



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 2021 - 2022.

S. No	Name of the Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
1.	Applied Mechanics	CE3501	B. Tech-CE	Employability
2.	Engineering Graphics	ME3503	B. Tech-CE	Employability
3.	Applied Mechanics Lab & Building Trade Practice	CE3502	B. Tech-CE	Employability
4.	Engineering Physics	PH3501	B. Tech-CE	Employability
5.	Problem Solving Using C	CT3501	B. Tech-CE	Employability
6.	Engineering Physics Lab	PH3503	B. Tech-CE	Skill Development
7.	Linear Algebra and Calculus	MA3501	B. Tech-CE	Employability
8.	Integral Transforms and Vector Calculus	MA3505	B. Tech-CE	Employability
9.	Engineering Chemistry	CH3501	B. Tech-CE	Employability
10.	Engineering Chemistry Lab	CH3502	B. Tech-CE	Skill Development
11.	Fluid Mechanics	CE3505	B. Tech-CE	Employability
12.	Building Materials and Building Construction	CE3503	B. Tech-CE	Employability
13.	Mechanics of Solids	CE3504	B. Tech-CE	Employability
14.	Fluid Mechanics	CE3505	B. Tech-CE	Employability
15.	Surveying	CE3506	B. Tech-CE	Employability
16.	Survey Field Work	CE3508	B. Tech-CE	Skill Development
17.	Logic Building and Basic Coding Principles	SD3501	B. Tech-CE	Skill Development
18.	Structural Analysis	CE3510	B. Tech-CE	Employability
19.	Hydraulics & Hydraulic Machines	CE3511	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
20.	Concrete Technology	CE3512	B. Tech-CE	Employability
21.	Python Programming	CT3508	B. Tech-CE	Employability
22.	Fluid Mechanics & Hydraulic Machines Lab	CE3515	B. Tech-CE	Skill Development
23.	Concrete Technology Lab	CE3516	B. Tech-CE	Skill Development
24.	Programming for Corporate	SD3503	B. Tech-CE	Skill Development
25.	Engineering Geology & Geo-Spatial Applications	CE3507	B. Tech-CE	Employability
26.	Circuit Theory - I	EE3504	B. Tech-EEE	Employability
27.	Linear Algebra and Calculus	MA3501	B. Tech-EEE	Employability
28.	Integral Transforms and Vector Calculus	MA3505	B. Tech-EEE	Employability
29.	Solid State Physics	PH3504	B. Tech-EEE	Employability
30.	Solid State Physics Lab	PH3505	B. Tech-EEE	Skill Development
31.	Applied Chemistry Lab	CH3504	B. Tech-EEE	Skill Development
32.	Applied Chemistry	CH3503	B. Tech-EEE	Employability
33.	Problem Solving Using C	CT3501	B. Tech-EEE	Employability
34.	Python Programming	CT3508	B. Tech-EEE	Employability
35.	Circuit Theory - II	EE3508	B. Tech-EEE	Employability
36.	Control Systems	EE3509	B. Tech-EEE	Employability
37.	DC Machines and Transformers	EE3510	B. Tech-EEE	Employability
38.	Digital Circuits	EC3505	B. Tech-EEE	Employability
39.	Electronic Devices and Circuits	EC3504	B. Tech-EEE	Employability
40.	Electronic Devices and Circuits Lab	EC3506	B. Tech-EEE	Skill Development
41.	Digital Circuits Lab	EC3507	B. Tech-EEE	Skill Development
42.	Logic building and Basic Coding Principles	SD3501	B. Tech-EEE	Skill Development
43.	Digital Circuits	EC3505	B. Tech-EEE	Employability
44.	Power Generation Systems	EE3512	B. Tech-EEE	Employability
45.	Numerical Methods with	MA3514	B. Tech-EEE	Employability

S. No	Name of the Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
	Computer Applications			
46.	Induction & Synchronous Machines	EE3511	B. Tech-EEE	Employability
47.	Power generation Systems	EE3512	B. Tech-EEE	Employability
48.	Signals and Systems	EC3510	B. Tech-EEE	Employability
49.	DC Machines and Transformers Lab	EE3515	B. Tech-EEE	Skill Development
50.	Electrical Circuits Lab	EE3516	B. Tech-EEE	Skill Development
51.	Simulation of Electrical Engineering Systems	EE3517	B. Tech-EEE	Employability
52.	Programming for Corporate	SD3503	B. Tech-EEE	Employability
53.	Linear Algebra and Calculus	MA3501	B. Tech-ME	Employability
54.	Engineering Graphics	ME3503	B. Tech-ME	Employability
55.	Problem Solving Using C	CT3501	B. Tech-ME	Employability
56.	Integral Transforms and Vector Calculus	MA3505	B. Tech-ME	Employability
57.	Physics for Engineers	PH3502	B. Tech-ME	Employability
58.	Chemistry for Engineers	CH3504	B. Tech-ME	Employability
59.	Engineering Mechanics	ME3504	B. Tech-ME	Employability
60.	Engineering Workshop	ME3505	B. Tech-ME	Skill Development
61.	Engineering Mechanics Lab and Fuel & Lubricants Lab	ME3506	B. Tech-ME	Skill Development
62.	Electrical & Electronics Engineering Lab	EE3506	B. Tech-ME	Skill Development
63.	Engineering Thermodynamics	ME3508	B. Tech-ME	Employability
64.	Fluid Mechanics & Hydraulic Machines	ME3516	B. Tech-ME	Employability
65.	Logic Building and Basic Coding Principles	SD3501	B. Tech-ME	Skill Development
66.	Manufacturing Processes Lab & Machine Dynamics Lab	ME3520	B. Tech-ME	Skill Development
67.	Manufacturing Science	ME3513	B. Tech-ME	Employability
68.	Materials Engineering	ME3511	B. Tech-ME	Employability
69.	Mechanics of Solids	ME3510	B. Tech-ME	Employability
70.	Mechanics of Solids Lab and	ME3512	B. Tech-ME	Skill

S. No	Name of the Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
	Materials Lab			Development
71.	Numerical & Statistical Methods	MA3513	B. Tech-ME	Employability
72.	Numerical & Statistical Methods Lab	MA3515	B. Tech-ME	Skill Development
73.	Programming for Corporate	SD3503	B. Tech-ME	Employability
74.	Python Programming	CT3508	B. Tech-ME	Employability
75.	Problem Solving Using C	CT3501	B. Tech-ECE	Employability
76.	Electronic Workshop	EC3503	B. Tech-ECE	Skill Development
77.	Linear Algebra and Calculus	MA3501	B. Tech-ECE	Employability
78.	Integral Transforms and Vector Calculus	MA3505	B. Tech-ECE	Employability
79.	Solid State Physics	PH3504	B. Tech-ECE	Employability
80.	Solid State Physics Lab	PH3506	B. Tech-ECE	Skill Development
81.	Applied Chemistry	CH3503	B. Tech-ECE	Employability
82.	Linear Electrical Networks	EE3502	B. Tech-ECE	Employability
83.	Logic Building and Algorithmic Programming	SD3502	B. Tech-ECE	Skill Development
84.	Digital Circuit Design	EC3512	B. Tech-ECE	Employability
85.	Probability Theory and Stochastic Processes	EC3508	B. Tech-ECE	Employability
86.	Semiconductor Devices and Circuits	EC3509	B. Tech-ECE	Employability
87.	Signals and Systems	EC3510	B. Tech-ECE	Employability
88.	Electromagnetic Field Theory	EC3511	B. Tech-ECE	Employability
89.	Semiconductor Devices and Circuits Lab	EC3513	B. Tech-ECE	Skill Development
90.	Linear Electrical Networks Lab	EE3507	B. Tech-ECE	Skill Development
91.	Transmission Lines and Waveguides	EC3516	B. Tech-ECE	Employability
92.	Analog Circuits	EC3517	B. Tech-ECE	Employability
93.	Analog and Digital Communications	EC3518	B. Tech-ECE	Employability
94.	VLSI Design	EC3519	B. Tech-ECE	Employability

S. No	Name of the Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
95.	Data Structures	CT3509	B. Tech-ECE	Employability
96.	Analog Circuits Lab	EC3522	B. Tech-ECE	Skill Development
97.	Numerical Methods & Complex Analysis	MA3508	B. Tech-ECE	Employability
98.	VLSI Design	EC3519	B. Tech-ECE	Employability
99.	Digital Circuit Design lab	EC3536	B. Tech-ECE	Skill Development
100.	Programming for Corporate	SD3503	B. Tech-ECE	Employability
101.	Programming for Problem Solving	CT3502	B. Tech-CSE	Employability
102.	C Programming Lab	CT3503	B. Tech-CSE	Skill Development
103.	Python Programming	CT3504	B. Tech-CSE	Employability
104.	Data Structures	CT3505	B. Tech-CSE	Employability
105.	Python programming lab	CT3506	B. Tech-CSE	Skill Development
106.	Data Structures Lab	CT3507	B. Tech-CSE	Skill Development
107.	Java Programming Lab	CT3514	B. Tech-CSE	Skill Development
108.	Database Management Systems Lab	CT3515	B. Tech-CSE	Skill Development
109.	Logic Building and Algorithmic Programming	SD3502	B. Tech-CSE	Employability
110.	Software Engineering	CS3502	B. Tech-CSE	Employability
111.	Digital Logic Design	CT3510	B. Tech-CSE	Employability
112.	Object Oriented Programming through JAVA	CT3511	B. Tech-CSE	Employability
113.	Database Management Systems	CT3512	B. Tech-CSE	Employability
114.	Operating Systems Lab	CT3523	B. Tech-CSE	Skill Development
115.	Computer Organization	CT3518	B. Tech-CSE	Employability
116.	Design and Analysis of Algorithms	CS3501	B. Tech-CSE	Employability
117.	Operating Systems	CT3519	B. Tech-CSE	Employability

S. No	Name of the Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
118.	Game Programming lab	CT3524	B. Tech-CSE	Skill Development
119.	Programming for Corporate	SD3503	B. Tech-CSE	Employability
120.	Probability and statistics using R Lab	MA3510	B. Tech-CSE	Skill Development
121.	Discrete Mathematical structures	MA3511	B. Tech-CSE	Employability
122.	Linear Algebra and Calculus	MA3501	B. Tech-IT	Employability
123.	Integral Transforms and Vector Calculus	MA3505	B. Tech-IT	Employability
124.	Applied Chemistry	CH3506	B. Tech-IT	Employability
125.	Programming for Problem Solving	CT3502	B. Tech-IT	Employability
126.	Applied Chemistry Lab	CH3507	B. Tech-IT	Skill Development
127.	C Programming Lab	CT3503	B. Tech-IT	Skill Development
128.	Applied Physics	PH3509	B. Tech-IT	Employability
129.	Applied Physics Lab	PH3510	B. Tech-IT	Skill Development
130.	Data Structures Lab	CT3507	B. Tech-IT	Skill Development
131.	Data Structures	CT3505		Employability
132.	Object Oriented Programming through JAVA	CT3511	B. Tech-IT	Employability
133.	JAVA Programming Lab	CT3514	B. Tech-IT	Skill Development
134.	Linux Programming Lab	IT3502	B. Tech-IT	Skill Development
135.	R Programming Lab	IT3501	B. Tech-IT	Skill Development
136.	Python Programming	IT3503	B. Tech-IT	Employability
137.	Python Programming Lab	IT3506	B. Tech-IT	Skill Development
138.	Mobile Application Development	CT3525	B. Tech-IT	Skill Development
139.	Logic Building and Algorithmic Programming	SD3502	B. Tech-IT	Skill Development

S. No	Name of the Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
140.	Programming for Corporate	SD3503	B. Tech-IT	Skill Development
141.	Discrete Mathematical Structures	MA3511	B. Tech-IT	Employability
142.	Digital Logic Design	CT3510	B. Tech-IT	Employability
143.	Formal Languages and Automata Theory	CT3513	B. Tech-IT	Employability
144.	Database Management Systems	CT3512	B. Tech-IT	Employability
145.	Computer Organization	CT3518	B. Tech-IT	Employability
146.	Database Management Systems Lab	CT3515	B. Tech-IT	Employability
147.	Object Oriented Programming through Java	CT3511	B. Tech-AIDS	Skill Development
148.	Java Programming Lab	CT3514	B. Tech-AIDS	Skill Development
149.	Database Management Systems	CT3512	B. Tech-AIDS	Employability
150.	Database Management Systems Lab	CT3515	B. Tech-AIDS	Skill Development
151.	Logic Building and Algorithmic Programming	SD3502	B. Tech-AIDS	Skill Development
152.	Artificial Intelligence	CT3521	B. Tech-AIDS	Employability
153.	Artificial Intelligence Lab	AD3501	B. Tech-AIDS	Skill Development
154.	Software Engineering	CS3502	B. Tech-AIDS	Employability
155.	Game Programming lab	CT3524	B. Tech-AIDS	Skill Development
156.	Programming for Corporate	SD3503	B. Tech-AIDS	Skill Development
157.	Descriptive Statistics	MA3502	B. Tech-AIDS	Employability
158.	Statistics using R Lab	MA3503	B. Tech-AIDS	Skill Development
159.	Engineering Calculus	MA3504	B. Tech-AIDS	Employability
160.	Integral Transforms and Vector Calculus	MA3505	B. Tech-AIDS	Employability
161.	Linear Algebra	MA3507	B. Tech-AIDS	Employability
162.	Discrete Mathematics	MA3511	B. Tech-AIDS	Employability

