



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 2016-17

S.No	Program code	Program Name	Course code	Course Name	Sem	Year of introduction
COMMON COURSES						
1	101, 103, 104, 105, 106, 114, 205 & 145	UG-AE, CIVIL, CSE, EEE, ECE, MECH, IT & MSE	HS6151	Technical English – I	1	2013
2	101, 103, 104, 105, 106, 114, 205 & 145	UG-AE, CIVIL, CSE, EEE, ECE, MECH, IT & MSE	MA6151	Mathematics – I	1	2013
3	101, 103, 104, 105, 106, 114, 205 & 145	UG-AE, CIVIL, CSE, EEE, ECE, MECH, IT & MSE	PH6151	Engineering Physics – I	1	2013
4	101, 103, 104, 105, 106, 114, 205 & 145	UG-AE, CIVIL, CSE, EEE, ECE, MECH, IT & MSE	CY6151	Engineering Chemistry – I	1	2013
5	101, 103, 104, 105, 106, 114, 205 & 145	UG-AE, CIVIL, CSE, EEE, ECE, MECH, IT & MSE	GE6151	Computer Programming	1	2013
6	101, 103, 104, 105, 106, 114, 205 & 145	UG-AE, CIVIL, CSE, EEE, ECE, MECH, IT & MSE	GE6152	Engineering Graphics	1	2013
7	101, 103, 104, 105, 106, 114, 205 & 145	UG-AE, CIVIL, CSE, EEE, ECE, MECH, IT & MSE	HS6251	Technical English – II	2	2013
8	101, 103, 104, 105, 106, 114, 205 & 145	UG-AE, CIVIL, CSE, EEE, ECE, MECH, IT & MSE	MA6251	Mathematics – II	2	2013
9	101, 103, 104, 105, 106, 114, 205 & 145	UG-AE, CIVIL, CSE, EEE, ECE, MECH, IT & MSE	PH6251	Engineering Physics – II	2	2013
10	101, 103, 104, 105, 106, 114, 205 & 145	UG-AE, CIVIL, CSE, EEE, ECE, MECH, IT & MSE	CY6251	Engineering Chemistry – II	2	2013
11	103, 114 145	UG - CIVIL, MECH, MSE	GE6252	Basic Electrical and Electronics Engineering	2	2013
12	103, 114 145	UG - CIVIL, MECH, MSE	GE6253	Engineering Mechanics	2	2013

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13	105	UG - EEE	GE6251	Basic Civil and Mechanical Engineering	2	2013
14	105, 106	UG - EEE, ECE	EE6201	Circuit Theory	2	2013
15	106	UG - ECE	EC6201	Electronic Devices	2	2013
16	104, 205	UG - CSE,IT,	CS6201	Digital Principles and System Design	2	2013
17	104, 205	UG - CSE,IT,	CS6202	Programming and Data Structures I	2	2013
18	101, 114	UG-AE, MECH	CE6451	Fluid Mechanics and Machinery	3	2013
19	101, 103, 104, 105, 106, 205, 114 & 145	UG- AERO, CIVIL, CSE, EEE, ECE, IT, MECH & MS	MA6351	Transforms and Partial Differential Equations	3	2013
20	114, 145	UG-MECH, MSE	CE6306	Strength of Materials	3	2013
21	104, 205	UG-CSE, IT	CS6301	Programming and Data Structure II	3	2013
22	104, 205	UG-CSE, IT	CS6302	Database Management Systems	3	2013
23	104, 106, 205	UG-CSE, ECE, IT	CS6303	Computer Architecture	3	2013
24	101, 103, 104, 105, 106, 114, 145 & 205	AERO, CIVIL, CSE, EEE, ECE, MECH, MSE & IT	GE6351	Environmental Science and Engineering	3	2013
25	104, 106, 145	UG-CSE, ECE, IT	CS6304	Analog and Digital Communication	3	2013
26	104, 205	UG-CSE, IT	MA6453	Probability and Queueing Theory	4	2013

