

Grams: "TECHNOLOGY"
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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
KAKINADA-533003, Andhra Pradesh (India)
(Established by Andhra Pradesh Act No. 30 of 2008)

Lr. No. JNTUK/DAP/2019

Dt:05.12.2019

Prof. V.V. Subba Rao
B.Tech.,M.E.,Ph.D.
REGISTRAR

TO WHOM SO EVER IT MAY CONCERN

This is to certify that Elective Courses are being implemented in JNTUK Kakinada in the Programmes of B. Tech (CSE, ECE, CE, EEE, ME and IT), MBA, M. Tech (CSE, & DECS) from the Academic Year 2016-17 onwards, i.e., R16 revision.

This certificate is issued at the request of the concerned.

V.S.R.
REGISTRAR
REGISTRAR
J.N.T. University Kakinada,
KAKINADA-533003.

tee
PRINCIPAL
ANDHRA LOYOLA INSTITUTE OF
ENGINEERING & TECHNOLOGY
VIJAYAWADA-520 008



List of Elective Courses during last 5 years

SNO	Branch	Elective Subject name	Subject Year of Introduction	Subject Year of Implementation	Regulation	Year & Sem	Credits
1	EEE	Special Electrical Machines	2016 - 17	2020-21	R16	IV-I	3
2	EEE	Instrumentation	2016 - 17	2020-21	R16	IV-I	3
3	EEE	Energy Audit, Conservation and Management	2016 - 17	2020-21	R16	III-II	3
4	EEE	OOPS Through JAVA	2016 - 17	2019-20	R16	III-II	3
5	EEE	Programmable Logic Controller & Applications	2016 - 17	2019-20	R16	IV-I	3
6	EEE	Special Electrical Machines	2016 - 17	2019-20	R16	IV-I	3
7	EEE	Flexible Alternating Current Transmission Systems	2016 - 17	2019-20	R16	IV-II	3
8	EEE	Instrumentation	2013-14	2018-19	R13	IV-I	3
9	EEE	Electrical Distributin System	2013-14	2018-19	R13	IV-I	3
10	EEE	Special Electrical Machines	2013-14	2018-19	R13	IV-II	3
11	EEE	Flexible Alternating Current Transmission Systems	2013-14	2018-19	R13	IV-II	3
12	EEE	OOPS Through JAVA	2013-14	2018-19	R13	IV-II	3
13	EEE	OOPS Through JAVA	2016 - 17	2018-19	R16	III-II	3
14	EEE	Energy Audit, Conservation and Management	2013-14	2017-18	R13	IV-I	3
15	EEE	Electrical Distributin System	2013-14	2017-18	R13	IV-I	3
16	EEE	Special Electrical Machines	2013-14	2017-18	R13	IV-II	3
17	EEE	Flexible Alternating Current Transmission Systems	2013-14	2017-18	R13	IV-II	3



18	EEE	OOPS Through JAVA	2013-14	2017-18	R13	IV-II	3
19	EEE	Instrumentation	2010-11	2016-17	R10	IV-I	3
20	EEE	Electrical Distributin System	2010-11	2016-17	R10	IV-I	3
21	EEE	Special Electrical Machines	2010-11	2016-17	R10	IV-II	3
22	EEE	Non Conventional Sources of Energy	2010-11	2016-17	R10	IV-II	3
23	EEE	OOPS Through JAVA	2010-11	2016-17	R10	IV-II	3
24	IT	Cyber Security	2016-17	2020-21	R16	IV-II	3
25	IT	Machine Learning	2016-17	2020-21	R16	IV-I	3
26	IT	Big Data Analytics	2016-17	2020-21	R16	IV-I	3
27	IT	Artificial Intelligence	2016-17	2020-21	R16	III-II	3
28	IT	Artificial Intelligence	2016-17	2019-20	R16	III-II	3
29	IT	Human Computer Interaction	2013-14	2018-19	R13	IV-II	3
30	IT	Hadoop and Big Data	2013-14	2018-19	R13	IV-I	3
31	IT	Multimedia Computing	2013-14	2018-19	R13	IV-I	3
32	IT	Artificial Intelligence	2016-17	2018-19	R16	III-II	3
33	IT	Human Computer Interaction	2013-14	2017-18	R13	IV-II	3
34	IT	Hadoop and Big Data	2013-14	2017-18	R13	IV-I	3
35	IT	Multimedia Computing	2013-14	2017-18	R13	IV-I	3
36	IT	Human Computer Interaction	2013-14	2016-17	R13	IV-II	3
37	IT	Hadoop and Big Data	2013-14	2016-17	R13	IV-I	3
38	IT	Multimedia Computing	2013-14	2016-17	R13	IV-I	3
39	IT	Cloud Computing	2010-11	2015-16	R10	IV-II	3
40	IT	Multimedia & Application Development	2010-11	2015-16	R10	IV-II	3
41	IT	Advanced Operating Systems	2010-11	2015-16	R10	IV-II	3



