

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 2019 - 2020.

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	Employability
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	Employability
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	CE2503	B. Tech-CE	Skill Development
13.	Mechanics of Solids	CE2504	B. Tech-CE	Employability
14.	Mechanics of Fluids	CE2505	B. Tech-CE	Employability
15.	Surveying	CE2507	B. Tech-CE	Employability
16.	Building Planning and Drawing	CE2508	B. Tech-CE	Employability
17.	Survey Field Work	CE2510	B. Tech-CE	Skill Development
18.	Building materials and construction	CE2506	B. Tech-CE	Employability
19.	Hydraulic and Hydraulic Machines	CE2512	B. Tech-CE	Employability
20.	Concrete Technology	CE2513	B. Tech-CE	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.	Fluid Mechanics & Hydraulic Machines Lab	CE2517	B. Tech-CE	Skill Development
22.	Concrete Technology Lab	CE2518	B. Tech-CE	Skill Development
23.	Mini Project	CE2547	B. Tech-CE	Skill Development
24.	Mechanics of Solids Lab	CE2509	B. Tech-CE	Skill Development
25.	Structural Analysis	CE2511	B. Tech-CE	Employability
26.	Engineering Geology and Geomatics	CE2514	B. Tech-CE	Employability
27.	Interior Design	CE2519	B. Tech-CE	Employability
28.	Building Bye Laws and Scientific Planning	CE2520	B. Tech-CE	Employability
29.	Theory of Structures	CE2522	B. Tech-CE	Employability
30.	Geotechnical Engineering	CE2523	B. Tech-CE	Employability
31.	Hydrology and Water Resources Engineering	CE2524	B. Tech-CE	Employability
32.	Water and Waste Water Engineering	CE2525	B. Tech-CE	Employability
33.	Water and Waste Water Engineering Lab	CE2533	B. Tech-CE	Skill Development
34.	Infrastructure Development	CE2534	B. Tech-CE	Employability
35.	Foundation Engineering	CE2536	B. Tech-CE	Employability
36.	Highway Engineering	CE2537	B. Tech-CE	Employability
37.	Highway Engineering Lab	CE2546	B. Tech-CE	Skill Development
38.	Smart Buildings and Automation	CE2548	B. Tech-CE	Employability
39.	Building Information Modelling	CE2549	B. Tech-CE	Employability
40.	Building Services	CE2516	B. Tech-CE	Employability
41.	Electrical Materials	EE2515	B. Tech-CE	Employability
42.	Control Systems Engineering	EE2516	B. Tech-CE	Employability
43.	Elements of Manufacturing Processes	ME2520	B. Tech-CE	Employability
44.	Automotive Engineering	ME2521	B. Tech-CE	Employability
45.	Fundamentals of Communications	EC2532	B. Tech-CE	Employability
46.	Computer Graphics	CT2514	B. Tech-CE	Employability

S. No	Name of the Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
47.	Systems Software	CT2515	B. Tech-CE	Employability
48.	Web Programming	IT2502	B. Tech-CE	Employability
49.	Mathematical Cryptography	MA2516	B. Tech-CE	Employability
50.	Semiconductor Physics	PH2508	B. Tech-CE	Employability
51.	Geo informatics	CE2503	B. Tech-CE	Employability
52.	Environmental Sanitation	CE2531	B. Tech-CE	Employability
53.	Power Systems Engineering	EE2524	B. Tech-CE	Employability
54.	Elements of Mechanical Transmission	ME2532	B. Tech-CE	Employability
55.	Material Handling Equipment	ME2533	B. Tech-CE	Employability
56.	Introduction to MEMS	EC2544	B. Tech-CE	Employability
57.	Data Science	CS2508	B. Tech-CE	Employability
58.	Virtual and Augmented Reality	CT2524	B. Tech-CE	Employability
59.	Quality, Reliability and Operations Research	MA2517	B. Tech-CE	Employability
60.	Hydrology	CE2543	B. Tech-CE	Employability
61.	Planning for Sustainable Development	CE2544	B. Tech-CE	Employability
62.	Electrical and Hybrid Vehicles	EE2531	B. Tech-CE	Employability
63.	Material Science	ME2541	B. Tech-CE	Employability
64.	Bio-Medical Engineering	EC2507	B. Tech-CE	Employability
65.	Node and Angular JS	CS2512	B. Tech-CE	Employability
66.	Cyber Security	CS2513	B. Tech-CE	Employability
67.	Software Project Management	CT2531	B. Tech-CE	Employability
68.	Elements of Stochastic Processes	MA2518	B. Tech-CE	Employability
69.	Academic Communication	EG2505	B. Tech-CE	Employability
70.	Advanced Strength of Materials	CE2526	B. Tech-CE	Employability
71.	GIS and GPS	CE2527	B. Tech-CE	Employability
72.	Green Buildings	CE2528	B. Tech-CE	Employability
73.	Construction Management	CE2529	B. Tech-CE	Employability
74.	Ground Improvement Techniques	CE2542	B. Tech-CE	Employability
75.	Elements of Electrical Circuits	EE2507	B. Tech-EEE	Employability

S. No	Name of the Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
76.	Elements of Mechanical Engineering	ME2503	B. Tech-EEE	Employability
77.	Linear Algebra and Differential Equations	MA2501	B. Tech-EEE	Employability
78.	Integral transforms and Vector Calculus	MA2504	B. Tech-EEE	Employability
79.	Solid State Physics	PH2504	B. Tech-EEE	Employability
80.	Solid State Physics Lab	PH2505	B. Tech-EEE	Skill Development
81.	Applied Chemistry	CH2503	B. Tech-EEE	Employability
82.	Engineer and Society	EN2502	B. Tech-EEE	Entrepreneurship
83.	Problem solving using C	CT2501	B. Tech-EEE	Employability
84.	DC Machines and Transformers	EE2508	B. Tech-EEE	Employability
85.	Electric Circuit Analysis	EE2509	B. Tech-EEE	Employability
86.	Numerical Methods with Computer Applications	MA2507	B. Tech-EEE	Employability
87.	Analog Electronics	EC2503	B. Tech-EEE	Employability
88.	Mechanical Engineering Lab	ME2504	B. Tech-EEE	Skill Development
89.	Electric Circuits Lab	EE2511	B. Tech-EEE	Skill Development
90.	Analog Electronics Lab	EC2504	B. Tech-EEE	Skill Development
91.	Digital Circuit Design	EC2505	B. Tech-EEE	Employability
92.	Engineering Economics and Project Management	BA2501	B. Tech-EEE	Entrepreneurship
93.	Induction and Synchronous Machines	EE2513	B. Tech-EEE	Employability
94.	Digital Circuit Design Lab	EC2506	B. Tech-EEE	Skill Development
95.	Biomedical Engineering	EC2507	B. Tech-EEE	Employability
96.	Computer Organisation and Architecture	CT2512	B. Tech-EEE	Employability
97.	Introduction to Quantum Mechanics for Engineers	EE2518	B. Tech-EEE	Employability
98.	Optional Elective-II MOOCS	EE2519	B. Tech-EEE	Employability
99.	Mechatronics	ME2549	B. Tech-EEE	Employability
100.	Electrical Measurements and Instrumentation	EE2520	B. Tech-EEE	Employability
101.	Signals and Systems	EC2508	B. Tech-EEE	Employability

S. No	Name of the Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
102.	Power Systems II	EE2521	B. Tech-EEE	Employability
103.	Control Systems Lab	EE2525	B. Tech-EEE	Skill Development
104.	Electrical Machines II Lab	EE2526	B. Tech-EEE	Skill Development
105.	Mini Project	EE2527	B. Tech-EEE	Skill Development
106.	Electrical Systems and Simulation Lab	EE2533	B. Tech-EEE	Skill Development
107.	Electrical Measurements and Instrumentation Lab	EE2524	B. Tech-EEE	Skill Development
108.	Control System Design	EE2528	B. Tech-EEE	Employability
109.	Probability and Fuzzy Mathematics	MA2511	B. Tech-EEE	Employability
110.	Microprocessors, Microcontrollers and Its Applications	EC2510	B. Tech-EEE	Employability
111.	Microprocessors, Microcontrollers and Its Applications Lab	EC2515	B. Tech-EEE	Skill Development
112.	Data Base Management Systems	CT2513	B. Tech-EEE	Employability
113.	Nano Electronics	EC2516	B. Tech-EEE	Employability
114.	Solar and Wind Energy Systems	EE2535	B. Tech-EEE	Employability
115.	Optional Elective- IV MOOCS	EE2529	B. Tech-EEE	Employability
116.	Optional Elective- VI MOOCS	EE2536	B. Tech-EEE	Employability
117.	Electrical Materials	EE2515	B. Tech-EEE	Employability
118.	Control Systems Engineering	EE2516	B. Tech-EEE	Employability
119.	Automotive Engineering	ME2521	B. Tech-EEE	Employability
120.	Fundamentals of Communications	EC2532	B. Tech-EEE	Employability
121.	Computer Graphics	CT2514	B. Tech-EEE	Employability
122.	Systems Software	CT2515	B. Tech-EEE	Employability
123.	Web Programming	IT2502	B. Tech-EEE	Employability
124.	Mathematical Cryptography	MA2516	B. Tech-EEE	Employability
125.	Semiconductor Physics	PH2508	B. Tech-EEE	Employability
126.	Material Handling Equipment	ME2533	B. Tech-EEE	Employability
127.	Introduction to MEMS	EC2544	B. Tech-EEE	Employability

S. No	Name of the Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
128.	Data Science	CS2508	B. Tech-EEE	Employability
129.	Virtual and Augmented Reality	CT2524	B. Tech-EEE	Employability
130.	Quality, Reliability and Operations Research	MA2517	B. Tech-EEE	Employability
131.	Planning for Sustainable Development	CE2544	B. Tech-EEE	Employability
132.	Electrical and Hybrid Vehicles	EE2531	B. Tech-EEE	Employability
133.	Material Science	ME2541	B. Tech-EEE	Employability
134.	Bio-Medical Engineering	EC2507	B. Tech-EEE	Employability
135.	Node and Angular JS	CS2512	B. Tech-EEE	Employability
136.	Cyber Security	CS2513	B. Tech-EEE	Employability
137.	Software Project Management	CT2531	B. Tech-EEE	Employability
138.	Elements of Stochastic Processes	MA2518	B. Tech-EEE	Employability
139.	Academic Communication	EG2505	B. Tech-EEE	Employability
140.	Switch Gear and Protection	EE2522	B. Tech-EEE	Employability
141.	Computer Networks	CT2519	B. Tech-EEE	Employability
142.	Pulse and Integrated Circuits	EC2509	B. Tech-EEE	Employability
143.	Data Structures	CT2505	B. Tech-EEE	Employability
144.	Digital Signal Processing	EC2511	B. Tech-EEE	Employability
145.	Embedded System Design	EC2512	B. Tech-EEE	Employability
146.	Principles of VLSI Design	EC2513	B. Tech-EEE	Employability
147.	DSP Processors and Architecture	EC2514	B. Tech-EEE	Employability
148.	Engineering Graphics	ME2505	B. Tech-ME	Employability
149.	Linear Algebra and Differential Equations	MA2501	B. Tech-ME	Employability
150.	Integral Transforms and Multiple integrals	MA2503	B. Tech-ME	Employability
151.	Engineering Physics Lab	PH2503	B. Tech-ME	Skill Development
152.	Physics for Engineers	PH2502	B. Tech-ME	Employability
153.	Industrial Chemistry	CH2505	B. Tech-ME	Employability
154.	Industrial Chemistry Lab & Engg. Mechanics Lab	ME2508	B. Tech-ME	Skill Development
155.	Engineer and Society	EN2502	B. Tech-ME	Entrepreneurship
156.	Problem Solving Using C	CT2501	B. Tech-ME	Employability

S. No	Name of the Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
157.	Engineering Mechanics	CE2501	B. Tech-ME	Employability
158.	Computer Aided Engineering Drawing	ME256	B. Tech-ME	Skill Development
159.	Engineering Workshop	ME2507	B. Tech-ME	Skill Development
160.	Elements of Electrical and Electronics Engineering	EE2501	B. Tech-ME	Employability
161.	Solid Mechanics	ME2512	B. Tech-ME	Employability
162.	Engineering Metallurgy	ME2513	B. Tech-ME	Employability
163.	Electrical and Electronics Engineering Lab	EE2502	B. Tech-ME	Skill Development
164.	Solid Mechanics and Metallurgy Lab	ME2514	B. Tech-ME	Skill Development
165.	Computer Aided Modelling Lab	ME2515	B. Tech-ME	Skill Development
166.	Manufacturing Processes	ME2516	B. Tech-ME	Employability
167.	Applied Thermodynamics	ME2517	B. Tech-ME	Employability
168.	Thermal Engineering Lab	ME2522	B. Tech-ME	Skill Development
169.	Machine Dynamics Lab	ME2524	B. Tech-ME	Skill Development
170.	Control Systems	EE2512	B. Tech-ME	Employability
171.	Nano Technology	ME2525	B. Tech-ME	Employability
172.	Digital Logic Design	CT2506	B. Tech-ME	Employability
173.	Numerical and Statistical Methods	MA2509	B. Tech-ME	Employability
174.	Metal Cutting and Machine Tools	ME2527	B. Tech-ME	Employability
175.	Computer Aided Engineering Analysis Lab	ME2548	B. Tech-ME	Skill Development
176.	Computer Aided Machine Drawing Lab	ME2536	B. Tech-ME	Skill Development
177.	Computer Graphics	CT2514	B. Tech-ME	Employability
178.	Design of Machine Members	ME2539	B. Tech-ME	Employability
179.	Embedded System Design	EC2512	B. Tech-ME	Employability
180.	Engineering Economics and Accountancy	BA2503	B. Tech-ME	Entrepreneurship
181.	Fluid Mechanics and Turbo Machinery Lab	ME2534	B. Tech-ME	Skill Development
182.	Fuzzy Logic Systems	EE2503	B. Tech-ME	Employability

