



# 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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**Dr. G. V. S. N. R. V. PRASAD**

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

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

**Principal**

## 1.2.1: List of new courses introduced of the total number of courses across all programs offered during the academic year 2017 - 2018.

S. No	Name of the Course	Course Code	Programme Name
1.	Computer Aided Drafting lab	CE2502	B. Tech-CE
2.	Linear Algebra and Differential Equations	MA2501	B. Tech-CE
3.	Integral Transforms and Multiple integrals	MA2503	B. Tech-CE
4.	Engineering Physics	PH2501	B. Tech-CE
5.	Engineering Physics Lab	PH2503	B. Tech-CE
6.	Engineering Chemistry	CH2501	B. Tech-CE
7.	Engineering Chemistry Lab	CH2502	B. Tech-CE
8.	Engineer and Society	EN2502	B. Tech-CE
9.	Elements of Electrical Circuits	EE2507	B. Tech-EEE
10.	Elements of Mechanical Engineering	ME2503	B. Tech-EEE
11.	Linear Algebra and Differential Equations	MA2501	B. Tech-EEE
12.	Integral transforms and Vector Calculus	MA2504	B. Tech-EEE
13.	Solid State Physics	PH2504	B. Tech-EEE
14.	Solid State Physics Lab	PH2505	B. Tech-EEE
15.	Applied Chemistry	CH2503	B. Tech-EEE
16.	Engineer and Society	EN2502	B. Tech-EEE
17.	Engineering Graphics	ME2505	B. Tech-ME
18.	Engineering Mechanics Lab	ME2508	B. Tech-ME
19.	Linear Algebra and Differential Equations	MA2501	B. Tech-ME
20.	Integral Transforms and Multiple integrals	MA2503	B. Tech-ME
21.	Engineering Physics Lab	PH2503	B. Tech-ME
22.	Physics for Engineers	PH2502	B. Tech-ME
23.	Industrial Chemistry	CH2505	B. Tech-ME
24.	Industrial Chemistry Lab & Engg. Mechanics Lab	ME2508	B. Tech-ME
25.	Engineer and Society	EN2502	B. Tech-ME

S. No	Name of the Course	Course Code	Programme Name
26.	Problem Solving Through Computer Programming	CT2502	B. Tech-ECE
27.	Computer Programming Lab	CT2503	B. Tech-ECE
28.	Linear Electrical Networks	EE2504	B. Tech-ECE
29.	Linear Algebra and Differential Equations	MA2501	B. Tech-ECE
30.	Integral transforms and Vector Calculus	MA2504	B. Tech-ECE
31.	Numerical Methods & Complex Analysis	MA2505	B. Tech-ECE
32.	Solid State Physics	PH2504	B. Tech-ECE
33.	Solid State Physics Lab	PH2505	B. Tech-ECE
34.	Applied Chemistry	CH2503	B. Tech-ECE
35.	Engineer and Society	EN2502	B. Tech-ECE
36.	Problem Solving through Computer Programming	CT2502	B. Tech-CSE
37.	Computer Programming Lab	CT2503	B. Tech-CSE
38.	Python Programming	CT2504	B. Tech-CSE
39.	Linear Algebra and Integral Transforms	MA2502	B. Tech-CSE
40.	Numerical Methods and Differential Equations	MA2506	B. Tech-CSE
41.	Applied Physics	PH2506	B. Tech-CSE
42.	Applied Physics Lab	PH2507	B. Tech-CSE
43.	Engineer and Society	EN2502	B. Tech-CSE
44.	Chemistry	CH2506	B. Tech-IT
45.	Problem Solving through Computer Programming	CT2502	B. Tech-IT
46.	Computer Programming Lab	CT2503	B. Tech-IT
47.	Elements of Electronics Engineering	EC2501	B. Tech-IT
48.	Python Programming	CT2504	B. Tech-IT
49.	Elements of Electronics Engineering Lab	EC2502	B. Tech-IT
50.	Linear Algebra and Integral Transforms	MA2502	B. Tech-IT
51.	Numerical Methods and Differential Equations	MA2506	B. Tech-IT
52.	Applied Physics	PH2506	B. Tech-IT
53.	Applied Physics Lab	PH2507	B. Tech-IT
54.	Chemistry	CH2506	B. Tech-IT
55.	Engineer and Society	EN2502	B. Tech-IT
56.	Mechanics of Solids-I	CE1503	B. Tech-CE
57.	Engineering Geology and GIS Applications	CE1506	B. Tech-CE
58.	Professional Ethics and Patents	BA1501	B. Tech-CE
59.	Engineering Geology Lab	CE1509	B. Tech-CE
60.	Mechanics of Solids-II	CE1510	B. Tech-CE

S. No	Name of the Course	Course Code	Programme Name
61.	Geotechnical Engineering -I	CE1513	B. Tech-CE
62.	Water Resources Engineering -I	CE1514	B. Tech-CE
63.	Advanced surveying and GIS lab	CE1517	B. Tech-CE
64.	Water Resources Engineering -II	CE1520	B. Tech-CE
65.	Concrete Technology Lab	CE1524	B. Tech-CE
66.	Fluid Mechanics and Hydraulic Machines Lab	CE1526	B. Tech-CE
67.	Pre-stressed Concrete	CE1530	B. Tech-CE
68.	Structural Dynamics	CE1531	B. Tech-CE
69.	Project Management	CE1532	B. Tech-CE
70.	Ground Improvement Techniques	CE1533	B. Tech-CE
71.	Environmental engineering lab	CE1536	B. Tech-CE
72.	Mini Project/ Survey Camp	CE1538	B. Tech-CE
73.	Managerial Economics and Financial Analysis	BA1502	B. Tech-CE
74.	Finite Element Method	CE1540	B. Tech-CE
75.	Advanced Structural Analysis	CE1541	B. Tech-CE
76.	Advanced Environmental Engineering	CE1542	B. Tech-CE
77.	Design And Drawing of Irrigation Structures	CE1543	B. Tech-CE
78.	Design of Industrial Structures	CE1544	B. Tech-CE
79.	Air Pollution and its Control	CE1545	B. Tech-CE
80.	Architecture and Town planning	CE1547	B. Tech-CE
81.	Building services	CE1548	B. Tech-CE
82.	Structural Engineering lab	CE1549	B. Tech-CE
83.	Transportation Engineering Lab	CE1550	B. Tech-CE
84.	Computer Applications in Civil Engineering Lab	CE1551	B. Tech-CE
85.	Advanced Concrete structures	CE1552	B. Tech-CE
86.	Docks and Harbour Engineering	CE1555	B. Tech-CE
87.	Industrial Waste Management	CE1557	B. Tech-CE
88.	Global Positioning Systems	CE1560	B. Tech-CE
89.	Remote Sensing and GIS Techniques	CE1522	B. Tech-CE
90.	Elements of civil Engineering	CE1523	B. Tech-CE
91.	Modelling and Simulation of Engineering Systems	EE1522	B. Tech-CE
92.	Renewable Energy Sources	ME1525	B. Tech-CE
93.	Elements of Mechanical Engineering	ME1526	B. Tech-CE
94.	Computer Networks	CS1507	B. Tech-CE
95.	Object Oriented Programming	CT1506	B. Tech-CE
96.	Data Structures using C	CS1501	B. Tech-CE

