



K.S.R.M. COLLEGE OF ENGINEERING

(UGC-AUTONOMOUS)

Kadapa, Andhra Pradesh, India- 516 005

Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu.

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1.1.3 Details of courses offered by the institution that focus on employability/ entrepreneurship/ Skill Development during the year.

AY 2023-24

S.No	Name of the Course	Course Code	Program Name	Year of Introduction
1	Linear Algebra and Calculus	2321101	CE,ME,ECE,EEE,CSE, AIML	2023-2024
2	Communicative English	2324101/2324201	CE,ME,ECE/EEE,CSE,AIML	2023-2024
3	Engineering Physics	2322104/2332204	CE,ME,ECE/EEE,CSE,AIML	2023-2024
4	Communicative English Lab	2324110/2324210	CE,ME,ECE/EEE,CSE,AIML	2023-2024
5	Engineering Physics Lab	2322115/232225	CE,ME,ECE/EEE,CSE,AIML	2023-2024
6	NSS / NCC / Scouts & Guides / Community Service	2306116/2306216	CE,ME,ECE/EEE,CSE,AIML	2023-2024
7	Differential Equations & Vector Calculus	2321201	CE,ME,ECE,EEE,CSE, AIML	2023-2024
8	Engineering Chemistry	23EC202	CE,ME,ECE	2023-2024
9	Engineering Chemistry Lab	23EC211	CE,ME,ECE	2023-2024
10	Health and Wellness, Yoga and Sports	2306117/2306217	CE,ME,ECE/EEE,CSE,AIML	2023-2024
11	Chemistry	2323102	EEE,CSE,AIML	2023-2024
12	Chemistry Lab	2323111	EEE,CSE,AIML	2023-2024
13	Engineering Workshop	2303112/2303212	EEE,CSE,AIML/CE,ME,ECE	2023-2024
14	Engineering Graphics	2303108/2303208	CE,ME,ECE/EEE,CSE,AIML	2023-2024
15	IT Workshop	2305109/2305209	EEE,CSE,AIML/CE,ME,ECE	2023-2024
16	Basic Electrical & Electronics Engineering	23EE106/23EE206	CE,ME,ECE/EEE,CSE,AIML	2023-2024
17	Basic Civil and Mechanical Engineering	23CM105/23CM205	EEE,CSE,AIML/CE,ME,ECE	2023-2024
18	Computer Programming Lab	2305113/2305213	CE,ME,ECE/EEE,CSE,AIML	2023-2024
19	Electrical and Electronics Engineering Workshop	23EE114/23EE214	CE,ME,ECE/EEE,CSE,AIML	2023-2024
20	Engineering Mechanics	23EM204	CE,ME	2023-2024
21	Introduction to Programming	2305107/2305207	EEE,CSE,AIML/CE,ME,ECE	2023-2024
22	Data Structures	2305202	CSE,AIML	2023-2024
23	Data Structures Lab	2305203	CSE,AIML	2023-2024
24	Business Economics and Accounting for Engineers	2025401/2024301/ 2025401/2025405	CE,ECE,CSE,AIML,ME	2021-2022
25	Design and Analysis of Algorithms	2005502/2039402	CSE,AIML	2022-2023
26	Data Mining Lab	2005608/2039508	CSE,AIML	2022-2023
27	Cloud Computing (PEC&OEIV)	2005707&200E508, 2039605	CSE,AIML	2023-2024
28	Constitution of India	20993M3,20MC512,20MC509, 2270A05,20MC609,20MC509, 2270A05	CE,EEE,ME,M.Tech(Renewable), ECE,CSE,AIML	2022-2023



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29	Advanced Python Programming	2005409&2298110, 2039508	CSE,M.Tech(AIML),AIML	2022-2023
30	Disaster Management	20OE101,2270A06 ,2270A02	CE,M.Tech(Renewable),M.Tech(EB&VLSI),M.Tech(AIML)	2022-2023
31	Universal Human Values	20993M1/20MC309/2024410/2024310	CE,ECE,CSE,AIML	2021-2022
32	Engineering Mechanics & Building Practices Lab	2301206	B.Tech - CE	2023-2024
33	Probability, Statistics & Numerical Methods	2021302	B.Tech - CE	2021-2022
34	Geology and Building materials	2001302	B.Tech - CE	2021-2022
35	Advanced Strength of materials	2001303	B.Tech - CE	2021-2022
36	Fluid Mechanics	2001304	B.Tech - CE	2021-2022
37	Geomatics	2001305	B.Tech - CE	2021-2022
38	Fluid Mechanics Laboratory	2001306	B.Tech - CE	2021-2022
39	Geomatics Lab	2001307	B.Tech - CE	2021-2022
40	Civil Engineering Workshop (Skill oriented)	20013S1	B.Tech - CE	2021-2022
41	Hydraulics & Hydraulic Machinery	2001402	B.Tech - CE	2021-2022
42	Soil Mechanics	2001403	B.Tech - CE	2021-2022
43	Structural Analysis	2001404	B.Tech - CE	2021-2022
44	Transportation Engineering	2001405	B.Tech - CE	2021-2022
45	Building Planning and Drawing (AutoCAD)	2001406	B.Tech - CE	2021-2022
46	Soil Mechanics Laboratory	2001407	B.Tech - CE	2021-2022
47	Transportation Engineering Laboratory	2001408	B.Tech - CE	2021-2022
48	Advanced Civil Engineering Workshop (Skill oriented-2)	20014S2	B.Tech - CE	2021-2022
49	Hydrology & Irrigation	2001501	B.Tech - CE	2022-2023
50	Foundation Engineering	2001502	B.Tech - CE	2022-2023
51	Concrete Technology	2001503	B.Tech - CE	2022-2023
52	Optimization Techniques in Civil Engineering	2001504	B.Tech - CE	2022-2023
53	Advanced Structural Analysis	2001505	B.Tech - CE	2022-2023
54	Remote Sensing & GIS	2001506	B.Tech - CE	2022-2023
55	Basics of Civil Engineering	20OE102	B.Tech - CE	2022-2023
56	Building Materials	20OE103	B.Tech - CE	2022-2023
57	Organizational behaviour	20995M2	B.Tech - CE	2022-2023
58	Concrete Technology Lab	2001507	B.Tech - CE	2022-2023
59	Structural Analysis and Design Lab (Staad Pro)	2001508	B.Tech - CE	2022-2023
60	SketchUp-3D modelling	20015S3	B.Tech - CE	2022-2023