42	IT	Distributed Systems	2010-11	2015-16	R10	IV-I	3
43	IT	Open Source Software	2010-11	2015-16	R10	IV-I	3
44	CE	Urban Transportation Planning Engineering	2017-2018	2020-2021	R16	IV/II	3
45	CE	Traffic Engineering	2017-2018	2020-2021	R16	IV/I	3
46	CE	Environmental Impact Assessment & Management	2017-2018	2020-2021	R16	IV/I	3
47	CE	Waste Water Management	2018-2019	2019-2021	R16	III/II	3
48	CE	Urban Transportation Planning Engineering	2016-2017	2019-2020	R16	IV/II	3
49	CE	Environmental Impact Assessment & Management	2016-2017	2019-2020	R16	IV/II	3
50	CE	Air Pollution & Control	2016-2017	2019-2020	R16	IV/I	3
51	CE	Waste Water Management	2016-2017	2019-2020	R16	III/II	3
52	CE	Environmental pollution & control	2016-2017	2018-2019	R16	III/II	3
53	CE	Ground improvement techniques	2013-2014	2018-2019	R13	IV/I	3
54	CE	Engineering Geo synthetics	2013-2014	2018-2019	R13	IV/II	3
55	CE	Water shed Management	2013-2014	2018-2019	R13	IV/II	3
56	CE	Water Resources System Planning & Management	2013-2014	2018-2019	R13	IV/II	3
57	CE	Waste Water Management	2013-2014	2018-2019	R16	III/II	3
58	CE	Ground improvement techniques	2013-2014	2017-2018	R13	IV/I	3
59	CE	Water shed Management	2013-2014	2017-2018	R13	IV/II	3
60	CE	Environmental Impact Assessment & Management	2013-2014	2017-2018	R13	IV/II	3
61	CE	Water Resources System Planning & Management	2013-2014	2017-2018	R13	IV/II	3
62	CE	Environmental pollution & control	2013-2014	2017-2018	R13	III/II	3



63	CE	Ground improvement techniques	2013-2014	2016-2017	R13	IV/I	3
64	CE	Traffic Engineering	2013-2014	2016-2017	R13	IV/II	3
65	CE	Water shed Management	2013-2014	2016-2017	R13	IV/II	3
66	CE	Water Resources System Planning & Management	2013-2014	2016-2017	R13	IV/II	3
67	CE	Environmental pollution & control	2013-2014	2015-16	R13	III/II	3
68	CE	Environmental pollution & control	2013-2014	2016-2017	R13	III/II	3
69	MECH	Industrial Robotics	2016-17	2020-21	R 16	III & II	
70	MECH	Green Engineering Systems	2016-17	2020-21	R 16	III & II	3
71	MECH	Additive Manufacturing	2016-17	2020-21	R 16	IV & I	3
72	MECH	Advanced Materials	2016-17	2020-21	R16	IV & I	3
73	MECH	Non Destructive Evaluation	2016-17	2020-21	R16	IV & II	3
74	MECH	Green Engineering Systems	2016-17	2019-20	R 16	III & II	3
75	MECH	Additive Manufacturing	2016-17	2019-20	R 16	IV & I	3
76	MECH	Advanced Materials	2016-17	2019-20	R16	IV & I	3
77	MECH	Non Destructive Evaluation	2016-17	2019-20	R16	IV & II	3
78	MECH	computer graphics	2016-17	2018-19	R 16	III & II	3
79	MECH	nano technology	2013-14	2018-19	R 13	IV & I	3
80	MECH	MEMS	2013-14	2018-19	R13	IV & I	3
81	MECH	Non Destructive Evaluation	2013-14	2018-19	R 13	IV & II	3
82	MECH	power plant engineering	2013-14	2018-19	R 13	IV & II	3
83	MECH	Advanced Materials	2013-14	2018-19	R 13	IV & II	3
84	MECH	automation in manufacturing	2013-14	2018-19	R 13	IV & I	3
85	MECH	industrial hydraulics & pneumatics	2013-14	2018-19	R 13	IV & I	3