S. No	Name of the Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
	Structures			
163.	Advanced Statistics	MA3512	B. Tech-AIDS	Employability
164.	Programming for problem solving	CT3502	B. Tech-AIDS	Employability
165.	C Programming Lab	CT3503	B. Tech-AIDS	Skill Development
166.	Python Programming	CT3504	B. Tech-AIDS	Employability
167.	Data Structures	CT3505	B. Tech-AIDS	Employability
168.	Data Structures Lab	CT3507	B. Tech-AIDS	Skill Development
169.	Python Programming Lab	CT3506	B. Tech-AIDS	Employability
170.	Managerial Economics and Financial Analysis	BA3502	B. Tech-AIDS	Entrepreneurship
171.	Applied physics	PH3507	B. Tech-IOT	Employability
172.	Engineering Physics Lab	PH3508	B. Tech-IOT	Skill Development
173.	Problem Solving using C	CT3501	B. Tech-IOT	Employability
174.	Basic Electrical Engineering	EE3501	B. Tech-IOT	Employability
175.	Basic Electrical Engineering Lab	EE3503	B. Tech-IOT	Skill Development
176.	Electronic workshop for IoT	IN3502	B. Tech-IOT	Employability
177.	Principles of Communication Systems	IN3504	B. Tech-IOT	Employability
178.	Analog and Digital Communications Lab	EC3515	B. Tech-IOT	Skill Development
179.	Analog Devices and Circuits	IN3503	B. Tech-IOT	Employability
180.	Analog Devices and Circuits Lab	IN3506	B. Tech-IOT	Skill Development
181.	Electronic Instrumentation and Measurement Principles	EC3514	B. Tech-IOT	Employability
182.	Transducers and Signal Conditioning	IN3505	B. Tech-IOT	Employability
183.	Data Structures	CT3509	B. Tech-IOT	Employability
184.	Signal Analysis and Processing	IN3507	B. Tech-IOT	Employability
185.	Signal Analysis and Processing Lab	IN3509	B. Tech-IOT	Skill Development
186.	Digital Circuits Design	EC3512	B. Tech-IOT	Employability

S. No	Name of the Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
187.	Digital Circuits Design Lab	EC3523	B. Tech-IOT	Skill Development
188.	Object Oriented Programming through JAVA	CT3516	B. Tech-IOT	Employability
189.	Computer Organization and Architecture	IN3508	B. Tech-IOT	Employability
190.	Object Oriented Programming through Java	CT3511	B. Tech-IOT	Employability
191.	Java Programming Lab	CT3514	B. Tech-IOT	Skill Development
192.	Database Management Systems	CT3512	B. Tech-IOT	Employability
193.	Database Management Systems Lab	CT3515	B. Tech-IOT	Skill Development
194.	Logic Building and Algorithmic Programming	SD3502	B. Tech-IOT	Skill Development
195.	Artificial Intelligence	CT3521	B. Tech-IOT	Employability
196.	Artificial Intelligence Lab	AD3501	B. Tech-IOT	Skill Development
197.	Software Engineering	CS3502	B. Tech-IOT	Employability
198.	Game Programming lab	CT3524	B. Tech-IOT	Skill Development
199.	Programming for Corporate	SD3503	B. Tech-IOT	Skill Development
200.	Descriptive Statistics	MA3502	B. Tech-IOT	Employability
201.	Statistics using R Lab	MA3503	B. Tech-IOT	Skill Development
202.	Engineering Calculus	MA3504	B. Tech-IOT	Employability
203.	Integral Transforms and Vector Calculus	MA3505	B. Tech-IOT	Employability
204.	Linear Algebra	MA3507	B. Tech-IOT	Employability
205.	Discrete Mathematics Structures	MA3511	B. Tech-IOT	Employability
206.	Advanced Statistics	MA3512	B. Tech-IOT	Employability
207.	Programming for problem solving	CT3502	B. Tech-IOT	Employability
208.	C Programming Lab	CT3503	B. Tech-IOT	Skill Development

S. No	Name of the Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
209.	Python Programming	CT3504	B. Tech-IOT	Employability
210.	Data Structures	CT3505	B. Tech-IOT	Employability
211.	Data Structures Lab	CT3507	B. Tech-IOT	Skill Development
212.	Python Programming Lab	CT3506	B. Tech-IOT	Skill Development
213.	Managerial Economics and Financial Analysis	BA3502	B. Tech-IOT	Entrepreneurship
214.	Object Oriented Programming through Java	CT3511	B. Tech-AIML	Employability
215.	Java Programming Lab	CT3514	B. Tech-AIML	Employability
216.	Database Management Systems	CT3512	B. Tech-AIML	Employability
217.	Database Management Systems Lab	CT3515	B. Tech-AIML	Employability
218.	Logic Building and Algorithmic Programming	SD3502	B. Tech-AIML	Employability
219.	Artificial Intelligence	CT3521	B. Tech-AIML	Employability
220.	Artificial Intelligence Lab	AD3501	B. Tech-AIML	Employability
221.	Software Engineering	CS3502	B. Tech-AIML	Employability
222.	Game Programming lab	CT3524	B. Tech-AIML	Employability
223.	Programming for Corporate	SD3503	B. Tech-AIML	Employability
224.	Descriptive Statistics	MA3502	B. Tech-AIML	Employability
225.	Statistics using R Lab	MA3503	B. Tech-AIML	Employability
226.	Engineering Calculus	MA3504	B. Tech-AIML	Employability
227.	Integral Transforms and Vector Calculus	MA3505	B. Tech-AIML	Employability
228.	Linear Algebra	MA3507	B. Tech-AIML	Employability
229.	Discrete Mathematics Structures	MA3511	B. Tech-AIML	Employability
230.	Advanced Statistics	MA3512	B. Tech-AIML	Employability
231.	Programming for problem solving	CT3502	B. Tech-AIML	Employability
232.	C Programming Lab	CT3503	B. Tech-AIML	Employability
233.	Python Programming	CT3504	B. Tech-AIML	Employability
234.	Data Structures	CT3505	B. Tech-AIML	Employability

S. No	Name of the Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
235.	Data Structures Lab	CT3507	B. Tech-AIML	Employability
236.	Python Programming Lab	CT3506	B. Tech-AIML	Skill Development
237.	Managerial Economics and Financial Analysis	BA3502	B. Tech-AIML	Entrepreneurship
238.	Theory of Structures	CE2522	B. Tech-CE	Employability
239.	Geotechnical Engineering	CE2523	B. Tech-CE	Employability
240.	Hydrology and Water Resources Engineering	CE2524	B. Tech-CE	Employability
241.	Water and Waste Water Engineering	CE2525	B. Tech-CE	Employability
242.	Water and Waste Water Engineering Lab	CE2533	B. Tech-CE	Skill Development
243.	Infrastructure Development	CE2534	B. Tech-CE	Employability
244.	Foundation Engineering	CE2536	B. Tech-CE	Employability
245.	Highway Engineering	CE2537	B. Tech-CE	Employability
246.	Highway Engineering Lab	CE2546	B. Tech-CE	Skill Development
247.	Smart Buildings and Automation	CE2548	B. Tech-CE	Employability
248.	Building Information Modelling	CE2549	B. Tech-CE	Employability
249.	Project Management and Finance	CE2551	B. Tech-CE	Entrepreneurship
250.	Project Scheduling and Contracts	CE2566	B. Tech-CE	Employability
251.	Geo informatics	CE2530	B. Tech-CE	Employability
252.	Environmental Sanitation	CE2531	B. Tech-CE	Employability
253.	Hydrology	CE2543	B. Tech-CE	Employability
254.	Planning for Sustainable Development	CE2544	B. Tech-CE	Employability
255.	Repair and Retrofitting Techniques	CE2563	B. Tech-CE	Employability
256.	Advanced Strength of Materials	CE2526	B. Tech-CE	Employability
257.	GIS and GPS	CE2527	B. Tech-CE	Employability
258.	Green Buildings	CE2528	B. Tech-CE	Employability

S. No	Name of the Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
259.	Construction Management	CE2529	B. Tech-CE	Employability
260.	Ground Improvement Techniques	CE2542	B. Tech-CE	Employability
261.	Advanced Foundation Engineering	CE2555	B. Tech-CE	Employability
262.	Traffic Engineering	CE2556	B. Tech-CE	Employability
263.	Advanced Design of RC Structures	CE2558	B. Tech-CE	Employability
264.	Hydraulic Structures	CE2559	B. Tech-CE	Employability
265.	Geo synthetics	CE2560	B. Tech-CE	Employability
266.	Disaster Preparedness and Planning	CE2561	B. Tech-CE	Employability
267.	Logistics Infrastructure Engineering	CE2569	B. Tech-CE	Employability
268.	Pre-Engineered Buildings	CE2572	B. Tech-CE	Employability
269.	Urban Transportation Planning	CE2573	B. Tech-CE	Employability
270.	Soil Dynamics and Machine Foundations	CE2574	B. Tech-CE	Employability
271.	Mechatronics	ME2549	B. Tech-EEE	Employability
272.	Electrical Measurements & Instrumentation	EE2520	B. Tech-EEE	Employability
273.	Signals and Systems	EC2508	B. Tech-EEE	Employability
274.	Power Systems - II	EE2521	B. Tech-EEE	Employability
275.	Control Systems Lab	EE2525	B. Tech-EEE	Skill Development
276.	Electrical Machines– II Lab	EE2526	B. Tech-EEE	Skill Development
277.	Mini Project	EE2527	B. Tech-EEE	Skill Development
278.	Control System Design	EE2528	B. Tech-EEE	Employability
279.	Probability and Fuzzy Mathematics	MA2511	B. Tech-EEE	Employability
280.	Microprocessors, Microcontrollers and Its Applications	EC2510	B. Tech-EEE	Employability
281.	Microprocessors, Microcontrollers and Its Applications Lab	EC2515	B. Tech-EEE	Skill Development

S. No	Name of the Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
282.	Data Base Management Systems	CT2513	B. Tech-EEE	Employability
283.	Nano Electronics	EC2516	B. Tech-EEE	Employability
284.	Solar and Wind Energy Systems	EE2535	B. Tech-EEE	Employability
285.	Optional Elective- IV MOOCS	EE2529	B. Tech-EEE	Employability
286.	Optional Elective- VI MOOCS	EE2536	B. Tech-EEE	Employability
287.	Engineering Optimization	MA2512	B. Tech-EEE	Employability
288.	Power Electronics	EE2530	B. Tech-EEE	Employability
289.	Electrical Systems Simulation Lab	EE2533	B. Tech-EEE	Skill Development
290.	Electrical measurements & Instrumentation Lab	EE2534	B. Tech-EEE	Skill Development
291.	Power System Analysis	EE2537	B. Tech-EEE	
292.	Power Electronics Lab	EE2544	B. Tech-EEE	Skill Development
293.	Power Systems Lab	EE2545	B. Tech-EEE	Skill Development
294.	Internship/Industrial Training/Practical Training	EE2546	B. Tech-EEE	Skill Development
295.	Analog and Digital Communication	EC2519	B. Tech-EEE	Employability
296.	Introduction to Python Programming	CS2502	B. Tech-EEE	Employability
297.	Integration of Renewable Energy Sources	EE2547	B. Tech-EEE	Employability
298.	Optional Elective-VIII MOOCS	EE2548	B. Tech-EEE	Employability
299.	Geo informatics	CE2503	B. Tech-EEE	Employability
300.	Environmental Sanitation	CE2531	B. Tech-EEE	Employability
301.	Power Systems Engineering	EE2524	B. Tech-EEE	Employability
302.	Elements of Mechanical Transmission	ME2532	B. Tech-EEE	Employability
303.	Material Handling Equipment	ME2533	B. Tech-EEE	Employability
304.	Introduction to MEMS	EC2544	B. Tech-EEE	Employability
305.	Data Science	CS2508	B. Tech-EEE	Employability
306.	Virtual and Augmented Reality	CT2524	B. Tech-EEE	Employability