S. No	Name of the Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
183.	Heat Transfer	ME2540	B. Tech-ME	Employability
184.	Heat Transfer Lab	ME2546	B. Tech-ME	Skill Development
185.	Mechatronics	ME2549	B. Tech-ME	Employability
186.	Micro Processors and Interfacing	EC2520	B. Tech-ME	Employability
187.	Turbo Machinery	ME2528	B. Tech-ME	Employability
188.	Elements of Civil Engineering	CE2515	B. Tech-ME	Employability
189.	Electrical Materials	EE2515	B. Tech-ME	Employability
190.	Control Systems Engineering	EE2516	B. Tech-ME	Employability
191.	Elements of Manufacturing Processes	ME2520	B. Tech-ME	Employability
192.	Automotive Engineering	ME2521	B. Tech-ME	Employability
193.	Introduction to Microprocessors and Microcontrollers	EC2531	B. Tech-ME	Employability
194.	Fundamentals of Communications	EC2532	B. Tech-ME	Employability
195.	Computer Graphics	CT2514	B. Tech-ME	Employability
196.	Object Oriented Programming through JAVA	CT2507	B. Tech-ME	Employability
197.	Systems Software	CT2515	B. Tech-ME	Employability
198.	Web Programming	IT2502	B. Tech-ME	Employability
199.	Mathematical Cryptography	MA2516	B. Tech-ME	Employability
200.	Semiconductor Physics	PH2508	B. Tech-ME	Employability
201.	Geoinformatics	CE2503	B. Tech-ME	Employability
202.	Power Systems Engineering	EE2524	B. Tech-ME	Employability
203.	Elements of Mechanical Transmission	ME2532	B. Tech-ME	Employability
204.	Material Handling Equipment	ME2533	B. Tech-ME	Employability
205.	Introduction to MEMS	EC2544	B. Tech-ME	Employability
206.	Data Science	CS2508	B. Tech-ME	Employability
207.	Virtual and Augmented Reality	CT2524	B. Tech-ME	Employability
208.	Quality, Reliability and Operations Research	MA2517	B. Tech-ME	Employability
209.	Planning for Sustainable Development	CE2544	B. Tech-ME	Employability

S. No	Name of the Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
210.	Electrical and Hybrid Vehicles	EE2531	B. Tech-ME	Employability
211.	Bio-Medical Engineering	EC2507	B. Tech-ME	Employability
212.	Node and Angular JS	CS2512	B. Tech-ME	Employability
213.	Cyber Security	CS2513	B. Tech-ME	Employability
214.	Software Project Management	CT2531	B. Tech-ME	Employability
215.	Elements of Stochastic Processes	MA2518	B. Tech-ME	Employability
216.	Academic Communication	EG2505	B. Tech-ME	Employability
217.	Assistive Technologies	EC2523	B. Tech-ME	Employability
218.	Power Plant Instrumentation	EE2532	B. Tech-ME	Employability
219.	Data Structures	CT2505	B. Tech-ME	Employability
220.	Database Management Systems	CT2513	B. Tech-ME	Employability
221.	Mechanical Vibrations	ME2530	B. Tech-ME	Employability
222.	Mechanics of Composite Materials	ME2531	B. Tech-ME	Employability
223.	Non-Conventional Sources of Energy	ME2529	B. Tech-ME	Employability
224.	Principles of Finite Element Method	ME2543	B. Tech-ME	Employability
225.	Robotics	ME2544	B. Tech-ME	Employability
226.	Problem Solving Through Computer Programming	CT2502	B. Tech-ECE	Employability
227.	Computer Programming Lab	CT2503	B. Tech-ECE	Skill Development
228.	Linear Electrical Networks	EE2504	B. Tech-ECE	Employability
229.	Linear Algebra and Differential Equations	MA2501	B. Tech-ECE	Employability
230.	Integral transforms and Vector Calculus	MA2504	B. Tech-ECE	Employability
231.	Numerical Methods & Complex Analysis	MA2505	B. Tech-ECE	Employability
232.	Solid State Physics	PH2504	B. Tech-ECE	Employability
233.	Solid State Physics Lab	PH2505	B. Tech-ECE	Skill Development
234.	Applied Chemistry	CH2503	B. Tech-ECE	Employability
235.	Engineer and Society	EN2502	B. Tech-ECE	Entrepreneurship
236.	Probability Theory and Stochastic Process	EC2524	B. Tech-ECE	Employability

S. No	Name of the Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
237.	Electronic Devices	EC2525	B. Tech-ECE	Employability
238.	Engineering Economics And Project Management	BA2501	B. Tech-ECE	Entrepreneurship
239.	Elements of Electrical Engineering	EE2505	B. Tech-ECE	Employability
240.	Electronic Devices Lab	EC2527	B. Tech-ECE	Skill Development
241.	Analog Circuits	EC2529	B. Tech-ECE	Employability
242.	Analog Communications	EC2530	B. Tech-ECE	Employability
243.	Fundamentals of Communications	EC2532	B. Tech-ECE	Employability
244.	Digital Circuit Design	EC2505	B. Tech-ECE	Employability
245.	Fundamentals of Data Structures	CS2501	B. Tech-ECE	Employability
246.	Analog Circuits Lab	EC2533	B. Tech-ECE	Skill Development
247.	Digital Circuit Design Lab	EC2506	B. Tech-ECE	Skill Development
248.	Electronic Switching Systems	EC2534	B. Tech-ECE	Employability
249.	Introduction to Python Programming	CS2502	B. Tech-ECE	Employability
250.	Database Management Systems	CT2513	B. Tech-ECE	Employability
251.	Mathematical Cryptography	MA2516	B. Tech-ECE	Employability
252.	Linear Integrated Circuits Applications	EC2536	B. Tech-ECE	Employability
253.	Digital Communications	EC2537	B. Tech-ECE	Employability
254.	Antennas and Wave Propagation	EC2538	B. Tech-ECE	Employability
255.	Principles of VLSI Design	EC2539	B. Tech-ECE	Employability
256.	CAD for VLSI	EC2540	B. Tech-ECE	Employability
257.	Computer Organization	EC2541	B. Tech-ECE	Employability
258.	Computer And Communication Networks	EC2542	B. Tech-ECE	Employability
259.	Biomedical Engineering	EC2507	B. Tech-ECE	Employability
260.	Introduction To MEMS	EC2544	B. Tech-ECE	Employability
261.	Linear Integrated Circuits Applications Lab	EC2545	B. Tech-ECE	Skill Development
262.	Analog and Digital Communications Lab	EC2546	B. Tech-ECE	Skill Development

S. No	Name of the Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
263.	Microprocessors, Microcontrollers and Applications	EC2510	B. Tech-ECE	Employability
264.	Analog IC Design	EC2549	B. Tech-ECE	Employability
265.	Nano Electronics	EC2516	B. Tech-ECE	Employability
266.	Smart Antennas	EC2550	B. Tech-ECE	Employability
267.	Coding Theory	EC2551	B. Tech-ECE	Employability
268.	Microprocessor and Microcontroller Interfacing Lab	EC2515	B. Tech-ECE	Skill Development
269.	VLSI Lab	EC2553	B. Tech-ECE	Skill Development
270.	Data Warehousing and Data Mining	CT2528	B. Tech-ECE	Employability
271.	Mechatronics	ME2549	B. Tech-ECE	Employability
272.	Quality, Reliability and Operations Research	MA2517	B. Tech-ECE	Employability
273.	Elements of Stochastic process	MA2518	B. Tech-ECE	Employability
274.	Problem Solving through Computer Programming	CT2502	B. Tech-CSE	Employability
275.	Computer Programming Lab	CT2503	B. Tech-CSE	Skill Development
276.	Python Programming	CT2504	B. Tech-CSE	Employability
277.	Linear Algebra and Integral Transforms	MA2502	B. Tech-CSE	Employability
278.	Numerical Methods and Differential Equations	MA2506	B. Tech-CSE	Employability
279.	Applied Physics	PH2506	B. Tech-CSE	Employability
280.	Applied Physics Lab	PH2507	B. Tech-CSE	Skill Development
281.	Engineer and Society	EN2502	B. Tech-CSE	Entrepreneurship
282.	Data Structure	CT2505	B. Tech-CSE	Employability
283.	UNIX programming Lab	CS2503	B. Tech-CSE	Skill Development
284.	Computer Organization and Architecture	CT2512	B. Tech-CSE	Employability
285.	Database Management Systems Lab	CT2516	B. Tech-CSE	Skill Development
286.	Operating Systems Lab	CS2504	B. Tech-CSE	Skill Development
287.	Computer Graphics	CT2514	B. Tech-CSE	Employability
288.	Compiler Design	CT2518	B. Tech-CSE	Employability

S. No	Name of the Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
289.	Computer Networks	CS2519	B. Tech-CSE	Employability
290.	Web Technologies	CT2520	B. Tech-CSE	Employability
291.	C#.NET	CS2506	B. Tech-CSE	Employability
292.	Advanced Data Structures	CT2522	B. Tech-CSE	Employability
293.	Software Testing Methodologies	CT2523	B. Tech-CSE	Employability
294.	Principles of Programming Languages	CS2507	B. Tech-CSE	Employability
295.	Computer Networks and Compiler Design lab	CS2509	B. Tech-CSE	Skill Development
296.	Data Warehousing Data Mining	CT2528	B. Tech-CSE	Employability
297.	Design and Analysis of Algorithms	CT2527	B. Tech-CSE	Employability
298.	Cyber Security	CS2513	B. Tech-CSE	Employability
299.	Node and Angular JS	CS2512	B. Tech-CSE	Employability
300.	Software Project Management	CT2531	B. Tech-CSE	Employability
301.	Scripting Languages	CT2529	B. Tech-CSE	Employability
302.	Artificial Intelligence	CT2521	B. Tech-CSE	Employability
303.	UML and Design patterns	CS2511	B. Tech-CSE	Employability
304.	Graph Theory	CS2514	B. Tech-CSE	Employability
305.	Web Technologies lab	CS2516	B. Tech-CSE	Skill Development
306.	Data Mining lab	CT2525	B. Tech-CSE	Skill Development
307.	Quality, Reliability and Operations Research	MA2517	B. Tech-CSE	Employability
308.	Elements of Stochastic process	MA2518	B. Tech-CSE	Employability
309.	Managerial Economics and Financial Analysis	BA2502	B. Tech-CSE	Entrepreneurship
310.	Digital Logic Design	CT2506	B. Tech-CSE	Employability
311.	Oops Through JAVA	CT2507	B. Tech-CSE	Employability
312.	Data Structures Lab	CT2508	B. Tech-CSE	Skill Development
313.	Object Oriented Programming Lab	CT2509	B. Tech-CSE	Skill Development
314.	Operating Systems	CT2510	B. Tech-CSE	Employability
315.	Data Science	CS2508	B. Tech-CSE	Employability
316.	Virtual and augmented Reality	CT2524	B. Tech-CSE	Employability

S. No	Name of the Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
317.	Open Source Software	IT2505	B. Tech-CSE	Employability
318.	Cyber Laws	IT2506	B. Tech-CSE	Employability
319.	Problem solving through computer programming	CT3502	B. Tech-IT	Employability
320.	Computer Programming Lab	CT3503	B. Tech-IT	Skill Development
321.	Data Structures Lab	CT3507	B. Tech-IT	Skill Development
322.	Linear Algebra and Integral Transforms	MA2502	B. Tech-IT	Employability
323.	Numerical Methods and Differential Equations	MA2506	B. Tech-IT	Employability
324.	Applied Physics	PH2506	B. Tech-IT	Employability
325.	Applied Physics Lab	PH2507	B. Tech-IT	Skill Development
326.	Chemistry	CH2506	B. Tech-IT	Employability
327.	Engineer and Society	EN2502	B. Tech-IT	Entrepreneurship
328.	Data Structures	CT2505	B. Tech-IT	Employability
329.	UNIX and Shell Programming	IT2501	B. Tech-IT	Employability
330.	Python Programming	CT2504	B. Tech-IT	Employability
331.	Object Oriented Programming Lab	CT2509	B. Tech-IT	Skill Development
332.	Computer Organization and Architecture	CT2512	B. Tech-IT	Employability
333.	Systems Software	CT2515	B. Tech-IT	Employability
334.	Web Programming	IT2502	B. Tech-IT	Employability
335.	Database Management Systems Lab	CT2516	B. Tech-IT	Skill Development
336.	Information and Communication Technology	IT2503	B. Tech-IT	Employability
337.	Mathematical Cryptography	MA2516	B. Tech-IT	Employability
338.	Web Technologies	CT2520	B. Tech-IT	Employability
339.	Embedded System Design	EC2512	B. Tech-IT	Employability
340.	Advanced Data Structures	CT2522	B. Tech-IT	Employability
341.	Cyber Laws	IT2506	B. Tech-IT	Employability
342.	Web Technologies Lab	CT2525	B. Tech-IT	Skill Development
343.	Soft Computing Techniques	IT2511	B. Tech-IT	Employability
344.	Real Time Systems	IT2512	B. Tech-IT	Employability
345.	Agile Software Development Process	CT2532	B. Tech-IT	Employability

S. No	Name of the Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
346.	Scripting Languages	CT2529	B. Tech-IT	Employability
347.	Computer Networks and Data Mining Lab	IT2513	B. Tech-IT	Skill Development
348.	Open Source Software	IT2505	B. Tech-IT	Employability
349.	Software Project Management	CT2531	B. Tech-IT	Employability
350.	Quality, Reliability and Operations Research	MA2517	B. Tech-IT	Employability
351.	Elements of Stochastic process	MA2518	B. Tech-IT	Employability
352.	Oops through JAVA	Ct2507	B. Tech-IT	Employability
353.	Digital Logic Design	CT2506	B. Tech-IT	Employability
354.	Compiler Design	CT2518	B. Tech-IT	Employability
355.	Operating Systems	CT2510	B. Tech-IT	Skill Development
356.	Operating Systems and Compiler Design Lab	IT2507	B. Tech-IT	Skill Development
357.	Design and Analysis of Algorithms	CT2527	B. Tech-IT	Employability
358.	Data Warehousing and Data Mining	CT2528	B. Tech-IT	Employability
359.	Objective Oriented Analysis and Design	IT2510	B. Tech-IT	Employability
360.	Computer Networks	CT2519	B. Tech-IT	Employability
361.	Virtual and Augmented Reality	CT2524	B. Tech-IT	Employability
362.	Node and Angular JS	CT2512	B. Tech-IT	Employability
363.	Cyber Security	CS2513	B. Tech-IT	Employability
364.	Academic Communication	EG2505	B. Tech-IT	Employability
365.	DATA Science	CS2508	B. Tech-IT	Employability
366.	Finite Element Method	CE1540	B. Tech-CE	Employability
367.	Managerial Economics And Financial analysis	BA1502	B. Tech-CE	Entrepreneurship
368.	Advanced Structural Analysis	CE1541	B. Tech-CE	Employability
369.	Advanced Environmental Engineering	CE1542	B. Tech-CE	Employability
370.	Design And Drawing of Irrigation Structures	CE1543	B. Tech-CE	Employability
371.	Design of Industrial Structures	CE1544	B. Tech-CE	Employability
372.	Air Pollution and its Control	CE1545	B. Tech-CE	Employability