86	MECH	Refrigeration & Air-conditioning	2013-14	2017-18	R 13	III & II	3
87	MECH	nano technology	2013-14	2017-18	R 13	IV & I	3
88	MECH	MEMS	2013-14	2017-18	R 13	IV & I	3
89	MECH	automation in manufacturing	2013-14	2017-18	R 13	IV & I	3
90	MECH	industrial hydraulics & pneumatics	2013-14	2017-18	R 13	IV & I	3
91	MECH	Advanced Materials	2013-14	2017-18	R 13	IV & II	3
92	MECH	Non Destructive Evaluation	2013-14	2017-18	R 13	IV & II	3
93	MECH	power plant engineering	2013-14	2017-18	R 13	IV & II	3
94	MECH	Refrigeration & Air-conditioning	2013-14	2016-17	R 13	III & II	3
95	MECH	Nanotechnology	2013-14	2016-17	R 13	IV & I	3
96	MECH	MEMS	2013-14	2016-17	R 13	IV & I	3
97	MECH	automation in manufacturing	2013-14	2016-17	R 13	IV & I	3
98	MECH	industrial hydraulics & pneumatics	2013-14	2016-17	R 13	IV & I	3
99	MECH	power plant engineering	2013-14	2016-17	R 13	IV & II	3
100	MECH	Advanced Materials	2013-14	2016-17	R 13	IV & II	3
101	MECH	Non Destructive Evaluation	2013-14	2016-17	R 13	IV & II	3
102	MECH	MEMS	2010-11	2015-16	R 10	IV & I	3
103	MECH	auto mobile engineering	2010-11	2015-16	R 10	IV & I	3
104	MECH	Nanotechnology	2010-11	2015-16	R 10	IV & II	3
105	MECH	auto machine in Manufacturing	2010-11	2015-16	R 10	IV & II	3
106	MECH	power plant engineering	2010-11	2015-16	R 10	IV & II	3
107	MECH	Non Destructive Evaluation	2010-11	2015-16	R 10	IV & II	3
108	MECH	Production Planning and Control	2010-11	2015-16	R 10	IV&II	3



109	MECH	Refrigeration & Air-conditioning	2013-14	2015-16	R13	III & II	3
110							
111	CSE	Artificial Intelligence	2016-17	2020-2021	R16	III/II	3
112	CSE	Big Data Analytics	2016-17	2020-2021	R16	III/II	3
113	CSE	Software Project Management	2016-17	2020-2021	R16	IV/I	3
114	CSE	Artificial Neural Networks	2016-17	2020-2021	R16	IV/II	3
115	CSE	Software Testing Methodologies	2019-2020	2020-2021	R19	III/I	3
116	CSE	Artificial Intelligence	2016-17	2019-20	R16	III/II	3
117	CSE	Big Data Analytics	2016-17	2019-20	R16	IV/I	3
118	CSE	Software Project Management	2016-17	2019-20	R16	IV/I	3
119	CSE	Artificial Neural Networks	2016-17	2019-20	R16	IV/II	3
120	CSE	Artificial Intelligence	2016-17	2018-19	R16	III/II	3
121	CSE	Software Testing Methodologies	2013-14	2018-19	R13	IV/I	3
122	CSE	Hadoop and Big Data	2013-14	2018-19	R13	IV/I	3
123	CSE	Human Computer Interaction	2013-14	2018-19	R13	IV/II	3
124	CSE	Social Networks and the Semantic Web	2013-14	2018-19	R13	IV/II	3
125	CSE	Hadoop and Big Data	2013-14	2017-18	R13	IV/I	3
126	CSE	Software Testing Methodologies	2013-14	2017-18	R13	IV/I	3
127	CSE	Cloud Computing	2013-14	2017-18	R13	IV/II	3
128	CSE	Human Computer Interaction	2013-14	2017-18	R13	IV/II	3
129	CSE	Hadoop and Big Data	2013-14	2016-17	R13	IV/I	3
130	CSE	Software Testing Methodologies	2013-14	2016-17	R13	IV/I	3
131	CSE	Human Computer Interaction	2013-14	2016-17	R13	IV/II	3