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61	Community Service Project	2001509	B.Tech - CE	2022-2023
62	Environmental Engineering	2001601	B.Tech - CE	2022-2023
63	Water Resources Engineering	2001602	B.Tech - CE	2022-2023
64	Design of Reinforced Concrete Structures	2001603	B.Tech - CE	2022-2023
65	Pre-stressed Concrete	2001604	B.Tech - CE	2022-2023
66	Bridge Engineering	2001605	B.Tech - CE	2022-2023
67	Traffic Engineering	2001606	B.Tech - CE	2022-2023
68	Human Resource Development	2006601	B.Tech - CE	2022-2023
69	Digital Marketing	2006602	B.Tech - CE	2022-2023
70	Project Management	2006603	B.Tech - CE	2022-2023
71	Environmental Engineering Lab	2001607	B.Tech - CE	2022-2023
72	Computer Aided Design and Drafting Lab	2001608	B.Tech - CE	2022-2023
73	Advanced Concrete Technology Lab	2001609	B.Tech - CE	2022-2023
74	Advanced English communication skills lab	20016S4	B.Tech - CE	2022-2023
75	Ground Improvement Techniques	2001701	B.Tech - CE	2023-2024
76	Quantity Estimation of structures	2001702	B.Tech - CE	2023-2024
77	Finite Element Methods	2001703	B.Tech - CE	2023-2024
78	Design of Steel Structures	2001704	B.Tech - CE	2023-2024
79	Water Supply Engineering	2001705	B.Tech - CE	2023-2024
80	Advanced Concrete Structures	2001706	B.Tech - CE	2023-2024
81	Design and Drawing of Irrigation Structures	2001707	B.Tech - CE	2023-2024
82	Construction Practice and Management	2001708	B.Tech - CE	2023-2024
83	Urban Transportation Planning	2001709	B.Tech - CE	2023-2024
84	Practices in Geo-Technical Engineering	20015S5	B.Tech - CE	2023-2024
85	Repair & Rehabilitation of Structures	20OE107	B.Tech - CE	2023-2024
86	Geo-Environmental Engineering	20OE108	B.Tech - CE	2023-2024
87	Environmental Impact Assessment	20OE109	B.Tech - CE	2023-2024
88	Industrial Safety Engineering	20OE110	B.Tech - CE	2023-2024
89	Surveying	20OE111	B.Tech - CE	2023-2024
90	Traffic Engineering	20OE112	B.Tech - CE	2023-2024
91	Stability Analysis of Slopes	2212301	M.Tech - GTE	2023-2024
92	Foundations on Weak Rocks	2212302	M.Tech - GTE	2023-2024
93	Computational Geomechanics	2212303	M.Tech - GTE	2023-2024
94	Solid Waste Management	22OE121	M.Tech - GTE	2023-2024
95	Waste to Energy	22OE122	M.Tech - GTE	2023-2024
96	Sub soil exploration techniques	22OE123	M.Tech - GTE	2023-2024