S. No	Name of the Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
307.	Quality, Reliability and Operations Research	MA2517	B. Tech-EEE	Employability
308.	Hydrology	CE2543	B. Tech-EEE	Employability
309.	Planning for Sustainable Development	CE2544	B. Tech-EEE	Employability
310.	Electrical and Hybrid Vehicles	EE2531	B. Tech-EEE	Employability
311.	Material Science	ME2541	B. Tech-EEE	Employability
312.	Bio-Medical Engineering	EC2507	B. Tech-EEE	Employability
313.	Node and Angular JS	CS2512	B. Tech-EEE	Employability
314.	Cyber Security	CS2513	B. Tech-EEE	Employability
315.	Software Project Management	CT2531	B. Tech-EEE	Employability
316.	Elements of Stochastic Processes	MA2518	B. Tech-EEE	Employability
317.	Academic Communication	EG2505	B. Tech-EEE	Employability
318.	Repair and Retrofitting Techniques	CE2563	B. Tech-EEE	Employability
319.	Non Destructive Evaluation	ME2554	B. Tech-EEE	Employability
320.	Cyber Physical Systems	EC2563	B. Tech-EEE	Employability
321.	Digital Forensics	CS2521	B. Tech-EEE	Employability
322.	Business Intelligence & Decision Support Systems	CS2522	B. Tech-EEE	Employability
323.	Adhoc and Sensor Networks	IT2521	B. Tech-EEE	Employability
324.	Information Retrieval Systems	CT2537	B. Tech-EEE	Employability
325.	Fuzzy Logic	MA2514	B. Tech-EEE	Employability
326.	Switch Gear and Protection	EE2522	B. Tech-EEE	Employability
327.	Computer Networks	CT2519	B. Tech-EEE	Employability
328.	Pulse and Integrated Circuits	EC2509	B. Tech-EEE	Employability
329.	Data Structures	CT2505	B. Tech-EEE	Employability
330.	Digital Signal Processing	EC2511	B. Tech-EEE	Employability
331.	Embedded System Design	EC2512	B. Tech-EEE	Employability
332.	Principles of VLSI Design	EC2513	B. Tech-EEE	Employability
333.	DSP Processors and Architecture	EC2514	B. Tech-EEE	Employability
334.	Big Data Analytics	CT2534	B. Tech-EEE	Employability
335.	CMOS Digital IC Design	EC2517	B. Tech-EEE	Employability

S. No	Name of the Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
336.	Power Semiconductor Drives	EE2538	B. Tech-EEE	Employability
337.	Flexible AC Transmission Systems	EE2539	B. Tech-EEE	Employability
338.	Cyber Security	CS2513	B. Tech-EEE	Employability
339.	Digital Image Processing	EC2518	B. Tech-EEE	Employability
340.	Advanced Control Systems	EE2551	B. Tech-EEE	Employability
341.	Digital Control Systems	EE2554	B. Tech-EEE	Employability
342.	Metal Cutting and Machine Tools	ME2527	B. Tech-ME	Employability
343.	Numerical and Statistical Methods	MA2509	B. Tech-ME	Employability
344.	Computer Aided Engineering Analysis Lab	ME2548	B. Tech-ME	Skill Development
345.	Computer Aided Machine Drawing Lab	ME2536	B. Tech-ME	Skill Development
346.	Design of Machine Members	ME2539	B. Tech-ME	Employability
347.	Engineering Economics and Accountancy	BA2503	B. Tech-ME	Entrepreneurship
348.	Fluid Mechanics and Turbo Machinery Lab	ME2534	B. Tech-ME	Skill Development
349.	Fuzzy Logic Systems	EE2503	B. Tech-ME	Employability
350.	Heat Transfer	ME2540	B. Tech-ME	Employability
351.	Heat Transfer Lab	ME2546	B. Tech-ME	Skill Development
352.	Mechatronics	ME2549	B. Tech-ME	Employability
353.	Micro Processors and Interfacing	EC2520	B. Tech-ME	Employability
354.	Object Oriented Programming Through JAVA	CT2507	B. Tech-ME	Employability
355.	Turbo machinery	ME2528	B. Tech-ME	Employability
356.	Industrial Engineering and Management	ME2551	B. Tech-ME	Entrepreneurship
357.	Big Data Analytics	CT2534	B. Tech-ME	Employability
358.	Computer Organization and Architecture	CT2512	B. Tech-ME	Employability
359.	Cryogenics	ME2565	B. Tech-ME	Employability
360.	Simulation Lab	ME2562	B. Tech-ME	Skill

S. No	Name of the Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
				Development
361.	Academic Communication	EG2505	B. Tech-ME	Employability
362.	Assistive Technologies	EC2523	B. Tech-ME	Employability
363.	Bio-Medical Engineering	EC2507	B. Tech-ME	Employability
364.	Computer Graphics	CT2514	B. Tech-ME	Employability
365.	Cyber Security	CS2513	B. Tech-ME	Employability
366.	Data Science	CS2508	B. Tech-ME	Employability
367.	Electrical and Hybrid Vehicles	EE2531	B. Tech-ME	Employability
368.	Elements of Mechanical Transmission	ME2532	B. Tech-ME	Employability
369.	Elements of Stochastic Processes	MA2518	B. Tech-ME	Employability
370.	Environmental Sanitation	CE2531	B. Tech-ME	Employability
371.	Hydrology	CE2543	B. Tech-ME	Employability
372.	Introduction to MEMS	EC2544	B. Tech-ME	Employability
373.	Material Handling Equipment	ME2533	B. Tech-ME	Employability
374.	Node and Angular JS	CS2512	B. Tech-ME	Employability
375.	Planning for Sustainable Development	CE2544	B. Tech-ME	Employability
376.	Power Plant Instrumentation	EE2532	B. Tech-ME	Employability
377.	Power Systems Engineering	EE2524	B. Tech-ME	Employability
378.	Quality, Reliability and Operations Research	MA2517	B. Tech-ME	Employability
379.	Software Project Management	CT2531	B. Tech-ME	Employability
380.	Virtual and Augmented Reality	CT2524	B. Tech-ME	Employability
381.	Disaster Management	CE2562	B. Tech-ME	Employability
382.	Repair and Retrofitting Techniques	CE2563	B. Tech-ME	Employability
383.	Non Destructive Evaluation	ME2554	B. Tech-ME	Employability
384.	Cyber Physical Systems	EC2563	B. Tech-ME	Employability
385.	Signals and Systems	EC2508	B. Tech-ME	Employability
386.	Digital Forensics	CS2521	B. Tech-ME	Employability
387.	Business Intelligence and Decision Support Systems	CS2522	B. Tech-ME	Employability
388.	Adhoc and Sensor Networks	IT2521	B. Tech-ME	Employability

S. No	Name of the Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
389.	Information Retrieval Systems	CT2537	B. Tech-ME	Employability
390.	Fuzzy Logic	MA2514	B. Tech-ME	Employability
391.	Data Structures	CT2505	B. Tech-ME	Employability
392.	Database Management Systems	CT2513	B. Tech-ME	Employability
393.	Mechanical Vibrations	ME2530	B. Tech-ME	Employability
394.	Mechanics of Composite Materials	ME2531	B. Tech-ME	Employability
395.	Non-Conventional Sources of Energy	ME2529	B. Tech-ME	Employability
396.	Principles of Finite Element Method	ME2543	B. Tech-ME	Employability
397.	Robotics	ME2544	B. Tech-ME	Employability
398.	Optimization Techniques	MA2515	B. Tech-ME	Employability
399.	Refrigeration and Air Conditioning	ME2555	B. Tech-ME	Employability
400.	Unconventional Machining Processes	ME2556	B. Tech-ME	Employability
401.	Total Quality Management	ME2558	B. Tech-ME	Entrepreneurship
402.	Design of Transmission Elements	ME2561	B. Tech-ME	Employability
403.	Design for Manufacturing and Assembly	ME2567	B. Tech-ME	Employability
404.	Theory of Elasticity	ME2570	B. Tech-ME	Employability
405.	Gas Dynamics and Jet Propulsion	ME2572	B. Tech-ME	Employability
406.	Non Destructive Techniques	ME2574	B. Tech-ME	Employability
407.	Linear Integrated Circuits Applications	EC2536	B. Tech-ECE	Employability
408.	Digital Communications	EC2537	B. Tech-ECE	Employability
409.	Antennas and Wave Propagation	EC2538	B. Tech-ECE	Employability
410.	Principles of VLSI Design	EC2539	B. Tech-ECE	Employability
411.	Linear Integrated Circuits Applications Lab	EC2545	B. Tech-ECE	Skill development
412.	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
413.	Microprocessors, Microcontrollers and Applications	EC2510	B. Tech-ECE	Employability
414.	Microprocessor and Microcontroller Interfacing Lab	EC2515	B. Tech-ECE	Skill development
415.	VLSI Lab	EC2553	B. Tech-ECE	Skill development
416.	Data Warehousing and Data Mining	CT2528	B. Tech-ECE	Employability
417.	Mechatronics	ME2549	B. Tech-ECE	Employability
418.	CMOS Digital IC Design	EC2517	B. Tech-ECE	Employability
419.	Embedded System Design	EC2512	B. Tech-ECE	Employability
420.	Digital Control Systems	EE2554	B. Tech-ECE	Employability
421.	Artificial Intelligence	CT2521	B. Tech-ECE	Employability
422.	Transform Techniques	EC2567	B. Tech-ECE	Employability
423.	Geo informatics	CE2503	B. Tech-ECE	Employability
424.	Microwave and Optical Communications Lab	EC2564	B. Tech-ECE	Skill development
425.	Mini Project on Smart Applications	EC2565	B. Tech-ECE	Skill development
426.	Internship / Industrial Training / Practical Training	EC2566	B. Tech-ECE	Skill development
427.	Environmental Sanitation	CE2531	B. Tech-ECE	Employability
428.	Power Systems Engineering	EE2524	B. Tech-ECE	Employability
429.	Elements of Mechanical Transmission	ME2532	B. Tech-ECE	Employability
430.	Material Handling Equipment	ME2533	B. Tech-ECE	Employability
431.	Introduction to MEMS	EC2544	B. Tech-ECE	Employability
432.	Data Science	CS2508	B. Tech-ECE	Employability
433.	Virtual and Augmented Reality	CT2524	B. Tech-ECE	Employability
434.	Quality, Reliability and Operations Research	MA2517	B. Tech-ECE	Employability
435.	Hydrology	CE2543	B. Tech-ECE	Employability
436.	Planning for Sustainable Development	CE2544	B. Tech-ECE	Employability
437.	Electrical and Hybrid Vehicles	EE2531	B. Tech-ECE	Employability

S. No	Name of the Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
438.	Material Science	ME2541	B. Tech-ECE	Employability
439.	Node and Angular JS	CS2512	B. Tech-ECE	Employability
440.	Cyber Security	CS2513	B. Tech-ECE	Employability
441.	Software Project Management	CT2531	B. Tech-ECE	Employability
442.	Elements of Stochastic Processes	MA2518	B. Tech-ECE	Employability
443.	Academic Communication	EG2505	B. Tech-ECE	Employability
444.	Repair and Retrofitting Techniques	CE2563	B. Tech-ECE	Employability
445.	Non Destructive Evaluation	ME2554	B. Tech-ECE	Employability
446.	Cyber Physical Systems	EC2563	B. Tech-ECE	Employability
447.	Digital Forensics	CS2521	B. Tech-ECE	Employability
448.	Business Intelligence & Decision Support Systems	CS2522	B. Tech-ECE	Employability
449.	Adhoc and Sensor Networks	IT2521	B. Tech-ECE	Employability
450.	Information Retrieval Systems	CT2537	B. Tech-ECE	Employability
451.	Fuzzy Logic	MA2514	B. Tech-ECE	Employability
452.	CAD for VLSI	EC2540	B. Tech-ECE	Employability
453.	Computer Organization	EC2541	B. Tech-ECE	Employability
454.	Computer And Communication Networks	EC2542	B. Tech-ECE	Employability
455.	Biomedical Engineering	EC2507	B. Tech-ECE	Employability
456.	Analog IC Design	EC2549	B. Tech-ECE	Employability
457.	Nano Electronics	EC2516	B. Tech-ECE	Employability
458.	Smart Antennas	EC2550	B. Tech-ECE	Employability
459.	Coding Theory	EC2551	B. Tech-ECE	Employability
460.	Mixed Signal IC Design	EC2557	B. Tech-ECE	Employability
461.	System on Chip Design	EC2560	B. Tech-ECE	Employability
462.	Low Power VLSI Circuits	EC2569	B. Tech-ECE	Employability
463.	Real Time Operating Systems	EC2570	B. Tech-ECE	Employability
464.	Adaptive Signal Processing	EC2572	B. Tech-ECE	Employability
465.	ASIC Design	EC2573	B. Tech-ECE	Employability
466.	Embedded C	EC2574	B. Tech-ECE	Employability
467.	Multi Rate Signal Processing	EC2576	B. Tech-ECE	Employability
468.	Computer Networks	CT2519	B. Tech-CSE	Employability

