



हरकोर्ट बटलर प्राविधिक विश्वविद्यालय

नवाबगंज, कानपुर - 208002, उ.प्र., भारत

HARCOURT BUTLER TECHNICAL UNIVERSITY

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100 YEARS
1921 - 2021

1.2 **Percentage of new courses introduced out of the total number of courses across all programmes offered during the last five years**

1.2.1.1: How many new courses were introduced during the last five years

2021-22				
Sr No.	Program name	Course Code	Course Name	Year of Introduction
1	B.Tech. (Biochemical Engineering)	TBE 257	Microbiology Lab	2021-22
2	B.Tech. (Biochemical Engineering)	TBE 359	Bioinformatics	2021-22
3	B.Tech. (Biochemical Engineering)	TBE 360	Bioreaction Engineering	2021-22
4	B.Tech. (Biochemical Engineering)	TBE 362	Fermentation Technology Lab	2021-22
5	M.Tech. (Biochemical Engineering)	TBE 555	Advanced Bioprocesses	2021-22
6	M.Tech. (Biochemical Engineering)	TBE 556	Biological Waste Treatment	2021-22
7	B.Tech. (Electrical Engineering)	EEE-253	Introduction to Digital System	2021-22
8	B.Tech. (Electrical Engineering)	EEE-255	Introduction to Electrical Engg. Material	2021-22
9	B.Tech. (Electrical Engineering)	EEE-258	Bio-medical Instrumentation	2021-22
10	B.Tech. (Electrical Engineering)	EEE-359	Utilization of Electrical Energy and Traction	2021-22
11	M.Tech. (Electrical Engineering)	EET 255	Hardware Description Language	2021-22
12	M.Tech. (Electrical Engineering)	EET 254	Analog Circuits	2021-22
13	M.Tech. (Electrical Engineering)	EET 359	VLSI Technology	2021-22
14	M.Tech. (Electrical Engineering)	EET 362	Machine Learning	2021-22
15	M.Tech. (Electrical Engineering)	EET 453	VLSI Implementation Of Digital Signal Processing Algorithms	2021-22
16	B.Tech. (Food Technology)	TFT-491	Basic Concepts of Food Processing and Preservation	2021-22
17	B.Tech. (Food Technology)	TFT-456	Unit operation in Food Processing	2021-22
18	M.Tech. (Food Technology)	TCT-551	Advance mathematical methods in Chemical Engineering	2021-22
19	M.Tech. (Food Technology)	TFT 560	Cryogenic system in Food Processing	2021-22

20	B.Tech. (Leather Technology)	TLT 255	Leather microscopy & Skin Pre-tannages	2021-22
21	B.Tech. (Leather Technology)	TLT 257	Leather microscopy & Skin Pre-tannages Lab	2021-22
22	B.Tech. (Leather Technology)	TLT 457	Leather Biotechnology	2021-22
23	B.Tech. (Leather Technology)	TLT 453	Professional Areas of Leather Technology	2021-22
24	B.Tech. (Leather Technology)	TLT 454	Footwear materials and components	2021-22
25	B.Tech. (Leather Technology)	TLT 461	Animal and Tannery By-Products	2021-22
26	B.Tech. (Mechanical Engineering)	EME-309/359	Internal Combustion Engine	2021-22
27	B.Tech. (Mechanical Engineering)	EME-310	Energy Conversion	2021-22
28	B.Tech. (Mechanical Engineering)	EME-358	Measurement	2021-22
29	B.Tech. (Mechanical Engineering)	EME-362	Power Plant Engineering	2021-22
30	B.Tech. (Mechanical Engineering)	EME-353	Computer Added Manufacturing	2021-22
31	B.Tech. (Mechanical Engineering)	EME-419	Additive Manufacturing	2021-22
32	B.Tech. (Mechanical Engineering)	EME-421	Robotics	2021-22
33	B.Tech. (Mechanical Engineering)	EME-425	Welding Processes	2021-22
34	B.Tech. (Mechanical Engineering)	EME-429	Mechatronics	2021-22
35	B.Tech. (Mechanical Engineering)	EME-443	Advance Strength of Materials	2021-22
36	B.Tech. (Oil Technology)	TOT-253	Chemistry of Oils & Allied Products Lab	2021-22
37	B.Tech. (Oil Technology)	TOT 451	Quality Assurance of Oils & Allied Products Lab	2021-22
38	B.Tech. (Oil Technology)	TOT 461	Lipid Biotechnology	2021-22
39	B.Tech. (Plastic Technology)	TPL 457	Polymer Product Technology	2021-22
40	B.Tech. (Plastic Technology)	TPL 461	Polymer Nan composites	2021-22
41	B.Tech. (Plastic Technology)	TPL 455	Polymer Blends and Alloys	2021-22
42	B.Tech. (Plastic Technology)	TPL 253	Polymer Chemistry Lab	2021-22
43	B.Tech. (Plastic Technology)	TPL 355	Polymer Testing Lab	2021-22
44	M.Tech. (Plastic Technology)	TPL 551	Advanced Polymer Chemistry	2021-22
45	M.Tech. (Plastic Technology)	TPL 553	Advanced Polymer Processing	2021-22
46	M.Tech. (Plastic Technology)	TPL 555	Advances in Modelling and Simulation of Chemical Processes	2021-22
47	M.Tech. (Plastic Technology)	TPL 557	Advanced Chemical Reaction Engineering	2021-22
48	M.Tech. (Plastic Technology)	TPL 559	Advanced Polymer Rheology	2021-22
49	M.Tech. (Plastic Technology)	TPL 561	High Polymer Chemistry	2021-22
50	M.Tech. (Plastic Technology)	TPL 563	Polymer Processing	2021-22
51	M.Tech. (Plastic Technology)	TPL 567	Industrial Stoichiometry	2021-22
52	M.Tech. (Plastic Technology)	TPL 552	Advanced Polymerization Engineering	2021-22