S. No	Name of the Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
373.	Architecture and Town planning	CE1547	B. Tech-CE	Employability
374.	Building services	CE1548	B. Tech-CE	Employability
375.	Structural Engineering lab	CE1549	B. Tech-CE	Skill Development
376.	Transportation Engineering Lab	CE1550	B. Tech-CE	Skill Development
377.	Computer Applications in Civil Engineering Lab	CE1551	B. Tech-CE	Skill Development
378.	Advanced Concrete structures	CE1552	B. Tech-CE	Employability
379.	Docks and Harbour Engineering	CE1555	B. Tech-CE	Employability
380.	Industrial Waste Management	CE1557	B. Tech-CE	Employability
381.	Global Positioning Systems	CE1560	B. Tech-CE	Employability
382.	Industrial/Practical Training	CE1562	B. Tech-CE	Skill Development
383.	Statistical Methods using R Software	MA1510	B. Tech-CE	Employability
384.	HVDC Transmission Systems	EE1537	B. Tech-EEE	Employability
385.	Electrical Machine Design	EE1539	B. Tech-EEE	Employability
386.	Programmable Logic Controller	EE1540	B. Tech-EEE	Employability
387.	Computer Organization & Architecture	CS1505	B. Tech-EEE	Employability
388.	Electrical Costing & Estimation	EE1546	B. Tech-EEE	Employability
389.	Modelling and Analysis of Electrical Machines	EE1547	B. Tech-EEE	Employability
390.	High Voltage Engineering	EE1548	B. Tech-EEE	Employability
391.	EHV AC/ DC Transmission Systems	EE1551	B. Tech-EEE	Employability
392.	Power Plant Instrumentation	EE1552	B. Tech-EEE	Employability
393.	Electrical Safety Management	EE1553	B. Tech-EEE	Employability
394.	Industrial/ Practical Training	EE1554	B. Tech-EEE	Skill Development
395.	Statistical Methods using R Software	MA1510	B. Tech-EEE	Employability
396.	Electrical Systems Simulation Lab	EE1514	B. Tech-EEE	Skill Development
397.	Power Systems Lab	EE1545	B. Tech-EEE	Skill Development

S. No	Name of the Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
398.	Micro processors and Micro controllers Lab	EC1512	B. Tech-EEE	Skill Development
399.	Heat Transfer	ME1540	B. Tech-ME	Employability
400.	CAD / CAM Lab	ME1549	B. Tech-ME	Skill Development
401.	Heat Transfer Lab	ME1550	B. Tech-ME	Skill Development
402.	Computational Methods for Engineers Lab	ME1551	B. Tech-ME	Skill Development
403.	Computational Fluid Dynamics	ME1541	B. Tech-ME	Employability
404.	Robotics	ME1542	B. Tech-ME	Employability
405.	Interactive Computer Graphics	ME1543	B. Tech-ME	Employability
406.	Mechanical Vibrations	ME1544	B. Tech-ME	Employability
407.	Production Planning and Control	ME1545	B. Tech-ME	Employability
408.	Tribology	ME1546	B. Tech-ME	Employability
409.	Refrigeration & Air Conditioning	ME1547	B. Tech-ME	Employability
410.	Fracture Mechanics	ME1548	B. Tech-ME	Employability
411.	Condition Monitoring	ME1553	B. Tech-ME	Employability
412.	Rapid Prototyping	ME1554	B. Tech-ME	Employability
413.	Design for Manufacturing & Assembly	ME1555	B. Tech-ME	Employability
414.	Supply Chain Management	ME1559	B. Tech-ME	Employability
415.	Statistical Methods using R Software	MA1510	B. Tech-ME	Employability
416.	Industrial / Practical Training	ME1562	B. Tech-ME	Skill Development
417.	Electronic Measurements and Instrumentation	EC1545	B. Tech-ECE	Employability
418.	Microcontrollers and Embedded Systems	EC1546	B. Tech-ECE	Employability
419.	Sensors and Instrumentation	EC1548	B. Tech-ECE	Employability
420.	Advanced Computer Architecture	CS1524	B. Tech-ECE	Employability
421.	DSP Architecture and Applications	EC1549	B. Tech-ECE	Employability
422.	FPGA Design	EC1550	B. Tech-ECE	Employability
423.	Digital TV Engineering	EC1551	B. Tech-ECE	Employability

S. No	Name of the Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
424.	Digital Image Processing	EC1552	B. Tech-ECE	Employability
425.	Embedded Real Time Operating Systems	EC1553	B. Tech-ECE	Employability
426.	Assistive Technologies	EC1554	B. Tech-ECE	Employability
427.	Introduction to Embedded Systems	EC1555	B. Tech-ECE	Employability
428.	Microwave and Optical Communications Lab	EC1557	B. Tech-ECE	Skill Development
429.	VLSI and Embedded Systems Lab	EC1558	B. Tech-ECE	Skill Development
430.	Testing and Verification of VLSI Circuits	EC1559	B. Tech-ECE	Employability
431.	Low Power VLSI Design	EC1563	B. Tech-ECE	Employability
432.	Software Engineering	EC1565	B. Tech-ECE	Employability
433.	Bio-Medical Instrumentation	EC1566	B. Tech-ECE	Employability
434.	Internet of Things	EC1567	B. Tech-ECE	Employability
435.	Consumer Electronics	EC1568	B. Tech-ECE	Employability
436.	Industrial/Practical Training	EC1569	B. Tech-ECE	Skill Development
437.	Statistical Methods using R Software	MA1510	B. Tech-ECE	Employability
438.	Information Security	CS1522	B. Tech-CSE	Employability
439.	Embedded Systems	CS1525	B. Tech-CSE	Employability
440.	Bio-Informatics	CS1526	B. Tech-CSE	Employability
441.	Distributed Systems	CS1527	B. Tech-CSE	Employability
442.	Mobile Application Development	CS1520	B. Tech-CSE	Employability
443.	Digital Image Processing	CT1521	B. Tech-CSE	Employability
444.	Parallel Computing	CS1528	B. Tech-CSE	Employability
445.	Software Testing Methodologies	CT1522	B. Tech-CSE	Employability
446.	Real Time Systems	IT2512	B. Tech-CSE	Employability
447.	Web Services	CS1529	B. Tech-CSE	Employability
448.	Information Security Lab	CS1523	B. Tech-CSE	Skill Development
449.	Multi Media Application Development lab	CT1523	B. Tech-CSE	Skill Development
450.	Distributed Data Bases	CT1524	B. Tech-CSE	Employability

S. No	Name of the Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
451.	Software Project Management	CT1525	B. Tech-CSE	Employability
452.	Semantic Web	CS1533	B. Tech-CSE	Employability
453.	Machine Learning	CS1534	B. Tech-CSE	Employability
454.	Cloud Computing	CT1520	B. Tech-CSE	Employability
455.	Wireless Networks	CS1535	B. Tech-CSE	Employability
456.	Big Data	CT1519	B. Tech-CSE	Employability
457.	Social Networks	CS1519	B. Tech-CSE	Employability
458.	e- Waste Management	CS1531	B. Tech-CSE	Employability
459.	Management Information Systems	CS1532	B. Tech-CSE	Employability
460.	Advanced Computer Architecture	CS1524	B. Tech-CSE	Employability
461.	Statistical Methods using R Software	MA1510	B. Tech-CSE	Employability
462.	Industrial/Practical Training	CS1536	B. Tech-CSE	Skill Development
463.	Data Warehousing and Data Mining	CT1517	B. Tech-IT	Employability
464.	Multimedia Application Development	IT1522	B. Tech-IT	Employability
465.	Distributed Databases	CT1524	B. Tech-IT	Employability
466.	Human Computer Interaction	CT1518	B. Tech-IT	Employability
467.	Bio-Metrics	IT1523	B. Tech-IT	Employability
468.	Software Testing Methodologies	CT1522	B. Tech-IT	Employability
469.	Information Retrieval Systems	IT1524	B. Tech-IT	Employability
470.	Digital Image Processing	CT1521	B. Tech-IT	Employability
471.	Mobile Computing	IT1525	B. Tech-IT	Employability
472.	Software Project Management	CT1525	B. Tech-IT	Employability
473.	Mobile Application Lab	IT1527	B. Tech-IT	Skill Development
474.	Multimedia Application Development Lab	CT1523	B. Tech-IT	Skill Development
475.	Free and Open Source Software Lab	IT1526	B. Tech-IT	Skill Development
476.	E-Commerce	IT1529	B. Tech-IT	Employability
477.	Cloud Computing	CT1520	B. Tech-IT	Employability
478.	Business Intelligence	IT1530	B. Tech-IT	Employability

S. No	Name of the Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
479.	Big Data	CT1519	B. Tech-IT	Employability
480.	Soft Computing	IT1531	B. Tech-IT	Employability
481.	Computer Forensics	IT1532	B. Tech-IT	Employability
482.	Software Quality Assurance	IT1533	B. Tech-IT	Employability
483.	Industrial / Practical Training	IT1534	B. Tech-IT	Skill Development
484.	Elements of Mechanical Engineering	ME1526	B. Tech-IT	Employability
485.	Network Management Systems	IT1519	B. Tech-IT	Employability
486.	Fundamentals of E-Commerce	IT1520	B. Tech-IT	Employability
487.	Statistical Methods using R Software	MA1510	B. Tech-IT	Employability
488.	Ground Improvement Techniques	CE2906	M. Tech-SE	Employability
489.	Advanced Concrete Technology and Structural Engineering lab	CE2908	M. Tech-SE	Skill Development
490.	Research Methodologies	BA2901	M. Tech-SE	Employability
491.	Advanced Design of Steel Structures	CE2912	M. Tech-SE	Employability
492.	Advanced Design of Steel Structures	CE2903	M. Tech-SE	Employability
493.	Fracture Mechanics of Concrete	CE2914	M. Tech-SE	Employability
494.	Design of Sub-structures	CE2915	M. Tech-SE	Employability
495.	High Rise Buildings	CE2917	M. Tech-SE	Employability
496.	Computational Methods in Engineering	MA2901	M. Tech-SE	Employability
497.	Theory of Elasticity	CE2901	M. Tech-SE	Employability
498.	Structural Dynamics	CE2902	M. Tech-SE	Employability
499.	Stability of Structures	CE2904	M. Tech-SE	Employability
500.	Earth Quake Resistance Designer	CE2909	M. Tech-SE	Employability
501.	Finite Element Analysis	CE2910	M. Tech-SE	Employability
502.	Theory of Plates and Shells	CE2911	M. Tech-SE	Employability
503.	Computer Applications in Structural Engineering Lab	CE2919	M. Tech-SE	Skill Development
504.	Linear and Non-Linear Optimization technique	MA2902	M. Tech-PEED	Employability

S. No	Name of the Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
505.	Advanced Electric Drives	EE2912	M. Tech-PEED	Employability
506.	Research Methodology	EE2910	M. Tech-PEED	Employability
507.	Application of Power Electronics to Power Systems	EE2915	M. Tech-PEED	Employability
508.	Advanced Digital Control Systems	EE3915	M. Tech-PEED	Employability
509.	Computational Methods in Engineering	MA2901	M. Tech-PEED	Employability
510.	ARM Architecture and Programming	EC2901	M. Tech-PEED	Employability
511.	Analysis of Power Electronic Converters	EE2902	M. Tech-PEED	Employability
512.	Electrical Machine Modelling and analysis	EE2903	M. Tech-PEED	Employability
513.	Modern Control Theory	EE2904	M. Tech-PEED	Employability
514.	Power Electronic and systems Simulation Lab	EE2905	M. Tech-PEED	Skill Development
515.	Switched Mode Power Converters	EE2912	M. Tech-PEED	Employability
516.	Power Electronics and Electric Drives Lab	EE2919	M. Tech-PEED	Skill Development
517.	HVDC Transmission system	EE2907	M. Tech-PEED	Employability
518.	AI Techniques	EE2917	M. Tech-PEED	Employability
519.	Advanced Mechanics of Solids	ME2901	M. Tech-MD	Employability
520.	Analysis and Synthesis of Mechanisms	ME2902	M. Tech-MD	Employability
521.	Mechanical Vibrations	ME2903	M. Tech-MD	Employability
522.	Gear Engineering	ME2904	M. Tech-MD	Employability
523.	Rotor Dynamics	ME2905	M. Tech-MD	Employability
524.	Experimental Stress Analysis	ME2906	M. Tech-MD	Employability
525.	Product Design	ME2907	M. Tech-MD	Employability
526.	Machine Dynamics Lab	ME2908	M. Tech-MD	Skill Development
527.	Research Methodologies	ME2905	M. Tech-MD	Employability
528.	Finite Element Methods	ME2909	M. Tech-MD	Employability
529.	Design with Advanced Materials	ME2910	M. Tech-MD	Employability
530.	Design for Manufacturing and Assembly	ME2911	M. Tech-MD	Employability

