



MOHAMED SATHAK A J COLLEGE OF ENGINEERING

(Approved by All India Council for Technical Education,
New Delhi and affiliated to Anna University, Chennai)
Siruseri IT Park, Egattur, Chennai - 603 103.

1.1 List of courses offered across all programs during last five years

Academic Year 2019-20

S.No	Program code	Program Name	Course code	Course Name	Sem	Year of introduction
COMMON COURSES						
1	103, 104, 105, 106, 114, 205	UG - CIVIL,CSE, EEE, ECE, MECH & IT	HS8151	Communicative English	1	2017
2	103, 104, 105, 106, 114, 205	UG - CIVIL,CSE, EEE, ECE, MECH & IT	MA8151	Engineering Mathematics I	1	2017
3	103, 104, 105, 106, 114, 205	UG - CIVIL,CSE, EEE, ECE, MECH & IT	PH8151	Engineering Physics	1	2017
4	103, 104, 105, 106, 114, 205	UG - CIVIL,CSE, EEE, ECE, MECH & IT	CY8151	Engineering Chemistry	1	2017
5	103, 104, 105, 106, 114, 205	UG - CIVIL,CSE, EEE, ECE, MECH & IT	GE8151	Problem Solving and Python Programming	1	2017
6	103, 104, 105, 106, 114, 205	UG - CIVIL,CSE, EEE, ECE, MECH & IT	GE8152	Engineering Graphics	1	2017
7	103, 104, 105, 106, 114, 205	UG - CIVIL,CSE, EEE, ECE, MECH & IT	HS8251	Technical English	2	2017
8	103, 104, 105, 106, 114, 205	UG - CIVIL,CSE, EEE, ECE, MECH & IT	MA8251	Engineering Mathematics - II	2	2017
9	114, 103	UG-MECH	PH8251	Material science	2	2017
10	104, 205	UG - CSE & IT	PH8252	Physics for Information Science	2	2017
11	105, 106	UG - EEE & ECE	PH8253	Physics for electronics engineering	2	2017
12	104, 205	UG - CSE & IT	BE8255	Basic Electrical, Electronics and Measurement, Engineering	2	2017

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13	103, 104, 105, 106, 114, 205	UG - CIVIL,CSE, EEE, ECE, MECH & IT	GE8291	Environmental Science and Engineering	2, 4	2017
14	103, 114, 145	UG - CIVIL, MECH	GE8292	Engineering Mechanics	2	2017
15	104, 205	UG - CSE & IT	CS8251	Programming in C	2	2017
16	114	UG- MECH	BE8261	Basic Electrical, Electronics and Measurement, Engineering	2	2017
17	104, 105, 106, 114, 145, 205	UG - CSE, EEE, ECE, MECH, MSE & IT	GE6757	Total Quality Management	8	2017
18	104,105, 114, 205	UG - CSE, EEE, MECH & IT	GE6075	Professional Ethics In Engineering - ELETIVE	8	2017
19	103, 105, 114	UG - CIVIL, EEE, MECH	MA8353	TRANSFORMS AND PARTIAL DIFFERENTIAL EQUATION	3	2017
20	103, 104, 105, 106, 114, 205	UG - CIVIL,CSE, EEE, ECE, MECH & IT	GE6351	ENVIRONMENTAL SCIENCE AND ENGINEERING	3	2013
21	103, 105	UG - CIVIL, EEE	MA8491	NUMERICAL METHODS	4	2017
22	105, 114	UG - EEE, MECH	ME8792, ME6701	POWERPLANT ENGG	3,7	2017, 2013
23	104, 205	UG-CSE &IT	MA8351	Discrete Mathematics	3	2017
24	104, 205	UG-CSE &IT	CS8351	Digital Principles and SYSTEM DESIGN	3	2017
25	104, 205	UG-CSE &IT	CS8391	Data Structures	3	2017
26	103, 205, 106, 105	UC-CSE,IT, ECE & EEE	CS8392	Object Oriented Programming	(CSE,IT)3, (ECE, EEE)5	2017