53	M.Tech. (Plastic Technology)	TPL 554	Advanced Plastic Product and Mould Design	2021-22
54	M.Tech. (Plastic Technology)	TPL 556	Polymer Testing and Characterization	2021-22
55	M.Tech. (Plastic Technology)	TPL 558	Advances in Polymer Composites	2021-22
56	M.Tech. (Plastic Technology)	TPL 560	Advances in Rubber Technology	2021-22
57	M.Tech. (Plastic Technology)	TPL 562	Audit Course Critical review of research publication on one relevant Topic	2021-22
58	M.Tech. (Plastic Technology)	TPL 564	Audit Course Research Methodology and IPR	2021-22
59	M.Tech. (Plastic Technology)	TPL 651	Technology of Polymer Blends & Alloys	2021-22
60	M.Tech. (Plastic Technology)	TPL 653	Biodegradable Polymers, Packaging and Waste Management	2021-22
61	M.Tech. (Plastic Technology)	TPL 655	Polymer Nano Technology	2021-22
62	M.Tech. (Plastic Technology)	TPL 611	Audit Course Critical Review of Research Publications on one Relevant Topic	2021-22
63	M.Tech. (Plastic Technology)	TPL 613	Audit Course Research Methodology and IPR	2021-22
64	M.Tech. (Plastic Technology)	TPL 697	Seminar	2021-22
65	M.Tech. (Plastic Technology)	TPL 695	Dissertation/Project	2021-22
66	M.Tech. (Plastic Technology)	TPL 698	Dissertation/ Project	2021-22
67	B.Tech. (Paint Technology)	TPT 360	Technology of Paint and Coating Additives	2021-22
68	B.Tech. (Paint Technology)	TPT461	Nanotechnology in Surface Coatings	2021-22
69	B.Tech. (Paint Technology)	TPT454	Technology Of Packaging And Waste Management	2021-22
70	B.Tech. (Paint Technology)	OPT433	Basic Paint Technology	2021-22
71	M.Tech. (Paint Technology)	TPT551	Advances in Chemistry and Technology of Film Formers	2021-22
72	M.Tech. (Paint Technology)	TPT553	Pigmentation of Surface Coatings	2021-22
73	M.Tech. (Paint Technology)	TPT559	Technology of Resins and Polymers	2021-22
74	M.Tech. (Paint Technology)	TPT561	Chemistry and Technology of Pigments	2021-22
75	M.Tech. (Paint Technology)	TPT563	Technology of Surface Coatings	2021-22
76	M.Tech. (Paint Technology)	TPT552	Modern Evaluation Techniques of Surface Coatings	2021-22
77	M.Tech. (Paint Technology)	TPT554	Modern Manufacturing Techniques of Surface Coatings	2021-22
78	M.Tech. (Paint Technology)	TPT556	High Performance Coatings	2021-22

79	M.Tech. (Paint Technology)	TPT558	Advances in Printing Inks	2021-22
80	M.Tech. (Paint Technology)	TPT560	Advances in Packaging Technology	2021-22
81	M.Tech. (Paint Technology)	TPT651	Technology of Surfactants & Coating Additives	2021-22
82	M.Tech. (Paint Technology)	TPT653	Advances in Surface Treatment & Coating application	2021-22
83	M.Tech. (Paint Technology)	TPT655	Eco-friendly & Specialty Coatings	2021-22
84	M.Tech. (Paint Technology)	TPT695	Dissertation / Project	2021-22
85	M.Tech. (Paint Technology)	TPT697	Seminar	2021-22
86	M.Tech. (Paint Technology)	TPT698	Dissertation / Project	2021-22