132	CSE	Cloud Computing	2013-14	2016-17	R13	IV/II	3
133	CSE	Open Source Software	2010-11	2015-16	R10	IV/I	4
134	CSE	Cloud Computing	2010-11	2015-16	R10	IV/I	4
135	CSE	Distributed Databases	2010-11	2015-16	R10	IV/I	4
136	CSE	Human Computer Interaction	2010-11	2015-16	R10	IV/II	4
137	CSE	Embedded and Real Time Systems	2010-11	2015-16	R10	IV/II	4
138	CSE	Artificial Intelligence	2010-11	2015-16	R10	IV/II	4
139	CSE	Software Testing Methodologies	2010-11	2015-16	R10	IV/II	4
140	CSE	E-Commerce	2010-11	2015-16	R10	IV/II	4
141	MBA	Services Marketing	2020-21	2019-20	R19	II/IV	
142	MBA	Promotional & Distribution Management	2020-21	2019-20	R19	II/IV	
143	MBA	Green Marketing	2020-21	2019-20	R19	II/IV	
144	MBA	Advertising & Brand Management	2020-21	2019-20	R19	II/IV	
145	MBA	Financial Derivatives	2020-21	2019-20	R19	II/IV	
146	MBA	Global Financial Management	2020-21	2019-20	R19	II/IV	
147	MBA	Financial Risk Management	2020-21	2019-20	R19	II/IV	
148	MBA	Strategic Financial Management	2020-21	2019-20	R19	II/IV	
149	MBA	Consumer Behavior	2020-21	2019-20	R19	II/III	
150	MBA	Retail Management	2020-21	2019-20	R19	II/III	
151	MBA	Strategic Marketing Management	2020-21	2019-20	R19	II/III	
152	MBA	Digital & Social Media Marketing	2020-21	2019-20	R19	II/III	
153	MBA	Investment Analysis & Portfolio Management	2020-21	2019-20	R19	II/III	
154	MBA	Managing Banks &	2020-21	2019-20	R19	II/III	



		Financial Institutions					
155	MBA	Financial Markets and Services	2020-21	2019-20	R19	II/III	
156	MBA	Mergers, Acquisitions & Corporate Restructuring	2020-21	2019-20	R19	II/III	
157	MBA	Cross Cultural Management	2019-20	2019-20	R19	I/I	4
158	MBA	Lean Management	2019-20	2019-20	R19	I/II	4
159	MBA	Leadership Management	2016-17	2019-20	R16	II/III	3
160	MBA	Compensation and Reward Management	2016-17	2019-20	R16	II/III	3
161	MBA	Performance Management	2016-17	2019-20	R16	II/III	3
162	MBA	Strategic Human Resource Management	2016-17	2019-20	R16	II/III	3
163	MBA	Security Analysis & Portfolio Management	2016-17	2019-20	R16	II/III	3
164	MBA	Banking and Insurance Management	2016-17	2019-20	R16	II/III	3
165	MBA	Advance Management Accounting	2016-17	2019-20	R16	II/III	3
166	MBA	Strategic Financial Management	2016-17	2019-20	R16	II/III	3
167	MBA	Consumer Behavior	2016-17	2019-20	R16	II/III	3
168	MBA	Retail Management	2016-17	2019-20	R16	II/III	3
169	MBA	Customer Relationship Management	2016-17	2019-20	R16	II/III	3
170	MBA	Strategic Marketing Management	2016-17	2019-20	R16	II/III	3
171	MBA	Organizational Development & Change Management	2016-17	2019-20	R16	II/IV	3
172	MBA	Global HRM	2016-17	2019-20	R16	II/IV	3
173	MBA	Labor Welfare & Legislation	2016-17	2019-20	R16	II/IV	3
174	MBA	Management of Industrial Relations	2016-17	2019-20	R16	II/IV	3