S. No	Name of the Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
531.	Fracture Mechanics	ME2912	M. Tech-MD	Employability
532.	Condition Monitoring	ME2913	M. Tech-MD	Employability
533.	Rapid Tooling and Prototyping	ME2914	M. Tech-MD	Employability
534.	Theory of Elasticity	ME2915	M. Tech-MD	Employability
535.	Geometric Modelling	ME2916	M. Tech-MD	Employability
536.	Tribology	ME2917	M. Tech-MD	Employability
537.	Modelling and Analysis Lab	ME2918	M. Tech-MD	Skill Development
538.	Linear and Non-Linear Optimization Techniques	MA3902	M. Tech-VLSI&ES	Employability
539.	Advanced Digital Design	EC3904	M. Tech-VLSI&ES	Employability
540.	Advanced Microcontrollers	EC3905	M. Tech-VLSI&ES	Employability
541.	CMOS VLSI circuits	EC3906	M. Tech-VLSI&ES	Employability
542.	Testing & Testability of VLSI circuits	EC3907	M. Tech-VLSI&ES	Employability
543.	VLSI Digital Signal Processing	EC3908	M. Tech-VLSI&ES	Employability
544.	Real Time Operating systems	EC3909	M. Tech-VLSI&ES	Employability
545.	Embedded Processors	EC3910	M. Tech-VLSI&ES	Employability
546.	VLSI Design Lab	EC3911	M. Tech-VLSI&ES	Skill Development
547.	Research Methodologies	HS3901	M. Tech-VLSI&ES	Employability
548.	VLSI System Design	EC3912	M. Tech-VLSI&ES	Employability
549.	Hardware and Software Co-Design	EC3913	M. Tech-VLSI&ES	Employability
550.	Internet of Things	EC3914	M. Tech-VLSI&ES	Employability
551.	ASIC System Design	EC3915	M. Tech-VLSI&ES	Employability
552.	Advances in VLSI Design	EC3916	M. Tech-VLSI&ES	Employability
553.	Embedded Computing Architectures	EC3917	M. Tech-VLSI&ES	Employability
554.	Advanced Computer Networks	EC3918	M. Tech-VLSI&ES	Employability
555.	System-on-Chip Design	EC3919	M. Tech-VLSI&ES	Employability
556.	VLSI Interconnects	EC3920	M. Tech-VLSI&ES	Employability
557.	RF VLSI design	EC3921	M. Tech-VLSI&ES	Employability
558.	Advanced Digital Signal Processing	EC3922	M. Tech-VLSI&ES	Employability
559.	Internet of Things Lab	EC3923	M. Tech-VLSI&ES	Skill Development
560.	Statistics with R Programming	MA2903	M. Tech-CSE	Employability

S. No	Name of the Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
561.	Advanced Data Structures & Algorithm Analysis	CS2901	M. Tech-CSE	Employability
562.	Object Oriented Software Engineering	CS2903	M. Tech-CSE	Employability
563.	Business Intelligence	CS2904	M. Tech-CSE	Employability
564.	Advanced Data Structures & Algorithm and R Programming Lab	CS2908	M. Tech-CSE	Employability
565.	Research Methodology	HS3901	M. Tech-CSE	Employability
566.	Information Security	CS2909	M. Tech-CSE	Employability
567.	Scripting Languages	CS2910	M. Tech-CSE	Employability
568.	Data Analytics **	CS2911	M. Tech-CSE	Employability
569.	Advanced Operating Systems	CS2912	M. Tech-CSE	Employability
570.	Machine Learning	CS2913	M. Tech-CSE	Employability
571.	Software Testing Methodologies	CS2914	M. Tech-CSE	Employability
572.	Soft Computing	CT2901	M. Tech-CSE	Employability
573.	Information Security & Scripting Languages Lab	CS2916	M. Tech-CSE	Skill Development
574.	Business Environment and Legislation	BA2904	MBA	Employability
575.	Business Law	BA2905	MBA	Employability
576.	E-Business	BA2915	MBA	Entrepreneurship
577.	Training & Development	BA2921	MBA	Entrepreneurship
578.	Industrial Relations and Labour Laws	BA2922	MBA	Entrepreneurship
579.	Sales & Distribution Management	BA2925	MBA	Entrepreneurship
580.	Compensation Management	BA2928	MBA	Entrepreneurship
581.	Qualitative Analysis for Business decisions	NA2901	MBA	Employability
582.	Business Communication	EG2901	MBA	Employability
583.	Perspectives of management	BA2901	MBA	Employability
584.	Manage real economics	BA2902	MBA	Employability
585.	Accounting for Mangers	BA2903	MBA	Employability
586.	Information Technology Lab for Business Management	BA2906	MBA	Skill Development

S. No	Name of the Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
587.	Financially Management	BA2907	MBA	Employability
588.	Business Research Methods	MA2903	MBA	Employability
589.	Marketing Management	BA2908	MBA	Employability
590.	Human Resources Management	BA2909	MBA	Employability
591.	Protection and Operation Management	BA2910	MBA	Employability
592.	International Business	BA2911	MBA	Employability
593.	Organization and behaviour	BA2912	MBA	Employability


 IQAC Convener
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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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II Year - I Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	CE2504	Mechanics of Solids	3	1	-	3
2	CE2505	Mechanics of Fluids	3	1	-	3
3	CE2506	Building Materials and Construction	2	1	-	2
4	CE2507	Surveying	3	1	-	3
5	ME2502	Elements of Mechanical and Electrical Engineering	4	-	-	3
6	CE2508	Building Planning and Drawing	2	-	3	3
7	CE2509	Mechanics of Solids Lab	-	-	4	2
8	CE2510	Survey Field Work	-	-	4	2
Total			17	4	11	21
9	SG2501	Sports and Games / Cultural (Mandatory Non-Credit Course)	-	-	2	-

II Year - II Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	MA2509	Numerical and Statistical Methods	3	1	-	3
2	CE2511	Structural Analysis	2	1	-	2
3	CE2512	Hydraulics and Hydraulic Machines	2	1	-	2
4	CE2513	Concrete Technology	4	-	-	3
5	CE2514	Engineering Geology and Geomatics *	3	-	2	3
6		Open Elective-I (see list of Open Electives)	4	-	-	3
7	CE2517	Fluid Mechanics and Hydraulic Machines Lab	-	-	4	2
8	CE2518	Concrete Technology Lab	-	-	4	2
Total			18	3	10	20
9	NS2501	NSS / Fine Arts / Yoga / Self Defense (Mandatory Non-Credit Course)	-	-	2	-
10		Optional Elective - I	-	-	-	3
	CE2519	i) Interior Design				
	CE2520	ii) Building Bye Laws and Scientific Planning				
	CT2505	iii) Data Structures				
11	CE2521	Optional Elective - II (MOOCs) Student shall opt from the list of MOOCs given by the Department)	-	-	-	2

* Integrated Course with Theory and Laboratory

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III Year - I Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	CE2522	Theory of Structures	3	1	-	3
2	CE2523	Geotechnical Engineering	2	1	-	2
3	CE2524	Hydrology and Water Resources Engineering	4	-	-	3
4	CE2525	Water and Waste Water Engineering	3	1	-	3
5		Professional Elective - I	4	-	-	3
6		Open Elective-II (see list of Open Electives)	4	-	-	3
7	CE2532	Geotechnical Engineering Lab	-	-	4	2
8	CE2533	Water and Waste Water Engineering Lab	-	-	4	2
Total			20	3	8	21
9		Optional Elective - III	-	-	-	3
	CE2534	i) Infrastructure Development				
	ME2509	ii) Basics of Power Plant Engineering				
	CT2507	iii) Object Oriented Programming through JAVA				
10	CE2535	Optional Elective - IV (MOOCs) Students shall opt from the list of MOOCs given by the Department)	-	-	-	2

III Year - II Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	CE2536	Foundation Engineering	3	-	-	2
2	CE2537	Highway Engineering	4	-	-	3
3	CE2538	Design of RC Structures	3	1	-	3
4		Professional Elective - II	4	-	-	3
5		Open Elective-III (see list of Open Electives)	4	-	-	3
6	CE2545	Structural Engineering Lab	-	-	4	2
7	CE2546	Highway Engineering Lab	-	-	4	2
8	CE2547	Mini Project / Survey Camp	-	-	4	2
Total			18	1	12	20
9		Optional Elective - V	-	-	-	3
	CE2548	i) Smart Buildings and Automation				
	CE2549	ii) Building Information Modeling				
	CT2513	iii) Database Management Systems				
10	CE2550	Optional Elective - VI (MOOCs) Students shall opt from the list of MOOCs given by the Department)	-	-	-	2

* Integrated Course with Theory and Laboratory

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Open Elective - I

Sl. No.	Title of the Subject	Department Offering the Subject	No. of Periods per week			No. of Credits
			L	T	P	
1	CE2515 Elements of Civil Engineering (Other than CE)	CE	4	-	-	3
2	CE2516 Building Services	CE	4	-	-	3
3	EE2515 Electrical Materials	EEE	4	-	-	3
4	EE2516 Control Systems Engineering (Other than EEE & ECE)	EEE	4	-	-	3
5	ME2520 Elements of Manufacturing Processes (Other than ME)	ME	4	-	-	3
6	ME2521 Automotive Engineering (Other than ME)	ME	4	-	-	3
7	EC2531 Introduction to MPMC (Other than ECE/EEE/CSE/IT)	ECE	4	-	-	3
8	EC2532 Fundamentals of Communications (Other than ECE)	ECE	4	-	-	3
9	CT2514 Computer Graphics (Other than IT)	CSE	4	-	-	3
10	CT2507 Object Oriented Programming through Java (Other than CSE & IT)	CSE	4	-	-	3
11	CT2515 Systems Software	IT	4	-	-	3
12	IT2502 Web Programming (Other than CSE & IT)	IT	4	-	-	3
13	MA2516 Mathematical Cryptography (Other than CSE)	BS&H	4	-	-	3
14	PH2508 Semiconductor Physics (Other than ECE)	BS&H	4	-	-	3

Open Elective - II

Sl. No.	Title of the Subject	Department Offering the Subject	No. of Periods per week			No. of Credits
			L	T	P	
1	CE2530 Geoinformatics (other than CE)	CE	4	-	-	3
2	CE2531 Environmental Sanitation	CE	4	-	-	3
3	EE2523 Modeling & Simulation of Engineering Systems	EEE	4	-	-	3
4	EE2524 Power Systems Engineering (Other than EEE)	EEE	4	-	-	3
5	ME2532 Elements of Mechanical Transmission (Other than ME)	ME	4	-	-	3
6	ME2533 Material Handling Equipment	ME	4	-	-	3
7	EC2543 Automotive Electronics	ECE	4	-	-	3
8	EC2544 Introduction to MEMS (other than ECE)	ECE	4	-	-	3
9	CS2508 Data Science	CSE	4	-	-	3
10	CT2524 Virtual and Augmented Reality (other than IT)	CSE	4	-	-	3
11	IT2505 Open Source Software	IT	4	-	-	3
12	IT2506 Cyber Laws	IT	4	-	-	3
13	MA2517 Quality, Reliability and Operations Research	BS&H	4	-	-	3

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Open Elective - III

Sl. No.	Title of the Subject	Department Offering the Subject	No. of Periods per week			No. of Credits
			L	T	P	
1	CE2543 Hydrology (Other than CE)	CE	4	-	-	3
2	CE2544 Planning for Sustainable Development	CE	4	-	-	3
3	EE2531 Electrical and Hybrid Vehicles	EEE	4	-	-	3
4	EE2532 Power Plant Instrumentation	EEE	4	-	-	3
5	ME2541 Material Science (Other than ME)	ME	4	-	-	3
6	ME2542 Renewable Energy Sources (Other than ME)	ME	4	-	-	3
7	EC2523 Assistive Technologies (Other than ECE)	ECE	4	-	-	3
8	EC2507 Bio-Medical Engineering (Other than EEE & ECE)	ECE	4	-	-	3
9	CS2512 Node and Angular JS	CSE	4	-	-	3
10	CS2513 Cyber Security	CSE	4	-	-	3
11	CT2529 Scripting Languages (Other than CSE)	IT	4	-	-	3
12	CT2531 Software Project Management (Other than CSE)	IT	4	-	-	3
13	MA2518 Elements of Stochastic Processes	BS&H	4	-	-	3
14	EG2505 Academic Communication	ENGLISH	4	-	-	3

Open Elective - IV

Sl. No.	Title of the Subject	Department Offering the Subject	No. of Periods per week			No. of Credits
			L	T	P	
1	CE2562 Disaster Management (Other than CE)	CE	4	-	-	3
2	CE2563 Repair and Retrofitting Techniques	CE	4	-	-	3
3	EE2542 Modern Optimization Techniques	EEE	4	-	-	3
4	EE2543 Electrical Power Utilization (Other than EEE)	EEE	4	-	-	3
5	ME2553 Green Engineering	ME	4	-	-	3
6	ME2554 Non Destructive Evaluation (Other than ME)	ME	4	-	-	3
7	EC2563 Cyber Physical Systems	ECE	4	-	-	3
8	EC2508 Signals and Systems (Other than EEE & ECE)	ECE	4	-	-	3
9	CS2521 Digital Forensics	CSE	4	-	-	3
10	CS2522 Business Intelligence & Decision Support Systems	CSE	4	-	-	3
11	IT2521 Adhoc and Sensor Networks	IT	4	-	-	3
12	CT2537 Information Retrieval Systems (Other than CSE)	IT	4	-	-	3
13	MA2514 Fuzzy Logic (Other than EEE, ME & CSE)	BS&H	4	-	-	3

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Professional Electives

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods			No. of Credits
			per week			
			L	T	P	
		Professional Elective - I	4	-	-	3
	CE2526	i) Advanced Strength of Materials				
	CE2527	ii) GIS and GPS				
	CE2528	iii) Green Buildings				
	CE2529	iv) Construction Management				
		Professional Elective - II	4	-	-	3
	CE2539	i) Advanced Structural Analysis				
	CE2540	ii) Environmental Pollution and Its Control				
	CE2541	iii) Ground Water Development and Management				
	CE2542	iv) Ground Improvement Techniques				
		Professional Elective - III	4	-	-	3
	CE2554	i) Pre-stressed Concrete				
	CE2555	ii) Advanced Foundation Engineering				
	CE2556	iii) Traffic Engineering				
	CE2557	iv) Industrial Wastewater Management				
		Professional Elective - IV	4	-	-	3
	CE2558	i) Advanced Design of RC Structures				
	CE2559	ii) Hydraulic Structures				
	CE2560	iii) Geosynthetics				
	CE2561	iv) Disaster Preparedness and Planning				
		Professional Elective - V	4	-	-	3
	CE2568	i) Earthquake Resistant Design of Structures				
	CE2569	ii) Logistics Infrastructure Engineering				
	CE2570	iii) Finite Element Methods				
	CE2571	iv) Design and Drawing of Irrigation Structures				
		Professional Elective - VI	4	-	-	3
	CE2572	i) Pre-Engineered Buildings				
	CE2573	ii) Urban Transportation Planning				
	CE2574	iii) Soil Dynamics and Machine Foundations				
	CE2575	iv) Environmental Impact Assessment				