2020-21

Sr No.	Program name	Course Code	Course Name	Year of Introduction
1	B.Tech. (Chemical Engineering)	TCH 201	Materials & Energy Balance	2020-21
2	B.Tech. (Chemical Engineering)	TCH 202	Heat Transfer Operations	2020-21
3	B.Tech. (Chemical Engineering)	TCH 204	Chemical Engineering Thermodynamics	2020-21
4	B.Tech. (Chemical Engineering)	TCH 301	Mass Transfer Operations	2020-21
5	B.Tech. (Chemical Engineering)	TCH 303	Chemical Reaction Engineering	2020-21
6	B.Tech. (Chemical Engineering)	TCH 302	Instrumentation & Process Control	2020-21
7	B.Tech. (Chemical Engineering)	TCH 402	Process Modeling & Simulation	2020-21
8	B.Tech. (Food Technology)	TFT 201	Introduction to Food Technology	2020-21
9	B.Tech. (Food Technology)	TFT 202	Food Microbiology	2020-21
10	B.Tech. (Food Technology)	TFT 301	Food Biochemistry	2020-21
11	B.Tech. (Food Technology)	TFT 303	Food Chemistry	2020-21
12	B.Tech. (Food Technology)	TFT 302	Principles of Food preservation	2020-21
13	B.Tech. (Food Technology)	TFT 304	Technology of Cereals, Pulses & Oilseeds	2020-21
14	B.Tech. (Food Technology)	TFT 306	Fruits, Vegetables and Plantation Products	2020-21
15	B.Tech. (Food Technology)	TFT 401	Food Safety and Quality Control	2020-21
16	B.Tech. (Food Technology)	TFT 406	Food Packaging & Storage Engineering	2020-21
17	B.Tech. (Food Technology)	TFT 407	Food Processing Waste Management	2020-21
18	B.Tech. (Food Technology)	TFT 407	Food Processing Waste Management	2020-21
19	B.Tech. (Food Technology)	TFT 409	Quality Management of Frozen Foods	2020-21
20	B.Tech. (Food Technology)	TFT 402	Innovative Techniques in Food Processing	2020-21
21	B.Tech. (Food Technology)	TFT 413	Nutraceutical & Functional	2020-21

			Foods	
22	B.Tech. (Chemical Engineering)	TCH 205	Particle & Fluid Particle Processing	2020-21
23	B.Tech. (Chemical Engineering)	TCH 305	Mass Transfer Operation -II	2020-21
24	B.Tech. (Chemical Engineering)	TCH 309	Chemical Engineering Thermodynamics-II	2020-21
25	B.Tech. (Chemical Engineering)	TCH 304	Chemical Reaction Engineering -II	2020-21
26	B.Tech. (Chemical Engineering)	TCH 312	Plant Design and Economics	2020-21
27	B.Tech. (Chemical Engineering)	TCH-405	Nano Technology	2020-21
28	B.Tech. (Chemical Engineering)	TCH-407	Colloids & Interface Science and Engineering	2020-21
29	B.Tech. (Chemical Engineering)	TCH-409	Corrosion Science and Engineering	2020-21
30	B.Tech. (Chemical Engineering)	TCH-417	Principles of Polymer Engineering	2020-21
31	B.Tech. (Chemical Engineering)	OCH 433	OEC IV (Energy Resources and Utilization)	2020-21
32	B.Tech. (Chemical Engineering)	TCH 402	Optimization : Theory and Practices	2020-21
33	B.Tech. (Chemical Engineering)	TCH 406	Mathematical Methods in Chemical Engineering	2020-21
34	B.Tech. (Chemical Engineering)	TCH 408	Statistical Design of Experiments	2020-21
35	B.Tech. (Chemical Engineering)	TCH 410	Advanced Separation Processes	2020-21
36	B.Tech. (Chemical Engineering)	TCH 416	Industrial Pollution Control and Waste Management	2020-21
37	B.Tech. (Chemical Engineering)	OCH 446	OEC V (Air Pollution Monitoring and Control)	2020-21
38	M.Tech. (Chemical Engineering)	TCH-501	Advanced Mathematics and Statistical design of Experiments	2020-21
39	M.Tech. (Chemical Engineering)	TCH-503	Advanced Chemical Engineering Thermodynamics	2020-21
40	M.Tech. (Chemical Engineering)	TCH-505	Advanced Chemical Reaction Engineering	2020-21
41	M.Tech. (Chemical Engineering)	TCH-521	Air Pollution Monitoring and Control	2020-21
42	M.Tech. (Chemical Engineering)	TCH-523	Safety Hazard and Risk Analysis	2020-21
43	M.Tech. (Chemical Engineering)	TCH-525	Instrumental Methods of Analysis	2020-21
44	M.Tech. (Chemical Engineering)	TCH-527	Advanced Petroleum Refining	2020-21
45	M.Tech. (Chemical Engineering)	TCH-502	Advanced Transport Phenomena	2020-21
46	M.Tech. (Chemical Engineering)	TCH-504	Advanced Separation Processes	2020-21
47	M.Tech. (Chemical Engineering)	TCH-506	Optimization of Chemical Processes	2020-21