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27	103, 105	UG- AERO, CIVIL, EEE	MA6459	Numerical Methods	4	2013
28	104, 205	UG-CSE, IT	CS6402	Design and Analysis of Algorithms	4	2013
29	104, 205	UG-CSE, IT	CS6401	Operating Systems	4	2013
30	104, 205	UG-CSE, IT	CS6403	Software Engineering	4	2013
31	114, 145	UG-MECH, MSE	ME6504	Metrology and Measurements	5, 4	2013
32	104, 205	UG-CSE, IT	CS6502	Object Oriented Analysis and Design	5	2013
33	104, 106, 205	UG-CSE, ECE, IT	CS6551	Computer Networks	5	2013
34	104, 106, 205	UG-CSE, ECE, IT	EC6504	Microprocessor and Microcontroller	5	2013
35	104, 106, 205	UG-CSE, ECE, IT	IT6502	Digital Signal Processing	5	2013
36	101, 104, 106, 114, 145	UG - AE, CSE, ECE, MECH & MSE	GE6757	Total Quality Management	7,6, 6, 7,	2013
37	104, 205	UG-CSE, IT	CS6601	Distributed Systems	6	2013
38	104, 205	UG-CSE, IT	IT6601	Mobile Computing	6	2013
39	104, 205	UG-CSE, IT	CS6660	Compiler Design	6	2013
40	104, 205	UG-CSE, IT	CS6659	Artificial Intelligence	6	2013
41	104, 205	UG-CSE, IT	IT6602	Software Architectures	6	2013

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42	104, 205	UG-CSE, IT	CS6701	Cryptography and Network Security	7	2013
43	105, 114	UG-EEE, MECH	ME6701	Power Plant Engineering	7	2013
44	104, 205	UG-CSE & IT	CS6703	Grid and Cloud Computing -	7	2013
45	103, 105, 205 & 114	UG - CSE, EEE, IT & MECH	GE6075	Professional Ethics in Engineering	8,5,5	2013
46	106, 205	UG-ECE & IT	EC6801	Wireless Communication -	8	2013
47	101, 103, 105, 106, 114	UG-AE, CIVIL, EEE, ECE, MECH	MG6851	Principles of Management	6, 8	2013
48	104, 205	UG- CSE, IT	IT6011	KNOWLEDGE MANAGEMENT - E5	8	2013
B.E AERONAUTICAL ENGINEERING						
49	101	UG-AE	ME6352	Manufacturing Technology	3	2013
50	101	UG-AE	AE6301	Aero Engineering Thermodynamics	3	2013
51	101	UG-AE	CE6452	Solid Mechanics	3	2013
52	101	UG-AE	AE6302	Elements of Aeronautics	3	2013
53	101	UG-AE	AT6302	Mechanics of Machines	3	2013
54	101	UG-AE	AE6401	Aerodynamics - I	4	2013
55	101	UG-AE	AE6402	Aircraft Systems and Instruments	4	2013

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56	101	UG-AE	AE6403	Aircraft Structures - I	4	2013
57	101	UG-AE	AE6404	Propulsion - I	4	2013
58	101	UG-AE	AE6501	Flight Dynamics	5	2013
59	101	UG-AE	AE6502	Aircraft Structures - II	5	2013
60	101	UG-AE	AE6503	Aerodynamics - II	5	2013
61	101	UG-AE	AE6504	Propulsion - II	5	2013
62	101	UG-AE	AE6505	Control Engineering	5	2013
63	101	UG-AE	AE6601	Finite Element Methods	6	2013
64	101	UG-AE	AE6602	Vibrations and Elements of Aeroelasticity	6	2013
65	101	UG-AE	AE6603	Composite Materials and Structures	6	2013
66	101	UG-AE	AE6604	Aircraft Materials and Processes	6	2013
67	101	UG-AE	AE6002	Aircraft General Engineering and Maintenance Practices	6	2013
68	101	UG-AE	AE6701	Avionics	7	2013
69	101	UG-AE	ME6014	Computational Fluid Dynamics	7	2013
70	101	UG-AE	AE6702	Experimental Stress Analysis	7	2013

