

THADOMAL SHAHANI

TSEC
ENGINEERING COLLEGE

THADOMAL SHAHANI ENGINEERING COLLEGE

Courses offered in the academic year 2020 - 21



HYDERABAD (SIND)
NATIONAL COLLEGIATE BOARD

THADOMAL SHAHANI ENGINEERING COLLEGE

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

Year: 2020 - 21

Sr. No.	Program Name	Semester	Course Code	Course Name	Course Type
1	ALL Programs	I	FEC101	Engineering Mathematics-I	R2019
2	ALL Programs	I	FEC102	Engineering Physics-I	R2019
3	ALL Programs	I	FEC103	Engineering Chemistry-I	R2019
4	ALL Programs	I	FEC104	Engineering Mechanics	R2019
5	ALL Programs	I	FEC105	Basic Electrical Engineering	R2019
6	ALL Programs	II	FEC201	Engineering Mathematics-II	R2019
7	ALL Programs	II	FEC202	Engineering Physics-I	R2019
8	ALL Programs	II	FEC203	Engineering Chemistry-II	R2019
9	ALL Programs	II	FEC204	Engineering Graphics	R2019
10	ALL Programs	II	FEC205	C programming	R2019
11	ALL Programs	II	FEC206	Professional Communication and Ethics- I	R2019
12	Computer	III	CSC301	Engineering MathematicsIII	R2019
13	Computer	III	CSC302	Discrete Structures and Graph Theory	R2019
14	Computer	III	CSC303	Data Structure	R2019
15	Computer	III	CSC304	Digital Logic & Computer Architecture	R2019
16	Computer	III	CSC305	Computer Graphics	R2019
17	Computer	IV	CSC401	Engineering MathematicsIV	R2019
18	Computer	IV	CSC402	Analysis of Algorithm	R2019
19	Computer	IV	CSC403	Database Management System	R2019
20	Computer	IV	CSC404	Operating System	R2019
21	Computer	IV	CSC405	Microprocessor	R2019
22	Computer	V	CSC501	Microprocessor	R2016
23	Computer	V	CSC502	Database Management System	R2016
24	Computer	V	CSC503	Computer Network	R2016
25	Computer	V	CSC504	Theory of Computer Science	R2016
26	Computer	V	CSDLO5013	Advance Algorithm	R2016
27	Computer	VI	CSC601	Software Engineering	R2016
28	Computer	VI	CSC602	System Programming & Compiler Construction	R2016
29	Computer	VI	CSC603	Data Warehousing & Mining	R2016
30	Computer	VI	CSC604	Cryptography & System Security	R2016
31	Computer	VI	CSDLO6021	Machine Learning	R2016

Dr G T Thampi

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

Year: 2020 - 21

Sr. No.	Program Name	Semester	Course Code	Course Name	Course Type
32	Computer	VII	CSC701	Digital Signal & Image Processing	R2016
33	Computer	VII	CSC702	Mobile Communication & Computing	R2016
34	Computer	VII	CSC703	Artificial Intelligence & Soft Computing	R2016
35	Computer	VII	CSDLO70X	Department Level Optional	R2016
36	Computer	VIII	CSC801	Human Machine Interaction	R2016
37	Computer	VIII	CSC802	Distributed Computing	R2016
38	Computer	VIII	CSDLO8012	Natural Language Processing	R2016
39	IT	III	ITC301	Engineering Mathematics-III	R2019
40	IT	III	ITC302	Data Structure and Analysis	R2019
41	IT	III	ITC303	Database Management System	R2019
42	IT	III	ITC304	Principle of Communication	R2019
43	IT	III	ITC305	Paradigms and Computer Prog. Fundamentals	R2019
44	IT	IV	ITC401	Engineering Mathematics-IV	R2019
45	IT	IV	ITC402	Computer Network and Network Design	R2019
46	IT	IV	ITC403	Operating System	R2019
47	IT	IV	ITC404	Automata Theory	R2019
48	IT	IV	ITC405	Computer Organization and Architecture	R2019
49	IT	V	ITC501	Microcontroller and Embedded Programming	R2016
50	IT	V	ITC502	Internet Programming	R2016
51	IT	V	ITC503	Advanced Data Management Technology	R2016
52	IT	V	ITC504	Cryptography & Network Security	R2016
53	IT	V	ITDLO5011	Algorithms	R2016
54	IT	V	ITDLO5013	E-Commerce & E-Business	R2016
55	IT	VI	ITC601	Software Engineering with Project Management	R2016
56	IT	VI	ITC602	Data Mining and Business Intelligence	R2016
57	IT	VI	ITC603	Cloud Computing & Services	R2016
58	IT	VI	ITC604	Wireless Networks	R2016
59	IT	VI	ITDLO6023	Digital Forensics	R2016
60	IT	VII	ITC701	Enterprise Network Design	R2016
61	IT	VII	ITC702	Infrastructure Security	R2016

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

Year: 2020 - 21

Sr. No.	Program Name	Semester	Course Code	Course Name	Course Type
62	IT	VII	ITC703	Artificial Intelligence	R2016
63	IT	VII	ITDLO7032	Mobile Application Development	R2016
64	IT	VII	ITDLO7035	Soft Computing	R2016
65	IT	VIII	ITC801	Big Data Analytics	R2016
66	IT	VIII	ITC802	Internet of Everything	R2016
67	IT	VIII	ITDLO8041	User Interface Design	R2016
68	EXTC	III	ECC301	Engineering Mathematics III	R2019
69	EXTC	III	ECC302	Electronic Devices & Circuits	R2019
70	EXTC	III	ECC303	Digital System Design	R2019
71	EXTC	III	ECC304	Network Theory	R2019
72	EXTC	III	ECC305	Electronic Instrumentation & Control Systems	R2019
73	EXTC	IV	ECC401	Engineering Mathematics IV	R2019
74	EXTC	IV	ECC402	Microcontrollers	R2019
75	EXTC	IV	ECC403	Linear Integrated Circuits	R2019
76	EXTC	IV	ECC404	Signals & Systems	R2019
77	EXTC	IV	ECC405	Principles of Communication Engineering	R2019
78	EXTC	V	ECC501	Microprocessor & Peripherals Interfacing	R2016
79	EXTC	V	ECC502	Digital Communication	R2016
80	EXTC	V	ECC503	Electromagnetic Engineering	R2016
81	EXTC	V	ECC504	Discrete Time Signal Processing	R2016
82	EXTC	V	ECCDLO5014	Data Compression and Encryption	R2016
83	EXTC	VI	ECC601	Microcontrollers & Applications	R2016
84	EXTC	VI	ECC602	Computer Communication Networks	R2016
85	EXTC	VI	ECC603	Antenna & Radio Wave Propagation	R2016
86	EXTC	VI	ECC604	Image Processing and Machine Vision	R2016
87	EXTC	VI	ECCDLO6023	Database Management System	R2016
88	EXTC	VII	ECC701	Microwave Engineering	R2016
89	EXTC	VII	ECC702	Mobile Communication System	R2016
90	EXTC	VII	ECC703	Optical Communication	R2016
91	EXTC	VII	ECCDLO70X	Department Level Optional	R2016

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

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Sr. No.	Program Name	Semester	Course Code	Course Name	Course Type
92	EXTC	VIII	ECC801	RF Design	R2016
93	EXTC	VIII	ECC802	Wireless Networks	R2016
94	EXTC	VIII	ECCDLO8043	Satellite Communication	R2016
95	EXTC	VIII	ECCDLO8044	Network Mgmt. in Telecomm.	R2016
96	BioMedical	III	BMC301	Engineering Mathematics - III	R2019
97	BioMedical	III	BMC302	Physiology for Engineers	R2019
98	BioMedical	III	BMC303	Medical Sensors	R2019
99	BioMedical	III	BMC304	Electronic Circuits Analysis and Design	R2019
100	BioMedical	III	BMC305	Digital Electronics	R2019
101	Biomedical	IV	BMC401	Engineering Mathematics - IV	R2019
102	Biomedical	IV	BMC402	Integrated Circuit Design	R2019
103	Biomedical	IV	BMC403	Principles of Control Systems	R2019
104	Biomedical	IV	BMC404	Medical Imaging - I	R2019
105	Biomedical	IV	BMC405	Biomaterials and Artificial Organs	R2019
106	BioMedical	V	BMC501	Diagnostic & Therapeutic Instruments	R2016
107	BioMedical	V	BMC502	Analog and Digital Circuit Design	R2016
108	BioMedical	V	BMC503	Principles of Communication Engineering	R2016
109	BioMedical	V	BMC504	Biomedical Digital Image Processing	R2016
110	BioMedical	V	BMDLO5012	Biostatistics	R2016
111	BioMedical	V	BMDLO5013	Rehabilitation Engineering	R2016
112	BioMedical	VI	BMC601	Biomedical Monitoring Equipment	R2016
113	BioMedical	VI	BMC602	Microprocessors and Microcontrollers	R2016
114	BioMedical	VI	BMC603	Digital Image Processing	R2016
115	BioMedical	VI	BMC604	Medical Imaging-I	R2016
116	BioMedical	VI	BMDLO6023	Biological Modelling and Simulation	R2016
117	BioMedical	VII	BMC701	Life Saving and Surgical Equipment	R2016
118	BioMedical	VII	BMC702	Basics of VLSI	R2016
119	BioMedical	VII	BMC703	Medical Imaging-II	R2016
120	BioMedical	VII	BMDLO70X	Department Level Optional	R2016
121	BioMedical	VIII	BMC801	Biomedical Microsystems	R2016
122	BioMedical	VIII	BMC802	Hospital Management	R2016