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27	104, 205	UG-CSE &IT	CS8491	Computer Architecture	4	2017
28	104, 205	UG-CSE &IT	CS8492	Database Management Systems	4	2017
29	104, 205	UG-CSE &IT	CS8451	Design and Analysis of algorithm	4	2017
30	104, 205	UG-CSE &IT	CS8493	Operating Systems	4	2017
31	104, 205	UG-CSE &IT	CS8494	Software Engineering	4,5	2017
32	114	UG-MECH	CE8395	Strength of Materials for Mechanical Engineers	3	2017
33	145, 114, 103, 106	UG-MS, MECH, CIVIL & ECE	OR0551	RENEWABLE ENERGY SOURCES OPEN ELECTIVE 1	5	2017
34	104, 205	UG-CSE &IT	MA8551	Algebra and Number theory	5	2017
35	104, 205	UG-CSE &IT	CS8591	Computer Networks	5	2017
36	104, 205, 106	UG - CSE, IT & ECE	EC8691	Microprocessors and microcontroller	5, 6	2017
37	104, 205	UG-CSE &IT	CS8592	Object Oriented Analysis and Design	5, 6	2017
38	104, 205	UG-CSE &IT	OCX752	ENERGY TECHNOLOGY (OPEN ELECTIVE-I)	5	2017
39	145	UG-MSE	GE8077	Total Quality Management	6	2017
40	104, 205	UG-CSE &IT	IT8076	SOFTWARE TESTING -ELECTIVE I	6	2017

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41	105, 106, 104, 205, 114	UG- EEE, ECE, CSE, IT & MECH	MG8591	Principles of Management	5, 6, 7, 8	2017
42	104, 205, 103, 105, 106, 205, 145	UG-CSE, IT, CIVIL, EEE, ECE & MECH, MS	HS8581	Professional communication	5, 6	2017
43	104, 205	UG-CSE &IT	CS6701	Cryptography and Network Security	7	2013
44	104, 205	UG-CSE &IT	CS6703	Grid and cloud Computing	7	2013
45	106, 205	UG - ECE & IT	EC6801	Wireless Communication	8	2013
46	104, 205	UG-CSE &IT	CS6003	Ad hoc and Sensor Networks - Elective II	7	2013
47	104 , 205	UG-CSE &IT	CS6008	Human Computer Interaction - Elective IV	8	2013
B.E AERONAUTICAL ENGINEERING						
49	101	UG-AE	ME6014	Computational Fluid Dynamics	7	2013
50	101	UG-AE	AE6702	Experimental Stress Analysis	7	2013
51	101	UG-AE	GE6083	Disaster Management	7	2013
52	101	UG-AE	AE6010	Airframe Maintenance and Repair	7	2013
53	101	UG-AE	AE6801	Wind Tunnel Techniques	8	2013
54	101	UG-AE	AE6015	Rockets and Missiles - Elective	8	2013
B.E CIVIL ENGINEERING						

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56	103	UG-CIVIL	BE8251	Basic electrical and electronics Engineering	2	2017
57	103	UG-CIVIL	CE8301	strength of material I	3	2017
58	103	UG-CIVIL	CE8302	fluid mechanics	3	2017
59	103	UG-CIVIL	CE8351	SURVEYING	3	2017
60	103	UG-CIVIL	CE8391	CONSTRUCTION MATERIALS	3	2017
61	103	UG-CIVIL	CE8392	ENGINEERING GEOLOGY	3	2017
62	103	UG-CIVIL	CE8401	Construction Techniques and Practices	4	2017
63	103	UG-CIVIL	CE8402	Strength of Materials II	4	2017
64	103	UG-CIVIL	CE8403	Applied Hydraulic Engineering	4	2017
65	103	UG-CIVIL	CE8404	Concrete Technology	4	2017
66	103	UG-CIVIL	CE8491	Soil Mechanics	4	2017
67	103	UG-CIVIL	CE8501	Design of Reinforced Cement Concrete Elements	5	2017
68	103	UG-CIVIL	CE8502	Structural Analysis I	5	2017
69	103	UG-CIVIL	EN8491	Water Supply Engineering	5	2017