48	M.Tech. (Chemical Engineering)	TCH-522	Advanced Process Control	2020-21
49	M.Tech. (Chemical Engineering)	TCH-524	Statistical Design of Experiments	2020-21
50	M.Tech. (Chemical Engineering)	TCH526	Design of Piping System for Chemical Plants	2020-21
51	M.Tech. (Chemical Engineering)	TCH528	Water Pollution Monitoring and Control	2020-21
52	M.Tech. (Chemical Engineering)	TCH601	Modeling and Simulation of Chemical Processes	2020-21
53	M.Tech. (Chemical Engineering)	TCH 603	Design & Simulation Lab	2020-21
54	M.Tech. (Chemical Engineering)	TCH631	Principles of Polymer Engineering	2020-21
55	M.Tech. (Chemical Engineering)	TCH633	Solar Thermal Energy Storage	2020-21
56	M.Tech. (Chemical Engineering)	TCH635	Nano Technology	2020-21
57	M.Tech. (Chemical Engineering)	TCH637	Natural Gas Engineering	2020-21
58	M.Tech. (Food Technology)	TFT -501	Advances in Food Technology-I	2020-21
59	M.Tech. (Food Technology)	TFT -503	Engineering Properties of Foods	2020-21
60	M.Tech. (Food Technology)	TFT -505	Microbiology and Chemistry of Foods	2020-21
61	M.Tech. (Food Technology)	TFT -507	Post-harvest/Pre processing Quantified Operations	2020-21
62	M.Tech. (Food Technology)	TFT -509	Food Industry Waste Management	2020-21
63	M.Tech. (Food Technology)	TFT -511	Processing & Preservation of Foods	2020-21
64	M.Tech. (Food Technology)	TFT-502	Advances in Food Technology-II	2020-21
65	M.Tech. (Food Technology)	TFT-504	Food Process Engineering	2020-21
66	M.Tech. (Food Technology)	TFT-506	Food Safety & Quality Assurance	2020-21
67	M.Tech. (Food Technology)	TFT-508	Nutraceutical & Functional Foods	2020-21
68	M.Tech. (Food Technology)	TFT-512	Advances in Food Packaging Technologies	2020-21
69	M.Tech. (Food Technology)	TFT-601	Frozen Food & Cold Chain Management	2020-21
70	M.Tech. (Food Technology)	TFT-603	Novel Techniques in Food Processing & Preservation	2020-21
71	M.Tech. (Food Technology)	TFT-605	Computer Applications in Food Processing	2020-21
72	M.Tech. (Food Technology)	TFT-607	Rheological Properties and Microstructure of Foods	2020-21
73	M.Tech. (Food Technology)	TFT-651	Seminar	2020-21
74	M.Tech. (Chemical Engineering)	TCH 503	Advance Chemical Reaction Engineering	2020-21
75	M.Tech. (Chemical Engineering)	TCH 503	Chemistry & Technology of Oil and Allied Products	2020-21

2019-20

Sr No.	Program name	Course Code	Course Name	Year of Introduction
1	B.Tech. (Chemical Engineering)	TCH 459	Electrochemical Technology	2019-20
2	B.Tech. (Chemical Engineering)	TCH 461	Petroleum Refining & Petrochemical Technology	2019-20
3	B.Tech. (Chemical Engineering)	TCH 465	Bio System Process	2019-20
4	B.Tech. (Chemical Engineering)	TCH 467	Management of R&D	2019-20
5	B.Tech. (Chemical Engineering)	TCH 454	Advanced Chemical Process Control	2019-20
6	All Branches	BCY 101	Engineering Chemistry	2019-20
7	All Branches	BMA 101	Mathematics I	2019-20
8	B.Tech. (Electronics Engineering)	EET 101	Electronics & Instrumentation Engineering	2019-20
9	B.Tech. (Civil Engineering)	ECE 101	Engineering Graphics	2019-20
10	B.Tech. (Computer Science & Engineering)	ECS 101	Computer Concepts & Programming	2019-20
11	All Branches	EWS 101	Workshop Practice	2019-20
12	B.Tech. (Civil Engineering)	ECE 103	Environment & Ecology	2019-20
13	All Branches	BPH 102	Physics	2019-20
14	All Branches	BMA 102	Mathematics II	2019-20
15	B.Tech. (Electrical Engineering)	EEE 102	Electrical Engineering	2019-20
16	B.Tech. (Mechanical Engineering)	EME 102	Engineering Mechanics	2019-20
17	All Branches	HHS 102	English Language & Composition	2019-20
18	All Branches	HHS 104	Professional Communication	2019-20
19	All Branches	BMA 201	Mathematics III	2019-20
20	All Branches	HHS 203	Organisational Behaviour	2019-20
21	B.Tech. (Computer Science & Engineering)	ECS 205	Cyber Security	2019-20
22	All Branches	BCY 202	Modern Analytical Techniques	2019-20
23	All Branches	BMA 206	Computer Oriented Numerical Methods	2019-20
24	All Branches	HHS 202	Engg Economics & Management	2019-20
25	All Branches	HHS 206	Indian Constitution	2019-20
26	All Branches	BMA 302	OEC III (Operations Research)	2019-20
27	B.Tech. (Plastic Technology)	TPL 201	Polymer Chemistry	2019-20
28	B.Tech. (Plastic Technology)	TPL 202	Polymerization Engineering I	2019-20
29	B.Tech. (Plastic Technology)	TPL 301	Polymer Processing I	2019-20
30	B.Tech. (Plastic Technology)	TPL 303	Rheology & Testing of Polymers	2019-20
31	B.Tech. (Plastic Technology)	TPL 304	Polymer Processing II	2019-20
32	B.Tech. (Plastic Technology)	TPL 302	Structure & Property of Polymer	2019-20
33	B.Tech. (Plastic Technology)	TPL 306	Polymerization Engineering II	2019-20