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Sr. No.	Program Name	Semester	Course Code	Course Name	Course Type
123	BioMedical	VIII	BMDLO8042	Robotics in Medicine	R2016
124	Chemical	III	CHC301	Engineering Mathematics-III	R2019
125	Chemical	III	CHC302	Industrial and Engineering Chemistry I	R2019
126	Chemical	III	CHC303	Fluid Flow Operations	R2019
127	Chemical	III	CHC304	Chemical Engineering Thermodynamics I	R2019
128	Chemical	III	CHC305	Process Calculations	R2019
129	Chemical	IV	CHC401	Engineering Mathematics-IV	R2019
130	Chemical	IV	CHC402	Industrial and Engineering Chemistry II	R2019
131	Chemical	IV	CHC403	Numerical Method in Chemical Engineering	R2019
132	Chemical	IV	CHC404	Solid Fluid Mechanical Operations	R2019
133	Chemical	IV	CHC405	Chemical Engineering Thermodynamics II	R2019
134	Chemical	V	CHC501	Computer Prog & Numerical Methods	R2016
135	Chemical	V	CHC502	Mass transfer Operations-I (MTO- I)	R2016
136	Chemical	V	CHC503	Heat transfer Operations (HTO)	R2016
137	Chemical	V	CHC504	Chemical Reaction Engineering-I (CRE I)	R2016
138	Chemical	V	CHC505	Business Communication & Ethics	R2016
139	Chemical	V	CHDE5013	Advanced Material Sciences	R2016
140	Chemical	VI	CHC601	Environmental Engineering (EE)	R2016
141	Chemical	VI	CHC602	Mass transfer Operations –II (MTO-II)	R2016
142	Chemical	VI	CHC603	Transport Phenomenon	R2016
143	Chemical	VI	CHC604	Chemical Reaction Engineering –II	R2016
144	Chemical	VI	CHC605	Plant Engineering & Industrial Safety	R2016
145	Chemical	VI	CHDE6022	Operation Research	R2016
146	Chemical	VI	CHDE6023	Biotechnology	R2016
147	Chemical	VII	CHC701	Process Equipment Design. (PED)	R2016
148	Chemical	VII	CHC702	Process Engineering	R2016
149	Chemical	VII	CHC703	Process Dynamics and Control (PDC)	R2016
150	Chemical	VII	CHDLO70X	Department Level Optional	R2016
151	Chemical	VIII	CHC801	Modeling, Simulation & Optimization	R2016
152	Chemical	VIII	CHC802	Project Engg & Entrepreneurship Mgmt	R2016

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Sr. No.	Program Name	Semester	Course Code	Course Name	Course Type
153	Chemical	VIII	CHC803	Energy System Design	R2016
154	Chemical	VIII	CHDE8043	Advanced Separation Technology	R2016
155	Chemical	VIII	CHDE8044	Polymer Technology	R2016
156	Biotech	V	BTC501	Bioinformatics	R2016
157	Biotech	V	BTC502	Genetic Engineering	R2016
158	Biotech	V	BTC503	Thermodynamics and Biochemical Engineering	R2016
159	Biotech	V	BTC504	Bioreactor Analysis and Technology	R2016
160	Biotech	V	BTC505	Business Communication and Ethics	R2016
161	Biotech	V	BTE5014	Pharmaceutical Technology	R2016
162	Biotech	VI	BTC601	Food Technology	R2016
163	Biotech	VI	BTC602	Cell & Tissue Culture	R2016
164	Biotech	VI	BTC603	Enzyme Engineering	R2016
165	Biotech	VI	BTC604	IPR, Bioethics and Bio safety	R2016
166	Biotech	VI	BTC605	Process Control & Instrumentation	R2016
167	Biotech	VI	BTE6023	Cancer Biology	R2016
168	Biotech	VII	BTC701	Bioseparation & Downstream Processing Technology-I	R2016
169	Biotech	VII	BTC702	Bioprocess Modelling and Simulation	R2016
170	Biotech	VII	BTC703	Agriculture Biotechnology	R2016
171	Biotech	VII	BTDLO70X	Department Level Optional	R2016
172	Biotech	VIII	BTC801	Environmental Biotechnology	R2016
173	Biotech	VIII	BTC802	Bioseparation & Downstream Processing Tech.-II	R2016
174	Biotech	VIII	BTC803	Bioprocess Plant & Equipment design	R2016
175	Biotech	VIII	BTE8041	Non-conventional Sources of Energy	R2016
176	All Branches	VII	ILO7013	Management Information System	R2016
177	All Branches	VII	ILO7015	Operation Research	R2016
178	All Branches	VII	ILO7017	Disaster Management and Mitigation	R2016
179	All Branches	VIII	ILO8021	Project Management	R2016
180	All Branches	VIII	ILO8022	Finance Management	R2016
181	All Branches	VIII	ILO8029	Environmental Management	R2016

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Courses offered in the academic year 2019 - 20



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1.1 List of courses offered across all programs during last five years Year: 2019 - 20

Sr. No.	Program Name	Semester	Course Code	Course Name	Course Type
1	ALL Programs	I	FEC101	Engineering Mathematics-I	R2019
2	ALL Programs	I	FEC102	Engineering Physics-I	R2019
3	ALL Programs	I	FEC103	Engineering Chemistry-I	R2019
4	ALL Programs	I	FEC104	Engineering Mechanics	R2019
5	ALL Programs	I	FEC105	Basic Electrical Engineering	R2019
6	ALL Programs	II	FEC201	Engineering Mathematics-II	R2019
7	ALL Programs	II	FEC202	Engineering Physics-II	R2019
8	ALL Programs	II	FEC203	Engineering Chemistry-II	R2019
9	ALL Programs	II	FEC204	Engineering Graphics	R2019
10	ALL Programs	II	FEC205	C programming	R2019
11	ALL Programs	II	FEC206	Professional Communication and Ethics- I	R2019
12	Computer	III	CSC301	Applied Mathematics -III	R2016
13	Computer	III	CSC302	Digital Logic Design and Analysis	R2016
14	Computer	III	CSC303	Discrete Mathematics	R2016
15	Computer	III	CSC304	Electronic Circuits and Communication Fundamentals	R2016
16	Computer	III	CSC305	Data Structures	R2016
17	Computer	IV	CSC401	Applied Mathematics- IV	R2016
18	Computer	IV	CSC402	Analysis of Algorithms	R2016
19	Computer	IV	CSC403	Computer Organization and Architecture	R2016
20	Computer	IV	CSC404	Computer Graphics	R2016
21	Computer	IV	CSC405	Operating System	R2016
22	Computer	V	CSC501	Microprocessor	R2016
23	Computer	V	CSC502	Database Management System	R2016
24	Computer	V	CSC503	Computer Network	R2016
25	Computer	V	CSC504	Theory of Computer Science	R2016
26	Computer	V	CSDLO5013	Advance Algorithm	R2016
27	Computer	VI	CSC601	Software Engineering	R2016
28	Computer	VI	CSC602	System Programming & Compiler Construction	R2016
29	Computer	VI	CSC603	Data Warehousing & Mining	R2016

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

Year: 2019 - 20

Sr. No.	Program Name	Semester	Course Code	Course Name	Course Type
30	Computer	VI	CSC604	Cryptography & System Security	R2016
31	Computer	VI	CSDLO6021	Machine Learning	R2016
32	Computer	VII	CSC701	Digital Signal & Image Processing	R2016
33	Computer	VII	CSC702	Mobile Communication & Computing	R2016
34	Computer	VII	CSC703	Artificial Intelligence & Soft Computing	R2016
35	Computer	VII	CSDLO7032	Big Data & Analytics	R2016
36	Computer	VIII	CSC801	Human Machine Interaction	R2016
37	Computer	VIII	CSC802	Distributed Computing	R2016
38	Computer	VIII	CSDLO8012	Natural Language Processing	R2016
39	IT	III	ITC301	Applied Mathematics III	R2016
40	IT	III	ITC302	Logic Design	R2016
41	IT	III	ITC303	Data Structures & Analysis	R2016
42	IT	III	ITC304	Database Management System	R2016
43	IT	III	ITC305	Principle of Communications	R2016
44	IT	IV	ITC401	Applied Mathematics-IV	R2016
45	IT	IV	ITC402	Computer Networks	R2016
46	IT	IV	ITC403	Operating Systems	R2016
47	IT	IV	ITC404	Computer Organization and Architecture	R2016
48	IT	IV	ITC405	Automata Theory	R2016
49	IT	V	ITC501	Microcontroller and Embedded Programming	R2016
50	IT	V	ITC502	Internet Programming	R2016
51	IT	V	ITC503	Advanced Data Management Technology	R2016
52	IT	V	ITC504	Cryptography & Network Security	R2016
53	IT	V	ITDLO5011	Advanced Data Structures & Analysis of Algorithms	R2016
54	IT	V	ITDLO5013	E-Commerce & E-Business	R2016
55	IT	VI	ITC601	Software Engineering with Project Management	R2016
56	IT	VI	ITC602	Data Mining and Business Intelligence	R2016
57	IT	VI	ITC603	Cloud Computing & Services	R2016