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S.No	Name of the Course	Course Code	Program Name	Year of Introduction
97	Dissertation Phase – 1 (to be continued next semester)	2212307	M.Tech - GTE	2023-2024
98	Co-Curricular Activities	2212308	M.Tech - GTE	2023-2024
99	Dissertation Phase – 2	2212401	M.Tech - GTE	2023-2024
100	Electrical Circuit Analysis-1	2302202	B.Tech- EEE	2023-2024
101	Electrical Circuits Lab	2302203	B.Tech- EEE	2023-2024
102	Switching Theory & Logic Design	2002301	B.Tech- EEE	2021-2022
103	Electromagnetic Field Theory	2002302	B.Tech- EEE	2021-2022
104	Electrical Circuit Analysis - II	2002303	B.Tech- EEE	2021-2022
105	Electrical Measurements & Measuring Instruments	2002304	B.Tech- EEE	2021-2022
106	DC Machines & Transformers	2002305	B.Tech- EEE	2021-2022
107	Electrical Circuit Analysis - II Lab	2002306	B.Tech- EEE	2021-2022
108	Electrical Measurements & Measuring Instruments Lab	2002307	B.Tech- EEE	2021-2022
109	DC Machines & Transformers Lab	2002308	B.Tech- EEE	2021-2022
110	Skill Oriented Course	2002309	B.Tech- EEE	2021-2022
111	Human Values & Professional Ethics	20MC310	B.Tech- EEE	2021-2022
112	Special Functions & Complex Analysis	2021401	B.Tech- EEE	2021-2022
113	Fundamentals of Management for Engineers	2025402	B.Tech- EEE	2021-2022
114	Induction Motors & Synchronous Machines	2002403	B.Tech- EEE	2021-2022
115	Linear Control Systems	2002404	B.Tech- EEE	2021-2022
116	Power Systems - I	2002405	B.Tech- EEE	2021-2022
117	Induction Motors & Synchronous Machines Lab	2002406	B.Tech- EEE	2021-2022
118	Control Systems Lab	2002407	B.Tech- EEE	2021-2022
119	Python Programming Lab	2002408	B.Tech- EEE	2021-2022
120	Skill Oriented Course	2002409	B.Tech- EEE	2021-2022
121	Linear Digital IC Applications	2002501	B.Tech- EEE	2022-2023
122	Power System - II	2002502	B.Tech- EEE	2022-2023
123	Power Electronics	2002503	B.Tech- EEE	2022-2023
124	Internet of Things	2002504	B.Tech- EEE	2022-2023
125	Modern Control Theory	2002505	B.Tech- EEE	2022-2023
126	Energy Conversion Systems	2002506	B.Tech- EEE	2022-2023
127	Modern Control Theory	200E201	B.Tech- EEE	2022-2023
128	Programming Fundamentals for Numerical Computations	200E202	B.Tech- EEE	2022-2023
129	Power Systems - I Lab	2002507	B.Tech- EEE	2022-2023
130	Internet of Things Lab	2002508	B.Tech- EEE	2022-2023



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131	Soft Skill Oriented Course	2002509	B.Tech- EEE	2022-2023
132	Community Service Project	2002510	B.Tech- EEE	2022-2023
133	Microprocessor & Microcontrollers	2002601	B.Tech- EEE	2022-2023
134	Fundamentals of Electric Drives	2002602	B.Tech- EEE	2022-2023
135	Switchgear & Protection	2002603	B.Tech- EEE	2022-2023
136	Power System Operation & Control	2002604	B.Tech- EEE	2022-2023
137	HVDC Transmission	2002605	B.Tech- EEE	2022-2023
138	Signals & Systems	2002606	B.Tech- EEE	2022-2023
139	Energy Conversion Systems	20OE203	B.Tech- EEE	2022-2023
140	Smart grid	20OE204	B.Tech- EEE	2022-2023
141	Power Electronics Lab	2002607	B.Tech- EEE	2022-2023
142	Power System- II Lab	2002608	B.Tech- EEE	2022-2023
143	Advanced Programming Lab	2002608	B.Tech- EEE	2022-2023
144	Skill Advanced Course	2002610	B.Tech- EEE	2022-2023
145	Management Organizational Behavior	20MC612	B.Tech- EEE	2022-2023
146	Power Quality	2002701	B.Tech- EEE	2022-2023
147	Electric and Hybrid Vehicles	2002702	B.Tech- EEE	2022-2023
148	Power System Reliability	2002703	B.Tech- EEE	2022-2023
149	Power Electronics For Renewable Energy Systems	2002704	B.Tech- EEE	2022-2023
150	Electrical Distribution Systems	2002705	B.Tech- EEE	2022-2023
151	Smart Grid	2002706	B.Tech- EEE	2022-2023
152	Flexible AC Transmission Systems	2002707	B.Tech- EEE	2022-2023
153	Industrial Automation & Control	2002708	B.Tech- EEE	2022-2023
154	Distributed Generation & Micro Grid	2002709	B.Tech- EEE	2022-2023
155	Intelligent Control Techniques	20OE205	B.Tech- EEE	2022-2023
156	Electrical System Estimation & Costing	20OE206	B.Tech- EEE	2022-2023
157	Internship	2002710	B.Tech- EEE	2022-2023
158	Skill Advanced Course	2002711	B.Tech- EEE	2022-2023
159	Project Work	2002801	B.Tech- EEE	2022-2023
160	Power System Transients	2252301	M.Tech- PS	2023-2024
161	Industrial Load Modeling and Control	2252302	M.Tech- PS	2023-2024
162	Modern Control Theory	2252303	M.Tech- PS	2023-2024
163	Business Analytics	2271304	M.Tech- PS	2023-2024