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70	103	UG-CIVIL	CE8591	Foundation Engineering	5	2017
71	103	UG-CIVIL	GE8071	DISASTER MANAGEMENT	5	2017
72	103	UG-CIVIL	CE8601	Design of Steel Structural Elements	6	2017
73	103	UG-CIVIL	CE8602	Structural Analysis II	6	2017
74	103	UG-CIVIL	CE8603	Irrigation Engineering	6	2017
75	103	UG-CIVIL	CE8604	Highway Engineering	6	2017
76	103	UG-CIVIL	EN8592	Wastewater Engineering	6	2017
77	103	UG-CIVIL	CE8004	Urban Planning and Development Elective-II	6	2017
78	103	UG-CIVIL	CE6701	Structural Dynamics and Earthquake Engineering	7	2013
79	103	UG-CIVIL	CE6702	Prestressed Concrete Structures	7	2013
80	103	UG-CIVIL	CE6703	Water Resources and Irrigation Engineering	7	2013
81	103	UG-CIVIL	CE6704	Estimation and Quantity Surveying	7	2013
82	103	UG-CIVIL	CE6006	Traffic Engineering and Management - Elective	7	2013
83	103	UG-CIVIL	EN6501	Municipal Solid Waste Management - Elective III	7	2013

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84	103	UG-CIVIL	CE6016	Prefabricated Structures - Elective	8	2013
85	103	UG-CIVIL	CE6021	Repair and Rehabilitation of Structures -Elective	8	2013
B.E COMPUTER SCIENCE AND ENGINEERING						
86	104	UC-CSE	EC8395	Communication Engineering	3	2017
87	104	UC-CSE	MA8402	Probability and Queueing theory	4	2017
88	104	UC-CSE	CS8501	Theory of Computation	5	2017
89	104	UC-CSE	CS8651	Internet Programming	6	2017
90	104	UC-CSE	CS8691	Artificial Intelligence	6	2017
91	104	UC-CSE	CS8601	Mobile Computing	6	2017
92	104	UC-CSE	CS8602	Compiler Design	6	2017
93	104	UC-CSE	CS8603	Distributed Systems	6	2017
94	104	UC-CSE	CS6007	Information Retrieval - Elective III	7	2013
95	104	UC-CSE	CS6702	Graph Theory and Applications	7	2013
96	104	UC-CSE	CS6704	Graph Theory and Applications	7	2013
97	104	UG-CSE	CS6801	Multi-Core Architectures and Programming	8	2013
B.E ELECTRICAL AND ELECTRONICS ENGINEERING						


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98	105	UG-EEE	EE8251	Circuit Theory	2	2017
99	105	UG-EEE	BE8252	Basic Civil and Mechanical Engineering	2	2017
100	105	UG-EEE	EE8351	Digital Logic Circuits	3	2017
101	105	UG-EEE	EE8391	Electromagnetic Theory	3	2017
102	105	UG-EEE	EE8301	Electrical Machines - I	3	2017
103	105	UG-EEE	EC8353	Electron Devices and Circuits	3	2017
104	105	UG-EEE	EE8401	Electrical Machines - II	4	2017
105	105	UG-EEE	EE8402	Transmission and distribution	4	2017
106	105	UG-EEE	EE8403	Measurements and Instrumentation	4	2017
107	105	UG-EEE	EE8451	Linear Integrated circuits and applications	4	2017
108	105	UG-EEE	IC8451	Control Systems	4	2017
109	105	UG-EEE	EE8501	Power System Analysis	5	2017
110	105	UG-EEE	EE8551	Microprocessors and Microcontrollers	5	2017
111	105	UG-EEE	EE8552	Power Electronics	5	2017