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

Year: 2019 - 20

Sr. No.	Program Name	Semester	Course Code	Course Name	Course Type
58	IT	VI	ITC604	Wireless Networks	R2016
59	IT	VI	ITDLO6023	Digital Forensics	R2016
60	IT	VII	ITC701	Enterprise Network Design	R2016
61	IT	VII	ITC702	Infrastructure Security	R2016
62	IT	VII	ITC703	Artificial Intelligence	R2016
63	IT	VII	ITDLO7032	Mobile Application Development	R2016
64	IT	VII	ITDLO7035	Soft Computing	R2016
65	IT	VIII	ITC801	Big Data Analytics	R2016
66	IT	VIII	ITC802	Internet of Everything	R2016
67	IT	VIII	ITDLO8041	User Interface Design	R2016
68	EXTC	III	ECC301	Applied Mathematics- III	R2016
69	EXTC	III	ECC302	Electronic Devices and Circuits I	R2016
70	EXTC	III	ECC303	Digital System Design	R2016
71	EXTC	III	ECC304	Circuit Theory and Networks	R2016
72	EXTC	III	ECC305	Electronic Instrumentation and Control	R2016
73	EXTC	IV	ECC401	Applied Mathematics- IV	R2016
74	EXTC	IV	ECC402	Electronic Devices and Circuits II	R2016
75	EXTC	IV	ECC403	Linear Integrated Circuits	R2016
76	EXTC	IV	ECC404	Signals & Systems	R2016
77	EXTC	IV	ECC405	Principles of Communication Engineering	R2016
78	EXTC	V	ECC501	Microprocessor & Peripherals Interfacing	R2016
79	EXTC	V	ECC502	Digital Communication	R2016
80	EXTC	V	ECC503	Electromagnetic Engineering	R2016
81	EXTC	V	ECC504	Discrete Time Signal Processing	R2016
82	EXTC	V	ECCDLO5014	Data Compression and Encryption	R2016
83	EXTC	VI	ECC601	Microcontrollers & Applications	R2016
84	EXTC	VI	ECC602	Computer Communication Networks	R2016
85	EXTC	VI	ECC603	Antenna & Radio Wave Propagation	R2016
86	EXTC	VI	ECC604	Image Processing and Machine Vision	R2016
87	EXTC	VI	ECCDLO6023	Database Management System	R2016

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Sr. No.	Program Name	Semester	Course Code	Course Name	Course Type
88	EXTC	VII	ECC701	Microwave Engineering	R2016
89	EXTC	VII	ECC702	Mobile Communication System	R2016
90	EXTC	VII	ECC703	Optical Communication	R2016
91	EXTC	VII	ECCDLO7031	Neural Networks and Fuzzy Logic	R2016
92	EXTC	VII	ECCDLO7032	Big Data Analytics	R2016
93	EXTC	VII	ECCDLO7034	CMOS Mixed Signal VLSI	R2016
94	EXTC	VIII	ECC801	RF Design	R2016
95	EXTC	VIII	ECC802	Wireless Networks	R2016
96	EXTC	VIII	ECCDLO8042	Advanced Digital Signal Processing	R2016
97	EXTC	VIII	ECCDLO8044	Network Mgmt. in Telecomm.	R2016
98	BioMedical	III	BMC301	Applied Mathematics III	R2016
99	BioMedical	III	BMC302	Basics of Human Physiology	R2016
100	BioMedical	III	BMC303	Electrical Network Analysis and Synthesis	R2016
101	BioMedical	III	BMC304	Electronic Circuit Analysis and Design	R2016
102	BioMedical	III	BMC304	Electronic Circuit Analysis and Design	R2016
103	BioMedical	III	BMC305	Biomaterials, Prosthetics and Orthotics	R2016
104	Biomedical	IV	BMC401	Applied Mathematics IV	R2016
105	Biomedical	IV	BMC402	Instruments	R2016
106	Biomedical	IV	BMC403	Linear Integrated Circuits	R2016
107	Biomedical	IV	BMC404	Digital Electronics	R2016
108	Biomedical	IV	BMC405	Signals and Control Systems	R2016
109	BioMedical	V	BMC501	Diagnostic & Therapeutic Instruments	R2016
110	BioMedical	V	BMC502	Analog and Digital Circuit Design	R2016
111	BioMedical	V	BMC503	Principles of Communication Engineering	R2016
112	BioMedical	V	BMC504	Biomedical Digital Image Processing	R2016
113	BioMedical	V	BMDLO5012	Biostatistics	R2016
114	BioMedical	V	BMDLO5013	Rehabilitation Engineering	R2016
115	BioMedical	VI	BMC601	Biomedical Monitoring Equipment	R2016
116	BioMedical	VI	BMC602	Microprocessors and Microcontrollers	R2016
117	BioMedical	VI	BMC603	Digital Image Processing	R2016

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Sr. No.	Program Name	Semester	Course Code	Course Name	Course Type
118	BioMedical	VI	BMC604	Medical Imaging-I	R2016
119	BioMedical	VI	BMDLO6023	Biological Modelling and Simulation	R2016
120	BioMedical	VII	BMC701	Life Saving and Surgical Equipment	R2016
121	BioMedical	VII	BMC702	Basics of VLSI	R2016
122	BioMedical	VII	BMC703	Medical Imaging-II	R2016
123	BioMedical	VII	BMDLO70X	Department Level Optional	R2016
124	BioMedical	VIII	BMC801	Biomedical Microsystems	R2016
125	BioMedical	VIII	BMC802	Hospital Management	R2016
126	BioMedical	VIII	BMDLO8042	Robotics in Medicine	R2016
127	Chemical	III	CHC301	Applied Mathematics-III	R2016
128	Chemical	III	CHC302	Engineering Chemistry I	R2016
129	Chemical	III	CHC303	Fluid Flow Operations (FFO)	R2016
130	Chemical	III	CHC304	Chemical Engineering Thermodynamics I	R2016
131	Chemical	III	CHC305	Process Calculations	R2016
132	Chemical	III	CHC306	Chemical Technology	R2016
133	Chemical	IV	CHC401	Applied Mathematics-IV	R2016
134	Chemical	IV	CHC402	Engineering Chemistry II	R2016
135	Chemical	IV	CHC404	Solid Fluid Mechanical Operations (SFMO)	R2016
136	Chemical	IV	CHC405	Mechanical Equipment Design (MED)	R2016
137	Chemical	IV	CHC406	Chemical Engineering Economics	R2016
138	Chemical	V	CHC501	Computer programming and Numerical Methods	R2016
139	Chemical	V	CHC502	Mass transfer Operations-I (MTO- I)	R2016
140	Chemical	V	CHC503	Heat transfer Operations (HTO)	R2016
141	Chemical	V	CHC504	Chemical Reaction Engineering-I (CRE I)	R2016
142	Chemical	V	CHC505	Business Communication & Ethics	R2016
143	Chemical	V	CHDE5013	Advanced Material Sciences	R2016
144	Chemical	VI	CHC601	Environmental Engineering (EE)	R2016
145	Chemical	VI	CHC602	Mass transfer Operations –II (MTO-II)	R2016
146	Chemical	VI	CHC603	Transport Phenomenon	R2016

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THADOMAL SHAHANI ENGINEERING COLLEGE

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

Year: 2019 - 20

Sr. No.	Program Name	Semester	Course Code	Course Name	Course Type
147	Chemical	VI	CHC604	Chemical Reaction Engineering –II	R2016
148	Chemical	VI	CHC605	Plant Engineering & Industrial Safety	R2016
149	Chemical	VI	CHDE6022	Operation Research	R2016
150	Chemical	VI	CHDE6023	Biotechnology	R2016
151	Chemical	VII	CHC701	Process Equipment Design. (PED)	R2016
152	Chemical	VII	CHC702	Process Engineering	R2016
153	Chemical	VII	CHC703	Process Dynamics and Control (PDC)	R2016
154	Chemical	VII	CHDLO70X	Department Level Optional	R2016
155	Chemical	VIII	CHC801	Modeling, Simulation & Optimization	R2016
156	Chemical	VIII	CHC802	Project Engineering & Entrepreneurship Management	R2016
157	Chemical	VIII	CHC803	Energy System Design	R2016
158	Chemical	VIII	CHDE8043	Advanced Separation Technology	R2016
159	Chemical	VIII	CHDE8044	Polymer Technology	R2016
160	Biotech	III	BTC301	Applied Mathematics-III	R2016
161	Biotech	III	BTC302	Microbiology	R2016
162	Biotech	III	BTC303	Cell Biology	R2016
163	Biotech	III	BTC304	Biochemistry	R2016
164	Biotech	III	BTC305	Unit Operations-I	R2016
165	Biotech	III	BTC306	Process Calculations	R2016
166	Biotech	IV	BTC401	Applied Mathematics-IV	R2016
167	Biotech	IV	BTC402	Molecular Genetics	R2016
168	Biotech	IV	BTC403	Fermentation Technology	R2016
169	Biotech	IV	BTC404	Analytical Methods in Biotechnology	R2016
170	Biotech	IV	BTC405	Immunology and Immunotechnology	R2016
171	Biotech	IV	BTC406	Unit Operations -II	R2016
172	Biotech	V	BTC501	Bioinformatics	R2016
173	Biotech	V	BTC502	Genetic Engineering	R2016
174	Biotech	V	BTC503	Thermodynamics and Biochemical Engineering	R2016
175	Biotech	V	BTC504	Bioreactor Analysis and Technology	R2016

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THADOMAL SHAHANI ENGINEERING COLLEGE

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

Year: 2019 - 20

Sr. No.	Program Name	Semester	Course Code	Course Name	Course Type
176	Biotech	V	BTC505	Business Communication and Ethics	R2016
177	Biotech	V	BTE5014	Pharmaceutical Technology	R2016
178	Biotech	VI	BTC601	Food Technology	R2016
179	Biotech	VI	BTC602	Cell & Tissue Culture	R2016
180	Biotech	VI	BTC603	Enzyme Engineering	R2016
181	Biotech	VI	BTC604	IPR, Bioethics and Bio safety	R2016
182	Biotech	VI	BTC605	Process Control & Instrumentation	R2016
183	Biotech	VI	BTE6023	Cancer Biology	R2016
184	Biotech	VII	BTC701	Bioseparation & Downstream Processing Technology-I	R2016
185	Biotech	VII	BTC702	Bioprocess Modelling and Simulation	R2016
186	Biotech	VII	BTC703	Agriculture Biotechnology	R2016
187	Biotech	VII	BTC DLO70X	Department Level Optional	R2016
188	Biotech	VIII	BTC801	Environmental Biotechnology	R2016
189	Biotech	VIII	BTC802	Bioseparation & Downstream Processing Technology-II	R2016
190	Biotech	VIII	BTC803	Bioprocess Plant & Equipment design	R2016
191	Biotech	VIII	BTE8041	Non-conventional Sources of Energy	R2016
192	All Branches	VII	ILO7013	Management Information System	R2016
193	All Branches	VII	ILO7015	Operation Research	R2016
194	All Branches	VII	ILO7017	Disaster Management and Mitigation	R2016
195	All Branches	VIII	ILO8021	Project Management	R2016
196	All Branches	VIII	ILO8022	Finance Management	R2016
197	All Branches	VIII	ILO8029	Environmental Management	R2016