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Civil Engineering

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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

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II Year - I Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	EE2508	DC Machines and Transformers	3	1	-	3
2	EE2509	Electric Circuit Analysis	3	1	-	3
3	EC2503	Analog Electronics	3	1	-	3
4	EE2510	Power Systems - I	3	1	-	3
5	MA2507	Numerical Methods with Computer Applications *	3	-	2	3
6	ME2504	Mechanical Engineering Lab	-	-	4	2
7	EE2511	Electric Circuits Lab	-	-	4	2
8	EC2504	Analog Electronics Lab	-	-	4	2
Total			15	4	14	21
9	NS2501	NSS / Fine Arts / Yoga / Self Defense (Mandatory Non-Credit Course)	-	-	2	-

* Integrated Course with Theory and Laboratory

II Year - II Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	EC2505	Digital Circuit Design	3	1	-	3
2	EE2512	Control Systems	3	1	-	3
3	BA2501	Engineering Economics and Project Management	3	-	-	2
4	EE2513	Induction and Synchronous Machines	3	1	-	3
5	EE2514	Electromagnetic Fields	3	1	-	3
6		Open Elective-I (see list of Open Electives)	4	-	-	3
7	EC2506	Digital Circuit Design Lab	-	-	4	2
8	EE2517	Electrical Machines - I Lab	-	-	4	2
Total			19	4	8	21
9	SG2501	Sports and Games / Cultural (Mandatory Non-Credit Course)	-	-	2	-
10		Optional Elective - I	-	-	-	3
	EC2507	i) Biomedical Engineering				
	CT2512	ii) Computer Organisation and Architecture				
	EE2518	iii) Introduction to Quantum Mechanics for Engineers				
11	EE2519	Optional Elective - II (MOOCs) Student shall opt from the list of MOOCs given by the Department)	-	-	-	2

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III Year - I Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	EE2520	Electrical Measurements & Instrumentation	4	-	-	3
2	EC2508	Signals and Systems	3	1	-	3
3	EE2521	Power Systems - II	3	1	-	3
4		Professional Elective - I	4	-	-	3
5		Open Elective-II (see list of Open Electives)	4	-	-	3
6	EE2525	Control Systems Lab	-	-	4	2
7	EE2526	Electrical Machines- II Lab	-	-	4	2
8	EE2527	Mini Project	-	-	4	2
Total			18	2	12	21
9		Optional Elective - III	-	-	-	3
	ME2549	i) Mechatronics				
	CT2507	ii) Object Oriented Programming Through Java				
	EE2528	iii) Control System Design				
10	EE2529	Optional Elective - IV (MOOCs) Students shall opt from the list of MOOCs given by the Department)	-	-	-	2

III Year - II Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	EE2530	Power Electronics	3	1	-	3
2	MA251	Probability and Fuzzy Mathematics	3	1	-	3
3	EC2510	Microprocessors, Microcontrollers and Its Applications **	3	1	-	3
4		Professional Elective - II	4	-	-	3
5		Open Elective-III(see list of Open Electives)	4	-	-	3
6	EE2533	Electrical Systems Simulation Lab	-	-	4	2
7	EE2534	Electrical Measurements & Instrumentation Lab	-	-	4	2
8	EC2515	Microprocessors, Microcontrollers and Its Applications Lab	-	-	4	2
Total			17	3	12	21
9		Optional Elective - V	-	-	-	3
	CT2513	i) Data Base Management Systems				
	EC2516	ii) Nano Electronics				
	EE2535	iii) Solar and Wind Energy Systems				
10	EE2536	Optional Elective - VI (MOOCs) Students shall opt from the list of MOOCs given by the Department)	-	-	-	2

* Project Based Theory Course

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Open Elective - I

Sl. No.	Title of the Subject	Department Offering the Subject	No. of Periods per week			No. of Credits
			L	T	P	
1	CE2515 Elements of Civil Engineering (Other than CE)	CE	4	-	-	3
2	CE2516 Building Services	CE	4	-	-	3
3	EE2515 Electrical Materials	EEE	4	-	-	3
4	EE2516 Control Systems Engineering (Other than EEE & ECE)	EEE	4	-	-	3
5	ME2520 Elements of Manufacturing Processes (Other than ME)	ME	4	-	-	3
6	ME2521 Automotive Engineering (Other than ME)	ME	4	-	-	3
7	EC2531 Introduction to MPMC (Other than ECE/EEE/CSE/IT)	ECE	4	-	-	3
8	EC2532 Fundamentals of Communications (Other than ECE)	ECE	4	-	-	3
9	CT2514 Computer Graphics (Other than IT)	CSE	4	-	-	3
10	CT2507 Object Oriented Programming through Java (other than CSE & IT)	CSE	4	-	-	3
11	CT2515 Systems Software	IT	4	-	-	3
12	IT2502 Web Programming (Other than CSE & IT)	IT	4	-	-	3
13	MA2516 Mathematical Cryptography (Other than CSE)	BS&H	4	-	-	3
14	PH2508 Semiconductor Physics (Other than ECE)	BS&H	4	-	-	3

Open Elective - II

Sl. No.	Title of the Subject	Department Offering the Subject	No. of Periods per week			No. of Credits
			L	T	P	
1	CE2530 Geoinformatics (other than CE)	CE	4	-	-	3
2	CE2531 Environmental Sanitation	CE	4	-	-	3
3	EE2523 Modeling & Simulation of Engineering Systems	EEE	4	-	-	3
4	EE2524 Power Systems Engineering (Other than EEE)	EEE	4	-	-	3
5	ME2532 Elements of Mechanical Transmission (Other than ME)	ME	4	-	-	3
6	ME2533 Material Handling Equipment	ME	4	-	-	3
7	EC2543 Automotive Electronics	ECE	4	-	-	3
8	EC2544 Introduction to MEMS (other than ECE)	ECE	4	-	-	3
9	CS2508 Data Science	CSE	4	-	-	3
10	CT2524 Virtual and Augmented Reality (other than IT)	CSE	4	-	-	3
11	IT2505 Open Source Software	IT	4	-	-	3
12	IT2506 Cyber Laws	IT	4	-	-	3
13	MA2517 Quality, Reliability and Operations Research	BS&H	4	-	-	3

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Open Elective - III

Sl. No.	Title of the Subject	Department Offering the Subject	No. of Periods per week			No. of Credits
			L	T	P	
1	CE2543 Hydrology (Other than CE)	CE	4	-	-	3
2	CE2544 Planning for Sustainable Development	CE	4	-	-	3
3	EE2531 Electrical and Hybrid Vehicles	EEE	4	-	-	3
4	EE2532 Power Plant Instrumentation	EEE	4	-	-	3
5	ME2541 Material Science (Other than ME)	ME	4	-	-	3
6	ME2542 Renewable Energy Sources (Other than ME)	ME	4	-	-	3
7	EC2523 Assistive Technologies (Other than ECE)	ECE	4	-	-	3
8	EC2507 Bio-Medical Engineering (Other than EEE & ECE)	ECE	4	-	-	3
9	CS2512 Node and Angular JS	CSE	4	-	-	3
10	CS2513 Cyber Security	CSE	4	-	-	3
11	CT2529 Scripting Languages (Other than CSE)	IT	4	-	-	3
12	CT2531 Software Project Management (Other than CSE)	IT	4	-	-	3
13	MA2518 Elements of Stochastic Processes	BS&H	4	-	-	3
14	EG2505 Academic Communication	ENGLISH	4	-	-	3

Open Elective - IV

Sl. No.	Title of the Subject	Department Offering the Subject	No. of Periods per week			No. of Credits
			L	T	P	
1	CE2562 Disaster Management (Other than CE)	CE	4	-	-	3
2	CE2563 Repair and Retrofitting Techniques	CE	4	-	-	3
3	EE2542 Modern Optimization Techniques	EEE	4	-	-	3
4	EE2543 Electrical Power Utilization (Other than EEE)	EEE	4	-	-	3
5	ME2553 Green Engineering	ME	4	-	-	3
6	ME2554 Non Destructive Evaluation (Other than ME)	ME	4	-	-	3
7	EC2563 Cyber Physical Systems	ECE	4	-	-	3
8	EC2508 Signals and Systems (Other than EEE & ECE)	ECE	4	-	-	3
9	CS2521 Digital Forensics	CSE	4	-	-	3
10	CS2522 Business Intelligence & Decision Support Systems	CSE	4	-	-	3
11	IT2521 Adhoc and Sensor Networks	IT	4	-	-	3
12	CT2537 Information Retrieval Systems (Other than CSE)	IT	4	-	-	3
13	MA2514 Fuzzy Logic (Other than EEE, ME & CSE)	BS&H	4	-	-	3

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Professional Electives

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods			No. of Credits
			per week			
			L	T	P	
		Professional Elective - I	4	-	-	3
	EE2522	i) Switch Gear and Protection				
	CT2519	ii) Computer Networks				
	EC2509	iii) Pulse and Integrated Circuits				
	CT2505	iv) Data Structures				
		Professional Elective - II	4	-	-	3
	EC2511	i) Digital Signal Processing				
	EC2512	ii) Embedded System Design				
	EC2513	iii) Principles of VLSI Design				
	EC2514	iv) DSP Processors and Architecture				
		Professional Elective - III	3	1	-	3
	CT2534	i) Big Data Analytics				
	EC2517	ii) CMOS Digital IC Design				
	EE2538	iii) Power Semiconductor Drives				
	EE2539	iv) Flexible AC Transmission Systems				
		Professional Elective - IV	3	1	-	3
	CS2513	i) Cyber Security				
	EC2518	ii) Digital Image Processing				
	EE2540	iii) Power System Operation & Control				
	EE2541	iv) High Voltage Engineering				
		Professional Elective - V	-	-	-	3
	EE2549	i) Electrical Distribution System	3	1	-	
	EE2550	ii) Artificial Intelligence Techniques	4	-	-	
	EE2551	iii) Advanced Control Systems	3	1	-	
	EE2552	iv) Energy Audit, Conservation and Management	3	1	--	
		Professional Elective - VI	3	1	-	3
	EE2553	i) Special Electrical Machines				
	EE2554	ii) Digital Control Systems				
	EE2555	iii) Utilization of Electrical Energy				
	EE2556	iv) HVDC Transmission Systems				

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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

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II Year - I Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	EE2501	Elements of Electrical and Electronics Engineering	3	1	-	3
2	ME2510	Engineering Thermodynamics	3	1	-	3
3	ME2511	Kinematics of Machines	3	1	-	3
4	ME2512	Solid Mechanics	3	1	-	3
5	ME2513	Engineering Metallurgy	4	-	-	3
6	EE2502	Electrical and Electronics Engineering Lab	-	-	2	1
7	ME2514	Solid Mechanics and Metallurgy Lab	-	-	4	2
8	ME2515	Computer Aided Modeling Lab	-	-	2	1
Total			16	4	8	19
9	SG2501	Sports and Games / Cultural (Mandatory Non-Credit Course)	-	-	2	-

II Year - II Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	ME2516	Manufacturing Processes	4	-	-	3
2	ME2517	Applied Thermodynamics	3	1	-	3
3	ME2518	Dynamics of Machines	3	1	-	3
4	ME2519	Fluid Mechanics	3	1	-	3
5		Open Elective-I (see list of Open Electives)	4	-	-	3
6	ME2522	Thermal Engineering Lab	-	-	4	2
7	ME2523	Manufacturing Processes Lab	-	-	4	2
8	ME2524	Machine Dynamics Lab	-	-	2	1
Total			17	3	10	20
9	NS2501	NSS /Fine Arts / Yoga / Self Defense (Mandatory Non-Credit Course)	-	-	2	-
10		Optional Elective - I	-	-	-	3
	EE2512	i) Control Systems				
	ME2525	ii) Nano Technology				
	CT2506	iii) Digital Logic Design				
11	ME2526	Optional Elective - II (MOOCs) Student shall opt from teh list of MOOCs given by the Department)	-	-	-	2




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III Year - I Semester


Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	MA2509	Numerical and Statistical Methods	3	1	-	3
2	ME2527	Metal Cutting and Machine Tools	4	-	-	3
3	ME2528	Turbo Machinery	3	1	-	3
4		Professional Elective - I	4	-	-	3
5		Open Elective-II (see list of Open Electives)	4	-	-	3
6	ME2534	Fluid Mechanics and Turbo Machinery Lab	-	-	4	2
7	ME2535	Machine Tools Lab	-	-	4	2
8	ME2536	Computer Aided Machine Drawing Lab	-	-	4	2
Total			18	2	12	21
9		Optional Elective - III	-	-	-	3
	CT2514	i) Computer Graphics				
	EE2503	ii) Fuzzy Logic Systems				
	EC2520	iii) Micro Processors and Interfacing				
10	ME2537	Optional Elective - IV (MOOCs) Students shall opt from the list of MOOCs given by the Department)	-	-	-	2

III Year - II Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	BA2503	Engineering Economics and Accountancy	4	-	-	3
2	ME2538	Metrology and Instrumentation	3	1	-	3
3	ME2539	Design of Machine Members	3	1	-	3
4	ME2540	Heat Transfer	3	1	-	3
5		Professional Elective - II	4	-	-	3
6		Open Elective-III (see list of Open Electives)	4	-	-	3
7	ME2546	Heat Transfer Lab	-	-	4	2
8	ME2547	Metrology and Instrumentation Lab	-	-	4	2
9	ME2548	Computer Aided Engineering Analysis Lab	-	-	2	1
Total			21	3	10	23
10		Optional Elective - V	-	-	-	3
	CT2507	i) Object Oriented Programming through Java				
	ME2549	ii) Mechatronics				
	EC2512iii)	Embedded System Design				
11	ME2550	Optional Elective - VI (MOOCs) Students shall opt from the list of MOOCs given by the Department)	-	-	-	2