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164	Operations Research	2271305	M.Tech- PS	2023-2024
165	Waste to Energy	2271306	M.Tech- PS	2023-2024
166	Dissertation Phase - I	2252307	M.Tech- PS	2023-2024
167	Co-curricular Activity	2252308	M.Tech- PS	2023-2024
168	Dissertation Phase - II	2252401	M.Tech- PS	2023-2024
169	Engineering Mechanics lab	2301206	B.Tech- ME	2023-2024
170	Fundamentals of Statistics and Dynamics.	2003301	B.Tech- ME	2021-2022
171	Fluid Mechanics &Hydraulic Machinery	2003302	B.Tech- ME	2021-2022
172	Manufacturing processes	2003303	B.Tech- ME	2021-2022
173	Engineering Thermodynamics	2003304	B.Tech- ME	2021-2022
174	Mechanics of Materials	2003305	B.Tech- ME	2021-2022
175	Fluid Mechanics &Hydraulic Machinery Lab	2003306	B.Tech- ME	2021-2022
176	Manufacturing Technology Lab	2003307	B.Tech- ME	2021-2022
177	Mechanics of Materials Lab	2003308	B.Tech- ME	2021-2022
178	Skill Oriented Course – I CATIA	2003309	B.Tech- ME	2021-2022
179	Environmental Science	20993M1	B.Tech- ME	2021-2022
180	Numerical Methods And Probability	2021401	B.Tech- ME	2021-2022
181	Applied Thermodynamics	2003402	B.Tech- ME	2021-2022
182	Kinematics Of Machines	2003403	B.Tech- ME	2021-2022
183	Machine Tools	2003404	B.Tech- ME	2021-2022
184	Bussiness Economics and Accounting for Engineers	2025405	B.Tech- ME	2021-2022
185	Applied Thermodynamics Lab	2003406	B.Tech- ME	2021-2022
186	Manufacturing Technology Lab II	2003407	B.Tech- ME	2021-2022
187	Computer Aided Machine Drawing	2003408	B.Tech- ME	2021-2022
188	CNC Programming and Simulation - skill course	2003409	B.Tech- ME	2021-2022
189	Heat Transfer	2003501	B.Tech- ME	2022-2023
190	Design of Machine Members	2003502	B.Tech- ME	2022-2023
191	Metrology and Measurements	2003503	B.Tech- ME	2022-2023
192	Alternative Fuels and Emission Control in Auto motives	2003504	B.Tech- ME	2022-2023
193	Automation & Robotics	2003505	B.Tech- ME	2022-2023
194	Tool Design	2003506	B.Tech- ME	2022-2023
195	Power Plant Engineering	2003507	B.Tech- ME	2022-2023
196	Non Destructive Testing (NDT)	2003508	B.Tech- ME	2022-2023
197	Metrology and Measurements Laboratory	2003514	B.Tech- ME	2022-2023



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198	Heat Transfer Laboratory	2003515	B.Tech- ME	2022-2023
199	Data Science for Beginners (NASSCOM)	2003516	B.Tech- ME	2022-2023
200	Socially Relevant Project	2003517	B.Tech- ME	2022-2023
201	Operations Research	2003601	B.Tech- ME	2022-2023
202	Finite Element Methods (FEM)	2003602	B.Tech- ME	2022-2023
203	Introduction to CAD/CAM	2003603	B.Tech- ME	2022-2023
204	Dynamics of Machinery (MOOCS)	2003604	B.Tech- ME	2022-2023
205	Solar and Wind Energy Systems	2003605	B.Tech- ME	2022-2023
206	Computational Fluid Dynamics (CFD)	2003606	B.Tech- ME	2022-2023
207	Six Sigma and Lean Manufacturing	2003607	B.Tech- ME	2022-2023
208	Energy Auditing	2003608	B.Tech- ME	2022-2023
209	Computer Aided Machining Laboratory	2003609	B.Tech- ME	2022-2023
210	Computer Aided Drafting Laboratory	2003610	B.Tech- ME	2022-2023
211	Solid Works	2003611	B.Tech- ME	2022-2023
212	Soft Skills Lab	20246S4	B.Tech- ME	2022-2023
213	Management Organization Behavior	20MC612	B.Tech- ME	2022-2023
214	Modern Manufacturing Methods	2003701	B.Tech- ME	2023-2024
215	Design for Manufacturing	2003702	B.Tech- ME	2023-2024
216	Solar and Wind Energy Systems	2003703	B.Tech- ME	2023-2024
217	Mechanical Behavior of Material's	2003704	B.Tech- ME	2023-2024
218	Total Quality Management	2003705	B.Tech- ME	2023-2024
219	Automobile Engineering	2003706	B.Tech- ME	2023-2024
220	Additive Manufacturing	2003707	B.Tech- ME	2023-2024
221	Mechanical Vibrations	2003708	B.Tech- ME	2023-2024
222	Material Characterization	2003709	B.Tech- ME	2023-2024
223	Production and Operations Management	2003710	B.Tech- ME	2023-2024
224	Vehicle Diagnosis and Control	2003711	B.Tech- ME	2023-2024
225	Mechatronics & MEMS	2003712	B.Tech- ME	2023-2024
226	Design of Oil Hydraulics and Pneumatics	2003713	B.Tech- ME	2023-2024
227	Refrigeration & Air Conditioning	2003714	B.Tech- ME	2023-2024
228	Geometric dimension and Tolerances	2003715	B.Tech- ME	2023-2024
229	Advanced English Communication Skills	20246SC	B.Tech- ME	2023-2024
230	Full Internship/Project Work	2003801	B.Tech- ME	2023-2024
231	Introduction to Hybrid and	20OE301	B.Tech- ME	2022-2023