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112	105	UG-EEE	EE8591	Digital Signal processing	5	2017
113	105	UG-EEE	OMD551	Basics of Biomedical Instrumentation Elective-I (Open)	5	2017
114	105	UG-EEE	EE8601	Solid State Drives	6	2017
115	105	UG-EEE	EE8602	Protection and Switchgear	6	2017
116	105	UG-EEE	EE8691	Embedded Systems	6	2017
117	105	UG-EEE	EE8002	Design Of Electrical Apparatus Elective I	6	2017
118	105	UG-EEE	EE8005	Special Electrical Machines Elective II	6	2017
119	105	UG-EEE	EE6701	High Voltage Engineering	7	2013
120	105	UG-EEE	EE6702	Protection and Switchgear	7	2013
121	105	UG-EEE	EE6703	Special Electrical Machines	7	2013
122	105	UG-EEE	EE6005	Power Quality (Elective - II)	7	2013
123	105	UG-EEE	EE6008	Microcontroller Based System Design (E - III)	7	2013
124	105	UG-EEE	EE6801	Electric Energy Generation, Utilization and Conservation	8	2013
125	105	UG-EEE	EE6009	Power Electronics for Renewable Energy Systems (Elective - IV)	8	2013
B.E ELECTRONICS AND COMMUNICATION ENGINEERING						


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126	106	UG-ECE	EC8252	Electronic Devices	2	2017
127	106	UG-ECE	EC 8251	Circuit Analysis	2	2017
128	106	UG-ECE	BE8254	Basic Electrical and Instrumentation Engineering	2	2017
129	106	UG-ECE	MA8352	Linear Algebra and Partial Differential Equation	3	2017
130	106	UG-ECE	EC8393	Fundamentals of Data Structures In C	3	2017
131	106	UG-ECE	EC8351	Electronic Circuits- I	3	2017
132	106	UG-ECE	EC8352	Signals and Systems	3	2017
133	106	UG-ECE	EC8392	Digital Electronics	3	2017
134	106	UG-ECE	EC8391	Control Systems engineering	3	2017
135	106	UG-ECE	MA8451	Probability and Random process	4	2017
136	106	UG-ECE	EC8452	Electronic Circuits II	4	2017
137	106	UG-ECE	EC8491	Communication Theory	4	2017
138	106	UG-ECE	EC8451	Electromagnetic Fields	4	2017
139	106	UG-ECE	EC8453	Linear Integrated Circuits	4	2017

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140	106	UG-ECE	EC8501	Digital Communication	5	2017
141	106	UG-ECE	EC8553	Discrete-Time Signal Processing	5	2017
142	106	UG-ECE	EC8552	Computer Architecture and Organization	5	2017
143	106	UG-ECE	EC8551	Communication Networks	5	2017
144	106	UG-ECE	EC8073	Medical Electronics PE1	5	2017
145	106	UG-ECE	EC8095	VLSI Design	6	2017
146	106	UG-ECE	EC8652	Wireless Communication	6	2017
147	106	UG-ECE	EC8651	Transmission Lines and RF Systems	6	2017
148	106	UG-ECE	EC8002	Multimedia Compression And Communication PE2	6	2017
149	106	UG-ECE	EC6701	RF and Microwave Engineering	7	2013
150	106	UG-ECE	EC6702	Optical Communication and Networks	7	2013
151	106	UG-ECE	EC6703	Embedded and Real Time Systems	7	2013
152	106	UG-ECE	IT6005	Digital Image Processing - ELECTIVE II	7	2013
153	106	UG-ECE	EC6007	Speech Processing - ELECTIVE III	7	2013