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Courses offered in the academic year 2018 - 19



HYDERABAD (SIND)
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THADOMAL SHAHANI ENGINEERING COLLEGE

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

Year: 2018 - 19

Sr. No.	Program Name	Semester	Course Code	Course Name	Course Type
1	ALL Programs	I	FEC101	Applied Mathematics-I	R2016
2	ALL Programs	I	FEC102	Applied Physics-I	R2016
3	ALL Programs	I	FEC103	Applied Chemistry-I	R2016
4	ALL Programs	I	FEC104	Engineering Mechanics	R2016
5	ALL Programs	I	FEC105	Basic Electrical Engineering	R2016
6	ALL Programs	I	FEC106	Environmental Studies	R2016
7	ALL Programs	II	FEC201	Applied Mathematics-II	R2016
8	ALL Programs	II	FEC202	Applied Physics-II	R2016
9	ALL Programs	II	FEC203	Applied Chemistry-II	R2016
10	ALL Programs	II	FEC204	Engineering Drawing	R2016
11	ALL Programs	II	FEC205	Structured Programming Approach	R2016
12	ALL Programs	II	FEC206	Communication Skills	R2016
13	Computer	III	CSC301	Applied Mathematics -III	R2016
14	Computer	III	CSC302	Digital Logic Design and Analysis	R2016
15	Computer	III	CSC303	Discrete Mathematics	R2016
16	Computer	III	CSC304	Fundamentals	R2016
17	Computer	III	CSC305	Data Structures	R2016
18	Computer	IV	CSC401	Applied Mathematics- IV	R2016
19	Computer	IV	CSC402	Analysis of Algorithms	R2016
20	Computer	IV	CSC403	Computer Organization and Architecture	R2016
21	Computer	IV	CSC404	Computer Graphics	R2016
22	Computer	IV	CSC405	Operating System	R2016
23	Computer	V	CSC501	Microprocessor	R2016
24	Computer	V	CSC502	Database Management System	R2016
25	Computer	V	CSC503	Computer Network	R2016
26	Computer	V	CSC504	Theory of Computer Science	R2016
27	Computer	V	CSDLO5013	Advance Algorithm	R2016
28	Computer	VI	CSC601	Software Engineering	R2016
29	Computer	VI	CSC602	System Programming & Compiler Construction	R2016
30	Computer	VI	CSC603	Data Warehousing & Mining	R2016
31	Computer	VI	CSC604	Cryptography & System Security	R2016

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NATIONAL COLLEGIATE BOARD

THADOMAL SHAHANI ENGINEERING COLLEGE

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

Year: 2018 - 19

Sr. No.	Program Name	Semester	Course Code	Course Name	Course Type
32	Computer	VI	CSDLO6021	Machine Learning	R2016
33	Computer	VII	CPC701	Digital Signal Processing	R2012
34	Computer	VII	CPC702	Cryptography and System Security	R2012
35	Computer	VII	CPC703	Artificial Intelligence	R2012
36	Computer	VII	CPE7025	Soft Computing	R2012
37	Computer	VII	CPE7023	Image Processing	R2012
38	Computer	VII	CPC801	Data Warehouse and Mining	R2012
39	Computer	VII	CPC802	Human Machine Interaction	R2012
40	Computer	VII	CPC803	Parallel and distributed Systems	R2012
41	Computer	VIII	CPE8031	Machine Learning	R2012
42	Computer	VIII	CPE8035	Big Data Analytics	R2012
43	IT	III	ITC301	Applied Mathematics III	R2016
44	IT	III	ITC302	Logic Design	R2016
45	IT	III	ITC303	Data Structures & Analysis	R2016
46	IT	III	ITC304	Database Management System	R2016
47	IT	III	ITC305	Principle of Communications	R2016
48	IT	IV	ITC401	Applied Mathematics-IV	R2016
49	IT	IV	ITC402	Computer Networks	R2016
50	IT	IV	ITC403	Operating Systems	R2016
51	IT	IV	ITC404	Computer Organization and Architecture	R2016
52	IT	IV	ITC405	Automata Theory	R2016
53	IT	V	ITC501	Microcontroller and Embedded Programming	R2016
54	IT	V	ITC502	Internet Programming	R2016
55	IT	V	ITC503	Advanced Data Management Technology	R2016
56	IT	V	ITC504	Cryptography & Network Security	R2016
57	IT	V	ITDLO5011	Advanced Data Structures & Analysis of Algorithms	R2016
58	IT	V	ITDLO5013	E-Commerce & E-Business	R2016
59	IT	VI	ITC601	Software Engineering with Project Management	R2016

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

Year: 2018 - 19

Sr. No.	Program Name	Semester	Course Code	Course Name	Course Type
60	IT	VI	ITC602	Data Mining and Business Intelligence	R2016
61	IT	VI	ITC603	Cloud Computing & Services	R2016
62	IT	VI	ITC604	Wireless Networks	R2016
63	IT	VI	ITDLO6023	Digital Forensics	R2016
64	IT	VII	ITC701	Software Project Management	R2012
65	IT	VII	ITC702	Cloud Computing	R2012
66	IT	VII	ITC703	Intelligent System	R2012
67	IT	VII	ITC704	Wireless Technology	R2012
68	IT	VII	ITE7051	Image Processing	R2012
69	IT	VII	ITE7053	E-Commerce & E-Business	R2012
70	IT	VIII	ITC801	Storage Network Management and Retrieval	R2012
71	IT	VIII	ITC802	Big Data Analytics	R2012
72	IT	VIII	ITC803	Computer Simulation and Modeling	R2012
73	IT	VIII	ITC804	Soft Computing	R2012
74	IT	VIII	ITC8046	Software Testing & Quality Assurance	R2012
75	EXTC	III	ECC301	Applied Mathematics- III	R2016
76	EXTC	III	ECC302	Electronic Devices and Circuits I	R2016
77	EXTC	III	ECC303	Digital System Design	R2016
78	EXTC	III	ECC304	Circuit Theory and Networks	R2016
79	EXTC	III	ECC305	Electronic Instrumentation and Control	R2016
80	EXTC	IV	ECC401	Applied Mathematics- IV	R2016
81	EXTC	IV	ECC402	Electronic Devices and Circuits II	R2016
82	EXTC	IV	ECC403	Linear Integrated Circuits	R2016
83	EXTC	IV	ECC404	Signals & Systems	R2016
84	EXTC	IV	ECC405	Principles of Communication Engineering	R2016
85	Extc	V	ECC501	Microprocessor & Peripherals Interfacing	R2016
86	Extc	V	ECC502	Digital Communication	R2016
87	Extc	V	ECC503	Electromagnetic Engineering	R2016
88	Extc	V	ECC504	Discrete Time Signal Processing	R2016
89	Extc	V	ECCDLO5014	Data Compression and Encryption	R2016

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

Year: 2018 - 19

Sr. No.	Program Name	Semester	Course Code	Course Name	Course Type
90	Extc	VI	ECC601	Microcontrollers & Applications	R2016
91	Extc	VI	ECC602	Computer Communication Networks	R2016
92	Extc	VI	ECC603	Antenna & Radio Wave Propagation	R2016
93	Extc	VI	ECC604	Image Processing and Machine Vision	R2016
94	Extc	VI	ECCDLO6023	Database Management System	R2016
95	Extc	VII	ETC701	Image and Video Processing	R2012
96	Extc	VII	ETC702	Mobile Communication	R2012
97	Extc	VII	ETC703	Optical Communication and Networks	R2012
98	Extc	VII	ETC704	Microwave and Radar Engineering	R2012
99	Extc	VII	ETE701	Data Compression and Encryption	R2012
100	Extc	VIII	ETC801	Wireless Networks	R2012
101	Extc	VIII	ETC802	Satellite communication and Networks	R2012
102	Extc	VIII	ETC803	Internet and Voice Communication	R2012
103	Extc	VIII	ETE801	Speech Processing	R2012
104	Extc	VIII	ETE802	Telecom Network Management	R2012
105	BioMedical	III	BMC301	Applied Mathematics III	R2016
106	BioMedical	III	BMC302	Basics of Human Physiology	R2016
107	BioMedical	III	BMC303	Electrical Network Analysis and Synthesis	R2016
108	BioMedical	III	BMC304	Electronic Circuit Analysis and Design	R2016
109	BioMedical	III	BMC305	Biomaterials, Prosthetics and Orthotics	R2016
110	Biomedical	IV	BMC401	Applied Mathematics IV	R2016
111	Biomedical	IV	BMC402	Biomedical Transducers and Measuring Instruments	R2016
112	Biomedical	IV	BMC403	Linear Integrated Circuits	R2016
113	Biomedical	IV	BMC404	Digital Electronics	R2016
114	Biomedical	IV	BMC405	Signals and Control Systems	R2016
115	BioMedical	V	BMC501	Diagnostic & Therapeutic Instruments	R2016
116	BioMedical	V	BMC502	Analog and Digital Circuit Design	R2016
117	BioMedical	V	BMC503	Principles of Communication Engineering	R2016
118	BioMedical	V	BMC504	Biomedical Digital Image Processing	R2016