34	B.Tech. (Plastic Technology)	TPL 403	Plastic Product & Mould Design	2019-20
35	B.Tech. (Plastic Technology)	TPL 411	Polymer Composite	2019-20
36	B.Tech. (Plastic Technology)	TPL 407	Technology of Elastomers	2019-20
37	B.Tech. (Plastic Technology)	TPL 401	Advanced Polymer Materials	2019-20
38	B.Tech. (Plastic Technology)	TPL 413	Polymer Blends & Alloys	2019-20
39	B.Tech. (Plastic Technology)	TPL 405	Polymer Product Technology	2019-20
40	B.Tech. (Plastic Technology)	TPL 406	Polymeric Adhesives & Foams	2019-20
41	B.Tech. (Plastic Technology)	TPL 408	Polymer Nanocomposites	2019-20
42	B.Tech. (Plastic Technology)	TPL 402	Plastic Packaging & waste Management	2019-20
43	B.Tech. (Plastic Technology)	TPL 404	Polymer Coating Technology	2019-20
44	B.Tech. (Food Technology)	OFT 433	OEC IV (Nutritional aspects of Natural & Processed Foods)	2019-20
45	B.Tech. (Oil Technology)	TOT 201	Chemistry of Oils & Allied Products	2019-20
46	B.Tech. (Oil Technology)	TOT 202	Sources, Composition, Characterization of Oils, Fats & Waxes	2019-20
47	B.Tech. (Oil Technology)	TOT 303	Technology of Soaps & Fat Splitting	2019-20
48	B.Tech. (Oil Technology)	TOT 301	Expression & Extraction Techniques of Oil Bearing Materials	2019-20
49	B.Tech. (Oil Technology)	TOT 402	Bio Technology of Oil seeds & Oils	2019-20
50	B.Tech. (Oil Technology)	TOT-401	Hydrogenation & Modification of Oils	2019-20
51	B.Tech. (Oil Technology)	TOT 403	Technology of Surfactants & Synthetic Detergents	2019-20
52	B.Tech. (Oil Technology)	TOT 302	Refining of Oils	2019-20
53	B.Tech. (Oil Technology)	TOT 304	Quality Assurance of Oils & Allied Products	2019-20
54	B.Tech. (Oil Technology)	TOT 406	Environmental Aspects of Oils & Allied Industries	2019-20
55	B.Tech. (Oil Technology)	TOT 306	Essential Oils & Cosmetics	2019-20
56	B.Tech. (Oil Technology)	TOT 405	Advance Oil Chemistry & Oleo Chemicals	2019-20
57	B.Tech. (Oil Technology)	TOT 408	Petroleum Products & Petrochemicals	2019-20
58	B.Tech. (Oil Technology)	OOT 433	OEC IV (Technology of Oil, Oil Seeds & Surfactants)	2019-20
59	B.Tech. (Oil Technology)	TOT 404	Packaging of Oils, Fats & Allied Industries	2019-20
60	B.Tech. (Oil Technology)	TOT 410	Fuel & Green Lubricant	2019-20

61	B.Tech. (Leather Technology)	TLT 303	Analysis of Materials of Leather Manufacture	2019-20
62	B.Tech. (Leather Technology)	TLT 304	Processing of Leather-I	2019-20
63	B.Tech. (Leather Technology)	TLT 301	Inorganic Tannages	2019-20
64	B.Tech. (Leather Technology)	TLT 401	Processing of Leather-II	2019-20
65	B.Tech. (Leather Technology)	TLT 407	Organic Tannages	2019-20
66	B.Tech. (Leather Technology)	TLT 306	Leather Analysis and Quality Control	2019-20
67	B.Tech. (Leather Technology)	TLT 302	Post Tanning and Finishing Operation	2019-20
68	B.Tech. (Leather Technology)	TLT 403	Leather Auxialaries Technology	2019-20
69	B.Tech. (Leather Technology)	TLT 406	Leather Trades Engineering	2019-20
70	B.Tech. (Leather Technology)	TLT 402	Tannery Effluent Treatment	2019-20
71	B.Tech. (Leather Technology)	TLT 405	Leather biotechnology	2019-20
72	B.Tech. (Leather Technology)	TLT 411	Footwear Technology	2019-20
73	B.Tech. (Leather Technology)	TLT 409	Animal and Tannery by Products	2019-20
74	B.Tech. (Leather Technology)	OLT 433	OEC IV (Introduction to Leather Technology)	2019-20
75	B.Tech. (Leather Technology)	TLT 408	Computer Aided Leather Product Design	2019-20
76	B.Tech. (Leather Technology)	TLT 413	Footwear materials and Components	2019-20
77	All Branches	BPH-101	Physics	2019-20
78	B.Tech. (Electrical Engineering)	EEE-101	Electrical Engineering	2019-20
79	All Branches	EME-101	Engineering Mechanics	2019-20
80	All Branches	HHS-103	Professional Communication	2019-20
81	All Branches	HHS-101	English Language & Composition	2019-20
82	All Branches	BCY-102	Engineering Chemistry	2019-20
83	B.Tech. (Electronics Engineering)	EET-102	Electronics & Instrumentation Engineering	2019-20
84	B.Tech. (Civil Engineering)	ECE-102	Engineering Graphics	2019-20
85	B.Tech. (Computer Science & Engineering)	ECS-102	Computer Concepts & 'C' Programming	2019-20
86	All Branches	EWS-102	Workshop Practice	2019-20
87	B.Tech. (Civil Engineering)	ECE-104	Environment & Ecology	2019-20
88	B.Tech. (Computer Science & Engineering)	ECS-203	Computer Organisation & Architecture	2019-20
89	B.Tech. (Electronics Engineering)	EET-201	Digital Electronics	2019-20
90	All Branches	BMA-203	Computer Oriented Numerical & Statistical Technique	2019-20
91	B.Tech. (Computer Science & Engineering)	EIT-202	Software Engineering	2019-20
92	B.Tech. (Computer Science & Engineering)	EIT-202	Web Technology	2019-20
93	All Branches	BMA-204	Discrete Mathematical	2019-20