S. No	Name of the Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
469.	Web Technologies	CT2520	B. Tech-CSE	Employability
470.	Computer Networks and Compiler Design Lab	CS2509	B. Tech-CSE	Skill development
471.	Web Technologies Lab	CT2525	B. Tech-CSE	Skill development
472.	Digital Signal Processing	EC2511	B. Tech-CSE	Employability
473.	Control Systems	EE2512	B. Tech-CSE	Employability
474.	UML and Design Patterns	CS2511	B. Tech-CSE	Employability
475.	Data Mining Lab	CS2514	B. Tech-CSE	Skill development
476.	Graph Theory	CS2516	B. Tech-CSE	Employability
477.	Embedded System Design	EC2512	B. Tech-CSE	Employability
478.	Digital Control Systems	EE2554	B. Tech-CSE	Employability
479.	Cyptography and Network Security	CT2533	B. Tech-CSE	Employability
480.	Big Data Analytics	CT2534	B. Tech-CSE	Employability
481.	Big Data Analytics Lab	CT2538	B. Tech-CSE	Skill development
482.	Cryptography and Network Security Lab	CS2523	B. Tech-CSE	Skill development
483.	Network Programming	CS2525	B. Tech-CSE	Employability
484.	Systems Software	CT2515	B. Tech-CSE	Employability
485.	Data Science	CS2508	B. Tech-CSE	Employability
486.	Virtual and Augmented Reality	CT2524	B. Tech-CSE	Employability
487.	Node and Angular JS	CS2512	B. Tech-CSE	Employability
488.	Cyber Security	CS2513	B. Tech-CSE	Employability
489.	Business intelligence and decision support systems	CS2522	B. Tech-CSE	Employability
490.	Digital Forensics	CS2521	B. Tech-CSE	Employability
491.	C#.NET	CS2506	B. Tech-CSE	Employability
492.	Advanced Data Structures	CT2522	B. Tech-CSE	Employability
493.	Software Testing Methodologies	CT2523	B. Tech-CSE	Employability
494.	Principles of Programming Languages	CS2507	B. Tech-CSE	Employability
495.	Artificial Intelligence	CT2521	B. Tech-CSE	Employability

S. No	Name of the Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
496.	Scripting Languages	CT2529	B. Tech-CSE	Employability
497.	microprocessors and Interfacing	EC2520	B. Tech-CSE	Employability
498.	Machine Learning	CS2518	B. Tech-CSE	Employability
499.	Internet of Things	CT2535	B. Tech-CSE	Employability
500.	NoSQL Databases	CS2519	B. Tech-CSE	Employability
501.	Software Requirements Engineering and Estimation	CS2520	B. Tech-CSE	Employability
502.	Mobile Computing	CT2536	B. Tech-CSE	Employability
503.	Image processing	CT2530	B. Tech-CSE	Employability
504.	Information Retrieval System	CT2537	B. Tech-CSE	Employability
505.	Optimization techniques	MA2515	B. Tech-CSE	Employability
506.	Web Mining	CS2527	B. Tech-CSE	Employability
507.	Cloud Computing	CT2540	B. Tech-CSE	Employability
508.	Agile Software Development Process	CT2532	B. Tech-CSE	Employability
509.	Block chain Technologies	CT2541	B. Tech-CSE	Employability
510.	Distributed Systems	CS2528	B. Tech-CSE	Employability
511.	Social Networks	CT2539	B. Tech-CSE	Employability
512.	Deep Learning	CS2530	B. Tech-CSE	Employability
513.	Web Technologies	CT2520	B. Tech-IT	Employability
514.	Web Technologies Lab	CT2525	B. Tech-IT	Skill Development
515.	Computer Networks and Data Mining Lab	IT2513	B. Tech-IT	Skill Development
516.	Software Engineering	CT2517	B. Tech-IT	Employability
517.	Compiler Design	CT2518	B. Tech-IT	Employability
518.	Operating Systems	CT2510	B. Tech-IT	Employability
519.	Operating Systems and Compiler Design Lab	IT2507	B. Tech-IT	Skill Development
520.	Design and Analysis of Algorithms	CT2527	B. Tech-IT	Employability
521.	Data Warehousing and Data Mining	CT2528	B. Tech-IT	Employability
522.	Object Oriented Analysis and Design	IT2510	B. Tech-IT	Employability

S. No	Name of the Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
523.	Computer Networks	CT2519	B. Tech-IT	Employability
524.	Mini Project	IT2522	B. Tech-IT	Skill Development
525.	Internship / Industrial Training / Practical Training	IT2523	B. Tech-IT	Skill Development
526.	Big Data Analytics	CT2534	B. Tech-IT	Employability
527.	Big Data Analytics Lab	CT2538	B. Tech-IT	Skill Development
528.	Social Networks	CT2539	B. Tech-IT	Employability
529.	Scripting Languages	CT2529	B. Tech-IT	Employability
530.	Open Source Software	IT2505	B. Tech-IT	Employability
531.	Software Project Management	CT2531	B. Tech-IT	Employability
532.	Cyber Laws	IT2506	B. Tech-IT	Employability
533.	Machine Learning and Pattern Recognition	IT2517	B. Tech-IT	Employability
534.	Distributed Operating Systems	IT2518	B. Tech-IT	Employability
535.	Software Testing Methodologies	CT2523	B. Tech-IT	Employability
536.	Embedded System Design	EC2512	B. Tech-IT	Employability
537.	Advanced Data Structures	CT2522	B. Tech-IT	Employability
538.	Soft Computing Techniques	IT2511	B. Tech-IT	Employability
539.	Real Time Systems	T2512	B. Tech-IT	Employability
540.	Agile Software Development Process	CT2532	B. Tech-IT	Employability
541.	Adhoc and Sensor Networks	IT2521	B. Tech-IT	Employability
542.	Information Retrieval Systems	CT2537	B. Tech-IT	Employability
543.	Stenography and Biometrics	IT2525	B. Tech-IT	Employability
544.	Parallel Computing	T2526	B. Tech-IT	Employability
545.	Virtual and Augmented Reality	CT2524	B. Tech-IT	Employability
546.	Internet of Things	CT2535	B. Tech-IT	Employability
547.	Cloud Computing	CT2540	B. Tech-IT	Employability
548.	Block chain Technologies	CT2541	B. Tech-IT	Employability
549.	Design Patterns	IT2528	B. Tech-IT	Employability
550.	Advanced Structural Analysis	CE3901	M. Tech-SE	Employability
551.	Research Methodology and IPR	BA3901	M. Tech-SE	Employability

S. No	Name of the Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
552.	English for Research Paper Writing	EG3901	M. Tech-SE	Employability
553.	Theory of Elasticity	CE3902	M. Tech-SE	Employability
554.	Advanced Structural Engineering Lab	CE3908	M. Tech-SE	Skill Development
555.	Advanced Concrete Technology Lab	CE3909	M. Tech-SE	Skill Development
556.	Finite Element Methods in Structural Engineering	CE3910	M. Tech-SE	Employability
557.	Structural Dynamics	CE3911	M. Tech-SE	Employability
558.	Computer Applications in Structural Engineering Lab	CE3918	M. Tech-SE	Skill Development
559.	Structural Design Lab	CE3919	M. Tech-SE	Skill Development
560.	Mini Project with Seminar	CE3920	M. Tech-SE	Skill Development
561.	Advanced R.C Design	CE3903	M. Tech-SE	Employability
562.	Experimental Stress Analysis	CE3904	M. Tech-SE	Employability
563.	Repairs and Retrofitting of Structures	CE3916	M. Tech-SE	Employability
564.	Sustainable Development	CE3924	M. Tech-SE	Employability
565.	Analysis of Power Electronic Converters	EE3902	M. Tech-PEED	Employability
566.	Power Electronics Simulation Laboratory	EE3909	M. Tech-PEED	Skill Development
567.	Power Converters Laboratory	EE3910	M. Tech-PEED	Skill Development
568.	Switched Mode Power Conversion	EE3911	M. Tech-PEED	Employability
569.	Power Electronic Control of Electrical Drives	EE3912	M. Tech-PEED	Employability
570.	Electric Drives Simulation Laboratory	EE3919	M. Tech-PEED	Skill Development
571.	Electric Drives Laboratory	EE3920	M. Tech-PEED	Skill Development
572.	Mini Project with Seminar	EE3921	M. Tech-PEED	Skill Development
573.	English for Research Paper	EG3901	M. Tech-PEED	Employability

S. No	Name of the Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
	Writing			
574.	Modern Control Theory	EE3903	M. Tech-PEED	Employability
575.	Power Quality and custom power devices	EE3904	M. Tech-PEED	Employability
576.	Programmable Logic Controllers and Applications	EE3905	M. Tech-PEED	Skill Development
577.	Artificial Intelligence Techniques	EE3906	M. Tech-PEED	Employability
578.	Renewable Energy Technologies	EE3907	M. Tech-PEED	Employability
579.	Flexible AC Transmission Systems	EE3908	M. Tech-PEED	Employability
580.	Control & Integration of Renewable Energy Systems	EE3913	M. Tech-PEED	Employability
581.	Hybrid Electric Vehicles	EE3914	M. Tech-PEED	Employability
582.	Advanced Digital Control Systems	EE3915	M. Tech-PEED	Employability
583.	Advanced Digital Signal Processing	EE3916	M. Tech-PEED	Employability
584.	Application of Power Converters	EE3917	M. Tech-PEED	Employability
585.	Microcontrollers	EE3918	M. Tech-PEED	Employability
586.	Digital Signal Processing Controlled Drives	EE3922	M. Tech-PEED	Employability
587.	Smart Grid Technologies	EE3923	M. Tech-PEED	Employability
588.	MOOCs-I	EE3924	M. Tech-PEED	Employability
589.	Energy audit conservation and management	EE3925	M. Tech-PEED	Employability
590.	Mechanical Vibrations and Acoustics	ME3901	M. Tech-MD	Employability
591.	Advanced Mechanics of Solids	ME3902	M. Tech-MD	Employability
592.	Machine Dynamics Lab	ME3909	M. Tech-MD	Skill Development
593.	Advanced Material Testing Lab	ME3910	M. Tech-MD	Skill Development
594.	Computational Methods in Engineering	MA3902	M. Tech-MD	Employability
595.	Advanced Finite Element	ME3911	M. Tech-MD	Employability

S. No	Name of the Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
	Methods			
596.	Modelling and Simulation Lab	ME3918	M. Tech-MD	Skill Development
597.	Computational Methods Lab	ME3919	M. Tech-MD	Skill Development
598.	Mini Project with Seminar	ME3920	M. Tech-MD	Skill Development
599.	Analysis and Synthesis of Mechanisms	ME3903	M. Tech-MD	Employability
600.	Advanced materials	ME3904	M. Tech-MD	Employability
601.	Industrial Robotics	ME3905	M. Tech-MD	Employability
602.	Gear Engineering	ME3906	M. Tech-MD	Employability
603.	Advanced Optimization Techniques	ME3907	M. Tech-MD	Employability
604.	Rotor Dynamics	ME3908	M. Tech-MD	Employability
605.	Design for Manufacturing and Assembly	ME3912	M. Tech-MD	Employability
606.	Mechatronics	ME3913	M. Tech-MD	Employability
607.	Vehicle Dynamics	ME3914	M. Tech-MD	Employability
608.	Signal Analysis and Condition Monitoring	ME3915	M. Tech-MD	Employability
609.	Fracture Mechanics	ME3916	M. Tech-MD	Employability
610.	Experimental Stress Analysis	ME3917	M. Tech-MD	Employability
611.	Tribology	ME3921	M. Tech-MD	Employability
612.	Composite materials	ME3922	M. Tech-MD	Employability
613.	Sustainable Development	CE3923	M. Tech-MD	Employability
614.	Energy Audit, Conservation & Management	EE3924	M. Tech-MD	Employability
615.	Rapid Prototyping	ME3924	M. Tech-MD	Employability
616.	Automotive Electronics	EC4924	M. Tech-MD	Employability
617.	Soft Computing Techniques	CS3924	M. Tech-MD	Employability
618.	English for Research paper writing	EG3901	M. Tech-MD	Employability
619.	CMOS VLSI Design	EC4901	M. Tech-VLSI&ED	Employability
620.	Advanced Microcontrollers	EC4902	M. Tech-VLSI&ED	Employability
621.	CMOS VLSI Design Lab	EC4909	M. Tech-VLSI&ED	Skill