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

Year: 2018 - 19

Sr. No.	Program Name	Semester	Course Code	Course Name	Course Type
119	BioMedical	V	BMDLO5012	Biostatistics	R2016
120	BioMedical	V	BMDLO5013	Rehabilitation Engineering	R2016
121	BioMedical	VI	BMC601	Biomedical Monitoring Equipment	R2016
122	BioMedical	VI	BMC602	Microprocessors and Microcontrollers	R2016
123	BioMedical	VI	BMC603	Digital Image Processing	R2016
124	BioMedical	VI	BMC604	Medical Imaging-I	R2016
125	BioMedical	VI	BMDLO6023	Biological Modelling and Simulation	R2016
126	BioMedical	VII	BMC701	Biomedical Instrumentation-III	R2012
127	BioMedical	VII	BMC702	Medical Imaging – II	R2012
128	BioMedical	VII	BMC703	Biomechanics Prosthesis and Orthosis	R2012
129	BioMedical	VII	BMC704	Very Large Scale Integrated Circuits	R2012
130	BioMedical	VII	BMC705	Networking and Information System in Medicine	R2012
131	BioMedical	VIII	BMC801	Nuclear Medicine	R2012
132	BioMedical	VIII	BMC802	Biomedical Microsystems	R2012
133	BioMedical	VIII	BMC803	Hospital Management	R2012
134	BioMedical	VIII	BME8012	Robotics in Medicine	R2012
135	Chemical	III	CHC301	Applied Mathematics-III	R2016
136	Chemical	III	CHC302	Engineering Chemistry I	R2016
137	Chemical	III	CHC303	Fluid Flow Operations (FFO)	R2016
138	Chemical	III	CHC304	Chemical Engineering Thermodynamics I	R2016
139	Chemical	III	CHC305	Process Calculations	R2016
140	Chemical	III	CHC306	Chemical Technology	R2016
141	Chemical	IV	CHC401	Applied Mathematics-IV	R2016
142	Chemical	IV	CHC402	Engineering Chemistry II	R2016
143	Chemical	IV	CHC404	Solid Fluid Mechanical Operations	R2016
144	Chemical	IV	CHC405	Mechanical Equipment Design (MED)	R2016
145	Chemical	IV	CHC406	Chemical Engineering Economics	R2016
146	Chemical	V	CHC501	Computer programming and Numerical Methods	R2016
147	Chemical	V	CHC502	Mass transfer Operations-I (MTO- I)	R2016

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

Year: 2018 - 19

Sr. No.	Program Name	Semester	Course Code	Course Name	Course Type
148	Chemical	V	CHC503	Heat transfer Operations (HTO)	R2016
149	Chemical	V	CHC504	Chemical Reaction Engineering-I (CRE I)	R2016
150	Chemical	V	CHC505	Business Communication & Ethics	R2016
151	Chemical	V	CHDE5013	Advanced Material Sciences	R2016
152	Chemical	VI	CHC601	Environmental Engineering (EE)	R2016
153	Chemical	VI	CHC602	Mass transfer Operations –II (MTO-II)	R2016
154	Chemical	VI	CHC603	Transport Phenomenon	R2016
155	Chemical	VI	CHC604	Chemical Reaction Engineering –II	R2016
156	Chemical	VI	CHC605	Plant Engineering & Industrial Safety	R2016
157	Chemical	VI	CHDE6022	Operation Research	R2016
158	Chemical	VI	CHDE6023	Biotechnology	R2016
159	Chemical	VII	CHC701	Process Equipment Design (PED)	R2012
160	Chemical	VII	CHC702	Process Engineering	R2012
161	Chemical	VII	CHC703	Process Dynamics & Control (PDC)	R2012
162	Chemical	VII	CHE704	High Performance Leadership	R2012
163	Chemical	VII	CHE704	Petroleum Refining Technology	R2012
164	Chemical	VIII	CHC801	Modelling, Simulation & Optimization	R2012
165	Chemical	VIII	CHC802	Project Engineering & Entrepreneurship Management	R2012
166	Chemical	VIII	CHC803	Environmental Engineering (EE)	R2012
167	Chemical	VIII	CHC804	Energy System Design	R2012
168	Chemical	VIII	CHE805	Advanced Separation Technology	R2012
169	Chemical	VIII	CHE805	Bio Technology	R2012
170	Biotech	III	BTC301	Applied Mathematics-III	R2016
171	Biotech	III	BTC302	Microbiology	R2016
172	Biotech	III	BTC303	Cell Biology	R2016
173	Biotech	III	BTC304	Biochemistry	R2016
174	Biotech	III	BTC305	Unit Operations-I	R2016
175	Biotech	III	BTC306	Process Calculations	R2016
176	Biotech	IV	BTC401	Applied Mathematics-IV	R2016
177	Biotech	IV	BTC402	Molecular Genetics	R2016

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

Year: 2018 - 19

Sr. No.	Program Name	Semester	Course Code	Course Name	Course Type
178	Biotech	IV	BTC403	Fermentation Technology	R2016
179	Biotech	IV	BTC404	Analytical Methods in Biotechnology	R2016
180	Biotech	IV	BTC405	Immunology and Immunotechnology	R2016
181	Biotech	IV	BTC406	Unit Operations -II	R2016
182	Biotech	V	BTC501	Bioinformatics	R2016
183	Biotech	V	BTC502	Genetic Engineering	R2016
184	Biotech	V	BTC503	Thermodynamics and Biochemical Engineering	R2016
185	Biotech	V	BTC504	Bioreactor Analysis and Technology	R2016
186	Biotech	V	BTC505	Business Communication and Ethics	R2016
187	Biotech	V	BTE5014	Pharmaceutical Technology	R2016
188	Biotech	VI	BTC601	Food Technology	R2016
189	Biotech	VI	BTC602	Cell & Tissue Culture	R2016
190	Biotech	VI	BTC603	Enzyme Engineering	R2016
191	Biotech	VI	BTC604	IPR, Bioethics and Bio safety	R2016
192	Biotech	VI	BTC605	Process Control & Instrumentation	R2016
193	Biotech	VI	BTE6023	Cancer Biology	R2016
194	Biotechnology	VII	BTC701	Bioseparation & Downstream Processing Technology-I	R2012
195	Biotechnology	VII	BTC702	Bioprocess Modeling & Simulation	R2012
196	Biotechnology	VII	BTE704	Food Biotechnology	R2012
197	Biotechnology	VII	BTE704	Pharmaceutical Technology	R2012
198	Biotechnology	VII	BTE704	Nanotechnology	R2012
199	Biotechnology	VIII	BTC801	Environmental Biotechnology	R2012
200	Biotechnology	VIII	BTC802	Bioseparation & Downstream Processing Technology-II	R2012
201	Biotechnology	VIII	BTC803	Bioprocess Plant & Equipment Design	R2012
202	Biotechnology	VIII	BTE804	Non Conventional Sources of Energy	R2012
203	Biotechnology	VIII	BTE804	Biosensor & Diagnostics	R2012
204	Biotechnology	VIII	BTE804	Protein Engineering	R2012
205	Biotechnology	VIII	BTE804	Agricultural Biotechnology	R2012


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Courses offered in the academic year 2017 - 18



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THADOMAL SHAHANI ENGINEERING COLLEGE

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

Year: 2017 - 18

Sr. No.	Program Name	Semester	Course Code	Course Name	Course Type
1	ALL Programs	I	FEC101	Applied Mathematics-I	R2016
2	ALL Programs	I	FEC102	Applied Physics-I	R2016
3	ALL Programs	I	FEC103	Applied Chemistry-I	R2016
4	ALL Programs	I	FEC104	Engineering Mechanics	R2016
5	ALL Programs	I	FEC105	Basic Electrical Engineering	R2016
6	ALL Programs	I	FEC106	Environmental Studies	R2016
7	ALL Programs	II	FEC201	Applied Mathematics-II	R2016
8	ALL Programs	II	FEC202	Applied Physics-II	R2016
9	ALL Programs	II	FEC203	Applied Chemistry-II	R2016
10	ALL Programs	II	FEC204	Engineering Drawing	R2016
11	ALL Programs	II	FEC205	Structured Programming Approach	R2016
12	ALL Programs	II	FEC206	Communication Skills	R2016
13	Computer	III	CSC301	Applied Mathematics -III	R2016
14	Computer	III	CSC302	Digital Logic Design and Analysis	R2016
15	Computer	III	CSC303	Discrete Mathematics	R2016
16	Computer	III	CSC304	Fundamentals	R2016
17	Computer	III	CSC305	Data Structures	R2016
18	Computer	IV	CSC401	Applied Mathematics- IV	R2016
19	Computer	IV	CSC402	Analysis of Algorithms	R2016
20	Computer	IV	CSC403	Computer Organization and Architecture	R2016
21	Computer	IV	CSC404	Computer Graphics	R2016
22	Computer	IV	CSC405	Operating System	R2016
23	Computer	V	CPC501	Microprocessor	R2012
24	Computer	V	CPC502	Operating Systems	R2012
25	Computer	V	CPC503	Design	R2012
26	Computer	V	CPC504	Computer Networks	R2012
27	Computer	VI	CPC601	System Programming and Compiler Construction	R2012
28	Computer	VI	CPC602	Software Engineering	R2012
29	Computer	VI	CPC603	Distributed Databases	R2012
30	Computer	VI	CPC604	Mobile Communication and Computing	R2012