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154	106	UG-ECE	EC6015	Radar and Navigational Aids - ELECTIVE IV	7	2013
155	106	UG-ECE	EC6801	Wireless Communication	8	2013
156	106	UG-ECE	EC6802	Wireless Networks	8	2013
157	106	UG-ECE	EC6018	Multimedia Compression And Communication Elective V	8	2013
B.E MECHANICAL ENGINEERING						
158	114	UG-MECH	BE8253	Basic Electrical, Electronics, and Instrumentation Engineering	2	2017
159	114	UG-MECH	ME8391	Engineering Thermodynamics	3	2017
160	114	UG-MECH	CE8394	Fluid Mechanics and Machinery	3	2017
161	114	UG-MECH	ME8351	Manufacturing Technology - I	3	2017
162	114	UG-MECH	EE8353	Electrical Drives and Controls	3	2017
163	114	UG-MECH	MA8452	Statistics and Numerical Methods	4	2017
164	114	UG-MECH	ME8492	Kinematics of Machinery	4	2017
165	114	UG-MECH	ME8451	Manufacturing Technology - II	4	2017
166	114	UG-MECH	ME8491	Engineering Metallurgy	4	2017
167	114	UG-MECH	ME8493	Thermal Engineering- I	4	2017

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168	114	UG - MECH	ME8595	Thermal Engineering- II	5	2017
169	114	UG - MECH	ME8593	Design of Machine Elements	5	2017
170	114	UG - MECH	ME8501	Metrology and Measurements	5	2017
171	114	UG - MECH	ME8594	Dynamics of Machines	5	2017
172	114	UG - MECH	ME8651	Design of Transmission Systems	6	2017
173	114	UG - MECH	ME8691	Computer Aided Design and Manufacturing	6	2017
174	114	UG - MECH	ME8693	Heat and Mass Transfer	6	2017
175	114	UG - MECH	ME8692	Finite Element Analysis	6	2017
176	114	UG - MECH	ME8694	Hydraulics and Pneumatics	6	2017
177	114	UG - MECH	ME8091	AUTOMOBILE ENGINEERING PE1	6	2017
178	114	UG - MECH	ME8682	Design and Fabrication Project	6	2017
179	114	UG-MECH	ME6702	Mechatronics	7	2013
180	114	UG-MECH	ME6703	Computer Integrated Manufacturing Systems	7	2013
181	114	UG-MECH	ME6008	Welding Technology Elective II	7	2013

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182	114	UG-MECH	ME6012	Maintenance Engineering Elective III	7	2013
183	114	UG-MECH	ME6713	Comprehension	7	2013
184	114	UG-MECH	MG6863	Engineering Economics	8	2013
185	114	UG-MECH	IE6605	Production Planning & Control Elective IV	8	2013
186	114	UG-MECH	ME6019	Non-Destructive Testing and Materials Elective V	8	2013
B.TECH INFORMATION TECHNOLOGY						
187	205	UG-IT	IT8201	Information Technology Essentials	2	2017
188	205	UG-IT	EC8394	Analog and Digital Communication	3	2017
189	205	UG-IT	MA8391	Probability and Statistics	3	2017
190	205	UG-IT	IT8501	Web Technology	5	2017
191	205	UG-IT	IT8601	Computational Intelligence	6	2017
192	205	UG-IT	IT8602	Mobile Communication	6	2017
193	205	UG-IT	CS8091	Big Data Analytics	6	2017
194	205	UG-IT	CS8092	Computer Graphics and Multimedia	6	2017
195	205	UG-IT	IT6701	Information Mangement	7	2013