175	MBA	Financial Markets and Services	2016-17	2019-20	R16	II/IV	3
176	MBA	Global Financial Management	2016-17	2019-20	R16	II/IV	3
177	MBA	Risk Management	2016-17	2019-20	R16	II/IV	3
178	MBA	Tax Management	2016-17	2019-20	R16	II/IV	3
179	MBA	Services Marketing	2016-17	2019-20	R16	II/IV	3
180	MBA	Promotional Distribution Management	2016-17	2019-20	R16	II/IV	3
181	MBA	Global Marketing Management	2016-17	2019-20	R16	II/IV	3
182	MBA	Supply Chain Management	2016-17	2019-20	R16	II/IV	3
183	MBA	Leadership Management	2016-17	2018-19	R16	II/III	3
184	MBA	Compensation and Reward Management	2016-17	2018-19	R16	II/III	3
185	MBA	Performance Management	2016-17	2018-19	R16	II/III	3
186	MBA	Strategic Human Resource Management	2016-17	2018-19	R16	II/III	3
187	MBA	Security Analysis & Portfolio Management	2016-17	2018-19	R16	II/III	3
188	MBA	Banking and Insurance Management	2016-17	2018-19	R16	II/III	3
189	MBA	Advance Management Accounting	2016-17	2018-19	R16	II/III	3
190	MBA	Strategic Financial Management	2016-17	2018-19	R16	II/III	3
191	MBA	Consumer Behavior	2016-17	2018-19	R16	II/III	3
192	MBA	Retail Management	2016-17	2018-19	R16	II/III	3
193	MBA	Customer Relationship Management	2016-17	2018-19	R16	II/III	3
194	MBA	Strategic Marketing Management	2016-17	2018-19	R16	II/III	3
195	MBA	Organizational Development & Change Management	2016-17	2018-19	R16	II/IV	3



196	MBA	Global HRM	2016-17	2018-19	R16	II/IV	3
197	MBA	Labor Welfare & Legislation	2016-17	2018-19	R16	II/IV	3
198	MBA	Management of Industrial Relations	2016-17	2018-19	R16	II/IV	3
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200	MBA	Global Financial Management	2016-17	2018-19	R16	II/IV	3
201	MBA	Risk Management	2016-17	2018-19	R16	II/IV	3
202	MBA	Tax Management	2016-17	2018-19	R16	II/IV	3
203	MBA	Services Marketing	2016-17	2018-19	R16	II/IV	3
204	MBA	Promotional Distribution Management	2016-17	2018-19	R16	II/IV	3
205	MBA	Global Marketing Management	2016-17	2018-19	R16	II/IV	3
206	MBA	Supply Chain Management	2016-17	2018-19	R16	II/IV	3
207	MBA	Leadership Management	2016-17	2017-18	R16	II/III	3
208	MBA	Compensation and Reward Management	2016-17	2017-18	R16	II/III	3
209	MBA	Performance Management	2016-17	2017-18	R16	II/III	3
210	MBA	Strategic Human Resource Management	2016-17	2017-18	R16	II/III	3
211	MBA	Security Analysis & Portfolio Management	2016-17	2017-18	R16	II/III	3
212	MBA	Banking and Insurance Management	2016-17	2017-18	R16	II/III	3
213	MBA	Advance Management Accounting	2016-17	2017-18	R16	II/III	3
214	MBA	Strategic Financial Management	2016-17	2017-18	R16	II/III	3
215	MBA	Consumer Behavior	2016-17	2017-18	R16	II/III	3
216	MBA	Retail Management	2016-17	2017-18	R16	II/III	3
217	MBA	Customer Relationship Management	2016-17	2017-18	R16	II/III	3



218	MBA	Strategic Marketing Management	2016-17	2017-18	R16	II/III	3
219	MBA	Organizational Development & Change Management	2016-17	2017-18	R16	II/IV	3
220	MBA	Global HRM	2016-17	2017-18	R16	II/IV	3
221	MBA	Labor Welfare & Legislation	2016-17	2017-18	R16	II/IV	3
222	MBA	Management of Industrial Relations	2016-17	2017-18	R16	II/IV	3
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227	MBA	Services Marketing	2016-17	2017-18	R16	II/IV	3
228	MBA	Promotional Distribution Management	2016-17	2017-18	R16	II/IV	3
229	MBA	Global Marketing Management	2016-17	2017-18	R16	II/IV	3
230	MBA	Supply Chain Management	2016-17	2017-18	R16	II/IV	3
231	MBA	Product Management	2013-14	2016-17	R13	II/I	3
232	MBA	Promotion and Distribution Management	2013-14	2016-17	R13	II/I	3
233	MBA	Services Marketing	2013-14	2016-17	R13	II/I	3
234	MBA	Consumer Behavior	2013-14	2016-17	R13	II/I	3
235	MBA	Investment Management	2013-14	2016-17	R13	II/I	3
236	MBA	Banking and Insurance	2013-14	2016-17	R13	II/I	3
237	MBA	International Financial Management	2013-14	2016-17	R13	II/I	3
238	MBA	International Financial Management	2013-14	2016-17	R13	II/I	3
239	MBA	Compensation and Performance Management	2013-14	2016-17	R13	II/II	3