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

Year: 2017 - 18

Sr. No.	Program Name	Semester	Course Code	Course Name	Course Type
31	Computer	VI	CPE6011	Operation Research	R2012
32	Computer	VII	CPC701	Digital Signal Processing	R2012
33	Computer	VII	CPC702	Cryptography and System Security	R2012
34	Computer	VII	CPC703	Artificial Intelligence	R2012
35	Computer	VII	CPE7025	Soft Computing	R2012
36	Computer	VII	CPE7023	Image Processing	R2012
37	Computer	VIII	CPC801	Data Warehouse and Mining	R2012
38	Computer	VIII	CPC802	Human Machine Interaction	R2012
39	Computer	VIII	CPC803	Parallel and distributed Systems	R2012
40	Computer	VIII	CPE8031	Machine Learning	R2012
41	Computer	VIII	CPE8035	Big Data Analytics	R2012
42	IT	III	ITC301	Applied Mathematics III	R2016
43	IT	III	ITC302	Logic Design	R2016
44	IT	III	ITC303	Data Structures & Analysis	R2016
45	IT	III	ITC304	Database Management System	R2016
46	IT	III	ITC305	Principle of Communications	R2016
47	IT	IV	ITC401	Applied Mathematics-IV	R2016
48	IT	IV	ITC402	Computer Networks	R2016
49	IT	IV	ITC403	Operating Systems	R2016
50	IT	IV	ITC404	Computer Organization and Architecture	R2016
51	IT	IV	ITC405	Automata Theory	R2016
52	IT	V	TEITC501	Computer Graphics and Virtual Reality	R2012
53	IT	V	TEITC502	Operating Systems	R2012
54	IT	V	TEITC503	Microcontroller and Embedded Systems	R2012
55	IT	V	TEITC504	Advanced Database Management Systems	R2012
56	IT	V	TEITC505	Open Source Technologies	R2012
57	IT	V	TEITC506	Business Communication and Ethics	R2012
58	IT	VI	TEITC601	Software Engineering	R2012
59	IT	VI	TEITC602	Distributed Systems	R2012
60	IT	VI	TEITC603	System and Web Security	R2012

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Sr. No.	Program Name	Semester	Course Code	Course Name	Course Type
61	IT	VI	TEITC604	Data Mining and Business Intelligence	R2012
62	IT	VI	TEITC605	Advance Internet Technology	R2012
63	IT	VII	ITC701	Software Project Management	R2012
64	IT	VII	ITC702	Cloud Computing	R2012
65	IT	VII	ITC703	Intelligent System	R2012
66	IT	VII	ITC704	Wireless Technology	R2012
67	IT	VII	ITC7051	Image Processing	R2012
68	IT	VII	ITC7053	E-Commerce & E-Business	R2012
69	IT	VIII	ITC801	Storage Network Management and Retrieval	R2012
70	IT	VIII	ITC802	Big Data Analytics	R2012
71	IT	VIII	ITC803	Computer Simulation and Modeling	R2012
72	IT	VIII	ITC8045	Soft Computing	R2012
73	IT	VIII	ITC8046	Software Testing & Quality Assurance	R2012
74	EXTC	III	ECC301	Applied Mathematics- III	R2016
75	EXTC	III	ECC302	Electronic Devices and Circuits I	R2016
76	EXTC	III	ECC303	Digital System Design	R2016
77	EXTC	III	ECC304	Circuit Theory and Networks	R2016
78	EXTC	III	ECC305	Electronic Instrumentation and Control	R2016
79	EXTC	IV	ECC401	Applied Mathematics- IV	R2016
80	EXTC	IV	ECC402	Electronic Devices and Circuits II	R2016
81	EXTC	IV	ECC403	Linear Integrated Circuits	R2016
82	EXTC	IV	ECC404	Signals & Systems	R2016
83	EXTC	IV	ECC405	Principles of Communication Engineering	R2016
84	EXTC	V	ETC501	Microcontrollers and Applications	R2012
85	EXTC	V	ETC502	Analog Communication	R2012
86	EXTC	V	ETC503	Random Signal Analysis	R2012
87	EXTC	V	ETC504	RF Modeling and Antennas	R2012
88	EXTC	V	ETC505	Integrated Circuits	R2012
89	EXTC	V	ETS506	Business Communication and Ethics	R2012
90	EXTC	VI	ETC601	Digital Communication	R2012

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Sr. No.	Program Name	Semester	Course Code	Course Name	Course Type
91	EXTC	VI	ETC602	Discrete Time Signal Processing	R2012
92	EXTC	VI	ETC603	Computer Communication and Telecom Networks	R2012
93	EXTC	VI	ETC604	Television Engineering	R2012
94	EXTC	VI	ETC605	Operating Systems	R2012
95	EXTC	VI	ETC606	VLSI Design	R2012
96	EXTC	VII	ETC701	Image and Video Processing	R2012
97	EXTC	VII	ETC702	Mobile Communication	R2012
98	EXTC	VII	ETC703	Optical Communication and Networks	R2012
99	EXTC	VII	ETC704	Microwave and Radar Engineering	R2012
100	EXTC	VII	ETE701	Data Compression and Encryption	R2012
101	EXTC	VIII	ETC801	Wireless Networks	R2012
102	EXTC	VIII	ETC802	Satellite communication and Networks	R2012
103	EXTC	VIII	ETC803	Internet and Voice Communication	R2012
104	EXTC	VIII	ETE801	Speech Processing	R2012
105	EXTC	VIII	ETE802	Telecom Network Management	R2012
106	BioMedical	III	BMC301	Applied Mathematics III	R2016
107	BioMedical	III	BMC302	Basics of Human Physiology	R2016
108	BioMedical	III	BMC303	Electrical Network Analysis and Synthesis	R2016
109	BioMedical	III	BMC304	Electronic Circuit Analysis and Design	R2016
110	BioMedical	III	BMC304	Electronic Circuit Analysis and Design	R2016
111	BioMedical	III	BMC305	Biomaterials, Prosthetics and Orthotics	R2016
112	Biomedical	IV	BMC401	Applied Mathematics IV	R2016
113	Biomedical	IV	BMC402	Biomedical Transducers and Measuring Instruments	R2016
114	Biomedical	IV	BMC403	Linear Integrated Circuits	R2016
115	Biomedical	IV	BMC404	Digital Electronics	R2016
116	Biomedical	IV	BMC405	Signals and Control Systems	R2016
117	BioMedical	V	BMC501	Biomedical Instrumentation-I	R2012
118	BioMedical	V	BMC502	Microprocessors	R2012
119	BioMedical	V	BMC503	Analog and Digital Circuits Design	R2012

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Sr. No.	Program Name	Semester	Course Code	Course Name	Course Type
120	BioMedical	V	BMC504	Biomedical Digital Signal Processing	R2012
121	BioMedical	V	BMC505	Principles of Communication Engineering	R2012
122	BioMedical	V	BML506	Business Communication and Ethics	R2012
123	BioMedical	VI	BMC601	Biomedical Instrumentation -II	R2012
124	BioMedical	VI	BMC602	Biostatistics	R2012
125	BioMedical	VI	BMC603	Biological Modeling and Simulation	R2012
126	BioMedical	VI	BMC604	Microcontrollers and Embedded Systems	R2012
127	BioMedical	VI	BMC605	Medical Imaging -I	R2012
128	BioMedical	VI	BMC606	Digital Image Processing	R2012
129	BioMedical	VII	BMC701	Biomedical Instrumentation-III	R2012
130	BioMedical	VII	BMC702	Medical Imaging - II	R2012
131	BioMedical	VII	BMC703	Biomechanics Prosthesis and Orthosis	R2012
132	BioMedical	VII	BMC704	Very Large Scale Integrated Circuits	R2012
133	BioMedical	VII	BMC705	Networking and Information System in Medicine	R2012
134	BioMedical	VIII	BMC801	Nuclear Medicine	R2012
135	BioMedical	VIII	BMC802	Biomedical Microsystems	R2012
136	BioMedical	VIII	BMC803	Hospital Management	R2012
137	BioMedical	VIII	BME8012	Robotics in Medicine	R2012
138	Chemical	III	CHC301	Applied Mathematics-III	R2016
139	Chemical	III	CHC302	Engineering Chemistry I	R2016
140	Chemical	III	CHC303	Fluid Flow Operations (FFO)	R2016
141	Chemical	III	CHC304	Chemical Engineering Thermodynamics I	R2016
142	Chemical	III	CHC305	Process Calculations	R2016
143	Chemical	III	CHC306	Chemical Technology	R2016
144	Chemical	IV	CHC401	Applied Mathematics-IV	R2016
145	Chemical	IV	CHC402	Engineering Chemistry II	R2016
146	Chemical	IV	CHC404	Solid Fluid Mechanical Operations	R2016
147	Chemical	IV	CHC405	Mechanical Equipment Design (MED)	R2016
148	Chemical	IV	CHC406	Chemical Engineering Economics	R2016
149	Chemical	V	CHC501	Chemical Engineering Thermodynamics - II	R2012

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Sr. No.	Program Name	Semester	Course Code	Course Name	Course Type
150	Chemical	V	CHC502	Mass Transfer Operations - I (MTO-I)	R2012
151	Chemical	V	CHC503	Heat Transfer Operations – I (HTO-I)	R2012
152	Chemical	V	CHC504	Chemical Reaction Engineering - I (CRE-I)	R2012
153	Chemical	V	CHC505	Chemical Technology	R2012
154	Chemical	V	CHC506	Business Communication & Ethics	R2012
155	Chemical	VI	CHC601	Instrumentation	R2012
156	Chemical	VI	CHC602	Mass Transfer Operations – II (MTO-II)	R2012
157	Chemical	VI	CHC603	Heat Transfer Operations – II (HTO-II)	R2012
158	Chemical	VI	CHC604	Chemical Reaction Engineering – II	R2012
159	Chemical	VI	CHC605	Plant Engineering	R2012
160	Chemical	VII	CHC701	Process Equipment Design (PED)	R2012
161	Chemical	VII	CHC702	Process Engineering	R2012
162	Chemical	VII	CHC703	Process Dynamics & Control (PDC)	R2012
163	Chemical	VII	CHE704	High Performance Leadership	R2012
164	Chemical	VII	CHE704	Petroleum Refining Technology	R2012
165	Chemical	VIII	CHC801	Modelling, Simulation & Optimization	R2012
166	Chemical	VIII	CHC802	Project Engineering & Entrepreneurship Management	R2012
167	Chemical	VIII	CHC803	Environmental Engineering (EE)	R2012
168	Chemical	VIII	CHC804	Energy System Design	R2012
169	Chemical	VIII	CHE805	Advanced Separation Technology	R2012
170	Chemical	VIII	CHE805	Bio Technology	R2012
171	Biotech	III	BTC301	Applied Mathematics-III	R2016
172	Biotech	III	BTC302	Microbiology	R2016
173	Biotech	III	BTC303	Cell Biology	R2016
174	Biotech	III	BTC304	Biochemistry	R2016
175	Biotech	III	BTC305	Unit Operations-I	R2016
176	Biotech	III	BTC306	Process Calculations	R2016
177	Biotech	IV	BTC401	Applied Mathematics-IV	R2016
178	Biotech	IV	BTC402	Molecular Genetics	R2016
179	Biotech	IV	BTC403	Fermentation Technology	R2016