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71	101	UG-AE	GE6083	Disaster Management	7	2013
72	101	UG-AE	AE6010	Airframe Maintenance and Repair	7	2013
73	101	UG-AE	AE6801	Wind Tunnel Techniques	8	2013
74	101	UG-AE	AE6015	Rockets and Missiles - Elective	8	2013
B.E CIVIL ENGINEERING						
75	103	UG-CIVIL	CE6301	Engineering Geology	3	2013
76	103	UG-CIVIL	CE6302	Mechanics of Solids	3	2013
77	103	UG-CIVIL	CE6303	Mechanics of Fluids	3	2013
78	103	UG-CIVIL	CE6304	Surveying I	3	2013
79	103	UG-CIVIL	CE6401	Construction Materials	4	2013
80	103	UG-CIVIL	CE6402	Strength of Materials	4	2013
81	103	UG-CIVIL	CE6403	Applied Hydraulic Engineering	4	2013
82	103	UG-CIVIL	CE6404	Surveying II	4	2013
83	103	UG-CIVIL	CE6405	Soil Mechanics	4	2013
84	103	UG-CIVIL	CE6413	Survey Practical II	4	2013

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85	103	UG-CIVIL	CE6501	Structural Analysis I	5	2013
86	103	UG-CIVIL	CE6502	Foundation Engineering	5	2013
87	103	UG-CIVIL	CE6503	Environmental Engineering I	5	2013
88	103	UG-CIVIL	CE6504	Highway Engineering	5	2013
89	103	UG-CIVIL	CE6505	Design of Reinforced Concrete Elements	5	2013
90	103	UG-CIVIL	CE6506	Construction Techniques, Equipment and Practice	5	2013
91	103	UG-CIVIL	CE6601	Design of Reinforced Concrete & Brick Masonry Structures	6	2013
92	103	UG-CIVIL	CE6602	Structural Analysis II	6	2013
93	103	UG-CIVIL	CE6603	Design of Steel Structures	6	2013
94	103	UG-CIVIL	CE6604	Railways, Airports and Harbour Engineering	6	2013
95	103	UG-CIVIL	CE6605	Environmental Engineering II	6	2013
96	103	UG-CIVIL	CE6002	Concrete Technology Elective I	6	2013
97	103	UG-CIVIL	CE6611	Environmental Engineering	6	2013
98	103	UG-CIVIL	CE6701	Structural Dynamics and Earthquake Engineering	7	2013
99	103	UG-CIVIL	CE6702	Prestressed Concrete Structures	7	2013

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100	103	UG-CIVIL	CE6703	Water Resources and Irrigation Engineering	7	2013
101	103	UG-CIVIL	CE6704	Estimation and Quantity Surveying	7	2013
102	103	UG-CIVIL	EN6501	Municipal Solid Waste Management - Elective II	7	2013
103	103	UG-CIVIL	CE6007	Housing Planning and Management - Elective III	7	2013
104	103	UG-CIVIL	CE 6021	Repair and Rehabilitation of Structures - Elective IV	8	2013
105	103	UG-CIVIL	CE6016	Prefabricated Structures - Elective V	8	2013
B.E COMPUTER SCIENCE AND ENGINEERING						
106	104	UG-CSE	CS6501	Internet Programming	5	2013
107	104	UG-CSE	MA6566	Discrete Mathematics	5	2013
108	104	UG-CSE	CS6503	Theory of Computation	5	2013
109	104	UG-CSE	CS6504	Computer Graphics	5	2013
110	104	UG-CSE	CS6003	Ad hoc and Sensor Networks	7	2013
111	104	UG-CSE	CS6007	Information Retrieval	7	2013
112	104	UG-CSE	CS6704	Resource Management Techniques	7	2013
113	104	UG-CSE	CS6702	Graph Theory and Applications	7	2013

