organizational Behaviour	4	-	-	3
Total			27	1	-	21

L : Lecture T : Tutorial P : Practical

Master of Business Administration - R17

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III Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits	
			L	T	P		
1	BA2913	Business Policy & Strategic Management	4	-	-	3	
2	BA2914	Logistics & Supply Chain Management	4	-	-	3	
3	BA2915	E-Business	4	-	-	3	
4	BA2916	Business Ethics & Corporate Governance	4	-	-	3	
5		Specialisation - I	Marketing subjects common to all	4	-	-	3
6		Specialisation - II		4	-	-	3
7		Specialisation - III	Finance (or) HR	4	-	-	3
8		Specialisation - IV		4	-	-	3
Total			32	0	0	24	

IV Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits	
			L	T	P		
1	BA2923	Entrepreneurship & Project Management	4	-	-	3	
2		Specialisation - V	Marketing subjects common to all	4	-	-	3
3		Specialisation - VI		4	-	-	3
4		Specialisation - VII	Finance (or) HR	4	-	-	3
5		Specialisation - VIII		4	-	-	3
6		Project Report	-	-	-	6	
7		Comprehensive Viva-Voce	-	-	-	1	
Total			20	0	0	22	

Specialisations:

III Semester	IV Semester
Marketing BA2917 Advertising & Brand Management BA2918 Consumer Behaviour Finance BA2919 Security Analysis & Portfolio Mgt. BA2920 International Financial Management HR BA2921 Training and Development BA2922 Industrial Relations and Labour Laws	Marketing BA2924 Marketing of Services BA2925 Sales & Distribution Management Finance BA2926 Financial Derivatives BA2927 Financial Institutions and Services HR BA2928 Compensation Management BA2929 Management of Change and Development

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