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Sr. No.	Program Name	Semester	Course Code	Course Name	Course Type
180	Biotech	IV	BTC404	Analytical Methods in Biotechnology	R2016
181	Biotech	IV	BTC405	Immunology and Immunotechnology	R2016
182	Biotech	IV	BTC406	Unit Operations -II	R2016
183	Biotechnology	V	BTC501	Bioinformatics-1	R2012
184	Biotechnology	V	BTC502	Genetic Engineering	R2012
185	Biotechnology	V	BTC503	Biophysics	R2012
186	Biotechnology	V	BTC504	Thermodynamics & Biochemical Engineering	R2012
187	Biotechnology	V	BTC505	Bioreactor Analysis & technology	R2012
188	Biotechnology	V	BTC506	Business Communication & Ethic	R2012
189	Biotechnology	VI	CHC601	Bioinformatics-II	R2012
190	Biotechnology	VI	CHC602	Cell & Tissue Culture	R2012
191	Biotechnology	VI	CHC603	Enzyme Engineering	R2012
192	Biotechnology	VI	CHC604	IPR,Bioethics & Biosafety	R2012
193	Biotechnology	VI	CHC605	Process Control & Instrumentation	R2012
194	Biotechnology	VII	BTC701	Bioseparation & Downstream Processing Technology-I	R2012
195	Biotechnology	VII	BTC702	Bioprocess Modeling & Simulation	R2012
196	Biotechnology	VII	BTC703	Seminar	R2012
197	Biotechnology	VII	BTE704	Food Biotechnology	R2012
198	Biotechnology	VII	BTE704	Pharmaceutical Technology	R2012
199	Biotechnology	VII	BTE704	Nanotechnology	R2012
200	Biotechnology	VIII	BTC801	Environmental Biotechnology	R2012
201	Biotechnology	VIII	BTC802	Bioseparation & Downstream Processing Technology-II	R2012
202	Biotechnology	VIII	BTC803	Bioprocess Plant & Equipment Design	R2012
203	Biotechnology	VIII	BTE804	Non Conventional Sources of Energy	R2012
204	Biotechnology	VIII	BTE804	Biosensor & Diagnostics	R2012
205	Biotechnology	VIII	BTE804	Protein Engineering	R2012
206	Biotechnology	VIII	BTE804	Agricultural Biotechnology	R2012

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

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Sr. No.	Program Name	Semester	Course Code	Course Name	Course Type
1	ALL Programs	I	FEC101	Applied Mathematics-I	R2016
2	ALL Programs	I	FEC102	Applied Physics-I	R2016
3	ALL Programs	I	FEC103	Applied Chemistry-I	R2016
4	ALL Programs	I	FEC104	Engineering Mechanics	R2016
5	ALL Programs	I	FEC105	Basic Electrical Engineering	R2016
6	ALL Programs	I	FEC106	Environmental Studies	R2016
7	ALL Programs	II	FEC201	Applied Mathematics-II	R2016
8	ALL Programs	II	FEC202	Applied Physics-II	R2016
9	ALL Programs	II	FEC203	Applied Chemistry-II	R2016
10	ALL Programs	II	FEC204	Engineering Drawing	R2016
11	ALL Programs	II	FEC205	Structured Programming Approach	R2016
12	ALL Programs	II	FEC206	Communication Skills	R2016
13	Computer	III	CSC301	Applied Mathematics -III	R2012
14	Computer	III	CSC302	Object Oriented Programming Methodology	R2012
15	Computer	III	CSC303	Data Structures	R2012
16	Computer	III	CSC304	Digital Logic Design and Analysis	R2012
17	Computer	III	CSC305	Discrete Structures	R2012
18	Computer	III	CSC306	Fundamentals	R2012
19	Computer	IV	CSC401	Applied Mathematics IV	R2012
20	Computer	IV	CSC402	Analysis of Algorithms	R2012
21	Computer	IV	CSC403	Computer Organization and Architecture*	R2012
22	Computer	IV	CSC404	Data Base Management systems	R2012
23	Computer	IV	CSC405	Theoretical Computer Science	R2012
24	Computer	IV	CSC406	Computer Graphics	R2012
25	Computer	V	CPC501	Microprocessor	R2012
26	Computer	V	CPC502	Operating Systems	R2012
27	Computer	V	CPC503	Structured and Object Oriented Analysis and Design	R2012
28	Computer	V	CPC504	Computer Networks	R2012

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Sr. No.	Program Name	Semester	Course Code	Course Name	Course Type
29	Computer	V	CPC601	System Programming and Compiler Construction	R2012
30	Computer	V	CPC602	Software Engineering	R2012
31	Computer	V	CPC603	Distributed Databases	R2012
32	Computer	V	CPC604	Mobile Communication and Computing	R2012
33	Computer	VI	CPE6011	Operation Research	R2012
34	Computer	VII	CPC701	Digital Signal Processing	R2012
35	Computer	VII	CPC702	Cryptography and System Security	R2012
36	Computer	VII	CPC703	Artificial Intelligence	R2012
37	Computer	VII	CPE7023	Image Processing	R2012
38	Computer	VII	CPE7025	Soft Computing	R2012
39	Computer	VIII	CPC801	Data Warehouse and Mining	R2012
40	Computer	VIII	CPC802	Human Machine Interaction	R2012
41	Computer	VIII	CPC803	Parallel and distributed Systems	R2012
42	Computer	VIII	CPE8035	Big Data Analytics	R2012
43	IT	III	SEITC301	Applied Mathematics – III	R2012
44	IT	III	SEITC302	Data Structure and Algorithm Analysis	R2012
45	IT	III	SEITC303	Object Oriented Programming Methodology	R2012
46	IT	III	SEITC304	Analog and Digital Circuits	R2012
47	IT	III	SEITC305	Database Management Systems	R2012
48	IT	III	SEITC306	Communication	R2012
49	IT	IV	SEITC401	Applied Mathematics-IV	R2012
50	IT	IV	SEITC402	Computer Networks	R2012
51	IT	IV	SEITC403	Computer Organization and Architecture*	R2012
52	IT	IV	SEITC404	Automata Theory	R2012
53	IT	IV	SEITC405	Web Programming	R2012
54	IT	IV	SEITC406	Information Theory and Coding	R2012
55	IT	V	TEITC501	Computer Graphics and Virtual Reality	R2012
56	IT	V	TEITC502	Operating Systems	R2012
57	IT	V	TEITC503	Microcontroller and Embedded Systems	R2012

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Sr. No.	Program Name	Semester	Course Code	Course Name	Course Type
58	IT	V	TEITC504	Advanced Database Management Systems	R2012
59	IT	V	TEITC505	Open Source Technologies	R2012
60	IT	V	TEITC506	Business Communication and Ethics	R2012
61	IT	VI	TEITC601	Software Engineering	R2012
62	IT	VI	TEITC602	Distributed Systems	R2012
63	IT	VI	TEITC603	System and Web Security	R2012
64	IT	VI	TEITC604	Data Mining and Business Intelligence	R2012
65	IT	VI	TEITC605	Advance Internet Technology	R2012
66	IT	VII	ITC701	Software Project Management	R2012
67	IT	VII	ITC702	Cloud Computing	R2012
68	IT	VII	ITC703	Intelligent System	R2012
69	IT	VII	ITC704	Wireless Technology	R2012
70	IT	VII	ITC7051	Image Processing	R2012
71	IT	VII	ITC7053	E-Commerce & E-Business	R2012
72	IT	VII	ITT7051	Image Processing	R2012
73	IT	VII	ITT7053	E-Commerce & E-Business	R2012
74	IT	VIII	ITC801	Storage Network Management and Retrieval	R2012
75	IT	VIII	ITC802	Big Data Analytics	R2012
76	IT	VIII	ITC803	Computer Simulation and Modeling	R2012
77	IT	VIII	ITC8044	Robotics	R2012
78	IT	VIII	ITC8045	Soft Computing	R2012
79	IT	VIII	ITC8046	Software Testing & Quality Assurance	R2012
80	EXTC	III	ETS301	Applied Mathematics III	R2012
81	EXTC	III	ETC302	Analog Electronics I	R2012
82	EXTC	III	ETC303	Digital Electronics	R2012
83	EXTC	III	ETC304	Circuits and Transmission Lines	R2012
84	EXTC	III	ETC305	Electronic Instruments and Measurements	R2012
85	EXTC	III	ETS306	Object Oriented Programming Methodology	R2012
86	EXTC	IV	ETS401	Applied Mathematics IV	R2012
87	EXTC	IV	ETC402	Analog Electronics II	R2012