			Structures	
94	All Branches	HHS-204	Organisational Behaviour	2019-20
95	B.Tech. (Computer Science & Engineering)	ECS-304	Operating Systems	2019-20
96	B.Tech. (Computer Science & Engineering)	ECS-307	Principles of Programming Languages	2019-20
97	B.Tech. (Computer Science & Engineering)	ECS-302	Computer Networks	2019-20
98	B.Tech. (Computer Science & Engineering)	ECS-303	Database Management Systems	2019-20
99	B.Tech. (Computer Science & Engineering)	ECS-301	Design & Analysis of Algorithms	2019-20
100	All Branches	BMA 341	Operation Research	2019-20
101	B.Tech. (Computer Science & Engineering)	ECS-306	Compiler Design	2019-20
102	B.Tech. (Computer Science & Engineering)	ECS-204	Object Oriented Systems	2019-20
103	B.Tech. (Computer Science & Engineering)	ECS-308	Computer Graphics	2019-20
104	B.Tech. (Computer Science & Engineering)	ECS-401	Artificial Intelligence	2019-20
105	B.Tech. (Mechanical Engineering)	EME-427	Mechanical Vibration	2019-20
106	B.Tech. (Mechanical Engineering)	EME-442	Industrial Engineering	2019-20
107	B.Tech. (Mechanical Engineering)	EME-415	Finite Element Method	2019-20
108	B.Tech. (Mechanical Engineering)	EME-460	Thermal Turbo Machines	2019-20
109	B.Tech. (Mechanical Engineering)	EME-431	Production Planning & Control	2019-20
110	B.Tech. (Mechanical Engineering)	EME-417	Automobile Engineering	2019-20
111	B.Tech. (Mechanical Engineering)	EME-458	Experimental Stress Analysis	2019-20
112	B.Tech. (Mechanical Engineering)	EME-440	Product Design & Development	2019-20
113	B.Tech. (Mechanical Engineering)	EME-456	Optimization Methods in Engineering	2019-20
114	B.Tech. (Mechanical Engineering)	EME 201	Strength of Material	2019-20
115	B.Tech. (Mechanical Engineering)	EME 203	Material Science	2019-20
116	B.Tech. (Mechanical Engineering)	EME 205	Engineering Thermodynamics	2019-20
117	B.Tech. (Mechanical Engineering)	EME 207	Machine Drawing	2019-20
118	All Branches	HHS 201	Engg. Economics & Management	2019-20
119	All Branches	HHS 205	Indian Constitution	2019-20
120	CE, CS, IT, ME	BMA 206	CONM	2019-20
121	B.Tech. (Civil Engineering)	ECE 202	Engineering Fluid Mechanics	2019-20