240	MBA	Management of Industrial Relations	2013-14	2016-17	R13	II/II	3
241	MBA	Global Human Resource Management	2013-14	2016-17	R13	II/II	3
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244	MBA	Promotion and Distribution Management	2013-14	2015-16	R13	II/I	3
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246	MBA	Consumer Behavior	2013-14	2015-16	R13	II/I	3
247	MBA	Investment Management	2013-14	2015-16	R13	II/I	3
248	MBA	Banking and Insurance	2013-14	2015-16	R13	II/I	3
249	MBA	International Financial Management	2013-14	2015-16	R13	II/I	3
250	MBA	International Financial Management	2013-14	2015-16	R13	II/I	3
251	MBA	Compensation and Performance Management	2013-14	2015-16	R13	II/II	3
252	MBA	Management of Industrial Relations	2013-14	2015-16	R13	II/II	3
253	MBA	Global Human Resource Management	2013-14	2015-16	R13	II/II	3
254	MBA	Global Human Resource Management	2013-14	2015-16	R13	II/II	3
255	ECE	Bio Medical Engineering	2016-17	2020-21	R16	III/II	3
256	ECE	System Design through Verilog	2016-17	2020-21	R16	IV/I	3
257	ECE	Embedded Systems	2016-17	2020-21	R16	IV/I	3
258	ECE	Wireless Sensors and Networks	2016-17	2020-21	R16	IV/II	3
259	ECE	Bio Medical Engineering	2016-17	2019-20	R16	III/II	3
260	ECE	System Design through Verilog	2016-17	2019-20	R16	IV/I	3
261	ECE	Embedded Systems	2016-17	2019-20	R16	IV/I	3



262	ECE	Wireless Sensors and Networks	2016-17	2019-20	R16	IV/II	3
263	ECE	Bio Medical Engineering	2016-17	2018-19	R16	III/II	3
264	ECE	Radar Systems	2013-14	2018-19	R13	IV/I	3
265	ECE	Optical Communication	2013-14	2018-19	R13	IV/I	3
266	ECE	Embedded Systems	2013-14	2018-19	R13	IV/II	3
267	ECE	Wireless Sensors and Networks	2013-14	2018-19	R13	IV/II	3
268	ECE	Bio Medical Engineering	2013-14	2017-18	R13	III/II	3
269	ECE	Radar Systems	2013-14	2017-18	R13	IV/I	3
270	ECE	Optical Communication	2013-14	2017-18	R13	IV/I	3
271	ECE	Embedded Systems	2013-14	2017-18	R13	IV/II	3
272	ECE	Wireless Sensors and Networks	2013-14	2017-18	R13	IV/II	3
273	ECE	Bio Medical Engineering	2013-14	2016-17	R13	III/II	3
274	ECE	Radar Systems	2013-14	2016-17	R13	IV/I	3
275	ECE	Optical Communication	2013-14	2016-17	R13	IV/I	3
276	ECE	Embedded Systems	2013-14	2016-17	R13	IV/II	3
277	ECE	Wireless Sensors and Networks	2013-14	2016-17	R13	IV/II	3
278	ECE	Bio Medical Engineering	2013-14	2015-16	R13	III/II	3
279	ECE	Bio Medical Engineering	2010-11	2015-16	R10	IV/I	4
280	ECE	Telecommunication Switching System	2010-11	2015-16	R10	IV/I	4
281	ECE	Satellite communications	2010-11	2015-16	R10	IV/II	4
282	ECE	Wireless Sensors and Networks	2010-11	2015-16	R10	IV/II	4

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