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S.No	Name of the Course	Course Code	Program Name	Year of Introduction
	Electric Vehicles			
232	Rapid Prototyping	20OE302	B.Tech- ME	2022-2023
233	Design for Manufacturing and Assembly	20OE303	B.Tech- ME	2022-2023
234	Energy Systems Engineering	20OE304	B.Tech- ME	2022-2023
235	Smart Materials	20OE305	B.Tech- ME	2022-2023
236	Automotive Electronics, Sensors & Drives	20OE306	B.Tech- ME	2022-2023
237	Robotics and Applications in Manufacturing	20OE307	B.Tech- ME	2022-2023
238	Sensors in Intelligent Manufacturing	20OE308	B.Tech- ME	2022-2023
239	Non-Conventional Sources of Energy	20OE309	B.Tech- ME	2022-2023
240	Supply Chain Management	20OE310	B.Tech- ME	2022-2023
241	Entrepreneurship	20OE311	B.Tech- ME	2023-2024
242	Solar Energy Systems	20OE312	B.Tech- ME	2023-2024
243	Internal Combustion Engine	20OE313	B.Tech- ME	2023-2024
244	Advanced Thermodynamics and Fluid Mechanics	2299101	M.Tech- RE	2022-2023
245	Introduction to Renewable Energy systems	2299102	M.Tech- RE	2022-2023
246	Hydrogen and Fuel Cell Technologies	2299103	M.Tech- RE	2022-2023
247	Wind Energy Technology	2299104	M.Tech- RE	2022-2023
248	Process Modeling and Simulation in Renewable Energy Systems-I	2299105	M.Tech- RE	2022-2023
249	Energy Storage Technology	2299106	M.Tech- RE	2022-2023
250	Energy Conservation by Waste Heat Recovery-I	2299107	M.Tech- RE	2022-2023
251	Developing Energy Efficiency and Renewable Energy Projects-I	2299108	M.Tech- RE	2022-2023
252	Fuels lab	2299109	M.Tech- RE	2022-2023
253	Solar lab	2299110	M.Tech- RE	2022-2023
254	Research Methodology & IPR	2299111	M.Tech- RE	2022-2023
255	Stress Management by Yoga	2270A07	M.Tech- RE	2022-2023
256	Energy Audit and Management	2299201	M.Tech- RE	2022-2023
257	Computational Fluid Dynamics	2299202	M.Tech- RE	2022-2023
258	Energy Storage Technology	2299203	M.Tech- RE	2022-2023
259	Energy Conservation by Waste Heat Recovery -II	2299204	M.Tech- RE	2022-2023
260	Developing Energy Efficiency and Renewable Energy Projects-II	2299205	M.Tech- RE	2022-2023
261	Hydrogen and Fuel Cell Technologies	2299206	M.Tech- RE	2022-2023



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262	Solar Energy Technology	2299207	M.Tech- RE	2022-2023
263	Process Modeling and Simulation in Renewable Energy Systems-II	2299208	M.Tech- RE	2022-2023
264	Wind energy lab	2299209	M.Tech- RE	2022-2023
265	Control systems and simulation lab	2299210	M.Tech- RE	2022-2023
266	Technical Seminar	2299211	M.Tech- RE	2022-2023
267	Sanskrit for Technical Knowledge	2270A08	M.Tech- RE	2022-2023
268	Pedagogy Studies	2270A09	M.Tech- RE	2022-2023
269	English for Research Paper Writing	2270A010	M.Tech- RE	2022-2023
270	Economics and Financing of Renewable Energy Systems	2299301	M.Tech- RE	2023-2024
271	Environmental Engineering and Pollution Control	2299302	M.Tech- RE	2023-2024
272	Fuels and Combustion Technology	2299303	M.Tech- RE	2023-2024
273	Electric Vehicle Technology	2299304	M.Tech- RE	2023-2024
274	Operations Research	2299305	M.Tech- RE	2023-2024
275	Composite Materials	2299306	M.Tech- RE	2023-2024
276	Dissertation Phase – 1	2299307	M.Tech- RE	2023-2024
277	Co-Curricular Activities	2299308	M.Tech- RE	2023-2024
278	Dissertation Phase - 2	2299401	M.Tech- RE	2023-2024
279	Network Analysis	2304204	B.Tech-ECE	2023-2024
280	Network Analysis and simulation lab	2304206	B.Tech-ECE	2023-2024
281	Special Functions and Complex Analysis	2021301	B.Tech-ECE	2021-2022
282	Signals and Systems	2004301	B.Tech-ECE	2021-2022
283	Digital System Design	2004302	B.Tech-ECE	2021-2022
284	Analog Circuits	2004303	B.Tech-ECE	2021-2022
285	Network Theory	2004304	B.Tech-ECE	2021-2022
286	Simulation Lab	2004305	B.Tech-ECE	2021-2022
287	Digital System Design Lab	2004306	B.Tech-ECE	2021-2022
288	Analog Circuits Lab	2004307	B.Tech-ECE	2021-2022
289	Python Programming(Skilled Course - I)	20SC308	B.Tech-ECE	2021-2022
290	Probability Theory & Stochastic Processes	2021403	B.Tech-ECE	2021-2022
291	Microprocessors and Microcontrollers	2004403	B.Tech-ECE	2021-2022
292	Electro Magnetic Waves and Transmission Lines	2004404	B.Tech-ECE	2021-2022
293	Linear and Digital IC Applications	2004405	B.Tech-ECE	2021-2022
294	Linear and Digital IC Applications Lab	2004406	B.Tech-ECE	2021-2022