122	B.Tech. (Mechanical Engineering)	EME 206	Applied Thermodynamics	2019-20
123	B.Tech. (Mechanical Engineering)	EME 202	Manufacturing Science-I	2019-20
124	B.Tech. (Mechanical Engineering)	EME 208	Kinematics of Machine	2019-20
125	All Branches	HHS-204	Organizational Behavior	2019-20
126	B.Tech. (Computer Science & Engineering)	ECS 202	Cyber Security	2019-20
127	B.Tech. (Mechanical Engineering)	EME 301	Manufacturing Science-II	2019-20
128	B.Tech. (Mechanical Engineering)	EME 303	Heat & Mass Transfer	2019-20
129	B.Tech. (Mechanical Engineering)	EME 305	Dynamics of Machine	2019-20
130	B.Tech. (Mechanical Engineering)	EME 307	Machine Design-I	2019-20
131	B.Tech. (Mechanical Engineering)	EME 302	Fluid Machinery	2019-20
132	B.Tech. (Mechanical Engineering)	EME 304	Machine Design II	2019-20
133	B.Tech. (Mechanical Engineering)	EME 306	Computer Aided Design	2019-20
134	B.Tech. (Mechanical Engineering)	EME-429	Power Plant Engineering	2019-20
135	All Branches	HHS 342	Entrepreneurship Development	2019-20
136	B.Tech. (Mechanical Engineering)	EME 401	Refrigeration & Air Conditioning	2019-20
137	B.Tech. (Electrical Engineering)	EEE-203	Electrical Circuit Analysis	2019-20
138	B.Tech. (Electronics Engineering)	EET-201	Solid State Devices and Circuits	2019-20
139	B.Tech. (Computer Science & Engineering)	ECS- 201	Data Structures using C	2019-20
140	B.Tech. (Electronics Engineering)	EET-204	Signal and Systems	2019-20
141	B.Tech. (Electronics Engineering)	EET-202	Electromagnetic Field Theory	2019-20
142	B.Tech. (Electronics Engineering)	EET-302	Analog Integrated Circuits	2019-20
143	B.Tech. (Electronics Engineering)	EET-301	Analog Communication	2019-20
144	B.Tech. (Electronics Engineering)	EET-303	Antenna and Wave Propagation	2019-20
145	B.Tech. (Electronics Engineering)	EET-305	Microprocessors	2019-20
146	B.Tech. (Electronics Engineering)	EET-479	VLSI Technology	2019-20
147	B.Tech. (Electronics Engineering)	EET-308	VLSI Design	2019-20
148	B.Tech. (Electronics Engineering)	EET-306	Advanced Instrumentation	2019-20
149	B.Tech. (Electronics Engineering)	EET-304	Digital Communication	2019-20

150	B.Tech. (Electronics Engineering)	IEE-503	Control System	2019-20
151	B.Tech. (Electronics Engineering)	EET-401	Digital Signal Processing	2019-20
152	B.Tech. (Mechanical Engineering)	EME 201	Strength of Material	2019-20
153	B.Tech. (Civil Engineering)	ECE 201	Building Material & Construction	2019-20
154	B.Tech. (Civil Engineering)	ECE- 203	Surveying-I	2019-20
155	B.Tech. (Civil Engineering)	ECE-205	Engineering Geology	2019-20
156	B.Tech. (Civil Engineering)	ECE 202	Engineering Fluid Mechanics	2019-20
157	B.Tech. (Civil Engineering)	ECE-204	Structural Analysis-I	2019-20
158	B.Tech. (Civil Engineering)	ECE- 206	Design of Concrete Structure-I	2019-20
159	B.Tech. (Civil Engineering)	ECE- 208	Surveying-II	2019-20
160	B.Tech. (Civil Engineering)	ECE- 301	Hydraulics & Hydraulics Machine	2019-20
161	B.Tech. (Civil Engineering)	ECE-303	Geotech. Engg.-I	2019-20
162	B.Tech. (Civil Engineering)	ECE-305	Structural Analysis-II	2019-20
163	B.Tech. (Civil Engineering)	ECE- 307	Design of Concrete Structure-II	2019-20
164	B.Tech. (Civil Engineering)	ECE- 309	Transportation Engg.-I.	2019-20
165	B.Tech. (Civil Engineering)	ECE-302	Design of Steel Structure	2019-20
166	B.Tech. (Civil Engineering)	ECE- 304	Transportation Engineering - II	2019-20
167	B.Tech. (Civil Engineering)	ECE- 306	Engineering Hydrology	2019-20
168	B.Tech. (Civil Engineering)	ECE-308	Environmental Engineering-I	2019-20
169	B.Tech. (Civil Engineering)	ECE-310	Geotech. Engineering-II	2019-20
170	B.Tech. (Civil Engineering)	ECE- 312	Irrigation & Hydraulic Design	2019-20
171	B.Tech. (Civil Engineering)	ECE-401	Estimation Construction & Management	2019-20
172	B.Tech. (Civil Engineering)	ECE-403	Environmental Engineering-II	2019-20
173	B.Tech. (Civil Engineering)	ECE 451	Bridge Engineering	2019-20
174	B.Tech. (Civil Engineering)	ECE 453	Water Quality Modelling	2019-20
175	B.Tech. (Civil Engineering)	ECE 455	Transportation System and Planning	2019-20
176	B.Tech. (Civil Engineering)	ECE 457	Soil Dynamics	2019-20
177	B.Tech. (Civil Engineering)	ECE 459	Structural Fire Engineering	2019-20
178	B.Tech. (Civil Engineering)	ECE 463	Advanced Design of Steel Structures	2019-20
179	B.Tech. (Civil Engineering)	ECE 465	Environmental Management	2019-20
180	B.Tech. (Civil Engineering)	ECE 467	Water Resources Management	2019-20
181	B.Tech. (Civil Engineering)	ECE 469	Structural Dynamics	2019-20
182	B.Tech. (Civil Engineering)	ECE 471	Computer Aided Structural Engineering	2019-20
183	B.Tech. (Civil Engineering)	ECE 473	Pre-Stressed Concrete	2019-20