S. No	Name of the Course	Course Code	Programme Name
97.	Cyber Laws	CS1508	B. Tech-CE
98.	Open Source Software	IT1505	B. Tech-CE
99.	Fundamentals of Data Base Management Systems	IT1506	B. Tech-CE
100.	Fuzzy Mathematics	MA1507	B. Tech-CE
101.	Disaster Management	CE1534	B. Tech-CE
102.	Solid Waste Management	CE1535	B. Tech-CE
103.	Material Science	ME1535	B. Tech-CE
104.	Automotive Electronics	EC1540	B. Tech-CE
105.	Introduction to MPMC	EC1541	B. Tech-CE
106.	Cloud Computing	CT1525	B. Tech-CE
107.	Web Technologies	CS1511	B. Tech-CE
108.	Virtual Reality	CS1513	B. Tech-CE
109.	Scripting Languages	IT1510	B. Tech-CE
110.	Big Data	IT1511	B. Tech-CE
111.	Multi-variant analysis and Special Functions	MA1509	B. Tech-CE
112.	Industrial/Practical Training	CE1562	B. Tech-CE
113.	Fuzzy Mathematics	MA1507	B. Tech-CE
114.	Statistical Methods using R Software	MA1510	B. Tech-CE
115.	Semiconductor Devices and Circuits	EC1502	B. Tech-EEE
116.	Circuit Theory-II	EE1512	B. Tech-EEE
117.	Employability Skills	EG1505	B. Tech-EEE
118.	Fluid Mechanics & Hydraulic Machines Lab	ME1505	B. Tech-EEE
119.	Networks Lab	EE1515	B. Tech-EEE
120.	NSS(Mandatory Non-Credit Course	NS1501	B. Tech-EEE
121.	Digital Circuits	EC1515	B. Tech-EEE
122.	Electrical Measurements& Instrumentation	EE1518	B. Tech-EEE
123.	Professional Ethics & Patents	BA1501	B. Tech-EEE
124.	Semiconductor Devices and Circuits Lab	EC1505	B. Tech-EEE
125.	Signals and Systems	EC1516	B. Tech-EEE
126.	Pulse and Integrated Circuits	EC1506	B. Tech-EEE
127.	Electrical Measurements & Instrumentation Lab	EE1523	B. Tech-EEE
128.	Mini Project	EE1525	B. Tech-EEE
129.	Sports& Games/ Creative Arts	SG1501	B. Tech-EEE
130.	Data Structures using C	CS1501	B. Tech-EEE
131.	Integrated Circuits and PDC Lab	EC1501	B. Tech-EEE
132.	Power Electronics and Drives Lab	EE1532	B. Tech-EEE

S. No	Name of the Course	Course Code	Programme Name
133.	Remote Sensing and GIS Techniques	CE1522	B. Tech-EEE
134.	Elements of civil Engineering	CE1523	B. Tech-EEE
135.	Modelling and Simulation of Engineering Systems	EE1522	B. Tech-EEE
136.	Renewable Energy Sources	ME1525	B. Tech-EEE
137.	Elements of Mechanical Engineering	ME1526	B. Tech-EEE
138.	Computer Networks	CS1507	B. Tech-EEE
139.	Object Oriented Programming	CT1506	B. Tech-EEE
140.	Cyber Laws	CS1508	B. Tech-EEE
141.	Open Source Software	IT1505	B. Tech-EEE
142.	Fundamentals of Data Base Management Systems	IT1506	B. Tech-EEE
143.	Fuzzy Mathematics	MA1507	B. Tech-EEE
144.	Disaster Management	CE1534	B. Tech-EEE
145.	Solid Waste Management	CE1535	B. Tech-EEE
146.	Material Science	ME1535	B. Tech-EEE
147.	Automotive Electronics	EC1540	B. Tech-EEE
148.	Introduction to MPMC	EC1541	B. Tech-EEE
149.	Cloud Computing	CT1525	B. Tech-EEE
150.	Web Technologies	CS1511	B. Tech-EEE
151.	Virtual Reality	CS1513	B. Tech-EEE
152.	Scripting Languages	IT1510	B. Tech-EEE
153.	Big Data	IT1511	B. Tech-EEE
154.	Multi-variant analysis and Special Functions	MA1509	B. Tech-EEE
155.	HVDC Transmission Systems	EE1537	B. Tech-EEE
156.	Electrical Machine Design	EE1539	B. Tech-EEE
157.	Programmable Logic Controller	EE1540	B. Tech-EEE
158.	Computer Organization & Architecture	CS1505	B. Tech-EEE
159.	Electrical Costing & Estimation	EE1546	B. Tech-EEE
160.	Modelling and Analysis of Electrical Machines	EE1547	B. Tech-EEE
161.	High Voltage Engineering	EE1548	B. Tech-EEE
162.	EHV AC/ DC Transmission Systems	EE1551	B. Tech-EEE
163.	Power Plant Instrumentation	EE1552	B. Tech-EEE
164.	Electrical Safety Management( Self Study Course)	EE1553	B. Tech-EEE
165.	Industrial/ Practical Training	EE1554	B. Tech-EEE
166.	Statistical Methods using R Software(Open Elective)	MA1510	B. Tech-EEE
167.	Electrical & Electronics Engineering	EE1501	B. Tech-ME