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196	205	UG-IT	IT6702	Data Ware Housing and Data Mining	7	2013
197	205	UG-IT	IT6004	Software Testing	7	2013
198	205	UG-IT	MG6088	Software Project Management	8	2013
199	205	UG-IT	IT6010	Business Intelligence	8	2013
200	205	UG-IT	IT6801	Service Oriented Architecture	8	2013
B.E MATERIAL SCIENCE AND ENGINEERING						
201	145	UG-MSE	ML8501	Theory and Applications of Metal Forming	5	2017
202	145	UG-MSE	ML8502	Material Aspects in Design	5	2017
203	145	UG-MSE	ML8503	Characterization of Materials	5	2017
204	145	UG-MSE	ML8504	Heat Treatment of Metals and Alloys	5	2017
205	145	UG-MSE	ML8505	Ceramics and Refractory Materials	5	2017
206	145	UG-MSE	ML8601	Polymer Process Engineering	6	2017
207	145	UG-MSE	ML8602	Composite Materials	6	2017
208	145	UG-MSE	MG8691	Industrial Management	6	2017
209	145	UG-MSE	ML8603	Welding Metallurgy	6	2017

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210	145	UG-MSE	ML8604	Non Destructive Materials of Evaluation	6	2017
211	145	UG-MSE	ML8001	Modern Manufacturing Process	6	2017
212	145	UG-MSE	ML6701	Computer Applications in Materials Science	7	2013
213	145	UG-MSE	ML6702	Non Destructive Materials Evaluation	7	2013
214	145	UG-MSE	ML6703	Nanostructured Materials	7	2013
215	145	UG-MSE	ML6006	Ceramics and Refractory Materials	7	2013
216	145	UG-MSE	ML6010	Fuel, Furnaces and Refractories	7	2013
217	145	UG-MSE	ML6013	Engineering Economics and Cost Estimation	8	2013
218	145	UG-MSE	ML6016	Energy Storage Devices and Fuel Cells	8	2013
M.E STRUCTURAL ENGINEERING						
219	413	M.E - STRUCTURAL ENGINEERING	ST5301	Earthquake Analysis and Design of Structures	3	2017
220	413	M.E - STRUCTURAL ENGINEERING	ST5014	Design of Steel Concrete Composite Structures	3	2017
221	413	M.E - STRUCTURAL ENGINEERING	ST5015	Design of Bridges	3	2017
M.E COMPUTER SCIENCE AND ENGINEERING						
222	405	ME-CSE	MA5160	Applied Probability and Statistics	1	2017
223	405	ME-CSE	CP5151	Advanced Data Structures and Algorithms	1	2017

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224	405	ME-CSE	CP5152	Advanced Computer Architecture	1	2017
225	405	ME-CSE	CP5153	Operating System Internals	1	2017
226	405	ME-CSE	CP5154	Advanced Software Engineering	1	2017
227	405	ME-CSE	CP5191	Machine Learning Techniques	1	2017
228	405	ME-CSE	CP5201	Network Design and Technologies	2	2017
229	405	ME-CSE	CP5291	Security Practices	2	2017
230	405	ME-CSE	CP5292	Internet of Things	2	2017
231	405	ME-CSE	CP5293	Big Data Analytics	2	2017
232	405	ME-CSE	CP5001	Principles of Programming Languages	2	2017
233	405	ME-CSE	CP5072	Software Architectures and Design	2	2017
M.E THERMAL ENGINEERING						
234	414	M.E- Thermal Engineering	TE5301	Design and Optimization of Thermal Energy Systems	3	2017
235	414	M.E- Thermal Engineering	TE5010	Cogeneration and Waste Heat Recovery Systems	3	2017
236	414	M.E- Thermal Engineering	TE5074	Advanced Power Plant Engineering	3	2017
M.E VLSI DESIGN						
237	419	M.E VLSI DESIGN	VL5301	Analog to Digital Interfaces	3	2017


PRINCIPAL

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New Delhi and affiliated to Anna University, Chennai)
Siruseri IT Park, Egattur, Chennai - 603 103.

238	419	M.E VLSI DESIGN	AP5292	Digital Image Processing	3	2017
239	419	M.E VLSI DESIGN	AP5291	Hardware – Software Co-Design	3	2017

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