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Open Elective - I

Sl. No.	Title of the Subject	Department Offering the Subject	No. of Periods per week			No. of Credits
			L	T	P	
1	CE2515 Elements of Civil Engineering (Other than CE)	CE	4	-	-	3
2	CE2516 Building Services	CE	4	-	-	3
3	EE2515 Electrical Materials	EEE	4	-	-	3
4	EE2516 Control Systems Engineering (Other than EEE & ECE)	EEE	4	-	-	3
5	ME2520 Elements of Manufacturing Processes (Other than ME)	ME	4	-	-	3
6	ME2521 Automotive Engineering (Other than ME)	ME	4	-	-	3
7	EC2531 Introduction to MPMC (Other than ECE/EEE/CSE/IT)	ECE	4	-	-	3
8	EC2532 Fundamentals of Communications (Other than ECE)	ECE	4	-	-	3
9	CT2514 Computer Graphics (Other than IT)	CSE	4	-	-	3
10	CT2507 Object Oriented Programming through Java (other than CSE & IT)	CSE	4	-	-	3
11	CT2515 Systems Software	IT	4	-	-	3
12	IT2502 Web Programming (Other than CSE & IT)	IT	4	-	-	3
13	MA2516 Mathematical Cryptography (Other than CSE)	BS&H	4	-	-	3
14	PH2508 Semiconductor Physics (Other than ECE)	BS&H	4	-	-	3

Open Elective - II

Sl. No.	Title of the Subject	Department Offering the Subject	No. of Periods per week			No. of Credits
			L	T	P	
1	CE2530 Geoinformatics (other than CE)	CE	4	-	-	3
2	CE2531 Environmental Sanitation	CE	4	-	-	3
3	EE2523 Modeling & Simulation of Engineering Systems	EEE	4	-	-	3
4	EE2524 Power Systems Engineering (Other than EEE)	EEE	4	-	-	3
5	ME2532 Elements of Mechanical Transmission (Other than ME)	ME	4	-	-	3
6	ME2533 Material Handling Equipment	ME	4	-	-	3
7	EC2543 Automotive Electronics	ECE	4	-	-	3
8	EC2544 Introduction to MEMS (other than ECE)	ECE	4	-	-	3
9	CS2508 Data Science	CSE	4	-	-	3
10	CT2524 Virtual and Augmented Reality (other than IT)	CSE	4	-	-	3
11	IT2505 Open Source Software	IT	4	-	-	3
12	IT2506 Cyber Laws	IT	4	-	-	3
13	MA2517 Quality, Reliability and Operations Research	BS&H	4	-	-	3

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Open Elective - III

Sl. No.	Title of the Subject	Department Offering the Subject	No. of Periods per week			No. of Credits
			L	T	P	
1	CE2543 Hydrology (Other than CE)	CE	4	-	-	3
2	CE2544 Planning for Sustainable Development	CE	4	-	-	3
3	EE2531 Electrical and Hybrid Vehicles	EEE	4	-	-	3
4	EE2532 Power Plant Instrumentation	EEE	4	-	-	3
5	ME2541 Material Science (Other than ME)	ME	4	-	-	3
6	ME2542 Renewable Energy Sources (Other than ME)	ME	4	-	-	3
7	EC2523 Assistive Technologies (Other than ECE)	ECE	4	-	-	3
8	EC2507 Bio-Medical Engineering (Other than EEE & ECE)	ECE	4	-	-	3
9	CS2512 Node and Angular JS	CSE	4	-	-	3
10	CS2513 Cyber Security	CSE	4	-	-	3
11	CT2529 Scripting Languages (Other than CSE)	IT	4	-	-	3
12	CT2531 Software Project Management (Other than CSE)	IT	4	-	-	3
13	MA2518 Elements of Stochastic Processes	BS&H	4	-	-	3
14	EG2505 Academic Communication	ENGLISH	4	-	-	3

Open Elective - IV

Sl. No.	Title of the Subject	Department Offering the Subject	No. of Periods per week			No. of Credits
			L	T	P	
1	CE2562 Disaster Management (Other than CE)	CE	4	-	-	3
2	CE2563 Repair and Retrofitting Techniques	CE	4	-	-	3
3	EE2542 Modern Optimization Techniques	EEE	4	-	-	3
4	EE2543 Electrical Power Utilization (Other than EEE)	EEE	4	-	-	3
5	ME2553 Green Engineering	ME	4	-	-	3
6	ME2554 Non Destructive Evaluation (Other than ME)	ME	4	-	-	3
7	EC2563 Cyber Physical Systems	ECE	4	-	-	3
8	EC2508 Signals and Systems (Other than EEE & ECE)	ECE	4	-	-	3
9	CS2521 Digital Forensics	CSE	4	-	-	3
10	CS2522 Business Intelligence & Decision Support Systems	CSE	4	-	-	3
11	IT2521 Adhoc and Sensor Networks	IT	4	-	-	3
12	CT2537 Information Retrieval Systems (Other than CSE)	IT	4	-	-	3
13	MA2514 Fuzzy Logic (Other than EEE, ME & CSE)	BS&H	4	-	-	3

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Professional Electives

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods			No. of Credits
			L	T	P	
		Professional Elective - I	4	-	-	3
	ME2529	i) Non Conventional Sources of Energy				
	ME2530	ii) Mechancial Vibrations				
	ME2531	iii) Mechancis of Composite Materials				
	CT2505	iv) Data Structures				
		Professional Elective - II	4	-	-	3
	ME2543	i) Principles of Finite Element Method				
	ME2544	ii) Robotics				
	ME2545	iii) Automobile Engineering				
	CT2513	iv) Database Management Systems				
		Professional Elective - III	4	-	-	3
	MA2515	i) Optimization Techniques				
	ME2555	ii) Refrigeration and Air Conditioning				
	ME2556	iii) Unconventional Machining Process				
	ME2557	iv) Tribology				
		Professional Elective - IV	4	-	-	3
	ME2558	i) Total Quality Management				
	ME2559	ii) Computational Fluid Dynamics				
	ME2560	iii) Condition Monitoring				
	ME2561	iv) Design of Transmission Elements				
		Professional Elective - V	4	-	-	3
	ME2567	i) Design for Manufacturing and Assembly				
	ME2568	ii) Production Planning and Control				
	ME2569	iii) Power Plant Engineering				
	ME2570	iv) Theory of Elasticity				
		Professional Elective - VI	4	-	-	3
	ME2571	i) Rapid Prototyping				
	ME2572	ii) Gas Dynamics and Jet Propulsion				
	ME2573	iii) Automation in Manufacturing				
	ME2574	iv) Non Destructive Techniques				

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Mechanical Engineering

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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

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II Year - I Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	EC2524	Probability Theory and Stochastic Process	3	1	-	3
2	EC2525	Electronic Devices	4	-	-	3
3	EC2508	Signals and Systems	3	1	-	3
4	BA2501	Engineering Economics and Project Management	3	-	-	2
5	EC2526	Electromagnetic Field Theory	4	-	-	3
6	EE2505	Elements of Electrical Engineering	3	-	-	2
7	EC2527	Electronic Devices Lab	-	-	4	2
8	EE2507	Networks and Electrical Technology Lab	-	-	2	1
Total			20	2	6	19
9	NS2501	NSS / Fine Arts / Yoga / Self Defense (Mandatory Non-Credit Course)	-	-	2	-

II Year - II Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	EC2528	Transmission Lines and Waveguides	4	-	-	3
2	EC2529	Analog Circuits	4	-	-	3
3	EC2530	Analog Communications	3	-	-	2
4	EC2505	Digital Circuit Design	3	1	-	3
5	CS2501	Fundamentals of Data Structures	3	-	-	2
6		Open Elective-I (see list of Open Electives)	4	-	-	3
7	EC2533	Analog Circuits Lab	-	-	4	2
8	EC2506	Digital Circuit Design Lab	-	-	4	2
Total			21	1	8	20
9	SG2501	Sports and Games / Cultural (Mandatory Non-Credit Course)	-	-	2	-
10		Optional Elective - I	-	-	-	3
	CS2502	i) Introduction to Python Programming				
	CT2513	ii) Database Management Systems				
	EC2534	iii) Electronic Switching Systems				
11	EC2535	Optional Elective - II (MOOCs) Student shall opt from teh list of MOOCs given by the Department)	-	-	-	2

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III Year - I Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	EC2536	Linear Integrated Circuits Applications	3	1	-	3
2	EC2537	Digital Communications	3	-	-	2
3	EC2538	Antennas and Wave Propagation	4	-	-	3
4	EC2539	Principles of VLSI Design	3	-	-	2
5		Professional Elective - I	4	-	-	3
6		Open Elective-II (see list of Open Electives)	4	-	-	3
7	EC2545	Linear Integrated Circuits Applications Lab	-	-	4	2
8	EC2546	Analog and Digital Communications Lab	-	-	4	2
Total			21	1	8	20
9		Optional Elective - III	-	-	-	3
	CT2528	i) Data Warehousing and Data Mining				
	ME2549	ii) Mechatronics				
	EC2544	iii) Introduction to MEMS				
10	EC2547	Optional Elective - IV (MOOCs) Students shall opt from the list of MOOCs given by the Department)	-	-	-	2

III Year - II Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	EC2511	Digital Signal Processing	4	-	-	3
2	EE2512	Control Systems	3	1	-	3
3	EC2510	Microprocessors, Microcontrollers and Applications**	3	-	1	3
4	EC2548	Microwave and Optical Communications	3	-	-	2
5		Professional Elective - II	4	-	-	3
6		Open Elective-III (see list of Open Electives)	4	-	-	3
7	EC2515	Microprocessor and Microcontroller Interfacing Lab	-	-	4	2
8	EC2552	Digital Signal Processing Lab	-	-	4	2
9	EC2553	VLSI Lab	-	-	4	2
Total			21	1	13	23
10		Optional Elective - V	-	-	-	3
	CT2534	i) Big Data Analytics				
	EC2554	ii) Cognitive Radio Networks				
	CT2533	iii) Cryptography and Network Security				
10	EC2555	Optional Elective - VI (MOOCs) Students shall opt from the list of MOOCs given by the Department)	-	-	-	2

* Project Based Theory Course

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Open Elective - I

Sl. No.	Title of the Subject	Department Offering the Subject	No. of Periods per week			No. of Credits
			L	T	P	
1	CE2515 Elements of Civil Engineering (Other than CE)	CE	4	-	-	3
2	CE2516 Building Services	CE	4	-	-	3
3	EE2515 Electrical Materials	EEE	4	-	-	3
4	EE2516 Control Systems Engineering (Other than EEE & ECE)	EEE	4	-	-	3
5	ME2520 Elements of Manufacturing Processes (Other than ME)	ME	4	-	-	3
6	ME2521 Automotive Engineering (Other than ME)	ME	4	-	-	3
7	EC2531 Introduction to MPMC (Other than ECE/EEE/CSE/IT)	ECE	4	-	-	3
8	EC2532 Fundamentals of Communications (Other than ECE)	ECE	4	-	-	3
9	CT2514 Computer Graphics (Other than IT)	CSE	4	-	-	3
10	CT2507 Object Oriented Programming through Java (other than CSE & IT)	CSE	4	-	-	3
11	CT2515 Systems Software	IT	4	-	-	3
12	IT2502 Web Programming (Other than CSE & IT)	IT	4	-	-	3
13	MA2516 Mathematical Cryptography (Other than CSE)	BS&H	4	-	-	3
14	PH2508 Semiconductor Physics (Other than ECE)	BS&H	4	-	-	3

Open Elective - II

Sl. No.	Title of the Subject	Department Offering the Subject	No. of Periods per week			No. of Credits
			L	T	P	
1	CE2530 Geoinformatics (other than CE)	CE	4	-	-	3
2	CE2531 Environmental Sanitation	CE	4	-	-	3
3	EE2523 Modeling & Simulation of Engineering Systems	EEE	4	-	-	3
4	EE2524 Power Systems Engineering (Other than EEE)	EEE	4	-	-	3
5	ME2532 Elements of Mechanical Transmission (Other than ME)	ME	4	-	-	3
6	ME2533 Material Handling Equipment	ME	4	-	-	3
7	EC2543 Automotive Electronics	ECE	4	-	-	3
8	EC2544 Introduction to MEMS (other than ECE)	ECE	4	-	-	3
9	CS2508 Data Science	CSE	4	-	-	3
10	CT2524 Virtual and Augmented Reality (other than IT)	CSE	4	-	-	3
11	IT2505 Open Source Software	IT	4	-	-	3
12	IT2506 Cyber Laws	IT	4	-	-	3
13	MA2517 Quality, Reliability and Operations Research	BS&H	4	-	-	3

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Open Elective - III

Sl. No.	Title of the Subject	Department Offering the Subject	No. of Periods per week			No. of Credits
			L	T	P	
1	CE2543 Hydrology (Other than CE)	CE	4	-	-	3
2	CE2544 Planning for Sustainable Development	CE	4	-	-	3
3	EE2531 Electrical and Hybrid Vehicles	EEE	4	-	-	3
4	EE2532 Power Plant Instrumentation	EEE	4	-	-	3
5	ME2541 Material Science (Other than ME)	ME	4	-	-	3
6	ME2542 Renewable Energy Sources (Other than ME)	ME	4	-	-	3
7	EC2523 Assistive Technologies (Other than ECE)	ECE	4	-	-	3
8	EC2507 Bio-Medical Engineering (Other than EEE & ECE)	ECE	4	-	-	3
9	CS2512 Node and Angular JS	CSE	4	-	-	3
10	CS2513 Cyber Security	CSE	4	-	-	3
11	CT2529 Scripting Languages (Other than CSE)	IT	4	-	-	3
12	CT2531 Software Project Management (Other than CSE)	IT	4	-	-	3
13	MA2518 Elements of Stochastic Processes	BS&H	4	-	-	3
14	EG2505 Academic Communication	ENGLISH	4	-	-	3