S. No	Name of the Course	Course Code	Programme Name
168.	Kinematics of Machines	ME1508	B. Tech-ME
169.	Engineering Thermodynamics	ME1510	B. Tech-ME
170.	Material Science & Metallurgy	ME1511	B. Tech-ME
171.	Electrical & Electronics Engineering Lab	EE1502	B. Tech-ME
172.	Industrial Engineering & Management	ME1512	B. Tech-ME
173.	Dynamics of Machines	ME1513	B. Tech-ME
174.	Fluid Mechanics	ME1514	B. Tech-ME
175.	Manufacturing Processes	ME1515	B. Tech-ME
176.	Machine Dynamics Lab and Fuels & Lubricants Lab	ME1519	B. Tech-ME
177.	Hydraulic Machines and Systems	ME1521	B. Tech-ME
178.	Principles of Machine Design	ME1522	B. Tech-ME
179.	Thermal Engineering Lab	ME1528	B. Tech-ME
180.	Fluid Mechanics and Hydraulic Machines Lab	ME1537	B. Tech-ME
181.	Design of Mechanical Components	ME1530	B. Tech-ME
182.	Operation Research	MA1508	B. Tech-ME
183.	Metrology and Instrumentation	ME1531	B. Tech-ME
184.	Computer Aided Modelling Lab	ME1538	B. Tech-ME
185.	Mini Project	ME1538	B. Tech-ME
186.	Automobile Engineering	ME1532	B. Tech-ME
187.	Finite Element Methods	ME1533	B. Tech-ME
188.	Unconventional Machining Processes	ME1534	B. Tech-ME
189.	Control Systems	EE1503	B. Tech-ME
190.	Disaster Management	CE1534	B. Tech-ME
191.	Solid Waste Management	CE1535	B. Tech-ME
192.	Energy Audit, Conservation and Management	EE1531	B. Tech-ME
193.	Material Science	ME1535	B. Tech-ME
194.	Automotive Electronics	EC1540	B. Tech-ME
195.	Introduction to MP&MC	EC1541	B. Tech-ME
196.	Cloud Computing	CT1525	B. Tech-ME
197.	Web Technologies	CS1511	B. Tech-ME
198.	Virtual Reality	CS1513	B. Tech-ME
199.	Scripting Languages	IT1510	B. Tech-ME
200.	Big Data	IT1511	B. Tech-ME
201.	Multi-variant analysis and Special Functions	CS1502	B. Tech-ME
202.	Remote Sensing and GIS Techniques	CE1522	B. Tech-ME
203.	Elements of Civil Engineering	CE1523	B. Tech-ME

S. No	Name of the Course	Course Code	Programme Name
204.	Modelling and Simulation of Engineering Systems	EE1522	B. Tech-ME
205.	Renewable Energy Sources	ME1525	B. Tech-ME
206.	Elements of Mechanical Engineering	ME1526	B. Tech-ME
207.	Computer Networks	CS1507	B. Tech-ME
208.	Object Oriented Programming	CT1506	B. Tech-ME
209.	Data Structures Using C	CS1501	B. Tech-ME
210.	Cyber Laws	CS1508	B. Tech-ME
211.	Open Source Software	IT1505	B. Tech-ME
212.	Fundamentals of Data Base Management Systems	IT1506	B. Tech-ME
213.	Fuzzy Mathematics	MA1507	B. Tech-ME
214.	Heat Transfer	ME1540	B. Tech-ME
215.	CAD / CAM Lab	ME1549	B. Tech-ME
216.	Heat Transfer Lab	ME1550	B. Tech-ME
217.	Computational Methods for Engineers Lab	ME1551	B. Tech-ME
218.	Computational Fluid Dynamics	ME1541	B. Tech-ME
219.	Robotics	ME1542	B. Tech-ME
220.	Interactive Computer Graphics	ME1543	B. Tech-ME
221.	Mechanical Vibrations	ME1544	B. Tech-ME
222.	Production Planning and Control	ME1545	B. Tech-ME
223.	Tribology	ME1546	B. Tech-ME
224.	Refrigeration & Air Conditioning	ME1547	B. Tech-ME
225.	Fracture Mechanics	ME1548	B. Tech-ME
226.	Condition Monitoring	ME1553	B. Tech-ME
227.	Rapid Prototyping	ME1554	B. Tech-ME
228.	Design for Manufacturing & Assembly	ME1555	B. Tech-ME
229.	Supply Chain Management	ME1559	B. Tech-ME
230.	Statistical Methods using R Software	MA1510	B. Tech-ME
231.	Internet of Things	EC1567	B. Tech-ME
232.	Consumer Electronics	EC1568	B. Tech-ME
233.	Electrical Technology	EE1505	B. Tech-ECE
234.	Electronic Devices and Circuits	EC1514	B. Tech-ECE
235.	Digital Circuits	EC1515	B. Tech-ECE
236.	Signals and Systems	EC1516	B. Tech-ECE
237.	Electromagnetic Field Theory	EC1517	B. Tech-ECE
238.	Probability Theory and Random Variables	EC1518	B. Tech-ECE