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S.No	Name of the Course	Course Code	Program Name	Year of Introduction
295	Microprocessors and Microcontrollers Lab	2004407	B.Tech-ECE	2021-2022
296	LabView Programming Lab	2004408	B.Tech-ECE	2021-2022
297	PCB Design (Skilled Course –II)	20SC409	B.Tech-ECE	2021-2022
298	Digital Logic Design Lab	2004408	B.Tech-ECE	2021-2022
299	Embedded systems and IoT	2004501	B.Tech-ECE	2022-2023
300	Communication Systems	2004502	B.Tech-ECE	2022-2023
301	Optical Communication	2004506	B.Tech-ECE	2022-2023
302	Communication Systems Lab	2004507	B.Tech-ECE	2022-2023
303	Embedded systems and IoT lab	2004508	B.Tech-ECE	2022-2023
304	Introduction to Machine learning using Python	20SC509	B.Tech-ECE	2022-2023
305	Management Organizational behavior	20MC510	B.Tech-ECE	2022-2023
306	Community Service Project	2004510	B.Tech-ECE	2022-2023
307	Digital Signal Processing	2004601	B.Tech-ECE	2022-2023
308	Microwave Engineering	2004602	B.Tech-ECE	2022-2023
309	Control Systems	2004603	B.Tech-ECE	2022-2023
310	CMOS VLSI Design	2004604	B.Tech-ECE	2022-2023
311	Information Theory & Coding	2004605	B.Tech-ECE	2022-2023
312	Sensors and Actuators	2004606	B.Tech-ECE	2022-2023
313	Digital Signal Processing Lab	2004607	B.Tech-ECE	2022-2023
314	Microwave & Optical Communication Lab	2004608	B.Tech-ECE	2022-2023
315	VLSI Design Laboratory	2004609	B.Tech-ECE	2022-2023
316	Advanced English Communication lab	20SC610	B.Tech-ECE	2022-2023
317	Nano Electronics(PEC-III)	2004701	B.Tech-ECE	2023-2024
318	Digital Image and Video Processing(PEC-III)	2004702	B.Tech-ECE	2023-2024
319	Micro Electro-Mechanical Systems(PEC-III)	2004703	B.Tech-ECE	2023-2024
320	Wireless Communication(PEC-IV)	2004704	B.Tech-ECE	2023-2024
321	Low Power VLSI(PEC-V)	2004707	B.Tech-ECE	2023-2024
322	RADAR and Satellite Communication	2004709	B.Tech-ECE	2023-2024
323	Project Work/Internship	2004801	B.Tech-ECE	2023-2024
324	RTL Simulation and Synthesis With PLDs	2284101	M.Tech-ES & VLSI	2022-2023
325	Microcontrollers and Programmable Digital Signal Processors	2284102	M.Tech-ES & VLSI	2022-2023
326	Research methodology and IPR	2284103	M.Tech-ES & VLSI	2022-2023
327	Digital Signal and Image	2284105	M.Tech-ES & VLSI	2022-2023



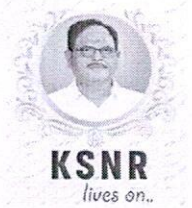
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	Processing(PE-1)			
328	Design for testability(PE-1)	2284110	M.Tech-ES & VLSI	2022-2023
329	Programming Languages for Embedded Systems(PE-II)	2284108	M.Tech-ES & VLSI	2022-2023
330	CPLD, FPGA Architectures and Applications(PE-III)	2284111	M.Tech-ES & VLSI	2022-2023
331	RTL Simulation and Synthesis with PLDs Lab	2284112	M.Tech-ES & VLSI	2022-2023
332	Microcontrollers and Programmable Digital Signal Processors Lab	2284113	M.Tech-ES & VLSI	2022-2023
333	Analog and Digital CMOS VLSI Design	2284201	M.Tech-ES & VLSI	2022-2023
334	Advanced Computer Architecture	2284204	M.Tech-ES & VLSI	2022-2023
335	Low Power VLSI Design	2284206	M.Tech-ES & VLSI	2022-2023
336	Network Security and Cryptography	2284208	M.Tech-ES & VLSI	2022-2023
337	Nano Electronics	2284210	M.Tech-ES & VLSI	2022-2023
338	Analog and Digital CMOS VLSI Design Lab	2284211	M.Tech-ES & VLSI	2022-2023
339	Real Time Operating Systems Lab	2284212	M.Tech-ES & VLSI	2022-2023
340	Technical Seminar	2284213	M.Tech-ES & VLSI	2022-2023
341	English for Research Paper Writing(AC)	2270A01	M.Tech-ES & VLSI	2022-2023
342	IOT and its Applications(PE-V)	2284212	M.Tech-ES & VLSI	2022-2023
343	RFIC Design(PE-V)	2270A01	M.Tech-ES & VLSI	2022-2023
344	Business Analytics(OEC)	2271305	M.Tech-ES & VLSI	2023-2024
345	Cost Management of Engineering Projects	2271308	M.Tech-ES & VLSI	2023-2024
346	Composite Materials	2271309	M.Tech-ES & VLSI	2023-2024
347	Waste to Energy	2271310	M.Tech-ES & VLSI	2023-2024
348	Dissertation Phase-I(PR)	2284311	M.Tech-ES & VLSI	2023-2024
349	Dissertation Phase II(PR)	2284401	M.Tech-ES & VLSI	2023-2024
350	Advanced Data Structures	2005302	B.Tech-CSE	2021-2022
351	Formal Languages & Automata Theory	2005303	B.Tech-CSE	2021-2022
352	Object Oriented Programming through JAVA	2005304	B.Tech-CSE	2021-2022
353	Data Base Management Systems	2005305	B.Tech-CSE	2021-2022
354	Advanced Data Structures Lab	2005306	B.Tech-CSE	2021-2022
355	JAVA Lab	2005307	B.Tech-CSE	2021-2022
356	Data Base Management Systems Lab	2005308	B.Tech-CSE	2021-2022
357	Exploring Data Analysis with R	2005309	B.Tech-CSE	2021-2022
358	Microprocessors &	2004401	B.Tech-CSE	2021-2022