Open Elective - IV

Sl. No.	Title of the Subject	Department Offering the Subject	No. of Periods per week			No. of Credits
			L	T	P	
1	CE2562 Disaster Management (Other than CE)	CE	4	-	-	3
2	CE2563 Repair and Retrofitting Techniques	CE	4	-	-	3
3	EE2542 Modern Optimization Techniques	EEE	4	-	-	3
4	EE2543 Electrical Power Utilization (Other than EEE)	EEE	4	-	-	3
5	ME2553 Green Engineering	ME	4	-	-	3
6	ME2554 Non Destructive Evaluation (Other than ME)	ME	4	-	-	3
7	EC2563 Cyber Physical Systems	ECE	4	-	-	3
8	EC2508 Signals and Systems (Other than EEE & ECE)	ECE	4	-	-	3
9	CS2521 Digital Forensics	CSE	4	-	-	3
10	CS2522 Business Intelligence & Decision Support Systems	CSE	4	-	-	3
11	IT2521 Adhoc and Sensor Networks	IT	4	-	-	3
12	CT2537 Information Retrieval Systems (Other than CSE)	IT	4	-	-	3
13	MA2514 Fuzzy Logic (Other than EEE, ME & CSE)	BS&H	4	-	-	3

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Professional Electives

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods			No. of Credits
			L	T	P	
		Professional Elective - I	4	-	-	3
	EC2540	i) CAD for VLSI				
	EC2541	ii) Computer Organization				
	EC2542	iii) Computer and Communication Networks				
	EC2507	iv) Biomedical Engineering				
		Professional Elective - II	4	-	-	3
	EC2549	i) Analog IC Design				
	EC2516	ii) Nano Electronics				
	EC2550	iii) Smart Antennas				
	EC2551	iv) Coding Theory				
		Professional Elective - III	4	-	-	3
	EC2557	i) Mixed Signal IC Design				
	EC2558	ii) Cellular and Mobile Communications				
	EC2559	iii) Digital TV Engineering				
	EC2514	iv) DSP Processors and Architectures				
		Professional Elective - IV	4	-	-	3
	EC2560	i) System on Chip Design				
	EC2561	ii) Wireless Sensor Networks				
	EC2562	iii) Satellite Communication				
	EC2518	iv) Digital Image Processing				
		Professional Elective - V	4	-	-	3
	EC2569	i) Low Power VLSI Circuits				
	EC2570	ii) Real Time Operating Systems				
	EC2571	iii) Speech Processing				
	EC2572	iv) Adaptive Signal Processing				
		Professional Elective - VI	4	-	-	3
	EC2573	i) ASIC Design				
	EC2574	ii) Embedded C				
	EC2575	iii) RADAR Engineering				
	EC2576	iv) Multi Rate Signal Processing				

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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

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II Year - I Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods			No. of Credits
			per week			
			L	T	P	
1	BA2502	Managerial Economics and Financial Analysis	3	-	-	2
2	MA2508	Discrete Mathematical Structures	3	1	-	3
3	CT2505	Data Structures	3	1	-	3
4	CT2506	Digital Logic Design	3	1	-	3
5	CT2507	Object Oriented Programming through Java	4	-	-	3
6	CT2508	Data Structures Lab	-	-	4	2
7	CT2509	Object Oriented Programming Lab	-	-	4	2
8	CS2503	UNIX Programming Lab	-	-	4	2
Total			16	3	12	20
9	SG2501	Sports and Games / Cultural (Mandatory Non-Credit Course)	-	-	2	-

II Year - II Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods			No. of Credits
			per week			
			L	T	P	
1	MA2510	Probability and Statistics	3	1	-	3
2	CT2510	Operating Systems	3	1	-	3
3	CT2511	Formal Languages and Automata Theory	3	1	-	3
4	CT2512	Computer Organization and Architecture	3	1	-	3
5	CT2513	Database Management Systems	3	1	-	3
6		Open Elective-I (see list of Open Electives)	4	-	-	3
7	CS2504	Operating Systems Lab	-	-	4	2
8	CT2516	Database Management Systems Lab	-	-	4	2
Total			19	5	8	22
9	NS2501	NSS / Fine Arts / Yoga / Self Defense (Mandatory Non-Credit Course)	-	-	2	-
10		Optional Elective - I	-	-	-	3
	CE2575	i) Environmental Impact Assessment				
	EC2508	ii) Signals and Systems				
	MA2514	iii) Fuzzy Logic				
11	CS2505	Optional Elective - II (MOOCs) Students shall opt from the list of MOOCs given by the Department)	-	-	-	2

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III Year - I Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	CT2517	Software Engineering	3	1	-	3
2	CT2518	Compiler Design	3	1	-	3
3	CT2519	Computer Networks	3	1	-	3
4	CT2520	Web Technologies	4	-	-	3
5		Professional Elective - I	4	-	-	3
6		Open Elective-II (see list of Open Electives)	4	-	-	3
7	CS2509	Computer Networks and Compiler Design Lab	-	-	4	2
8	CT2525	Web Technologies Lab	-	-	4	2
Total			21	3	8	22
9		Optional Elective - III	-	-	-	3
	CT2526	i) Human Computer Interaction				
	EC2511	ii) Digital Signal Processing				
	EE2512	iii) Control Systems				
10	CS2510	Optional Elective - IV (MOOCs) Students shall opt from the list of MOOCs given by the Department)	-	-	-	2

III Year - II Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	CT2527	Design and Analysis of Algorithms	3	1	-	3
2	CT2528	Data Warehousing and Data Mining	4	-	-	3
3	CS2511	UML and Design Patterns *	3	-	2	3
5		Professional Elective - II (OR) Any other Elective Depending on Industry Needs	4	-	-	3
6		Open Elective-III (see list of Open Electives)	4	-	-	3
7	CS2514	Data Mining Lab	-	-	4	2
8	CS2515	Mini Project	-	-	4	2
Total			18	1	10	19
9		Optional Elective - V	-	-	-	3
	CS2516	i) Graph Theory				
	EC2512	ii) Embedded System Design				
	EE2554	iii) Digital Control Systems				
10	CS2517	Optional Elective - VI (MOOCs) Students shall opt from the list of MOOCs given by the Department)	-	-	-	2

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Open Elective - I

Sl. No.	Title of the Subject	Department Offering the Subject	No. of Periods per week			No. of Credits
			L	T	P	
1	CE2515 Elements of Civil Engineering (Other than CE)	CE	4	-	-	3
2	CE2516 Building Services	CE	4	-	-	3
3	EE2515 Electrical Materials	EEE	4	-	-	3
4	EE2516 Control Systems Engineering (Other than EEE & ECE)	EEE	4	-	-	3
5	ME2520 Elements of Manufacturing Processes (Other than ME)	ME	4	-	-	3
6	ME2521 Automotive Engineering (Other than ME)	ME	4	-	-	3
7	EC2531 Introduction to MPMC (Other than ECE/EEE/CSE/IT)	ECE	4	-	-	3
8	EC2532 Fundamentals of Communications (Other than ECE)	ECE	4	-	-	3
9	CT2514 Computer Graphics (Other than IT)	CSE	4	-	-	3
10	CT2507 Object Oriented Programming through Java (other than CSE & IT)	CSE	4	-	-	3
11	CT2515 Systems Software	IT	4	-	-	3
12	IT2502 Web Programming (Other than CSE & IT)	IT	4	-	-	3
13	MA2516 Mathematical Cryptography (Other than CSE)	BS&H	4	-	-	3
14	PH2508 Semiconductor Physics (Other than ECE)	BS&H	4	-	-	3

Open Elective - II

Sl. No.	Title of the Subject	Department Offering the Subject	No. of Periods per week			No. of Credits
			L	T	P	
1	CE2530 Geoinformatics (other than CE)	CE	4	-	-	3
2	CE2531 Environmental Sanitation	CE	4	-	-	3
3	EE2523 Modeling & Simulation of Engineering Systems	EEE	4	-	-	3
4	EE2524 Power Systems Engineering (Other than EEE)	EEE	4	-	-	3
5	ME2532 Elements of Mechanical Transmission (Other than ME)	ME	4	-	-	3
6	ME2533 Material Handling Equipment	ME	4	-	-	3
7	EC2543 Automotive Electronics	ECE	4	-	-	3
8	EC2544 Introduction to MEMS (other than ECE)	ECE	4	-	-	3
9	CS2508 Data Science	CSE	4	-	-	3
10	CT2524 Virtual and Augmented Reality (other than IT)	CSE	4	-	-	3
11	IT2505 Open Source Software	IT	4	-	-	3
12	IT2506 Cyber Laws	IT	4	-	-	3
13	MA2517 Quality, Reliability and Operations Research	BS&H	4	-	-	3

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Open Elective - III

Sl. No.	Title of the Subject	Department Offering the Subject	No. of Periods per week			No. of Credits
			L	T	P	
1	CE2543 Hydrology (Other than CE)	CE	4	-	-	3
2	CE2544 Planning for Sustainable Development	CE	4	-	-	3
3	EE2531 Electrical and Hybrid Vehicles	EEE	4	-	-	3
4	EE2532 Power Plant Instrumentation	EEE	4	-	-	3
5	ME2541 Material Science (Other than ME)	ME	4	-	-	3
6	ME2542 Renewable Energy Sources (Other than ME)	ME	4	-	-	3
7	EC2523 Assistive Technologies (Other than ECE)	ECE	4	-	-	3
8	EC2507 Bio-Medical Engineering (Other than EEE & ECE)	ECE	4	-	-	3
9	CS2512 Node and Angular JS	CSE	4	-	-	3
10	CS2513 Cyber Security	CSE	4	-	-	3
11	CT2529 Scripting Languages (Other than CSE)	IT	4	-	-	3
12	CT2531 Software Project Management (Other than CSE)	IT	4	-	-	3
13	MA2518 Elements of Stochastic Processes	BS&H	4	-	-	3
14	EG2505 Academic Communication	ENGLISH	4	-	-	3

Open Elective - IV

Sl. No.	Title of the Subject	Department Offering the Subject	No. of Periods per week			No. of Credits
			L	T	P	
1	CE2562 Disaster Management (Other than CE)	CE	4	-	-	3
2	CE2563 Repair and Retrofitting Techniques	CE	4	-	-	3
3	EE2542 Modern Optimization Techniques	EEE	4	-	-	3
4	EE2543 Electrical Power Utilization (Other than EEE)	EEE	4	-	-	3
5	ME2553 Green Engineering	ME	4	-	-	3
6	ME2554 Non Destructive Evaluation (Other than ME)	ME	4	-	-	3
7	EC2563 Cyber Physical Systems	ECE	4	-	-	3
8	EC2508 Signals and Systems (Other than EEE & ECE)	ECE	4	-	-	3
9	CS2521 Digital Forensics	CSE	4	-	-	3
10	CS2522 Business Intelligence & Decision Support Systems	CSE	4	-	-	3
11	IT2521 Adhoc and Sensor Networks	IT	4	-	-	3
12	CT2537 Information Retrieval Systems (Other than CSE)	IT	4	-	-	3
13	MA2514 Fuzzy Logic (Other than EEE, ME & CSE)	BS&H	4	-	-	3

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Professional Electives

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods			No. of Credits
			L	T	P	
		Professional Elective - I	4	-	-	3
	CS2506	i) C#.NET				
	CT2522	ii) Advanced Data Structures				
	CT2523	iii) Software Testing Methodologies				
	CS2507	iv) Principles of Programming Languages				
		Professional Elective - II	4	-	-	3
	CT2521	i) Artificial Intelligence				
	CT2529	ii) Scripting Languages				
	EC2520	iii) Microprocessors and Interfacing				
	CT2531	iv) Software Project Management				
		Professional Elective - III	4	-	-	3
	CS2518	i) Machine Learning				
	CT2535	ii) Internet of Things				
	CS2519	iii) NoSQL Databases				
	CS2520	iv) Software Requirements Engineering and Estimation				
		Professional Elective - IV	4	-	-	3
	CT2536	i) Mobile Computing				
	CT2530	ii) Image Processing				
	CT2537	iii) Information Retrieval Systems				
	MA2515	iv) Optimization Techniques				
		Professional Elective - V	4	-	-	3
	CS2527	i) Web Mining				
	CT2540	ii) Cloud Computing				
	CT2532	iii) Agile Software Development Process				
	CT2541	iv) Blockchain Technologies				
		Professional Elective - VI	4	-	-	3
	CS2528	i) Distributed Systems				
	CT2539	ii) Social Networks				
	CS2529	iii) Web Services				
	CS2530	iv) Deep Learning				

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Computer Science and Engineering

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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

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II Year - I Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	MA2508	Discrete Mathematical Structures	3	1	-	3
2	CT2505	Data Structures	3	1	-	3
3	CT2506	Digital Logic Design	3	1	-	3
4	CT2507	Object Oriented Programming through Java	4	-	-	3
5	IT2501	UNIX and Shell Programming *	4	-	2	4
6	CT2508	Data Structures Lab	-	-	4	2
7	CT2509	Object Oriented Programming Lab	-	-	4	2
Total			17	3	10	20
8	NS2501	NSS / Fine Arts / Yoga / Self Defense (Mandatory Non-Credit Course)	-	-	2	-

II Year - II Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	MA2510	Probability and Statistics	3	1	-	3
2	EC2521	Microprocessors and Microcontrollers *	4	-	2	4
3	CT2511	Formal Languages and Automata Theory	3	1	-	3
4	CT2512	Computer Organization and Architecture	3	1	-	3
5	CT2513	Database Management Systems	3	1	-	3
6		Open Elective-I (see list of Open Electives)	4	-	-	3
7	CT2516	Database Management Systems Lab	-	-	4	2
Total			20	4	6	21
8	SG2501	Sports and Games / Cultural (Mandatory Non-Credit Course)	-	-	2	-
9		Optional Elective - I	-	-	-	3
	IT2503	i) Information and Communication Technology				
	EC2508	ii) Signals and Systems				
	EE2506	iii) Basic Electrical Engineering				
10	IT2504	Optional Elective - II (MOOCs) Students shall opt from the list of MOOCs given by the Department)	-	-	-	2