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Sr. No.	Program Name	Semester	Course Code	Course Name	Course Type
88	EXTC	IV	ETC403	Microprocessors and Peripherals	R2012
89	EXTC	IV	ETC404	Wave Theory and Propagation	R2012
90	EXTC	IV	ETC405	Signals and Systems	R2012
91	EXTC	IV	ETC406	Control Systems	R2012
92	EXTC	V	ETC501	Microcontrollers and Applications	R2012
93	EXTC	V	ETC502	Analog Communication	R2012
94	EXTC	V	ETC503	Random Signal Analysis	R2012
95	EXTC	V	ETC504	RF Modeling and Antennas	R2012
96	EXTC	V	ETC505	Integrated Circuits	R2012
97	EXTC	V	ETS506	Business Communication and Ethics	R2012
98	EXTC	VI	ETC601	Digital Communication	R2012
99	EXTC	VI	ETC602	Discrete Time Signal Processing	R2012
100	EXTC	VI	ETC603	Computer Communication and Telecom Networks	R2012
101	EXTC	VI	ETC604	Television Engineering	R2012
102	EXTC	VI	ETC605	Operating Systems	R2012
103	EXTC	VI	ETC606	VLSI Design	R2012
104	EXTC	VII	ETC701	Image and Video Processing	R2012
105	EXTC	VII	ETC702	Mobile Communication	R2012
106	EXTC	VII	ETC703	Optical Communication and Networks	R2012
107	EXTC	VII	ETC704	Microwave and Radar Engineering	R2012
108	EXTC	VII	ETE701	Data Compression and Encryption	R2012
109	EXTC	VIII	ETC801	Wireless Networks	R2012
110	EXTC	VIII	ETC802	Satellite communication and Networks	R2012
111	EXTC	VIII	ETC803	Internet and Voice Communication	R2012
112	EXTC	VIII	ETE801	Speech Processing	R2012
113	EXTC	VIII	ETE802	Telecomm Network Management	R2012
114	BioMedical	III	SEBM301	Applied Mathematics-III	R2012
115	BioMedical	III	SEBM302	Electronic Circuits and Design – I	R2012
116	BioMedical	III	SEBM303	Electrical Network Analysis and Synthesis	R2012

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Sr. No.	Program Name	Semester	Course Code	Course Name	Course Type
117	BioMedical	III	SEBM304	Human Anatomy and Physiology	R2012
118	BioMedical	III	SEBM305	Biomaterials	R2012
119	BioMedical	III	SEBM306	Object Oriented Programming & Methodology	R2012
120	BioMedical	IV	SEBM401	Applied Mathematics-IV	R2012
121	BioMedical	IV	SEBM402	Electronic Circuits and Design – II	R2012
122	BioMedical	IV	SEBM403	Transducers and Sensors for Medical Applications	R2012
123	BioMedical	IV	SEBM404	Logic Circuits	R2012
124	BioMedical	IV	SEBM405	Signals and Systems	R2012
125	BioMedical	IV	SEBM406	Electronic Instruments and Control System	R2012
126	BioMedical	V	BMC501	Biomedical Instrumentation-I	R2012
127	BioMedical	V	BMC502	Microprocessors	R2012
128	BioMedical	V	BMC503	Analog and Digital Circuits Design	R2012
129	BioMedical	V	BMC504	Biomedical Digital Signal Processing	R2012
130	BioMedical	V	BMC505	Principles of Communication Engineering	R2012
131	BioMedical	VI	BMC601	Biomedical Instrumentation –II	R2012
132	BioMedical	VI	BMC602	Biostatistics	R2012
133	BioMedical	VI	BMC603	Biological Modeling and Simulation	R2012
134	BioMedical	VI	BMC604	Microcontrollers and Embedded Systems	R2012
135	BioMedical	VI	BMC605	Medical Imaging –I	R2012
136	BioMedical	VI	BMC606	Digital Image Processing	R2012
137	BioMedical	VII	BMC701	Biomedical Instrumentation-III	R2012
138	BioMedical	VII	BMC702	Medical Imaging – II	R2012
139	BioMedical	VII	BMC703	Biomechanics Prosthesis and Orthosis	R2012
140	BioMedical	VII	BMC704	Very Large Scale Integrated Circuits	R2012
141	BioMedical	VII	BMC705	Networking and Information System in Medicine	R2012
142	BioMedical	VIII	BMC801	Nuclear Medicine	R2012
143	BioMedical	VIII	BMC802	Biomedical Microsystems	R2012
144	BioMedical	VIII	BMC803	Hospital Management	R2012

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Sr. No.	Program Name	Semester	Course Code	Course Name	Course Type
145	BioMedical	VIII	BME8012	Robotics in Medicine	R2012
146	Chemical	III	CHC301	Applied Mathematics-III	R2012
147	Chemical	III	CHC302	Engineering Chemistry-I	R2012
148	Chemical	III	CHC303	Fluid Flow (FF)	R2012
149	Chemical	III	CHC304	Computer Programming & Numerical Methods	R2012
150	Chemical	III	CHC305	Process Calculations	R2012
151	Chemical	III	CHC306	Chemical Engineering Economics	R2012
152	Chemical	IV	CHC401	Applied Mathematics-IV	R2012
153	Chemical	IV	CHC402	Engineering Chemistry-II	R2012
154	Chemical	IV	CHC403	Chemical Engg. Thermodynamics - I	R2012
155	Chemical	IV	CHC404	Material Science & Engineering	R2012
156	Chemical	IV	CHC405	Mechanical Equipment Design (MED)	R2012
157	Chemical	IV	CHC406	Solid Fluid Mechanical Operations (SFMO)	R2012
158	Chemical	V	CHC501	Chemical Engineering Thermodynamics - II	R2012
159	Chemical	V	CHC502	Mass Transfer Operations - I (MTO-I)	R2012
160	Chemical	V	CHC503	Heat Transfer Operations - I (HTO-I)	R2012
161	Chemical	V	CHC504	Chemical Reaction Engineering - I (CRE-I)	R2012
162	Chemical	V	CHC505	Chemical Technology	R2012
163	Chemical	V	CHC506	Business Communication & Ethics	R2012
164	Chemical	VI	CHC601	Instrumentation	R2012
165	Chemical	VI	CHC602	Mass Transfer Operations - II (MTO-II)	R2012
166	Chemical	VI	CHC603	Heat Transfer Operations - II (HTO-II)	R2012
167	Chemical	VI	CHC604	Chemical Reaction Engineering - II	R2012
168	Chemical	VI	CHC605	Plant Engineering	R2012
169	Chemical	VII	CHC701	Process Equipment Design (PED)	R2012
170	Chemical	VII	CHC702	Process Engineering	R2012
171	Chemical	VII	CHC703	Process Dynamics & Control (PDC)	R2012
172	Chemical	VII	CHE704	High Performance Leadership	R2012
173	Chemical	VII	CHE704	Petroleum Refining Technology	R2012

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THADOMAL SHAHANI ENGINEERING COLLEGE

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

Year: 2016 - 17

Sr. No.	Program Name	Semester	Course Code	Course Name	Course Type
174	Chemical	VIII	CHC801	Modelling, Simulation & Optimization	R2012
175	Chemical	VIII	CHC802	Project Engineering & Entrepreneurship Management	R2012
176	Chemical	VIII	CHC803	Environmental Engineering (EE)	R2012
177	Chemical	VIII	CHC804	Energy System Design	R2012
178	Chemical	VIII	CHE805	Advanced Separation Technology	R2012
179	Chemical	VIII	CHE805	Bio Technology	R2012
180	Biotechnology	III	BTC301	Applied Mathematics III	R2012
181	Biotechnology	III	BTC302	Microbiology	R2012
182	Biotechnology	III	BTC303	Cell Biology	R2012
183	Biotechnology	III	BTC304	Biochemistry	R2012
184	Biotechnology	III	BTC305	Unit Operations-I	R2012
185	Biotechnology	III	BTC306	Process Calculations	R2012
186	Biotechnology	IV	BTC401	Applied Mathematics-IV	R2012
187	Biotechnology	IV	BTC402	Molecular Genetics	R2012
188	Biotechnology	IV	BTC403	Fermentation Technology	R2012
189	Biotechnology	IV	BTC404	Analytical Methods in Biotechnology	R2012
190	Biotechnology	IV	BTC405	Immunology and Immunotechnology	R2012
191	Biotechnology	IV	BTC406	Unit Operations-II	R2012
192	Biotechnology	V	BTC501	Bioinformatics-I	R2012
193	Biotechnology	V	BTC502	Genetic Engineering	R2012
194	Biotechnology	V	BTC503	Biophysics	R2012
195	Biotechnology	V	BTC504	Thermodynamics & Biochemical Engineering	R2012
196	Biotechnology	V	BTC505	Bioreactor Analysis & technology	R2012
197	Biotechnology	V	BTC506	Business Communication & Ethic	R2012
198	Biotechnology	VI	CHC601	Bioinformatics-II	R2012
199	Biotechnology	VI	CHC602	Cell & Tissue Culture	R2012
200	Biotechnology	VI	CHC603	Enzyme Engineering	R2012
201	Biotechnology	VI	CHC604	IPR, Bioethics & Biosafety	R2012
202	Biotechnology	VI	CHC605	Process Control & Instrumentation	R2012

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

Year: 2016 - 17

Sr. No.	Program Name	Semester	Course Code	Course Name	Course Type
203	Biotechnology	VII	BTC701	Bioseparation & Downstream Processing Technology-I	R2012
204	Biotechnology	VII	BTC702	Bioprocess Modeling & Simulation	R2012
205	Biotechnology	VII	BTE704	Food Biotechnology	R2012
206	Biotechnology	VII	BTE704	Pharmaceutical Technology	R2012
207	Biotechnology	VII	BTE704	Nanotechnology	R2012
208	Biotechnology	VIII	BTC801	Environmental Biotechnology	R2012
209	Biotechnology	VIII	BTC802	Bioseparation & Downstream Processing Technology-II	R2012
210	Biotechnology	VIII	BTC803	Bioprocess Plant & Equipment Design	R2012
211	Biotechnology	VIII	BTE804	Non Conventional Sources of Energy	R2012
212	Biotechnology	VIII	BTE804	Biosensor & Diagnostics	R2012
213	Biotechnology	VIII	BTE804	Protein Engineering	R2012
214	Biotechnology	VIII	BTE804	Agricultural Biotechnology	R2012

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