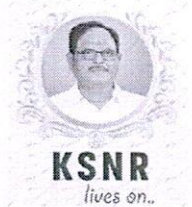
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	Microcontrollers			
359	Computer Organization	2005402	B.Tech-CSE	2021-2022
360	Principles of Operating Systems	2005403	B.Tech-CSE	2021-2022
361	Digital Logic Circuits & Design	2005404	B.Tech-CSE	2021-2022
362	Probability Theory & Statistical Methods	2021405	B.Tech-CSE	2021-2022
363	Microprocessors & Microcontrollers Lab	2004406	B.Tech-CSE	2021-2022
364	Principles of Operating Systems Lab	2005407	B.Tech-CSE	2021-2022
365	Digital Logic Design Lab	2005408	B.Tech-CSE	2021-2022
366	Software Engineering	2005501	B.Tech-CSE	2022-2023
367	Computer Networks	2005503	B.Tech-CSE	2022-2023
368	Data Structures (OEC-I)	20OE501	B.Tech-CSE	2022-2023
369	Database Management Systems (OEC-I)	20OE502	B.Tech-CSE	2022-2023
370	Web Technologies (PEC-I)	2005504	B.Tech-CSE	2022-2023
371	Multimedia Systems (PEC-I)	2005505	B.Tech-CSE	2022-2023
372	Distributed Systems (PEC-I)	2005506	B.Tech-CSE	2022-2023
373	DAA Lab	2005507	B.Tech-CSE	2022-2023
374	Professional Elective Course -I Lab	2005508	B.Tech-CSE	2022-2023
375	Advanced English & Communication Lab/Professional Communication Lab	20245SC	B.Tech-CSE	2022-2023
376	Community Service Project	2005510	B.Tech-CSE	2022-2023
377	Internet of Things	2005601	B.Tech-CSE	2022-2023
378	Data Mining	2005602	B.Tech-CSE	2022-2023
379	Cryptography & Network Security	2005603	B.Tech-CSE	2022-2023
380	Java Programming (OEC-II)	20OE503	B.Tech-CSE	2022-2023
381	Web Designing (OEC-II)	20OE504	B.Tech-CSE	2022-2023
382	Artificial Intelligence (PEC-II)	2005604	B.Tech-CSE	2022-2023
383	Software Testing (PEC-II)	2005605	B.Tech-CSE	2022-2023
384	Adhoc & Sensor Networks (PEC-II)	2005606	B.Tech-CSE	2022-2023
385	IOT Lab	2005607	B.Tech-CSE	2022-2023
386	Network Security Lab	2005609	B.Tech-CSE	2022-2023
387	Mobile Application Development	2005610	B.Tech-CSE	2022-2023
388	Management Organizational Behavior	20MC612	B.Tech-CSE	2022-2023
389	Compiler Design (PEC-III)	2005701	B.Tech-CSE	2023-2024
390	Computer Graphics (PEC-III)	2005702	B.Tech-CSE	2023-2024
391	Cyber Security (PEC-III)	2005703	B.Tech-CSE	2023-2024
392	Machine Learning (PEC-IV)	2005704	B.Tech-CSE	2023-2024



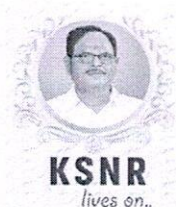
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S.No	Name of the Course	Course Code	Program Name	Year of Introduction
393	Object Oriented Analysis & Design (PEC-IV)	2005705	B.Tech-CSE	2023-2024
394	Natural Language Processing (PEC-IV)	2005706	B.Tech-CSE	2023-2024
395	Deep Learning (PEC-V)	2005708	B.Tech-CSE	2023-2024
396	Computer Vision (PEC-V)	2005709	B.Tech-CSE	2023-2024
397	Operating System (OEC-III)	200E505	B.Tech-CSE	2023-2024
398	R Programming (OEC-III)	200E506	B.Tech-CSE	2023-2024
399	Python Programming (OEC-IV)	200E507	B.Tech-CSE	2023-2024
400	Human Resource Development (Humanities & Social Science Elective)	2006701	B.Tech-CSE	2023-2024
401	Digital Marketing (Humanities & Social Science Elective)	2006702	B.Tech-CSE	2023-2024
402	Project Management (Humanities & Social Science Elective)	2006703	B.Tech-CSE	2023-2024
403	Big Data Technologies	2005710	B.Tech-CSE	2023-2024
404	Internship	2005711	B.Tech-CSE	2023-2024
405	Major Project/ Internship	2005801	B.Tech-CSE	2023-2024
406	Machine Learning	2298101	M.Tech-AI&DS	2022-2023
407	Artificial Intelligence	2298102	M.Tech-AI&DS	2022-2023
408	Big Data Analytics	2298103	M.Tech-AI&DS	2022-2023
409	Information retrieval	2298104	M.Tech-AI&DS	2022-2023
410	Natural Language Processing	2298105	M.Tech-AI&DS	2022-2023
411	Data Visualization Techniques	2298106	M.Tech-AI&DS	2022-2023
412	Distributed Systems	2298107	M.Tech-AI&DS	2022-2023
413	Medical Image Processing	2298108	M.Tech-AI&DS	2022-2023
414	AI & ML Lab	2298109	M.Tech-AI&DS	2022-2023
415	Research Methodology & IPR	2284103	M.Tech-AI&DS	2022-2023
416	English for Research Paper Writing	2270A01	M.Tech-AI&DS	2022-2023
417	Sanskrit for Technical Knowledge	2270A03	M.Tech-AI&DS	2022-2023
418	Values for Professional Ethics	2270A04	M.Tech-AI&DS	2022-2023
419	Pedagogy Studies	2270A06	M.Tech-AI&DS	2022-2023
420	Stress Management by Yoga	2270A07	M.Tech-AI&DS	2022-2023
421	Personality Development through Life Management Skills	2270A08	M.Tech-AI&DS	2022-2023
422	Data Science	2298201	M.Tech-AI&DS	2022-2023
423	Deep Learning	2298202	M.Tech-AI&DS	2022-2023
424	Block Chain Technology	2298203	M.Tech-AI&DS	2022-2023
425	Exploratory Data Analysis using R	2298204	M.Tech-AI&DS	2022-2023
426	Video Analytics	2298205	M.Tech-AI&DS	2022-2023
427	Text Mining & Time Series Data Analysis	2298206	M.Tech-AI&DS	2022-2023