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114	104	UG-CSE	CS6801	Multi – Core Architectures and Programming	8	2013
115	104	UG-CSE	CS6008	Human Computer Interaction - E5	8	2013
B.E ELECTRICAL AND ELECTRONICS ENGINEERING						
116	105	UG-EEE	EE6301	Digital Logic Circuits	3	2013
117	105	UG-EEE	EE6302	Electromagnetic Theory	3	2013
118	105	UG-EEE	EE6303	Linear Integrated Circuits and Applications	3	2013
119	105	UG-EEE	EC6202	Electronic Devices and Circuits	3	2013
120	105	UG-EEE	EE6401	Electrical Machines - I	4	2013
121	105	UG-EEE	EE6402	Transmission and Distribution	4	2013
122	105	UG-EEE	EE6403	Discrete Time Systems and Signal Processing	4	2013
123	105	UG-EEE	EE6404	Measurements and Instrumentation	4	2013
124	105	UG-EEE	CS6456	Object Oriented Programming	4	2013
125	105	UG-EEE	EE6501	Power System Analysis	5	2013
126	105	UG-EEE	EE6502	Microprocessors and Microcontrollers	5	2013
127	105	UG-EEE	EE6503	Power Electronics	5	2013


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128	105	UG-EEE	EE6504	Electrical Machines - II	5	2013
129	105	UG-EEE	IC6501	Control Systems	5	2013
130	105	UG-EEE	EE6601	Solid State Drives	6	2013
131	105	UG-EEE	EE6602	Embedded Systems	6	2013
132	105	UG-EEE	EE6603	Power System Operation and Control	6	2013
133	105	UG-EEE	EE6604	Design of Electrical Machines	6	2013
134	105	UG-EEE	EC6651	Communication Engineering	6	2013
135	105	UG-EEE	EE6002	Power System Transients (Elective - I)	6	2013
136	105	UG-EEE	EE6701	High Voltage Engineering	7	2013
137	105	UG-EEE	EE6702	Protection and Switchgear	7	2013
138	105	UG-EEE	EE6703	Special Electrical Machines	7	2013
139	105	UG-EEE	EE6005	Power Quality (Elective - II)	7	2013
140	105	UG-EEE	EE6008	Microcontroller Based System Design (E - III)	7	2013
141	105	UG-EEE	EE6801	Electric Energy Generation, Utilization and Conservation	8	2013
142	105	UG-EEE	EE6009	Power Electronics for Renewable Energy Systems (Elective - IV)	8	2013

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B.E ELECTRONICS AND COMMUNICATION ENGINEERING						
143	106	UG-ECE	EE6352	Electrical Engineering and Instrumentation	3	2013
144	106	UG-ECE	EC6301	Object Oriented Programming and Data Structures	3	2013
145	106	UG-ECE	EC6302	Digital Electronics	3	2013
146	106	UG-ECE	EC6303	Signals and Systems	3	2013
147	106	UG-ECE	EC6304	Electronic Circuits	3	2013
148	106	UG-ECE	MA6451	Probability and Random Processes	4	2013
149	106	UG-ECE	EC6401	Electronic Circuit-II	4	2013
150	106	UG-ECE	EC6402	Communication Theory	4	2013
151	106	UG-ECE	EC6403	Electromagnetic Field	4	2013
152	106	UG-ECE	EC6404	Linear Integrated Circuits	4	2013
153	106	UG-ECE	EC6405	Control System Engineering	4	2013
154	106	UG-ECE	EC6501	Digital Communication	5	2013
155	106	UG-ECE	EC6502	Principles of Digital Signal Processing	5	2013
156	106	UG-ECE	EC6503	Transmission Lines and Wave Guides	5	2013