S. No	Name of the Course	Course Code	Programme Name
239.	Employability Skills	EG1505	B. Tech-ECE
240.	Electronic Devices and Circuits Lab	EC1519	B. Tech-ECE
241.	Networks and Electrical technology lab	EE1506	
242.	Analog Circuits	EC1520	B. Tech-ECE
243.	Analog Communications	EC1522	B. Tech-ECE
244.	Transmission Lines and Waveguides	EC1523	B. Tech-ECE
245.	Control Systems	EC1524	B. Tech-ECE
246.	Analog Circuits Lab	EC1525	B. Tech-ECE
247.	Professional Ethics and Patents	BA1501	B. Tech-ECE
248.	Managerial Economics and Financial Analysis	BA1502	B. Tech-ECE
249.	Linear and Digital ICs	EC1527	B. Tech-ECE
250.	Computer Organization and Microprocessors	EC1528	B. Tech-ECE
251.	Pulse and Digital Circuits Lab	EC1531	B. Tech-ECE
252.	Microprocessors and Interfacing Lab	EC1508	B. Tech-ECE
253.	Digital Signal Processing	EC1533	B. Tech-ECE
254.	VLSI Design	EC1534	B. Tech-ECE
255.	Microwave and Optical Communications	EC1535	B. Tech-ECE
256.	Digital Switching and Multiplexing	EC1536	B. Tech-ECE
257.	Artificial Neural Networks	EC1538	B. Tech-ECE
258.	Electronic System Design	EC1539	B. Tech-ECE
259.	IC Applications Lab	EC1542	B. Tech-ECE
260.	ECAD Lab	EC1543	B. Tech-ECE
261.	Mini Project	EC1544	B. Tech-ECE
262.	Electronic Measurements and Instrumentation	EC1545	B. Tech-ECE
263.	Microcontrollers and Embedded Systems	EC1546	B. Tech-ECE
264.	Sensors and Instrumentation	EC1548	B. Tech-ECE
265.	Advanced Computer Architecture	CS1524	B. Tech-ECE
266.	DSP Architecture and Applications	EC1549	B. Tech-ECE
267.	FPGA Design	EC1550	B. Tech-ECE
268.	Digital TV Engineering	EC1551	B. Tech-ECE
269.	Digital Image Processing	EC1552	B. Tech-ECE
270.	Embedded Real Time Operating Systems	EC1553	B. Tech-ECE
271.	Microwave and Optical Communications Lab	EC1557	B. Tech-ECE
272.	VLSI and Embedded Systems Lab	EC1558	B. Tech-ECE
273.	Testing and Verification of VLSI Circuits	EC1559	B. Tech-ECE
274.	Low Power VLSI Design	EC1563	B. Tech-ECE
275.	Software Engineering	EC1565	B. Tech-ECE



S. No	Name of the Course	Course Code	Programme Name
276.	Bio-Medical Instrumentation	EC1566	B. Tech-ECE
277.	Internet of Things	EC1567	B. Tech-ECE
278.	Consumer Electronics	EC1568	B. Tech-ECE
279.	Industrial/Practical Training	EC1569	B. Tech-ECE
280.	Remote Sensing and GIS Techniques	CE1522	B. Tech-ECE
281.	Elements of civil Engineering	CE1523	B. Tech-ECE
282.	Modelling and Simulation of Engineering Systems	EE1522	B. Tech-ECE
283.	Renewable Energy Sources	ME1525	B. Tech-ECE
284.	Elements of Mechanical Engineering	ME1526	B. Tech-ECE
285.	Computer Networks	CS1507	B. Tech-ECE
286.	Object Oriented Programming	CT1506	B. Tech-ECE
287.	Data Structures using C	CS1501	B. Tech-ECE
288.	Cyber Laws	CS1508	B. Tech-ECE
289.	Open Source Software	IT1505	B. Tech-ECE
290.	Fundamentals of Data Base Management Systems	IT1506	B. Tech-ECE
291.	Fuzzy Mathematics	MA1507	B. Tech-ECE
292.	Disaster Management	CE1534	B. Tech-ECE
293.	Solid Waste Management	CE1535	B. Tech-ECE
294.	Material Science	ME1535	B. Tech-ECE
295.	Automotive Electronics	EC1540	B. Tech-ECE
296.	Introduction to MPMC	EC1541	B. Tech-ECE
297.	Cloud Computing	CT1525	B. Tech-ECE
298.	Web Technologies	CS1511	B. Tech-ECE
299.	Virtual Reality	CS1513	B. Tech-ECE
300.	Scripting Languages	IT1510	B. Tech-ECE
301.	Big Data	IT1511	B. Tech-ECE
302.	Multi-variant analysis and Special Functions	MA1509	B. Tech-ECE
303.	Mobile application development	CS1520	B. Tech-ECE
304.	Statistical Methods using R Software	MA1510	B. Tech-ECE
305.	Data Structures using C	CS1501	B. Tech-CSE
306.	Object Oriented Programming	CT1506	B. Tech-CSE
307.	Data Structures Lab	CS1502	B. Tech-CSE
308.	Object Oriented Programming Lab	CT1507	B. Tech-CSE
309.	Operating Systems	CT1511	B. Tech-CSE
310.	Formal Languages and Automata Theory	CT1508	B. Tech-CSE
311.	Advanced Data Structures lab	CS1504	B. Tech-CSE

<b>S. No</b>	<b>Name of the Course</b>	<b>Course Code</b>	<b>Programme Name</b>
312.	computer graphics	CT1510	B. Tech-CSE
313.	computer organization	CS1505	B. Tech-CSE
314.	Compiler Design	CT1509	B. Tech-CSE
315.	Operating Systems and Compiler Design lab	CS1506	B. Tech-CSE
316.	Database Management System	CT1512	B. Tech-CSE
317.	Object Oriented Analysis and design	CT1514	B. Tech-CSE
318.	Computer Network - 1	CS1510	B. Tech-CSE
319.	Computer Network - 2	CS1514	B. Tech-CSE
320.	Computer Network lab	CS1515	B. Tech-CSE
321.	Web Technologies	CS1511	B. Tech-CSE
322.	Database Management Systems Lab	CT1513	B. Tech-CSE
323.	Web Technologies Lab	CS1512	B. Tech-CSE
324.	Software Engineering	CT1516	B. Tech-CSE
325.	Data Warehousing and Data Mining	CT1517	B. Tech-CSE
326.	Human Computer Interface	CT1518	B. Tech-CSE
327.	Case Tools lab	CS1509	B. Tech-CSE
328.	Information Security	CS1522	B. Tech-CSE
329.	Embedded Systems	CS1525	B. Tech-CSE
330.	Bio-Informatics	CS1526	B. Tech-CSE
331.	Distributed Systems	CS1527	B. Tech-CSE
332.	Mobile Application Development	CS1520	B. Tech-CSE
333.	Digital Image Processing	CT1521	B. Tech-CSE
334.	Parallel Computing	CS1528	B. Tech-CSE
335.	Multi Media Application Development lab	CT1522	B. Tech-CSE
336.	Web Services	CS1529	B. Tech-CSE
337.	Information Security Lab	CS1523	B. Tech-CSE
338.	Distributed Data Bases	CT1524	B. Tech-CSE
339.	Software Project Management	CT1525	B. Tech-CSE
340.	Semantic Web	CS1533	B. Tech-CSE
341.	Machine Learning	CS1534	B. Tech-CSE
342.	Cloud Computing	CT1520	B. Tech-CSE
343.	Wireless Networks	CS1535	B. Tech-CSE
344.	Big Data	CT1519	B. Tech-CSE
345.	e- Waste Management	CS1531	B. Tech-CSE
346.	Management Information Systems	CS1532	B. Tech-CSE
347.	Advanced Computer Architecture	CS1524	B. Tech-CSE
348.	Remote Sensing and GIS Techniques	CE1522	B. Tech-CSE