S. No	Name of the Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
				Development
622.	Advanced Microcontrollers Lab	EC4910	M. Tech-VLSI&ED	Skill Development
623.	Research Methodology and IPR	BA3901	M. Tech-VLSI&ED	Employability
624.	Embedded Systems based IoT	EC4912	M. Tech-VLSI&ED	Employability
625.	VLSI System Design Lab	EC4919	M. Tech-VLSI&ED	Skill Development
626.	Embedded Systems and IoT Lab	EC4920	M. Tech-VLSI&ED	Skill Development
627.	Mini Project with Seminar	EC4921	M. Tech-VLSI&ED	Skill Development
628.	English for Research Paper Writing	EG3901	M. Tech-VLSI&ED	Employability
629.	Digital Signal and Image Processing	EC4905	M. Tech-VLSI&ED	Employability
630.	VLSI Signal Processing	EC4906	M. Tech-VLSI&ED	Employability
631.	System Design with Embedded Linux	EC4907	M. Tech-VLSI&ED	Employability
632.	Parallel Processing	EC4908	M. Tech-VLSI&ED	Employability
633.	Advances in VLSI Design	EC4913	M. Tech-VLSI&ED	Employability
634.	Communication Buses and Interfaces	EC4917	M. Tech-VLSI&ED	Employability
635.	Low power VLSI Design	EC4922	M. Tech-VLSI&ED	Employability
636.	Network Security and Cryptography	EC4923	M. Tech-VLSI&ED	Employability
637.	MOOCs	EC4924	M. Tech-VLSI&ED	Employability
638.	Sustainable Development	CE3924	M. Tech-VLSI&ED	Employability
639.	Energy Audit, Conservation & Management	EE3924	M. Tech-VLSI&ED	Employability
640.	Rapid Prototyping	ME4924	M. Tech-VLSI&ED	Employability
641.	Automotive Electronics	EC4925	M. Tech-VLSI&ED	Employability
642.	Soft Computing Techniques	CS4924	M. Tech-VLSI&ED	Employability
643.	Data Science	CS3902	M. Tech-AI&ML	Employability
644.	Digital Image Processing	CS3903	M. Tech-AI&ML	Employability
645.	Ad hoc and Sensor Networks	CS3904	M. Tech-AI&ML	Employability
646.	Intelligent Systems	CS3905	M. Tech-AI&ML	Employability

S. No	Name of the Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
647.	Internet of Things	CS3906	M. Tech-AI&ML	Employability
648.	Principles of Computer Security	CS3907	M. Tech-AI&ML	Employability
649.	Distributed Systems	CS3908	M. Tech-AI&ML	Employability
650.	Data Science Lab	CS3910	M. Tech-AI&ML	Skill Development
651.	MEAN Stack Technologies	CS3911	M. Tech-AI&ML	Employability
652.	Machine Learning	CS3912	M. Tech-AI&ML	Employability
653.	Block chain Technology	CS3913	M. Tech-AI&ML	Employability
654.	Data Preparation and Analysis	CS3914	M. Tech-AI&ML	Employability
655.	Natural Language Processing	CS3915	M. Tech-AI&ML	Employability
656.	Cloud Computing	CS3916	M. Tech-AI&ML	Employability
657.	Quantum Computing	CS3917	M. Tech-AI&ML	Employability
658.	Digital Forensics	CS3918	M. Tech-AI&ML	Employability
659.	MEAN Stack Technologies Lab	CS3919	M. Tech-AI&ML	Skill Development
660.	Machine Learning using Python Lab	CS3920	M. Tech-AI&ML	Skill Development
661.	Mini Project with Seminar	CS3921	M. Tech-AI&ML	Skill Development
662.	English for Research Paper Writing	EG3901	M. Tech-AI&ML	Employability
663.	Deep Learning	CS3922	M. Tech-AI&ML	Employability
664.	Recommender Systems	CS3923	M. Tech-AI&ML	Employability
665.	Soft Computing Techniques	CS3924	M. Tech-AI&ML	Employability
666.	Retail Management	BA3919	MBA	Entrepreneurship
667.	Human Resources Analytics	BA3925	MBA	Entrepreneurship
668.	Business communication and skill development	BA3905	MBA	Entrepreneurship
669.	Management of Retail Operations	BA3928	MBA	Entrepreneurship
670.	Perspectives of Management 4	BA3902	MBA	Employability
671.	Managerial Economics	BA3903	MBA	Employability
672.	Accounting for Managers	BA3904	MBA	
673.	Business Communication & Skill Development	BA3905	MBA	Skill Development

S. No	Name of the Course	Course Code	Programme Name	Focus on Employability/ Entrepreneurship/ Skill Development
674.	Business Environment and Legislation	BA3906	MBA	Employability
675.	Quantitative Analysis for Business Decisions	BA3907	MBA	Employability
676.	Business Law	BA3908	MBA	Employability
677.	B Information Technology Lab for Business Management	A3909	MBA	Skill Development
678.	Financial Management	BA3910	MBA	Employability
679.	Marketing Management	BA3911	MBA	Employability
680.	Human Resource Management	BA3912	MBA	Employability
681.	Production & Operations Management	BA3913	MBA	Employability
682.	Business Research Methods	BA3914	MBA	Employability
683.	International Business	BA3915	MBA	Employability
684.	Organizational Behaviour	BA3916	MBA	Employability


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COURSE STRUCTURE

I Year - I Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	EG3501	Functional English	3	-	-	3
2	MA3501	Linear Algebra and Calculus	3	1	-	4
3	PH3501	Engineering Physics	3	-	-	3
4	CT3501	Problem Solving Using C *	3	-	2	4
5	ME3503	Engineering Graphics *	2	-	4	4
6	EG3502	Functional English Lab	-	-	2	1
7	PH3503	Engineering Physics Lab	-	-	2	1
Total			14	1	10	20
8	EN3501	Environmental Studies (Mandatory Non-Credit Course)	2	-	-	-

* 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	EG3503	Professional Communication	2	-	-	2
2	MA3505	Integral Transforms and Vector Calculus	3	1	-	4
3	CH3501	Engineering Chemistry	3	-	-	3
4	CE3501	Applied Mechanics	3	1	-	4
5	UH3501	Universal Human Values 2: Understanding Harmony	2	1	-	3
6	EG3504	Professional Communication Lab	-	-	4	2
7	CH3502	Engineering Chemistry Lab	-	-	2	1
8	CE3502	Applied Mechanics Lab & Building Trade Practice	-	-	2	1
Total			13	3	8	20
9	BA3501	Constitution of India (Mandatory Non-Credit Course)	2	-	-	-

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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	CE3503	Building Materials and Building Construction	2	-	-	2
2	ME3507	Elements of Mechanical and Electrical Engineering	2	1	-	3
3	CE3504	Mechanics of Solids	3	1	-	4
4	CE3505	Fluid Mechanics	2	1	-	3
5	CE3506	Surveying	2	1	-	3
6	CE3507	Engineering Geology & Geo-Spatial Applications *	2	-	2	3
7	CE3508	Mechanics of Solids Lab	-	-	2	1
8	CE3509	Survey Field Work	-	-	2	1
9	SD3501	Logic Building and Basic Coding Principles	-	-	2	1
Total			13	4	8	21
10	SG3501	Sports and Games / Cultural (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	MA3513	Numerical & Statistical Methods	2	1	-	3
2	CE3510	Structural Analysis	3	1	-	4
3	CE3511	Hydraulics & Hydraulic Machines	2	1	-	3
4	CE3512	Concrete Technology	3	-	-	3
5	CT3508	Python Programming *	2	-	2	3
6		Open Elective - I	3	-	-	3
7	CE3515	Fluid Mechanics & Hydraulic Machines Lab	-	-	2	1
8	CE3516	Concrete Technology Lab	-	-	2	1
9	SD3503	Programming for Corporate	-	-	2	1
Total			15	3	8	22
10	NS3501	NSS / Fine Arts / Yoga / Self Defense (Mandatory Non-Credit Course)	-	-	2	-

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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	EG3501	Functional English	3	-	-	3
2	MA3501	Linear Algebra and Calculus	3	1	-	4
3	CH3503	Applied Chemistry	3	-	-	3
4	CT3501	Problem Solving Using C*	3	-	2	4
5	UH3501	Universal Human Values 2: Understanding Harmony	2	1	-	3
6	CH3504	Applied Chemistry Lab	-	-	2	1
7	EG3502	Functional English Lab	-	-	2	1
Total			14	2	6	19
8	BA3501	Constitution of India (Mandatory Non-Credit Course)	2	-	-	-

* 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	EG3503	Professional Communication	2	-	-	2
2	MA3505	Integral Transforms and Vector Calculus	3	1	-	4
3	PH3504	Solid State Physics	3	-	-	3
4	EE3504	Circuit Theory - I	2	1	-	3
5	MA3506	Discrete Mathematics	2	1	-	3
6	ME3501	Engineering Drawing	1	-	4	3
7	EG3504	Professional Communication Lab	-	-	4	2
8	PH3505	Solid State Physics Lab	-	-	2	1
Total			13	3	10	21
9	EN3501	Environmental Studies (Mandatory Non-Credit Course)	2	-	-	-

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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	CT3508	Python Programming *	2	-	2	3
2	EE3508	Circuit Theory - II	2	1	-	3
3	EE3509	Control Systems	2	1	-	3
4	EE3510	DC Machines and Transformers	2	1	-	3
5	EC3504	Electronic Devices and Circuits	2	1	-	3
6	EC3505	Digital Circuits	3	-	-	3
7	EC3506	Electronic Devices and Circuits Lab	-	-	2	1
8	EC3507	Digital Circuits Lab	-	-	2	1
9	SD3501	Logic Building and Basic Coding Principles	-	-	2	1
Total			13	4	8	21
10	NS3501	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	MA3514	Numerical Methods with Computer Applications*	2	-	2	3
2	EE3511	Induction & Synchronous Machines	2	1	-	3
3	EE3512	Power generation Systems	3	1	-	4
4	EC3510	Signals and Systems	2	1	-	3
5		Open Elective - I	3	-	-	3
6	EE3515	DC Machines and Transformers Lab	-	-	2	1
7	EE3516	Electrical Circuits Lab	-	-	2	1
8	EE3517	Simulation of Electrical Engineering Systems	-	-	4	2
9	SD3503	Programming for Corporate	-	-	2	1
Total			12	3	12	21
10	SG3501	Sports and Games / Cultural (Mandatory Non-Credit Course)	-	-	2	-

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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	EG3501	Functional English	3	-	-	3
2	MA3501	Linear Algebra and Calculus	3	1	-	4
3	PH3502	Physics for Engineers	3	-	-	3
4	CT3501	Problem Solving Using C *	3	-	2	4
5	ME3503	Engineering Graphics *	2	-	4	4
6	EG3502	Functional English Lab	-	-	2	1
7	PH3503	Engineering Physics Lab	-	-	2	1
Total			14	1	10	20
8	EN3501	Environmental Studies (Mandatory Non-Credit Course)	2	-	-	-

* 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	EG3503	Professional Communication	2	-	-	2
2	MA3505	Integral Transforms and Vector Calculus	3	1	-	4
3	CH3504	Chemistry for Engineers	3	-	-	3
4	ME3504	Engineering Mechanics	3	1	-	4
5	UH3501	Universal Human Values 2: Understanding Harmony	2	1	-	3
6	EG3504	Professional Communication Lab	-	-	4	2
7	ME3505	Engineering Workshop	-	-	2	1
8	ME3506	Engineering Mechanics Lab and Fuel & Lubricants Lab	-	-	2	1
Total			13	3	8	20
9	BA3501	Constitution of India (Mandatory Non-Credit Course)	2	-	-	-

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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	CT3508	Python Programming *	2	-	2	3
2	EE3505	Elements of Electrical and Electronics Engineering	3	-	-	3
3	ME3508	Engineering Thermodynamics	2	1	-	3
4	ME3509	Kinematics of Machines	2	1	-	3
5	ME3510	Mechanics of Solids	2	1	-	3
6	ME3511	Materials Engineering	3	-	-	3
7	EE3506	Electrical & Electronics Engineering Lab	-	-	2	1
8	ME3512	Mechanics of Solids Lab and Materials Lab	-	-	2	1
9	SD3501	Logic Building and Basic Coding Principles	-	-	2	1
Total			14	3	8	21
10	SG3501	Sports and Games / Cultural (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	MA3513	Numerical & Statistical Methods	2	1	-	3
2	ME3513	Manufacturing Science	3	-	-	3
3	ME3514	Applied Thermodynamics	2	1	-	3
4	ME3515	Dynamics of Machines	2	1	-	3
5	ME3516	Fluid Mechanics & Hydraulic Machines	2	1	-	3
6		Open Elective - I	3	-	-	3
7	ME3519	Thermal Engineering Lab	-	-	2	1
8	MA3515	Numerical & Statistical Methods Lab	-	-	2	1
9	ME3520	Manufacturing Processes Lab & Machine Dynamics Lab	-	-	2	1
10	SD3503	Programming for Corporate	-	-	2	1
Total			14	4	8	22
11	NS3501	NSS / Fine Arts / Yoga / Self Defense (Mandatory Non-Credit Course)	-	-	2	-