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III Year - I Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	CT2517	Software Engineering	3	1	-	3
2	CT2518	Compiler Design	3	1	-	3
3	CT2510	Operating Systems	3	1	-	3
4	CT2520	Web Technologies	4	-	-	3
5		Professional Elective - I	4	-	-	3
6		Open Elective-II (see list of Open Electives)	4	-	-	3
7	IT2507	Operating Systems and Compiler Design Lab	-	-	4	2
8	CT2525	Web Technologies Lab	-	-	4	2
Total			21	3	8	22
9		Optional Elective - III	-	-	-	3
	IT2508	i) Object Oriented Programming through C++				
	EC2522	ii) Data Communication				
	CE2549	iii) Building Information Modelling				
10	IT2509	Optional Elective - IV (MOOCs) Students shall opt from the list of MOOCs given by the Department)	-	-	-	2

III Year - II Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	CT2527	Design and Analysis of Algorithms	3	1	-	3
2	CT2528	Data Warehousing and Data Mining	4	-	-	3
3	IT2510	Object Oriented Analysis and Design *	4	-	2	4
4	CT2519	Computer Networks	3	1	-	3
5		Professional Elective - II	4	-	-	3
6		Open Elective-III (see list of Open Electives)	4	-	-	3
7	IT2513	Computer Networks and Data Mining Lab	-	-	4	2
Total			22	2	6	21
8		Optional Elective - V	-	-	-	3
	IT2514	i) Secure Web Technologies				
	IT2515	ii) Management Information Systems				
	ME2544	iii) Robotics				
9	IT2516	Optional Elective - VI (MOOCs) Students shall opt from the list of MOOCs given by the Department)	-	-	-	2

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Open Elective - I

Sl. No.	Title of the Subject	Department Offering the Subject	No. of Periods per week			No. of Credits
			L	T	P	
1	CE2515 Elements of Civil Engineering (Other than CE)	CE	4	-	-	3
2	CE2516 Building Services	CE	4	-	-	3
3	EE2515 Electrical Materials	EEE	4	-	-	3
4	EE2516 Control Systems Engineering (Other than EEE & ECE)	EEE	4	-	-	3
5	ME2520 Elements of Manufacturing Processes (Other than ME)	ME	4	-	-	3
6	ME2521 Automotive Engineering (Other than ME)	ME	4	-	-	3
7	EC2531 Introduction to MPMC (Other than ECE/EEE/CSE/IT)	ECE	4	-	-	3
8	EC2532 Fundamentals of Communications (Other than ECE)	ECE	4	-	-	3
9	CT2514 Computer Graphics (Other than IT)	CSE	4	-	-	3
10	CT2507 Object Oriented Programming through Java (other than CSE & IT)	CSE	4	-	-	3
11	CT2515 Systems Software	IT	4	-	-	3
12	IT2502 Web Programming (Other than CSE & IT)	IT	4	-	-	3
13	MA2516 Mathematical Cryptography (Other than CSE)	BS&H	4	-	-	3
14	PH2508 Semiconductor Physics (Other than ECE)	BS&H	4	-	-	3

Open Elective - II

Sl. No.	Title of the Subject	Department Offering the Subject	No. of Periods per week			No. of Credits
			L	T	P	
1	CE2530 Geoinformatics (other than CE)	CE	4	-	-	3
2	CE2531 Environmental Sanitation	CE	4	-	-	3
3	EE2523 Modeling & Simulation of Engineering Systems	EEE	4	-	-	3
4	EE2524 Power Systems Engineering (Other than EEE)	EEE	4	-	-	3
5	ME2532 Elements of Mechanical Transmission (Other than ME)	ME	4	-	-	3
6	ME2533 Material Handling Equipment	ME	4	-	-	3
7	EC2543 Automotive Electronics	ECE	4	-	-	3
8	EC2544 Introduction to MEMS (other than ECE)	ECE	4	-	-	3
9	CS2508 Data Science	CSE	4	-	-	3
10	CT2524 Virtual and Augmented Reality (other than IT)	CSE	4	-	-	3
11	IT2505 Open Source Software	IT	4	-	-	3
12	IT2506 Cyber Laws	IT	4	-	-	3
13	MA2517 Quality, Reliability and Operations Research	BS&H	4	-	-	3

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Open Elective - III

Sl. No.	Title of the Subject	Department Offering the Subject	No. of Periods per week			No. of Credits
			L	T	P	
1	CE2543 Hydrology (Other than CE)	CE	4	-	-	3
2	CE2544 Planning for Sustainable Development	CE	4	-	-	3
3	EE2531 Electrical and Hybrid Vehicles	EEE	4	-	-	3
4	EE2532 Power Plant Instrumentation	EEE	4	-	-	3
5	ME2541 Material Science (Other than ME)	ME	4	-	-	3
6	ME2542 Renewable Energy Sources (Other than ME)	ME	4	-	-	3
7	EC2523 Assistive Technologies (Other than ECE)	ECE	4	-	-	3
8	EC2507 Bio-Medical Engineering (Other than EEE & ECE)	ECE	4	-	-	3
9	CS2512 Node and Angular JS	CSE	4	-	-	3
10	CS2513 Cyber Security	CSE	4	-	-	3
11	CT2529 Scripting Languages (Other than CSE)	IT	4	-	-	3
12	CT2531 Software Project Management (Other than CSE)	IT	4	-	-	3
13	MA2518 Elements of Stochastic Processes	BS&H	4	-	-	3
14	EG2505 Academic Communication	ENGLISH	4	-	-	3

Open Elective - IV

Sl. No.	Title of the Subject	Department Offering the Subject	No. of Periods per week			No. of Credits
			L	T	P	
1	CE2562 Disaster Management (Other than CE)	CE	4	-	-	3
2	CE2563 Repair and Retrofitting Techniques	CE	4	-	-	3
3	EE2542 Modern Optimization Techniques	EEE	4	-	-	3
4	EE2543 Electrical Power Utilization (Other than EEE)	EEE	4	-	-	3
5	ME2553 Green Engineering	ME	4	-	-	3
6	ME2554 Non Destructive Evaluation (Other than ME)	ME	4	-	-	3
7	EC2563 Cyber Physical Systems	ECE	4	-	-	3
8	EC2508 Signals and Systems (Other than EEE & ECE)	ECE	4	-	-	3
9	CS2521 Digital Forensics	CSE	4	-	-	3
10	CS2522 Business Intelligence & Decision Support Systems	CSE	4	-	-	3
11	IT2521 Adhoc and Sensor Networks	IT	4	-	-	3
12	CT2537 Information Retrieval Systems (Other than CSE)	IT	4	-	-	3
13	MA2514 Fuzzy Logic (Other than EEE, ME & CSE)	BS&H	4	-	-	3

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Professional Electives

Sl. No.	Course Code	Name of the Course / Laboratory	No.of Periods			No.of Credits
			L	T	P	
		Professional Elective - I	4	-	-	3
	CT2521	i) Artificial Intelligence				
	EC2512	ii) Embedded System Design				
	CT2514	iii) Computer Graphics				
	CT2522	iv) Advanced Data Structures				
		Professional Elective - II	4	-	-	3
	IT2511	i) Soft Computing Techniques				
	IT2512	ii) Real Time Systems				
	CT2530	iii) Image Processing				
	CT2532	iv) Agile Software Development Process				
		Professional Elective - III	4	-	-	3
	IT2517	i) Machine Learning and Pattern Recognition				
	IT2518	ii) Distributed Operating Systems				
	CT2526	iii) Human Computer Interaction				
	CT2523	iv) Software Testing Methodologies				
		Professional Elective - IV	4	-	-	3
	IT2519	i) Business Intelligence				
	CT2536	ii) Mobile Computing				
	IT2520	iii) Multimedia Tools				
	CT2533	iv) Cryptography and Network Security				
		Professional Elective - V	4	-	-	3
	IT2525	i) Steganography and Biometrics				
	IT2526	ii) Parallel Computing				
	CT2524	iii) Virtual and Augmented Reality				
	IT2527	iv) E-Commerce				
		Professional Elective - VI	4	-	-	3
	CT2535	i) Internet of Things				
	CT2540	ii) Cloud Computing				
	CT2541	iii) Blockchain Technologies				
	IT2528	iv) Design Patterns				

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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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Seshadri Rao
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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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 J-321, 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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Seshadri Rao Knowledge Park
21-256, Krishna

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
Core Elective – II					
3	EE1536	Electrical Distribution Systems	3+1*	-	3
4	EE1537	HVDC Transmission Systems			
5	EE1534	VLSI Design			
6	EE1538	Special Electrical Machines			
Core Elective – III					
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	
Elective – IV					
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			
Elective – V					
5	EE1549	Digital Control Systems	3+1*	-	3
6	EE1550	AI Techniques			
7	EE1551	EHV AC/DC Transmission Systems			
8	EE1552	Power Plant Instrumentation	-	-	2
9		Self Study Course (see the list of Self Study Courses)			
10	EE1554	Industrial / Practical Training	-	-	4
11	EE1555	Project Work	-	9	9
Total			8	9	21

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 Seshadri Rao Knowledge
 Gudlalleru - 521 356, Kf

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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 Gudlalleru - 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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Gudlalleru - 521 358, 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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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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Seshadri Rao Knowledge Village
Gudlavalleru - 521 355, 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 Solid Waste Management (other than CE)	CE	3+1*	-	3
2	CE1535		CE	3+1*	-	3
3	EE1531	Energy Audit, Conservation and Management	EEE	3+1*	-	3
4	ME1535	Material Science (other than ME) Automotive Electronics Introduction to MP&MC (other than EEE, ECE, CSE & IT)	ME	3+1*	-	3
5	EC1540		ECE	3+1*	-	3
6	EC1541		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 Big Data (other than CSE & IT) Multi-variate analysis and Special Functions	IT	3+1*	-	3
11	IT1511		IT	3+1*	-	3
12	MA1509		Maths	3+1*	-	3


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

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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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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Gudlavalleru - 521 350, Krishna Dist.

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

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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Gudlavalleru - 521 358, 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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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	Digital Image Processing	3+1*	-	3
4	CS1524	Advanced Computer Architecture			
5	CS1525	Embedded Systems			
6	CS1526	Bio-Informatics			
7	CS1527	Core Elective – III	3+1*	-	3
8	CS1528	Distributed Systems			
9	CT1520	Parallel Computing			
10	CS1529	Software Testing Methodologies 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	3+1*	-	3
2	CT1525	Distributed Data Bases			
3	CS1533	Software Project Management			
4	CT1519	Semantic Web Big Data			
1	CS1534	Elective – V	3+1*	-	3
2	CT1520	Machine Learning			
3	CT1526	Cloud Computing			
4	CS1535	Pattern Recognition 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 Solid Waste Management (other than CE)	CE	3+1*	-	3
2	CE1535		CE	3+1*	-	3
3	EE1531	Energy Audit, Conservation and Management	EEE	3+1*	-	3
4	ME1535	Material Science (other than ME) Automotive Electronics Introduction to MP&MC (other than EEE, ECE, CSE & IT)	ME	3+1*	-	3
5	EC1540		ECE	3+1*	-	3
6	EC1541		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 Big Data (other than CSE & IT) Multi-variate analysis and Special Functions	IT	3+1*	-	3
11	IT1511		IT	3+1*	-	3
12	MA1509		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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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	Core Elective – II Distributed Databases Human Computer Interaction Bio-Metrics Software Testing Methodologies	3+1*	-	3
4	CT1518				
5	IT1523				
6	CT1520				
7	IT1524	Core Elective – III Information Retrieval Systems Digital Image Processing Mobile Computing Software Project Management	3+1*	-	3
8	CT1519				
9	IT1525				
10	CT1524				
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	
1	IT1529	Elective – IV E-Commerce Pattern Recognition Cloud Computing Business Intelligence	3+1*	-	3
2	CT1526				
3	CT1520				
4	IT1530				
1	CT1519	Elective – V Big Data Soft Computing Computer Forensics Software Quality Assurance	3+1*	-	3
2	IT1531				
3	IT1532				
4	IT1533				
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 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
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 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
Total			23	-	6	22


** Project Based Theory Course

L : Lecture T : Tutorial P : Practical

M.Tech - Mahcine 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 Hours per week			No. of Credits
			L	T	P	
1	MA3902	Linear and Non-Linear Optimization Techniques	3	-	-	3
2	EC3903	Embedded System Design **	3	-	-	3
3	EC3904	Advanced Digital Design	3	-	-	3
4	EC3905	Advanced Microcontrollers	3	-	-	3
5	EC3906	CMOS VLSI circuits	3	-	-	3
6		Professional Elective - I	3	-	-	3
7	EC3911	VLSI Design Lab	-	-	4	2
Total			18	-	4	20

II Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Hours per week			No. of Credits
			L	T	P	
1	HS3901	Research Methodologies	3	-	-	3
2	EC3912	VLSI System Design **	3	-	-	3
3	EC3913	Hardware and Software Co-Design	3	-	-	3
4	EC3914	Internet of Things	3	-	-	3
5		Professional Elective - II	3	-	-	3
6		Professional Elective - III	3	-	-	3
7	EC3923	Internet of Things Lab	-	-	4	2
8	EC3924	Seminar	-	-	4	2
Total			18	-	8	22

** Project Based Theory Course

L : Lecture T : Tutorial P : Practical

M.Tech - VLSI Design and Embedded Systems (ECE) - R19

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III Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Hours per week			No. of Credits
			L	T	P	
1	EC3925	Dissertation (Part-A)	-	-	-	-

IV Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Hours per week			No. of Credits
			L	T	P	
1	EC3925	Dissertation (Part-B)	-	-	-	28
Total			-	-	-	28

Professional Electives:

Professional Elective - I

EC3907 Testing & Testability of VLSI circuits
EC3908 VLSI Digital Signal Processing
EC3909 Real Time Operating systems
EC3910 Embedded Processors

Professional Elective - II

EC3915 ASIC System Design
EC3916 Advances in VLSI Design
EC3917 Embedded Computing Architectures
EC3918 Advanced Computer Networks

Professional Elective - III

EC3919 System-on-Chip Design
EC3920 VLSI Interconnects
EC3921 RF VLSI design
EC3922 Advanced Digital Signal Processing




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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			No. of Credits
			per week	L	T	
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			No. of Credits
			per week	L	T	
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




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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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