S. No	Name of the Course	Course Code	Programme Name
349.	Elements of civil Engineering	CE1523	B. Tech-CSE
350.	Modelling and Simulation of Engineering Systems	EE1522	B. Tech-CSE
351.	Renewable Energy Sources	ME1525	B. Tech-CSE
352.	Elements of Mechanical Engineering	ME1526	B. Tech-CSE
353.	Cyber Laws	CS1508	B. Tech-CSE
354.	Open Source Software	IT1505	B. Tech-CSE
355.	Fuzzy Mathematics	MA1507	B. Tech-CSE
356.	Disaster Management	CE1534	B. Tech-CSE
357.	Solid Waste Management	CE1535	B. Tech-CSE
358.	Material Science	ME1535	B. Tech-CSE
359.	Automotive Electronics	EC1540	B. Tech-CSE
360.	Introduction to MPMC	EC1541	B. Tech-CSE
361.	Cloud Computing	CT1525	B. Tech-CSE
362.	Web Technologies	CS1511	B. Tech-CSE
363.	Virtual Reality	CS1513	B. Tech-CSE
364.	Scripting Languages	IT1510	B. Tech-CSE
365.	Multi-variant analysis and Special Functions	MA1509	B. Tech-CSE
366.	Social Networks	CS1519	B. Tech-CSE
367.	Real Time Systems	CS1521	B. Tech-CSE
368.	Statistical Methods using R Software	MA1510	B. Tech-CSE
369.	Managerial Economics and Financial Analysis	BA1502	B. Tech-IT
370.	Basic Electronics	EC1503	B. Tech-IT
371.	Object Oriented Programming	CT1506	B. Tech-IT
372.	Object Oriented Programming Lab	CT1507	B. Tech-IT
373.	Basic Electronics Lab	EC1504	B. Tech-IT
374.	Professional Ethics and Patents	BA1501	B. Tech-IT
375.	Formal Languages & Automata Theory	CT1508	B. Tech-IT
376.	Software Engineering	CT1516	B. Tech-IT
377.	Database Management Systems	CT1512	B. Tech-IT
378.	Employability Skills	EG1505	B. Tech-IT
379.	Advanced Data Structures and Algorithms Lab	IT1504	B. Tech-IT
380.	Database Management Systems Lab	CT1513	B. Tech-IT
381.	Micro Processors and Interfacing	EC1507	B. Tech-IT
382.	Object Oriented Analysis & Design	CT1514	B. Tech-IT
383.	Operating Systems	CT1511	B. Tech-IT
384.	Micro Processors and Interfacing Lab	EC1508	B. Tech-IT


S. No	Name of the Course	Course Code	Programme Name
385.	Computer Networks and Case Tools Lab	IT1508	B. Tech-IT
386.	Operating Systems Lab	IT1509	B. Tech-IT
387.	Compiler Design	CT1509	B. Tech-IT
388.	.Net Technologies	IT1512	B. Tech-IT
389.	Advanced Java and Web Technologies	IT1513	B. Tech-IT
390.	Computer Graphics	CT1510	B. Tech-IT
391.	Computer Architecture	IT1516	B. Tech-IT
392.	.Net Technologies Lab	IT1517	B. Tech-IT
393.	Advanced Java and Web Technologies Lab	IT1518	B. Tech-IT
394.	Data Warehousing and Data Mining	CT1517	B. Tech-IT
395.	Multimedia Application Development	IT1522	B. Tech-IT
396.	Distributed Databases	CT1524	B. Tech-IT
397.	Human Computer Interaction	CT1518	B. Tech-IT
398.	Bio-Metrics	IT1523	B. Tech-IT
399.	Software Testing Methodologies	CT1522	B. Tech-IT
400.	Information Retrieval Systems	IT1524	B. Tech-IT
401.	Digital Image Processing	CT1521	B. Tech-IT
402.	Mobile Computing	IT1525	B. Tech-IT
403.	Software Project Management	CT1525	B. Tech-IT
404.	Mobile Application Lab	IT1527	B. Tech-IT
405.	Multimedia Application Development Lab	CT1523	B. Tech-IT
406.	Free and Open Source Software Lab	IT1526	B. Tech-IT
407.	E-Commerce	IT1529	B. Tech-IT
408.	Cloud Computing	CT1520	B. Tech-IT
409.	Business Intelligence	IT1530	B. Tech-IT
410.	Big Data	CT1519	B. Tech-IT
411.	Soft Computing	IT1531	B. Tech-IT
412.	Computer Forensics	IT1532	B. Tech-IT
413.	Software Quality Assurance	IT1533	B. Tech-IT
414.	Industrial / Practical Training	IT1534	B. Tech-IT
415.	Remote Sensing and GIS Techniques	CE1522	B. Tech-IT
416.	Elements of civil Engineering	CE1523	B. Tech-IT
417.	Modelling and Simulation of Engineering Systems	EE1522	B. Tech-IT
418.	Renewable Energy Sources	ME1525	B. Tech-IT
419.	Elements of Mechanical Engineering	ME1526	B. Tech-IT
420.	Cyber Laws	CS1508	B. Tech-IT