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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	EG3501	Functional English	3	-	-	3
2	MA350	Linear Algebra and Calculus	3	1	-	4
3	CH3503	Applied Chemistry	3	-	-	3
4	CT3501	Problem Solving Using C *	3	-	2	4
5	UH3501	Universal Human Values 2: Understanding Harmony	2	1	-	3
6	EC3503	Electronic Workshop	-	-	4	2
7	EG3502	Functional English Lab	-	-	2	1
8	CH3504	Applied Chemistry Lab	-	-	2	1
Total			14	2	10	21
9	BA3501	Constitution of India (Mandatory Non-Credit Course)	2	-	-	-

* 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	EG3503	Professional Communication	2	-	-	2
2	MA3505	Integral Transforms and Vector Calculus	3	1	-	4
3	EE3502	Linear Electrical Networks	3	-	-	3
4	PH3504	Solid State Physics	3	-	-	3
5	ME3501	Engineering Drawing	1	-	4	3
6	EG3504	Professional Communication Lab	-	-	4	2
7	PH3506	Solid State Physics Lab	-	-	4	2
Total			12	1	12	19
8	EN3501	Environmental Studies (Mandatory Non-Credit Course)	2	-	-	-

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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	EC3508	Probability Theory and Stochastic Processes	3	-	-	3
2	EC3509	Semiconductor Devices and Circuits	3	-	-	3
3	EC3510	Signals and Systems	2	1	-	3
4	EC3511	Electromagnetic Field Theory	3	-	-	3
5	EC3512	Digital Circuit Design	2	1	-	3
6	MA3508	Numerical Methods and Complex Analysis	2	1	-	3
7	EC3513	Semiconductor Devices and Circuits Lab	-	-	2	1
8	EE3507	Linear Electrical Networks Lab	-	-	2	1
9	SD3502	Logic Building and Algorithmic Programming	-	-	2	1
Total			15	3	6	21
10	NS3501	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	EC3516	Transmission Lines and Waveguides	3	-	-	3
2	EC3517	Analog Circuits	3	-	-	3
3	EC3518	Analog and Digital Communications	3	1	-	4
4	EC3519	VLSI Design	3	-	-	3
5	CT3509	Data Structures*	2	-	2	3
6		Open Elective - I	3	-	-	3
7	EC3522	Analog Circuits Lab	-	-	2	1
8	EC3523	Digital Circuits Design Lab	-	-	2	1
9	SD3503	Programming for Corporate	-	-	2	1
Total			17	1	8	22
10	SG3501	Sports and Games / Cultural (Mandatory Non-Credit Course)	-	-	2	-

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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	EG3501	Functional English	3	-	-	3
2	MA350	Linear Algebra and Calculus	3	1	-	4
3	PH3509	Applied Physics	3	-	-	3
4	CT3502	Programming for Problem Solving	3	-	-	3
5	UH3501	Universal Human Values 2: Understanding Harmony	2	1	-	3
6	EG3502	Functional English Lab	-	-	2	1
7	PH3510	Applied Physics Lab	-	-	2	1
8	CT3503	C Programming Lab	-	-	4	2
Total			14	2	8	20
9	BA3501	Constitution of India (Mandatory Non-Credit Course)	2	-	-	-

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	EG3503	Professional Communication	2	-	-	2
2	MA3505	Integral Transforms and Vector Calculus	3	1	-	4
3	EC3502	Basic Electronic Devices	2	-	-	2
4	CT3504	Python Programming	3	-	-	3
5	CT3505	Data Structures	3	-	-	3
6	EG3504	Professional Communication Lab	-	-	4	2
7	CT3506	Python Programming Lab	-	-	4	2
8	CT3507	Data Structures Lab	-	-	4	2
Total			13	1	12	20
9	EN3501	Environmental Studies (Mandatory Non-Credit Course)	2	-	-	-

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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	BA3502	Managerial Economics and Financial Analysis	3	-	-	3
2	MA3509	Probability and Statistics	2	1	-	3
3	CT3510	Digital Logic Design	2	1	-	3
4	CT3511	Object Oriented Programming through Java	3	-	-	3
5	CT3512	Database Management Systems	3	-	-	3
6	MA3510	Probability and Statistics Using R Lab	-	-	2	1
7	CT3514	Java Programming Lab	-	-	4	2
8	CT3515	Database Management Systems Lab	-	-	4	2
9	SD3502	Logic Building and Algorithmic Programming	-	-	2	1
Total			13	2	12	21
10	SG3501	Sports and Games / Cultural (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	MA3511	Discrete Mathematical Structures	2	1	-	3
2	CT3518	Computer Organization	3	-	-	3
3	CS3501	Design and Analysis of Algorithms	3	-	-	3
4	CT3519	Operating Systems	3	-	-	3
5	CS3502	Software Engineering *	3	-	2	4
6		Open Elective - I	3	-	-	3
7	CT3523	Operating Systems Lab	-	-	2	1
8	CT3524	Game Programming	1	-	2	2
9	SD3503	Programming for Corporate	-	-	2	1
Total			18	1	8	23
10	NS3501	NSS / Fine Arts / Yoga / Self Defense (Mandatory Non-Credit Course)	-	-	2	-

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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	EG3501	Functional English	3	-	-	3
2	MA3501	Linear Algebra and Calculus	3	1	-	4
3	CH3506	Applied Chemistry	3	-	-	3
4	EC3501	Elements of Electronics Engineering	3	-	-	3
5	CT3502	Programming for Problem Solving	3	-	-	3
6	EG3502	Functional English Lab	-	-	2	1
7	CH3507	Applied Chemistry Lab	-	-	2	1
8	CT3503	C Programming Lab	-	-	4	2
Total			15	1	8	20
9	EN3501	Environmental Studies (Mandatory Non-Credit Course)	2	-	-	-

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	EG3503	Professional Communication	2	-	-	2
2	MA3505	Integral Transforms and Vector Calculus	3	1	-	4
3	PH3509	Applied Physics	3	-	-	3
4	CT3505	Data Structures	3	-	-	3
5	UH3501	Universal Human Values 2: Understanding Harmony	2	1	-	3
6	EG3504	Professional Communication Lab	-	-	4	2
7	PH3510	Applied Physics Lab	-	-	2	1
8	CT3507	Data Structures Lab	-	-	4	2
Total			13	2	10	20
9	BA3501	Constitution of India (Mandatory Non-Credit Course)	2	-	-	-

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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	MA3511	Discrete Mathematical Structures	2	1	-	3
2	BA3502	Managerial Economics and Financial Analysis	3	-	-	3
3	CT3510	Digital Logic Design	2	1	-	3
4	CT3511	Object Oriented Programming through JAVA	3	-	-	3
5	CT3513	Formal Languages and Automata Theory	2	1	-	3
6	CT3514	JAVA Programming Lab	-	-	4	2
7	IT3501	R Programming Lab	-	-	2	1
8	IT3502	Linux Programming Lab	-	-	2	1
9	SD3502	Logic Building and Algorithmic Programming	-	-	2	1
Total			12	3	10	20
10	NS3501	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	MA3509	Probability and Statistics	2	1	-	3
2	CT3512	Database Management Systems	3	-	-	3
3	CT3518	Computer Organization	3	-	-	3
4	IT3503	Python Programming	3	-	-	3
5		Open Elective - I	3	-	-	3
6	CT3515	Database Management Systems Lab	-	-	4	2
7	IT3506	Python Programming Lab	-	-	4	2
8	CT3525	Mobile Application Development	-	-	4	2
9	SD3503	Programming for Corporate	-	-	2	1
Total			14	1	14	22
10	SG3501	Sports and Games / Cultural (Mandatory Non-Credit Course)	-	-	2	-

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

COURSE STRUCTURE

I Year - I Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	EG3501	Functional English	3	-	-	3
2	MA3502	Descriptive Statistics	2	1	-	3
3	MA3504	Engineering Calculus	2	1	-	3
4	CT3502	Programming for Problem Solving	3	-	-	3
5	UH3501	Universal Human Values 2: Understanding Harmony	2	1	-	3
6	EG3502	Functional English Lab	-	-	2	1
7	MA3503	Statistics Using R Lab	-	-	2	1
8	CT3503	C Programming Lab	-	-	4	2
Total			12	3	8	19
9	BA3501	Constitution of India (Mandatory Non-Credit Course)	2	-	-	-

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	EG3503	Professional Communication	2	-	-	2
2	MA3505	Integral Transforms and Vector Calculus	3	1	-	4
3	MA3507	Linear Algebra	2	1	-	3
4	CT3504	Python Programming	3	-	-	3
5	CT3505	Data Structures	3	-	-	3
6	EG3504	Professional Communication Lab	-	-	4	2
7	CT3506	Python Programming Lab	-	-	4	2
8	CT3507	Data Structures Lab	-	-	4	2
Total			13	2	12	21
9	EN3501	Environmental Studies (Mandatory Non-Credit Course)	2	-	-	-

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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	BA3502	Managerial Economics and Financial Analysis	3	-	-	3
2	MA3512	Advanced Statistics	3	-	-	3
3	CT3510	Digital Logic Design	2	1	-	3
4	CT3511	Object Oriented Programming through Java	3	-	-	3
5	CT3512	Database Management Systems	3	-	-	3
6	CT3513	Formal Languages and Automata Theory	2	1	-	3
7	CT3514	Java Programming Lab	-	-	4	2
8	CT3515	Database Management Systems Lab	-	-	4	2
9	SD3502	Logic Building and Algorithmic Programming	-	-	2	1
Total			16	2	10	23
10	SG3501	Sports and Games / Cultural (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	MA3511	Discrete Mathematical Structures	2	1	-	3
2	CT3518	Computer Organization	3	-	-	3
3	CT3520	Compiler Design	2	1	-	3
4	CT3521	Artificial Intelligence	3	-	-	3
5	CS3502	Software Engineering *	3	-	2	4
6		Open Elective - I	3	-	-	3
7	AD3501	Artificial Intelligence Lab	-	-	2	1
8	CT3524	Game Programming	1	-	2	2
9	SD3503	Programming for Corporate	-	-	2	1
Total			17	2	8	23
10	NS3501	NSS / Fine Arts / Yoga / Self Defense (Mandatory Non-Credit Course)	-	-	2	-

* Integrated Course with Theory and Laboratory

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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	EG3501	Functional English	3	-	-	3
2	MA3501	Linear Algebra and Calculus	3	1	-	4
3	PH3507	Applied Physics	3	-	-	3
4	EE3501	Basic Electrical Engineering	3	-	-	3
5	CT3501	Problem Solving Using C *	3	-	2	4
6	EG3502	Functional English Lab	-	-	2	1
7	PH3508	Engineering Physics Lab	-	-	2	1
Total			15	1	6	19
8	EN3501	Environmental Studies (Mandatory Non-Credit Course)	2	-	-	-

* 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	EG503	Professional Communication	2	-	-	2
2	MA3505	Integral Transforms and Vector Calculus	3	1	-	4
3	IN3501	Introduction to Internet of Things	3	-	-	3
4	ME3502	Computer Aided Engineering Drawing*	1	-	4	3
5	UH3501	Universal Human Values 2: Understanding Harmony	2	1	-	3
6	EG3504	Professional Communication Lab	-	-	4	2
7	IN3502	Electronic Workshop for IoT	-	-	4	2
8	EE3503	Basic Electrical Engineering Lab	-	-	4	2
Total			11	2	16	21
9	BA3501	Constitution of India (Mandatory Non-Credit Course)	2	-	-	-

* Integrated Course with Theory and Laboratory

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Internet of Things

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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	IN3503	Analog Devices and Circuits	3	-	-	3
2	IN3504	Principles of Communication Systems	3	-	-	3
3	MA3509	Probability and Statistics	2	1	-	3
4	EC3514	Electronic Instrumentation and Measurement Principles	3	-	-	3
5	IN3505	Transducers and Signal Conditioning	3	-	-	3
6	CT3509	Data Structures*	2	-	2	3
7	IN3506	Analog Devices and Circuits Lab	-	-	2	1
8	EC3515	Analog and Digital Communications Lab	-	-	2	1
9	SD3502	Logic Building and Algorithmic Programming	-	-	2	1
Total			16	1	8	21
10	NS3501	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	IN3507	Signal Analysis and Processing	2	1	-	3
2	CT3516	Object Oriented Programming through JAVA*	2	-	2	3
3	EC3512	Digital Circuits Design	2	1	-	3
4	IN3508	Computer Organization and Architecture	3	-	-	3
5	MA3508	Numerical Methods and Complex Analysis	2	1	-	3
6		Open Elective - I	3	-	-	3
7	EC3523	Digital Circuits Design Lab	-	-	2	1
8	IN3509	Signal Analysis and Processing Lab	-	-	2	1
9	CT3517	Python Programming	-	-	4	2
10	SD3503	Programming for Corporate	-	-	2	1
Total			14	3	12	23
10	SG3501	Sports and Games / Cultural (Mandatory Non-Credit Course)	-	-	2	-