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S.No	Name of the Course	Course Code	Program Name	Year of Introduction
428	Social Media Analysis	2298207	M.Tech-AI&DS	2022-2023
429	Artificial Intelligence in Cyber Security	2298208	M.Tech-AI&DS	2022-2023
430	Deep Learning Lab	2298209	M.Tech-AI&DS	2022-2023
431	Program Elective Course Lab	2298210	M.Tech-AI&DS	2022-2023
432	Technical seminar	2298211	M.Tech-AI&DS	2022-2023
433	Reinforcement Learning	2298301	M.Tech-AI&DS	2023-2024
434	Federated Machine Learning	2298302	M.Tech-AI&DS	2023-2024
435	Intrusion Detection Systems	2298303	M.Tech-AI&DS	2023-2024
436	Knowledge Engineering and Data Science	22OE981	M.Tech-AI&DS	2023-2024
437	Cloud Data Management	22OE982	M.Tech-AI&DS	2023-2024
438	Soft Computing	22OE983	M.Tech-AI&DS	2023-2024
439	Dissertation Phase – I	2298307	M.Tech-AI&DS	2023-2024
440	Co-curricular Activities	2298308	M.Tech-AI&DS	2023-2024
441	Dissertation Phase – II	2298401	M.Tech-AI&DS	2023-2024
442	Probability and Optimization	2021303	B.Tech-AI&ML	2022-2023
443	Discrete Mathematics & Graph Theory	2039302	B.Tech-AI&ML	2022-2023
444	Digital Systems and Computer Organization	2039303	B.Tech-AI&ML	2022-2023
445	Introduction to Artificial Intelligence	2039304	B.Tech-AI&ML	2022-2023
446	RDBMS	2039305	B.Tech-AI&ML	2022-2023
447	MAT Lab Programming	2039306	B.Tech-AI&ML	2022-2023
448	Digital Systems and Computer Organization Lab	2039307	B.Tech-AI&ML	2022-2023
449	RDBMS Lab	2039308	B.Tech-AI&ML	2022-2023
450	Exploratory Data Analysis with R	2039309	B.Tech-AI&ML	2022-2023
451	Operating Systems	2039403	B.Tech-AI&ML	2022-2023
452	Data Science	2039404	B.Tech-AI&ML	2022-2023
453	Business Intelligence Analyst	2039405	B.Tech-AI&ML	2022-2023
454	Operating Systems Lab	2039406	B.Tech-AI&ML	2022-2023
455	Data Science Lab	2039407	B.Tech-AI&ML	2022-2023
456	Data Mining & Data Warehousing	2039501	B.Tech-AI&ML	2023-2024
457	Automata Theory & Compiler Design	2039502	B.Tech-AI&ML	2023-2024
458	Big Data Engineer (IBM)	2039503	B.Tech-AI&ML	2023-2024
459	Computer Networks	2039504	B.Tech-AI&ML	2023-2024
460	Image Processing	2039505	B.Tech-AI&ML	2023-2024
461	Web Technologies	2039506	B.Tech-AI&ML	2023-2024
462	OOP through C++	20OE3902	B.Tech-AI&ML	2023-2024
463	Big Data Engineer Lab (IBM)	2039507	B.Tech-AI&ML	2023-2024
464	Mobile App Development	2039509	B.Tech-AI&ML	2023-2024



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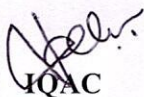
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S.No	Name of the Course	Course Code	Program Name	Year of Introduction
465	Environmental Science	20MC511	B.Tech-AI&ML	2023-2024
466	Community Service Project	2039510	B.Tech-AI&ML	2023-2024
467	Deep Learning	2039601	B.Tech-AI&ML	2023-2024
468	Software Engineering	2039602	B.Tech-AI&ML	2023-2024
469	Predictive Analytics Modeler (IBM)	2039603	B.Tech-AI&ML	2023-2024
470	Cryptography and Network Security	2039604	B.Tech-AI&ML	2023-2024
471	Computational Intelligence	2039606	B.Tech-AI&ML	2023-2024
472	Principles of Operating Systems	20OE3903	B.Tech-AI&ML	2023-2024
473	Data Base Management Systems	20OE3904	B.Tech-AI&ML	2023-2024
474	Software Engineering Lab	2039607	B.Tech-AI&ML	2023-2024
475	Predictive Analytics Modeler Lab (IBM)	2039608	B.Tech-AI&ML	2023-2024
476	Deep Learning Lab	2039609	B.Tech-AI&ML	2023-2024
477	Soft Skills Lab	2024654	B.Tech-AI&ML	2023-2024


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