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157	106	UG-ECE	EC6601	Vlsi Design	6	2013
158	106	UG-ECE	EC6602	Antenna And Wave Propagation	6	2013
159	106	UG-ECE	EC6001	Medical electronics	6	2013
160	106	UG-ECE	EC6701	RF and Microwave Engineering	7	2013
161	106	UG-ECE	EC6702	Optical Communication and Networks	7	2013
162	106	UG-ECE	EC6703	Embedded and Real Time Systems	7	2013
163	106	UG-ECE	IT6005	Digital ImageProcessing - E2	7	2013
164	106	UG-ECE	EC6007	Speech Processing - E3	7	2013
165	106	UG-ECE	EC6015	RADAR AND NAVIGATIONAL AIDS -E4	7	2013
166	106	UG-ECE	EC6802	Wireless Networks	8	2013
167	106	UG-ECE	EC6018	Multimedia Compression And Communication - E5	8	2013
B.E MECHANICAL ENGINEERING						
168	114	UG-MECH	ME6301	Engineering Thermodynamics	3	2013
169	114	UG-MECH	ME6302	Manufacturing Technology - I	3	2013
170	114	UG-MECH	EE6351	Electrical Drives and Controls	3	2013

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171	114	UG-MECH	MA6452	Statistics and Numerical Methods	4	2013
172	114	UG-MECH	ME6401	Kinematics of Machinery	4	2013
173	114	UG-MECH	ME6402	Manufacturing Technology- II	4	2013
174	114	UG-MECH	ME6403	Engineering Materials and Metallurgy	4	2013
175	114	UG-MECH	ME6404	Thermal Engineering	4	2013
176	114	UG-MECH	ME6501	Computer Aided Design	5	2013
177	114	UG-MECH	ME6502	Heat and Mass Transfer	5	2013
178	114	UG-MECH	ME6503	Design of Machine Elements	5	2013
179	114	UG-MECH	ME6505	Dynamics of Machines	5	2013
180	114	UG-MECH	ME6601	Design of Transmission Systems	6	2013
181	114	UG-MECH	ME6602	Automobile Engineering	6	2013
182	114	UG-MECH	ME6603	Finite Element Analysis	6	2013
183	114	UG-MECH	ME6604	Gas Dynamics and Jet Propulsion	6	2013
184	114	UG-MECH	ME6004	Unconventional Machining Processes Elective-1	6	2013
185	114	UG-MECH	ME6702	Mechatronics	7	2013

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186	114	UG-MECH	ME6703	Computer Integrated Manufacturing Systems	7	2013
187	114	UG-MECH	ME6008	Welding Technology - E2	7	2013
188	114	UG-MECH	ME6012	Maintenance Engineering - E3	7	2013
189	114	UG-MECH	ME6702	Mechatronics	7	2013
190	114	UG-MECH	MG6863	Engineering Economics	8	2013
191	114	UG-MECH	IE6605	Production Planning & Control - E4	8	2013
192	114	UG-MECH	ME6019	Non-Destructive Testing and Materials - E5	8	2013
B.E MATERIAL SCIENCE AND ENGINEERING						
193	145	UG-MSE	ML6301	Casting and Machining Processes	3	2013
194	145	UG-MSE	ML6302	Thermodynamics and Kinetics of Materials	3	2013
195	145	UG-MSE	ML6303	Materials Structure and Properties	3	2013
196	145	UG-MSE	ML6304	Processing of Iron and Steel	3	2013
197	145	UG-MSE	ML6401	Mechanical Behaviour of Materials	4	2013
198	145	UG-MSE	ML6402	Non-Ferrous Metallurgy	4	2013
199	145	UG-MSE	ML6403	Powder Metallurgy	4	2013

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200	145	UG-MSE	ML6404	Solid State Physics	4	2013
201	145	UG-MSE	ML6405	Phase Transformations	4	2013
202	145	UG-MSE	MG6091	Industrial Management	4	2013
203	145	UG-MSE	ML6001	Modern Manufacturing Process - E1	4	2013
204	145	UG-MSE	ML6501	Theory and Applications of Metal Forming	5	2013
205	145	UG-MSE	ML6502	Material Aspects in Design	5	2013
206	145	UG-MSE	ML6503	Characterization of Materials	5	2013
207	145	UG-MSE	ML6504	Heat Treatment of Metals and Alloys	5	2013
208	145	UG-MSE	ML6505	Welding Metallurgy	5	2013
209	145	UG-MSE	ML6506	Corrosion and Surface Engineering	5	2013
210	145	UG-MSE	ML6601	Polymer Process Engineering	6	2013
211	145	UG-MSE	ML6602	Creep and Fatigue Behavior of Materials	6	2013
212	145	UG-MSE	ML6603	Composite Materials	6	2013
213	145	UG-MSE	ML6701	Computer Applications in Materials Science	7	2013
214	145	UG-MSE	ML6702	Non Destructive Materials Evaluation	7	2013