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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	EG3501	Functional English	3	-	-	3
2	MA3502	Descriptive Statistics	2	1	-	3
3	MA3504	Engineering Calculus	2	1	-	3
4	CT3502	Programming for Problem Solving	3	-	-	3
5	UH3501	Universal Human Values 2: Understanding Harmony	2	1	-	3
6	EG3502	Functional English Lab	-	-	2	1
7	MA3503	Statistics Using R Lab	-	-	2	1
8	CT3503	C Programming Lab	-	-	4	2
Total			12	3	8	19
9	BA3501	Constitution of India (Mandatory Non-Credit Course)	2	-	-	-

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	EG3503	Professional Communication	2	-	-	2
2	MA3505	Integral Transforms and Vector Calculus	3	1	-	4
3	MA3507	Linear Algebra	2	1	-	3
4	CT3504	Python Programming	3	-	-	3
5	CT3505	Data Structures	3	-	-	3
6	EG3504	Professional Communication Lab	-	-	4	2
7	CT3506	Python Programming Lab	-	-	4	2
8	CT3507	Data Structures Lab	-	-	4	2
Total			13	2	12	21
9	EN3501	Environmental Studies (Mandatory Non-Credit Course)	2	-	-	-

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Artificial Intelligence and Machine Learning

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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	BA3502	Managerial Economics and Financial Analysis	3	-	-	3
2	MA3512	Advanced Statistics	3	-	-	3
3	CT3510	Digital Logic Design	3	-	-	3
4	CT3511	Object Oriented Programming through Java	3	-	-	3
5	CT3512	Database Management Systems	2	1	-	3
6	CT3513	Formal Languages and Automata Theory	2	1	-	3
7	CT3514	Java Programming Lab	-	-	4	2
8	CT3515	Database Management Systems Lab	-	-	4	2
9	SD3502	Logic Building and Algorithmic Programming	-	-	2	1
Total			16	2	10	23
10	SG3501	Sports and Games / Cultural (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	MA3511	Discrete Mathematical Structures	2	1	-	3
2	CT3518	Computer Organization	3	-	-	3
3	CT3520	Compiler Design	2	1	-	3
4	CT3521	Artificial Intelligence	3	-	-	3
5	CS3502	Software Engineering *	3	-	2	4
6		Open Elective - I	3	-	-	3
7	AD3501	Artificial Intelligence Lab	-	-	2	1
8	CT3524	Game Programming	1	-	2	2
9	SD3503	Programming for Corporate	-	-	2	1
Total			17	2	8	23
10	NS3501	NSS / Fine Arts / Yoga / Self Defense (Mandatory Non-Credit Course)	-	-	2	-


* Integrated Course with Theory and Laboratory

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Artificial Intelligence and Machine Learning

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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

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IV Year - I Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	CE2551	Project Management and Finance	4	-	-	3
2	CE2552	Estimation, Costing and Valuation	3	1	-	3
3	CE2553	Design of Steel Structures	3	1	-	3
4		Professional Elective - III	4	-	-	3
5		Professional Elective - IV	4	-	-	3
6		Open Elective-IV(see list of Open Electives)	4	-	-	3
7	CE2564	Computer Applications in Civil Engineering Lab	-	-	4	2
8	CE2565	Internship / Industrial Training / Practical Training	-	-	-	2
Total			22	2	4	22
9		Optional Elective - VII	-	-	-	3
	CE2566	i) Project Scheduling and Contracts				
	MA2515	ii) Optimization Techniques				
	BA2504	iii) Entrepreneurship				
10	CE2567	Optional Elective - VIII (MOOCs) Students shall opt from the list of MOOCs given by the Department)	-	-	-	2

IV Year - II Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1		Professional Elective - V	4	-	-	3
2		Professional Elective - VI	4	-	-	3
3	CE2576	Project	-	-	20	10
Total			8	-	20	16

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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
	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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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)	-	-	-	2
Students shall opt from the list of MOOCs given by the Department)						


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	MA2511	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)	-	-	-	2
Students shall opt from the list of MOOCs given by the Department)						

* Project Based Theory Course

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IV Year - I Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	EE2537	Power System Analysis	3	1	-	3
2		Professional Elective - III	3	1	-	3
3		Professional Elective - IV	3	1	-	3
4		Open Elective-IV(see list of Open Electives)	4	-	-	3
5	MA2512	Engineering Optimization	2	1	-	2
6	EE2544	Power Electronics Lab	-	-	4	2
7	EE2545	Power Systems Lab	-	-	4	2
8	EE2546	Internship / Industrial Training / Practical Training	-	-	4	2
Total			15	4	12	20
9		Optional Elective - VII	-	-	-	3
	EC2519	i) Analog and Digital Communication				
	CS2502	ii) Introduction to Python Programming				
	EE2547	iii) Integration of Renewable Energy Sources				
10	EE2548	Optional Elective - VIII (MOOCs) Students shall opt from the list of MOOCs given by the Department)	-	-	-	2

IV Year - II Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1		Professional Elective - V	3	1	-	3
2		Professional Elective - VI	3	1	-	3
3	EE2557	Project	-	-	20	10
Total			6	2	20	16

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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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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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IV Year - I Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	ME2551	Industrial Engineering and Management	3	1	-	3
2	ME2552	CAD / CAM	3	1	-	3
3		Professional Elective - III	4	-	-	3
4		Professional Elective - IV	4	-	-	3
5		Open Elective-IV(see list of Open Electives)	4	-	-	3
6	ME2562	Simulation Lab	-	-	4	2
7	ME2563	Mini Project	-	-	4	2
8	ME2564	Internship / Industrial Training / Practical Training	-	-	-	2
Total			18	2	8	21
9		Optional Elective - VII	-	-	-	3
	CT2534	i) Big Data Analytics				
	CT2512	ii) Computer Organization and Architecture				
	ME2565	iii) Cryogenics				
10	ME2566	Optional Elective - VIII (MOOCs)	-	-	-	2
Students shall opt from the list of MOOCs given by the Department)						

IV Year - II Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1		Professional Elective - V	4	-	-	3
2		Professional Elective - VI	4	-	-	3
3	ME2575	Project	-	-	20	10
Total			8	-	20	16

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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
	ME2529	i) Non Conventional Sources of Energy				
	ME2530	ii) Mechanical Vibrations				
	ME2531	iii) Mechanics 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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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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IV Year - I Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods			No. of Credits
			per week			
			L	T	P	
1	EC2517	CMOS Digital IC Design	4	-	-	3
2	EC2512	Embedded System Design	3	-	-	2
3	EC2556	Electronic Measurements and Instrumentation	3	-	-	2
4		Professional Elective - III	4	-	-	3
5		Professional Elective - IV	4	-	-	3
6		Open Elective-IV(see list of Open Electives)	4	-	-	3
7	EC2564	Microwave and Optical Communications Lab	-	-	4	2
8	EC2565	Mini Project on Smart Applications	-	-	4	2
9	EC2566	Internship / Industrial Training / Practical Training	-	-	-	2
Total			22	-	8	22
9		Optional Elective - VII	-	-	-	3
	EE2554	i) Digital Control Systems				
	CT2521	ii) Artificial Intelligence				
	EC2567	iii) Transform Techniques				
10	EC2568	Optional Elective - VIII (MOOCs) Students shall opt from the list of MOOCs given by the Department)	-	-	-	2

IV Year - II Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods			No. of Credits
			per week			
			L	T	P	
1		Professional Elective - V	4	-	-	3
2		Professional Elective - VI	4	-	-	3
3	EC2577	Project	-	-	20	10
Total			8	-	20	16

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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

L : Lecture T : Tutorial P : Practical




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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
	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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Electronics and Communication Engineering

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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

* Integrated Course with Theory and Laboratory

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IV Year - I Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	CT2533	Cyptography and Network Security	4	-	-	3
2	CT2534	Big Data Analytics	4	-	-	3
3		Professional Elective - III	4	-	-	3
4		Professional Elective - IV	4	-	-	3
5		Open Elective-IV(see list of Open Electives)	4	-	-	3
6	CT2538	Big Data Analytics Lab	-	-	4	2
7	CS2523	Cryptography and Network Security Lab	-	-	4	2
8	CS2524	Internship / Industrial Training / Practical Training	-	-	-	2
Total			20	-	8	21
9		Optional Elective - VII	-	-	-	3
	CS2525	i) Network Programming				
	CT2515	i) Systems Software				
	ME2544	iii) Robotics				
10	CS2526	Optional Elective - VIII (MOOCs) Students shall opt from the list of MOOCs given by the Department)	-	-	-	2

IV Year - II Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1		Professional Elective - V	4	-	-	3
2		Professional Elective - VI	4	-	-	3
3	CS2531	Project	-	-	20	10
Total			8	-	20	16

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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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Computer Science and Engineering

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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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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

* Integrated Course with Theory and Laboratory

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IV 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	CT2534	Big Data Analytics	4	-	-	3
3		Professional Elective - III	4	-	-	3
4		Professional Elective - IV	4	-	-	3
5		Open Elective-IV(see list of Open Electives)	4	-	-	3
6	CT2538	Big Data Analytics Lab	-	-	4	2
7	IT2522	Mini Project	-	-	4	2
8	IT2523	Internship / Industrial Training / Practical Training	-	-	-	2
Total			19	-	8	20
9		Optional Elective - VII	-	-	-	3
	CT2539	i) Social Networks				
	EC2523	ii) Assistive Technologies				
	ME2542	iii) Renewable Energy Sources				
10	IT2524	Optional Elective - VIII (MOOCs)	-	-	-	2
Students shall opt from the list of MOOCs given by the Department)						

IV Year - II Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods			No. of Credits
			per week			
			L	T	P	
1		Professional Elective - V	4	-	-	3
2		Professional Elective - VI	4	-	-	3
3	IT2529	Project	-	-	20	10
Total			8	-	20	16

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Information Technology

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Open Elective - I

Sl. No.	Course Code	Title of the Subject	Department Offering the Subject	No. of Periods per week			No. of Credits
				L	T	P	
1		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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Information Technology

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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
	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				

L : Lecture T : Tutorial P : Practical

Information Technology

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I Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	CE3901	Advanced Structural Analysis **	3	-	-	3
2	CE3902	Theory of Elasticity	3	-	-	3
3		Professional Elective - I	3	-	-	3
4		Professional Elective - II	3	-	-	3
5	BA3901	Research Methodology & IPR	3	-	-	3
6	CE3908	Advanced Structural Engineering Lab	-	-	4	2
7	CE3909	Advanced Concrete Technology Lab	-	-	4	2
Total			15	-	8	19
8	BA3902	Constitution of India (Audit Course)	2	-	-	

II Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	CE3910	Finite Element Methods in Structural Engineering **	3	-	-	3
2	CE3911	Structural Dynamics	3	-	-	3
3		Professional Elective - III	3	-	-	3
4		Professional Elective - IV	3	-	-	3
5	CE3918	Computer Applications in Structural Engineering Lab	-	-	4	2
6	CE3919	Structural Design Lab	-	-	4	2
7	CE3920	Mini Project with Seminar	-	-	6	3
Total			12	-	14	19
8	EG3901	English for Research Paper Writing (Audit Course)	2	-	-	-

III Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1		Professional Elective - V	3	-	-	3
2		Open Elective	3	-	-	3
3		Dissertation Phase - I	-	-	20	10
Total			6	-	20	16

** Project Based Course

L : Lecture T : Tutorial P : Practical

M.Tech - Structural Engineering (CE) - R20

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IV Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1		Dissertation Phase - II	-	-	32	16
Total			-	-	32	16

Professional Electives:**Professional Elective - I**

- MA3901 Computational Methods in Structural Engineering
- CE3903 Advanced R.C. Design
- CE3904 Experimental Stress Analysis

Professional Elective - II

- CE3905 Theory of Plates and Shells
- CE3906 Advancements in Concrete Technology
- CE3907 Design of Pre-stressed Concrete Structures

Professional Elective - III

- CE3912 Advanced Design of Steel Structures
- CE3913 Stability of Structures
- CE3914 Design of High-rise Structures

Professional Elective - IV

- CE3915 Design of Bridge Structures
- CE3916 Repairs and Retrofitting of Structures
- CE3917 Ground Improvement Methods

Professional Elective - V


- CE3921 Earthquake Resistant Design of Structures
- CE3922 Design of Sub-structures
- CE3923 MOOCs

Open Electives:

- CE3924 Sustainable Development
- EE3924 Energy Audit, Conservation & Management
- ME3924 Rapid Prototyping
- EC4924 Automotive Electronics (Other than VLSID&ES)
- CS3924 Soft Computing Techniques



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I Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	EE3901	Electrical Machine Modeling and Analysis	3	-	-	3
2	EE3902	Analysis of Power Electronic Converters**	3	-	-	3
3		Professional Elective - I	3	-	-	3
4		Professional Elective - II	3	-	-	3
5		Research Methodology & IPR	3	-	-	3
6	EE3909	Power Electronics Simulation Laboratory	-	-	4	2
7	EE3910	Power Converters Laboratory	-	-	4	2
Total			15	-	8	19
8	BA3902	Constitution of India (Audit Course)	2	-	-	

II Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	EE3911	Switched Mode Power Conversion	3	-	-	3
2	EE3912	Power Electronic Control of Electrical Drives **	3	-	-	3
3		Professional Elective - III	3	-	-	3
4		Professional Elective - IV	3	-	-	3
5	EE3919	Electric Drives Simulation Laboratory	-	-	4	2
6	EE3920	Electric Drives Laboratory	-	-	4	2
7	EE3921	Mini Project with Seminar	-	-	6	3
Total			12	-	14	19
8	EG3901	English for Research Paper Writing (Audit Course)	2	-	-	-

III Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1		Professional Elective - V	3	-	-	3
2		Open Elective	3	-	-	3
3		Dissertation Phase - I	-	-	20	10
Total			6	-	20	16

** Project Based Course

L : Lecture T : Tutorial P : Practical




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IV Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1		Dissertation Phase - II	-	-	32	16
Total			-	-	32	16

Professional Electives:

Professional Elective - I

- EE3903 Modern Control Theory
- EE3904 Power Quality and Custom Power Devices
- EE3905 Programmable Logic Controllers and Applications

Professional Elective - II

- EE3906 Artificial Intelligence Techniques
- EE3907 Renewable Energy Technologies
- EE3908 Flexible AC Transmission Systems

Professional Elective - III

- EE3913 Control and Integration of Renewable Energy Systems
- EE3914 Hybrid Electric Vehicles
- EE3915 Advanced Digital Control Systems

Professional Elective - IV

- EE3916 Advanced Digital Signal Processing
- EE3917 Applications of Power Converters
- EE3918 Microcontrollers

Professional Elective - V

- EE3922 Digital Signal Processing Controlled Drives
- EE3923 Smart Grid Technologies
- EE39.... MOOCs

Open Electives:

- CE3924 Sustainable Development
- EE3924 Energy Audit, Conservation & Management
- ME3924 Rapid Prototyping
- EC4924 Automotive Electronics (Other than VLSI&ES)
- CS3924 Soft Computing Techniques

I Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	ME3901	Mechanical Vibrations and Acoustics **	3	-	-	3
2	ME3902	Advanced mechanics of Solids	3	-	-	3
3		Professional Elective - I	3	-	-	3
4		Professional Elective - II	3	-	-	3
5	BA3901	Research Methodology & IPR	3	-	-	3
6	ME3909	Machine Dynamics Lab	-	-	4	2
7	ME3910	Advanced Material Testing Lab	-	-	4	2
Total			15	-	8	19
8	BA3902	Constitution of India (Audit Course)	2	-	-	

II Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	MA3902	Computational Methods in Engineering	3	-	-	3
2	ME3911	Advanced Finite Element Methods **	3	-	-	3
3		Professional Elective - III	3	-	-	3
4		Professional Elective - IV	3	-	-	3
5	ME3918	Modeling and Simulation Lab	-	-	4	2
6	ME3919	Computational Methods Lab	-	-	4	2
7	ME3920	Mini Project with Seminar	-	-	6	3
Total			12	-	14	19
8	EG3901	English for Research Paper Writing (Audit Course)	2	-	-	-

III Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1		Professional Elective - V	3	-	-	3
2		Open Elective	3	-	-	3
3	ME3926	Dissertation Phase - I	-	-	20	10
Total			6	-	20	16

** Project Based Course

L : Lecture T : Tutorial P : Practical

M.Tech - Machine Design (ME) - R20

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IV Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	ME3927	Dissertation Phase - II	-	-	32	16
Total			-	-	32	16

Professional Electives:**Professional Elective - I**

- ME3903 Analysis and Synthesis of Mechanisms
- ME3904 Advanced Materials
- ME3905 Industrial Robotics

Professional Elective - II

- ME3906 Gear Engineering
- ME3907 Advanced Optimization Techniques
- ME3908 Rotor Dynamics

Professional Elective - III

- ME3912 Design for Manufacturing and Assembly
- ME3913 Mechatronics
- ME3914 Vehicle Dynamics

Professional Elective - IV

- ME3915 Signal Analysis and Condition Monitoring
- ME3916 Fracture Mechanics
- ME3917 Experimental Stress Analysis

Professional Elective - V

- ME3921 Tribology
- ME3922 Composite Materials
- ME3923 MOOCs

Open Electives:

- CE3924 Sustainable Development
- EE3924 Energy Audit, Conservation & Management
- ME3924 Rapid Prototyping
- EC4924 Automotive Electronics (Other than VLSID&ES)
- CS3924 Soft Computing Techniques



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I Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	EC4901	CMOS VLSI Design	3	-	-	3
2	EC4902	Advanced Microcontrollers *	3	-	-	3
3		Professional Elective - I	3	-	-	3
4		Professional Elective - II	3	-	-	3
5	BA3901	Research Methodology & IPR	3	-	-	3
6	EC4909	CMOS VLSI Design Lab	-	-	4	2
7	EC4910	Advanced Microcontrollers Lab	-	-	4	2
Total			15	-	8	19
8	BA3902	Constitution of India (Audit Course)	2	-	-	

II Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	EC4911	VLSI System Design *	3	-	-	3
2	EC4912	Embedded System Based IoT	3	-	-	3
3		Professional Elective - III	3	-	-	3
4		Professional Elective - IV	3	-	-	3
5	EC4919	VLSI System Design Lab	-	-	4	2
6	EC4920	Embedded System and IoT Lab	-	-	4	2
7	EC4921	Mini Project with Seminar	-	-	6	3
Total			12	-	14	19
8	EG3901	English for Research Paper Writing (Audit Course)	2	-	-	-

III Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1		Professional Elective - V	3	-	-	3
2		Open Elective	3	-	-	3
3	EC4925	Dissertation Phase - I	-	-	20	10
Total			6	-	20	16

* Project Based Theory Course

L : Lecture T : Tutorial P : Practical




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IV Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	EC4925	Dissertation Phase - II	-	-	32	16
Total			-	-	32	16

Professional Electives:**Professional Elective - I**

- EC4903 Testing and Testability of VLSI Circuits
- EC4904 Advanced Digital Design
- EC4905 Digital Signal and Image Processing

Professional Elective - II

- EC4906 VLSI Signal Processing
- EC4907 System Design with Embedded Linux
- EC4908 Parallel Processing

Professional Elective - III

- EC4913 Advances in VLSI Design
- EC4914 Embedded Computer Architecture
- EC4915 System on Chip Design

Professional Elective - IV

- EC4916 VLSI Interconnects
- EC4917 Communication Buses and Interfaces
- EC4918 Advanced Digital Signal Processing

Professional Elective - V

- EC4922 Lower Power VLSI Design
- EC4923 Network Security and Cryptography
- ME49... MOOCs

Open Electives:

- CE3924 Sustainable Development
- EE3924 Energy Audit, Conservation & Management
- ME3924 Rapid Prototyping
- EC4924 Automotive Electronics (Other than VLSI D&ES)
- CS3924 Soft Computing Techniques




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Department of Computer Science and Engineering

R20 PG – M.Tech CSE (AI&ML)

Course Structure

I Semester

Sl. No.	Course Code	Name of the Course / Laboratory		No. of hours per week			Total Credits
				L	T	P	
1		Research Methodologies and IPR	HSS	3	-	-	3
2	CS3901	Advanced Data Structures and Algorithm Analysis	PC	3	-	-	3
3	CS3902	Data Science	ES	3	-	-	3
4	CS3903 CS3904 CS3905	Professional Elective – I 1. Digital Image Processing 2. Ad hoc and Sensor Networks 3. Intelligent Systems	PE	3	-	-	3
5	CS3906 CS3907 CS3908	Professional Elective – II 1. Internet of Things 2. Principles of Computer Security 3. Distributed Systems	PE	3	-	-	3
6	CS3909	Advanced Data Structures and Algorithm Analysis Lab	PC	-	-	4	2
7	CS3910	Data Science Lab	ES	-	-	4	2
8		Constitution of India	AC	2	-	-	-
Total :				17	-	8	19

II Semester

Sl. No.	Course code	Name of the Course / Laboratory		No. of hours per week			No. of Credits
				L	T	P	
1	CS3911	MEAN Stack Technologies	PC	3	-	-	3
2	CS3912	Machine Learning	PC	3	-	-	3
3	CS3913 CS3914 CS3915	Professional Elective – III 1. Blockchain Technology 2. Data Preparation and Analysis 3. Natural Language Processing	PE	3	-	-	3
4	CS3916 CS3917 CS3918	Professional Elective – IV 1. Cloud Computing 2. Quantum Computing 3. Digital Forensics	PE	3	-	-	3
5	CS3919	MEAN Stack Technologies Lab	PC	-	-	4	2
6	CS3920	Machine Learning using Python Lab	PC	-	-	4	2
7	CS3921	Mini Project with Seminar	PROJ	-	-	6	3
8		English for Research Paper Writing	AC	2	-	-	-
Total:				14	-	14	19



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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	CS3922 CS3923	Professional Elective – V 1. Deep Learning 2. Recommender Systems 3. MOOCs-1 (NPTEL/SWAYAM) 12 Week Program related to the program which is not listed in the course structure	PE	3	-	-	3
2		Open Elective- I 1. Courses Offered by Other Departments 2. MOOCs-2 (NPTEL/SWAYAM)-Any 12 Week Course on Engineering/ Management/ Mathematics offered by other than parent department	OE	3	-	-	3
3	CS3925	Dissertation (Initiated in third Semester)	PROJ	-	-	20	10
Total :				6	-	20	16

IV Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of hours per week			No. of Credits	
			L	T	P		
1	CS3926	Dissertation (Carried out in third & fourth Semesters)	PROJ	-	-	32	16
Total :				-	-	32	16

Open Elective-I	CS3924	Soft Computing Techniques
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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	BA3902	Perspectives of Management	4	-	-	4
2	BA3903	Managerial Economics	4	-	-	4
3	BA3904	Accounting for Managers	3	-	1	4
4	BA3905	Business Communication & Skill Development	4	-	-	4
5	BA3906	Business Environment and Legislation	4	-	-	4
6	BA3907	Quantitative Analysis for Business Decisions	3	-	1	4
7	BA3908	Business Law	4	-	-	4
8	BA3909	Information Technology Lab for Business Management	-	-	4	2
Total			26	-	6	30

II Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits
			L	T	P	
1	BA3910	Financial Management	3	-	1	4
2	BA3911	Marketing Management	4	-	-	4
3	BA3912	Human Resource Management	4	-	-	4
4	BA3913	Production & Operations Management	4	-	-	4
5	BA3914	Business Research Methods	3	-	1	4
6	BA3915	International Business	4	-	-	4
7	BA3916	Organizational Behaviour	4	-	-	4
Total			26	-	-	28

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	BA3917	Business Policy & Strategic Management	4	-	-	4	
2	BA3918	Logistics & Supply Chain Management	4	-	-	3	
3	BA3919	Retail Management	4	-	-	3	
4	BA3920	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	-	-	25	

IV Semester

Sl. No.	Course Code	Name of the Course / Laboratory	No. of Periods per week			No. of Credits	
			L	T	P		
1	BA3927	Entrepreneurship & Project Management	4	-	-	4	
2	BA3928	Management of Retail Operations	4	-	-	3	
3		Specialisation - V	Marketing subjects common to all	4	-	-	3
4		Specialisation - VI		4	-	-	3
5		Specialisation - VII	Finance (or) HR	4	-	-	3
6		Specialisation - VIII		4	-	-	3
7		Project Report	-	-	-	5	
8		Comprehensive Viva-Voce	-	-	-	1	
Total			20	0	0	25	

Specialisations:

III Semester	IV Semester
Marketing BA3921 Advertising & Brand Management BA3922 Consumer Behaviour Finance BA3923 Security Analysis & Portfolio Mgt. BA3924 International Financial Management HR BA3925 Human Resources Analytics BA3926 Industrial Relations and Labour Laws	Marketing BA3929 Marketing of Services BA3930 Sales & Distribution Management Finance BA3931 Financial Derivatives BA3932 Financial Institutions and Services HR BA3933 Compensation Management BA3934 Management of Change and Development

Master of Business Administration - R20

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