S. No	Name of the Course	Course Code	Programme Name
421.	Open Source Software	IT1505	B. Tech-IT
422.	Fuzzy Mathematics	MA1507	B. Tech-IT
423.	Disaster Management	CE1534	B. Tech-IT
424.	Solid Waste Management	CE1535	B. Tech-IT
425.	Material Science	ME1535	B. Tech-IT
426.	Automotive Electronics	EC1540	B. Tech-IT
427.	Introduction to MPMC	EC1541	B. Tech-IT
428.	Virtual Reality	CS1513	B. Tech-IT
429.	Scripting Languages	IT1510	B. Tech-IT
430.	Multi-variant analysis and Special Functions	MA1509	B. Tech-IT
431.	Social Networks	CS1519	B. Tech-IT
432.	Real Time Systems	CS1521	B. Tech-IT
433.	Network Management Systems	IT1519	B. Tech-IT
434.	Fundamentals of E-Commerce	IT1520	B. Tech-IT
435.	Statistical Methods using R Software	MA1510	B. Tech-IT
436.	Computational Methods in Engineering	MA2901	B. Tech-IT
437.	Advanced Concrete Technology and Structural Engineering lab	CE2908	M. Tech-SE
438.	Research Methodologies	BA2901	M. Tech-SE
439.	Ground Improvement Techniques	CE2906	M. Tech-SE
440.	Advanced Design of Steel Structures	CE2912	M. Tech-SE
441.	Fracture Mechanics of Concrete	CE2914	M. Tech-SE
442.	Design of Sub-structures	CE2915	M. Tech-SE
443.	High Rise Buildings	CE2917	M. Tech-SE
444.	Linear and Non-Linear Optimization technique	MA2902	M. Tech-PEED
445.	Advanced Electric Drives	EE2912	M. Tech-PEED
446.	Research Methodology	EE2910	M. Tech-PEED
447.	Application of Power Electronics to Power Systems	EE2915	M. Tech-PEED
448.	Advanced Digital Control Systems	EE3915	M. Tech-PEED
449.	Computational Methods in Engineering	MA2901	M. Tech-MD
450.	Advanced Mechanics of Solids	ME2901	M. Tech-MD
451.	Analysis and Synthesis of Mechanisms	ME2902	M. Tech-MD
452.	Mechanical Vibrations	ME2903	M. Tech-MD
453.	Gear Engineering	ME2904	M. Tech-MD
454.	Machine Dynamics Lab	ME2908	M. Tech-MD
455.	Research Methodologies	ME2905	M. Tech-MD

S. No	Name of the Course	Course Code	Programme Name
456.	Finite Element Methods	ME2909	M. Tech-MD
457.	Design with Advanced Materials	ME2910	M. Tech-MD
458.	Design for Manufacturing and Assembly	ME2911	M. Tech-MD
459.	Rotor Dynamics	ME2905	M. Tech-MD
460.	Experimental Stress Analysis	ME2906	M. Tech-MD
461.	Product Design	ME2907	M. Tech-MD
462.	Fracture Mechanics	ME2912	M. Tech-MD
463.	Condition Monitoring	ME2913	M. Tech-MD
464.	Rapid Tooling and Prototyping	ME2914	M. Tech-MD
465.	Theory of Elasticity	ME2915	M. Tech-MD
466.	Geometric Modelling	ME2916	M. Tech-MD
467.	Tribology	ME2917	M. Tech-MD
468.	Modelling and Analysis Lab	ME2918	M. Tech-MD
469.	Linear and Non-Linear Optimization Techniques	MA2902	M. Tech-ES
470.	Research Methodologies	HS2901	M. Tech-ES
471.	Principles of Digital Design Using FPGA	EC2903	M. Tech-ES
472.	Advanced Digital Signal Processing	EC2904	M. Tech-ES
473.	Advanced Microcontrollers	EC2905	M. Tech-ES
474.	Advanced Digital Design Lab	EC2910	M. Tech-ES
475.	Advanced Embedded Systems	EC2911	M. Tech-ES
476.	Principles of CMOS Analog Design	EC2912	M. Tech-ES
477.	Internet of Things	EC2913	M. Tech-ES
478.	Advanced Digital Design Lab	EC2910	M. Tech-ES
479.	Low Power CMOS Digital Design	EC2909	M. Tech-ES
480.	Embedded Real Time Operating Systems	EC2915	M. Tech-ES
481.	Embedded System Design	EC2916	M. Tech-ES
482.	Advanced Computer Networks	EC2917	M. Tech-CSE
483.	Statistics with R Programming	MA2903	M. Tech-CSE
484.	Advanced Data Structures & Algorithm Analysis	CS2901	M. Tech-CSE
485.	Object Oriented Software Engineering	CS2903	M. Tech-CSE
486.	Business Intelligence	CS2904	M. Tech-CSE
487.	Advanced Data Structures & Algorithm and R Programming Lab	CS2908	M. Tech-CSE
488.	Research Methodology	HS2901	M. Tech-CSE
489.	Information Security	CS2909	M. Tech-CSE
490.	Scripting Languages	CS2910	M. Tech-CSE
491.	Data Analytics	CS2911	M. Tech-CSE

S. No	Name of the Course	Course Code	Programme Name
492.	Information Security & Scripting Languages Lab	CS2917	M. Tech-CSE
493.	Advanced Computer architecture	CS2905	M. Tech-CSE
494.	Advanced Operating Systems	CS2912	M. Tech-CSE
495.	Machine Learning	CS2913	M. Tech-CSE
496.	Software Testing Methodologies	CS2914	M. Tech-CSE
497.	Soft Computing	CS2915	M. Tech-CSE
498.	Internet of Things	CS2916	M. Tech-CSE
499.	Business Environment and Legislation	BA2904	MBA
500.	Business Law	BA2905	MBA
501.	E-Business	BA2915	MBA
502.	Training & Development	BA2921	MBA
503.	Industrial Relations and Labour Laws	BA2922	MBA
504.	Sales & Distribution Management	BA2925	MBA
505.	Compensation Management	BA2928	MBA

  
 IQAC Convener  
**IQAC**

  
 Principal  
**PRINCIPAL**  
**Seshadri Rao**  
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 Seshadri Rao Knowledge Village  
 Gudlavalleru - 521 856, Krishna District, A.P.