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215	145	UG-MSE	ML6703	Nanostructured Materials	7	2013
216	145	UG-MSE	ML6006	Ceramics and Refractory Materials - E2	7	2013
217	145	UG-MSE	ML6010	Fuel, Furnaces and Refractories - E3	7	2013
218	145	UG-MSE	ML6013	Engineering Economics and Cost Estimation - E4	8	2013
219	145	UG-MSE	ML6016	Energy Storage Devices and Fuel Cells - E5	8	2013
B.TECH INFORMATION TECHNOLOGY						
220	205	UG-IT	IT6211	Digital Laboratory	2	2013
221	205	UG-IT	IT6501	Graphics and Multimedia -	5	2013
222	205	UG-IT	IT6503	Web Programming -	5	2013
223	205	UG-IT	IT6701	Information Management -	7	2013
224	205	UG-IT	IT6702	Data Ware Housing and Data Mining -	7	2013
225	205	UG-IT	IT6004	Software Testing - E2	7	2013
226	205	UG-IT	IT6801	Service Oriented Architecture	8	2013
227	205	UG-IT	CS6004	Cyber Forensics - E4	8	2013
M.E STRUCTURAL ENGINEERING						
228	413	M.E - STRUCTURAL	MA7154	Advanced Mathematical Method	1	2013

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Chennai-603 103.



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229	413	M.E - STRUCTURAL	ST7101	Concrete Structures	1	2013
230	413	M.E - STRUCTURAL	ST7102	Dynamics of Structures	1	2013
231	413	M.E - STRUCTURAL	ST7103	Theory of Elasticity and Plasticity	1	2013
232	413	M.E - STRUCTURAL	CN7001	Advanced Concrete Technology - E1	1	2013
233	413	M.E - STRUCTURAL	ST7002	Maintenance and Rehabilitation of Structures - E2	1	2013
234	413	M.E - STRUCTURAL	ST7201	Finite Element Analysis	2	2013
235	413	M.E - STRUCTURAL	ST7202	Experimental Techniques and Instrumentation	2	2013
236	413	M.E - STRUCTURAL	ST7203	Steel Structures	2	2013
237	413	M.E - STRUCTURAL	ST7204	Earthquake Analysis and Design of Structures	2	2013
238	413	M.E - STRUCTURAL	ST7006	Design of Bridges - E3	2	2013
239	413	M.E - STRUCTURAL	ST7008	Pre-stressed Concrete - E4	2	2013
240	413	M.E - STRUCTURAL	ST7013	Design of Steel Concrete Composite Structures - E5	3	2013
241	413	M.E - STRUCTURAL	ST7014	Industrial Structures - E6	3	2013
242	413	M.E - STRUCTURAL	ST7016	Prefabricated Structures - E7	3	2013
M.E THERMAL ENGINEERING						

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243	414	ME - THERMAL	TE7010	Advanced Power Plant Engineering	3	2013
244	414	ME - THERMAL	TE7011	Advanced Thermal Storage Technologies	3	2013
245	414	ME - THERMAL	TE7012	Cogeneration and Waste Heat Recovery Systems	3	2013
M.E POWER SYSTEM						
246	411	ME - POWER SYSTEM	PX7301	Power Electronics for Renewable Energy Systems	3	2013
247	411	ME - POWER SYSTEM	PS7005	High Voltage Direct Current Transmission	3	2013
248	411	ME - POWER SYSTEM	PS7006	Industrial Power System Analysis and Design	3	2013

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