## 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
<b>Total</b>			<b>19</b>	<b>1</b>	<b>10</b>	<b>20</b>

\* 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
<b>Total</b>			<b>16</b>	<b>3</b>	<b>12</b>	<b>20</b>

L : Lecture      T : Tutorial      P : Practical



### 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
<b>Total</b>			<b>19</b>	<b>1</b>	<b>10</b>	<b>20</b>

\* 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
<b>Total</b>			<b>20</b>	<b>3</b>	<b>6</b>	<b>20</b>

L : Lecture

T : Tutorial

P : Practical

**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
<b>Total</b>			<b>19</b>	<b>2</b>	<b>10</b>	<b>21</b>

\* 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
<b>Total</b>			<b>16</b>	<b>3</b>	<b>10</b>	<b>19</b>

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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
<b>Total</b>			<b>19</b>	<b>1</b>	<b>8</b>	<b>19</b>

### 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
<b>Total</b>			<b>20</b>	<b>2</b>	<b>10</b>	<b>21</b>

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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
<b>Total</b>			<b>22</b>	<b>1</b>	<b>6</b>	<b>20</b>

**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
<b>Total</b>			<b>20</b>	<b>2</b>	<b>8</b>	<b>20</b>

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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
<b>Total</b>			<b>19</b>	<b>1</b>	<b>8</b>	<b>19</b>

**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
<b>Total</b>			<b>20</b>	<b>2</b>	<b>10</b>	<b>21</b>

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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
		<b>Total</b>	<b>23</b>	<b>9</b>	<b>24</b>
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
		<b>Total</b>	<b>25</b>	<b>8</b>	<b>24</b>



  
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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	<b>Elective – I</b> Prestressed Concrete	3+1*	-	3
5	CE1531	Structural Dynamics			
6	CE1532	Project Management			
7	CE1533	Ground Improvement Techniques			
8		<b>Open Elective – II</b> (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
		<b>Total</b>	<b>20</b>	<b>8</b>	<b>21</b>
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		<b>Open Elective - I</b> (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
		<b>Total</b>	<b>20</b>	<b>9</b>	<b>21</b>
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
<b>Elective – II</b>					
3	CE1540	Finite Element Method	3+1*	-	3
4	CE1541	Advanced Structural Analysis			
5	CE1542	Advanced Environmental Engineering			
6	CE1543	Design & Drawing of Irrigation Structures			
<b>Elective – III</b>					
7	CE1544	Design of Industrial Structures	3+1*	-	3
8	CE1545	Air Pollution & Its Control			
9	CE1546	Earthquake Resistant Design			
10	CE1547	Architecture & Town Planning			
11		<b>Open Elective – III</b> (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
<b>Total</b>			<b>20</b>	<b>9</b>	<b>21</b>

**IV Year - II Semester**

Sl.No	Subject Cods	Name of the Course / Laboratory	No.of Periods per week		No.of Credits
			L	P	
<b>Elective – IV</b>					
1	CE1552	Advanced Concrete Structures	3+1*	-	3
2	CE1553	Environmental Impact, Assessment & Management			
3	CE1554	Soil Dynamics & Machine Foundations			
4	CE1555	Docks & Harbour Engineering			
<b>Elective – V</b>					
5	CE1556	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		<b>Self Study Course</b> (see the list of Self Study Courses)			2
10	CE1562	Industrial / Practical Training	-	-	4
11	CE1563	Project Work	-	9	9
<b>Total</b>			<b>20</b>	<b>9</b>	<b>21</b>



  
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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	ME1505	Fluid Mechanics & Hydraulic Machines Lab	-	3	2
9	EE1515	Networks Lab	-	3	2
		<b>Total</b>	<b>25</b>	<b>8</b>	<b>24</b>
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
		<b>Total</b>	<b>26</b>	<b>6</b>	<b>24</b>

  
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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		<b>Open Elective - I</b> (see the list of Open Electives)	3+1*	-	3
6		Electrical Measurements & Instrumentation	-	3	2
	EE1523	Lab	-	3	2
7	EE1524	Control Systems Lab	-	3	2
8	EE1525	Mini Project	-	3	2
		<b>Total</b>	<b>20</b>	<b>9</b>	<b>21</b>
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
		<b>Elective – I</b>			
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		<b>Open Elective – II</b> (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
		<b>Total</b>	<b>20</b>	<b>9</b>	<b>21</b>

  
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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	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		<b>Open Elective - III</b> (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
<b>Total</b>			<b>20</b>	<b>9</b>	<b>21</b>

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		<b>Self Study Course</b> (see the list of Self Study Courses)	-	-	2
10	EE1554	Industrial / Practical Training	-	-	4
11	EE1555	Project Work	-	9	9
<b>Total</b>			<b>8</b>	<b>9</b>	<b>21</b>

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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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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
		<b>Total</b>	<b>25</b>	<b>8</b>	<b>24</b>
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	ME1501	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 &			
	BA1501	Lubricants Lab	-	3	2
9	ME1519	Manufacturing Processes Lab	-	3	2
		<b>Total</b>	<b>23</b>	<b>10</b>	<b>24</b>

  
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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	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 ME1521	Open Elective – I (see the list of Open Electives) Machine Tools Lab	3+1*	-	2
6				3	
7	ME1528	Thermal Engineering Lab	-	3	2
8	ME1537	Fluid Mechanics and Hydraulic Machines Lab	-	3	2
<b>Total</b>			<b>20</b>	<b>9</b>	<b>21</b>
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
7						3
8				ME1536		Metrology and Instrumentation Lab
8	ME15	Computer Aided Modeling Lab	-	3	2	
9	ME1538	Mini Project				
<b>Total</b>			<b>20</b>	<b>9</b>	<b>21</b>	
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	<b>Elective – II</b> Computational Fluid Dynamics	3+1*	-	3
4	ME1542	Robotics			
5	ME1543	Interactive Computer Graphics			
6	ME1544	Mechanical Vibrations			
7	ME1545	<b>Elective – III</b> Production Planning and Control	3+1*	-	3
8	ME1546	Tribology			
9	ME1547	Refrigeration & Air Conditioning			
10	ME1548	Fracture Mechanics			
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
<b>Total</b>			<b>20</b>	<b>9</b>	<b>21</b>

**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	<b>Elective – IV</b> Condition Monitoring	3+1*	-	3
2	ME1553	Rapid Prototyping			
3	ME1554	Power Plant Engineering			
4	ME1555	Design for Manufacturing & Assembly			
5	ME1556	<b>Elective – V</b> Nanotechnology	3+1*	-	3
6	ME1557	Gas Dynamics & Jet Propulsion			
7	ME1558	Automation in Manufacturing			
8	ME1559	Supply Chain Management			
9		<b>Self Study Course</b> (see the list of Self Study Courses)			2
10	ME1562	Industrial / Practical Training	-	-	4
11	ME1563	Project Work	-	9	9
<b>Total</b>			<b>20</b>	<b>9</b>	<b>21</b>

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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) Modern Optimization Techniques	CE	3+1*	-	3
2	EE1542		EEE	3+1*	-	3
3	EE1543	Electrical Power Utilization (other than EEE)	EEE	3+1*	-	3
4	ME1542	Robotics (other than ME) Assistive Technologies Introduction to Embedded Systems (other than ECE, CSE & IT)	ME	3+1*	-	3
5	EC1554		ECE	3+1*	-	3
6	EC1555		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 Network Management Systems	CSE	3+1*	-	3
10	IT1520		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
<b>Total</b>			<b>25</b>	<b>8</b>	<b>24</b>

## 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
<b>Total</b>			<b>25</b>	<b>8</b>	<b>24</b>
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		<b>Open Elective - I</b> (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
<b>Total</b>			<b>20</b>	<b>9</b>	<b>21</b>

### 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		<b>Elective - I</b>			
5	EC1536	Digital Switching and Multiplexing	3+1*	-	3
6	EC1537	Computer Networks			
7	EC1538	Artificial Neural Networks			
	EC1539	Electronic System Design			
8		<b>Open Elective - II</b> (see the list of Open Electives)	3+1*	-	3
9	EC1542	IC Applications Lab	-	3	2
10	EC1543	ECAD Lab	-	3	2
11	EC1544	Mini Project	-	3	2
<b>Total</b>			<b>20</b>	<b>9</b>	<b>21</b>
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
<b>Core Elective – II</b>					
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			
<b>Core Elective – III</b>					
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		<b>Open Elective - III</b> (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
<b>Total</b>			<b>20</b>	<b>9</b>	<b>21</b>

IV Year - II Semester

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



  
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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	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
<b>Total</b>			<b>20</b>	<b>6</b>	<b>24</b>

## 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
<b>Total</b>			<b>20</b>	<b>6</b>	<b>24</b>
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
<b>Total</b>			<b>20</b>	<b>9</b>	<b>21</b>

### 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	3+1*	-	3
5	EC1511	Micro Processors and Multi Core Systems			
6	CT1518	Human Computer Interface			
7	CT1521	Artificial Intelligence (or) Any other elective depending on industry needs			
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
<b>Total</b>			<b>20</b>	<b>9</b>	<b>21</b>
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	<b>Core Elective – II</b> Digital Image Processing	3+1*	-	3
4	CS1524	Advanced Computer Architecture			
5	CS1525	Embedded Systems			
6	CS1526	Bio-Informatics			
7	CS1527	<b>Core Elective – III</b> Distributed Systems	3+1*	-	3
8	CS1528	Parallel Computing			
9	CT1520	Software Testing Methodologies			
10	CS1529	Web Services			
11		<b>Open Elective - III</b> (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
<b>Total</b>			<b>20</b>	<b>9</b>	<b>21</b>

**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	<b>Elective – IV</b> Distributed Data Bases	3+1*	-	3
2	CT1525	Software Project Management			
3	CS1533	Semantic Web			
4	CT1519	Big Data			
1	CS1534	<b>Elective – V</b> 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
<b>Total</b>			<b>8</b>	<b>9</b>	<b>21</b>

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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
<b>Total</b>			<b>26</b>	<b>6</b>	<b>24</b>

## 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
<b>Total</b>			<b>26</b>	<b>8</b>	<b>24</b>
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		<b>Open Elective - I</b> (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
<b>Total</b>			<b>20</b>	<b>9</b>	<b>21</b>

### 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		<b>Open Elective - II</b> (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
<b>Total</b>			<b>20</b>	<b>9</b>	<b>21</b>
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
3	CT1523	Distributed Databases	3+1*	-	3
4	CT1518	Human Computer Interaction			
5	IT1523	Bio-Metrics			
6	CT1520	Software Testing Methodologies			
7	IT1524	Information Retrieval Systems	3+1*	-	3
8	CT1519	Digital Image Processing			
9	IT1525	Mobile Computing			
10	CT1524	Software Project Management			
11		<b>Open Elective - III</b> (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
<b>Total</b>			<b>20</b>	<b>9</b>	<b>21</b>

IV Year - II Semester

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

  
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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
<b>Total</b>			<b>24</b>	<b>-</b>	<b>4</b>	<b>20</b>

### 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
<b>Total</b>			<b>24</b>	<b>-</b>	<b>4</b>	<b>22</b>

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

- 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
<b>Total</b>			<b>23</b>	<b>-</b>	<b>6</b>	<b>20</b>

### 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
<b>Total</b>			<b>23</b>	<b>-</b>	<b>6</b>	<b>22</b>

\*\* Project Based Theory Course

L : Lecture      T : Tutorial      P : Practical

### 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 Egnineering	4	-	-	3
2	ME2901	Advanced Mechanics of Solids	4	-	-	3
3	ME2902	Analysis and Synthesis of Mechanisms	4	-	-	3
4	ME2903	Mechancial Vibrations **	3	-	2	3
5	ME2904	Gear Engineering	4	-	-	3
6		Professional Elective - I	4	-	-	3
7	ME2908	Machine Dynaics Lab	-	-	4	2
<b>Total</b>			<b>23</b>	<b>-</b>	<b>6</b>	<b>20</b>

### 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 Advacned 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
<b>Total</b>			<b>23</b>	<b>-</b>	<b>6</b>	<b>22</b>

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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 Digital 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
<b>Total</b>			<b>23</b>	<b>-</b>	<b>6</b>	<b>20</b>

### 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
<b>Total</b>			<b>23</b>	<b>-</b>	<b>6</b>	<b>22</b>

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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

- 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
<b>Total</b>			<b>23</b>	<b>-</b>	<b>6</b>	<b>20</b>

### 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
<b>Total</b>			<b>23</b>	<b>-</b>	<b>6</b>	<b>22</b>

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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

## 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
<b>Total</b>			<b>27</b>	<b>1</b>	<b>4</b>	<b>23</b>

### 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
<b>Total</b>			<b>27</b>	<b>1</b>	<b>-</b>	<b>21</b>

L : Lecture

T : Tutorial

P : Practical

### 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
<b>Total</b>			<b>32</b>	<b>0</b>	<b>0</b>	<b>24</b>	

### 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	
<b>Total</b>			<b>20</b>	<b>0</b>	<b>0</b>	<b>22</b>	

### Specialisations:

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