			Design	
184	B.Tech. (Civil Engineering)	ECE 475	Geo - Environmental and Geo - Hazard Engineering	2019-20
185	B.Tech. (Civil Engineering)	ECE 452	Design of Wastewater Treatment Systems	2019-20
186	B.Tech. (Civil Engineering)	ECE 454	Environmental Pollution Control	2019-20
187	B.Tech. (Civil Engineering)	ECE 456	Traffic Engineering	2019-20
188	B.Tech. (Civil Engineering)	ECE 458	Advanced Foundation Design	2019-20
189	B.Tech. (Civil Engineering)	ECE 460	Advanced Concrete Technology	2019-20
190	B.Tech. (Civil Engineering)	ECE 462	RS and GIS Applications in Civil Engineering	2019-20
191	B.Tech. (Civil Engineering)	ECE 476	Open Channel and River Hydraulics	2019-20
192	B.Tech. (Civil Engineering)	ECE 478	Advanced Hydrology	2019-20
193	B.Tech. (Civil Engineering)	ECE 480	Planning and Management of Building	2019-20
194	B.Tech. (Civil Engineering)	ECE 482	Construction and Contract Management	2019-20
195	B.Tech. (Civil Engineering)	ECE 484	Precast and Modular Construction Practices	2019-20
196	B.Tech. (Civil Engineering)	ECE 486	Earthquake Resistant Design Systems	2019-20
197	B.Tech. (Civil Engineering)	ECE 479	Environmental Pollution and Management	2019-20
198	B.Tech. (Civil Engineering)	ECE 481	Disaster Management	2019-20
199	B.Tech. (Civil Engineering)	ECE 488	Introduction to RS and GIS	2019-20
200	B.Tech. (Civil Engineering)	ECE 490	Introduction to Infrastructure Engineering	2019-20
201	B.Tech. (Electronics Engineering)	EET-453	Biomedical Signal Processing	2019-20
202	B.Tech. (Electronics Engineering)	EET-455	Satellite Communication	2019-20
203	B.Tech. (Electronics Engineering)	EET-457	Digital System Design using VHDL	2019-20
204	B.Tech. (Electronics Engineering)	EET-477	Wireless Communication	2019-20
205	B.Tech. (Electronics Engineering)	EET-481	Radar and Microwave Engineering	2019-20
206	B.Tech. (Electronics Engineering)	EET-480	Embedded Systems	2019-20
207	B.Tech. (Electronics Engineering)	EET-482	Data Analytics	2019-20
208	B.Tech. (Electronics Engineering)	EET 431	Mobile Communication	2019-20
209	B.Tech. (Electronics Engineering)	EET 433	Biomedical Electronics	2019-20
210	B.Tech. (Electronics Engineering)	EET-476	Image Processing	2019-20

211	B.Tech. (Electronics Engineering)	EET 444	Fuzzy Logic with Electronics Engineering Applications	2019-20
212	B.Tech. (Electronics Engineering)	TMA-501	Engineering Mathematics	2019-20
213	M.Tech.(Oil Technology)	TOT 501	Advance Oleo Chemicals	2019-20
214	M.Tech.(Oil Technology)	TOT 507	Advance in Emulsion Technology	2019-20
215	M.Tech.(Oil Technology)	TOT 501	Quality Control Techniques in Oil and Allied Industries	2019-20
216	M.Tech.(Oil Technology)	TOT 509	Interfacial Science and Engineering	2019-20
217	M.Tech.(Oil Technology)	TOT 511	Lipid Biotechnology	2019-20
218	M.Tech.(Oil Technology)	TOT 603	Nutritional and Functional Foods	2019-20
219	M.Tech.(Oil Technology)	TOT 609	Perfumery and Cosmetics	2019-20
220	M.Tech.(Oil Technology)	TOT 651	Seminar	2019-20

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Sr No.	Program name	Course Code	Course Name	Year of Introduction
1	B.Tech. (Biochemical Engineering)	TBE 201	Microbiology	2018-19
2	B.Tech. (Biochemical Engineering)	TBE-202	Biochemistry	2018-19
3	B.Tech. (Biochemical Engineering)	TBE 301	Molecular Biology & Genetic Engineering	2018-19
4	B.Tech. (Biochemical Engineering)	TBE 303	Bioprocess Engineering	2018-19
5	B.Tech. (Biochemical Engineering)	TBE- 302	Down Stream Processing	2018-19
6	B.Tech. (Biochemical Engineering)	TBE- 304	Fermentation Technology	2018-19
7	B.Tech. (Biochemical Engineering)	TBE 306	Environmental Biotechnology	2018-19
8	B.Tech. (Biochemical Engineering)	TBE 401	Enzyme Engineering & Technology	2018-19
9	B.Tech. (Biochemical Engineering)	TBE 403	Bioreactor Design	2018-19
10	B.Tech. (Biochemical Engineering)	TBE 402	IPR & Biosafety Regulation	2018-19
11	B.Tech. (Biochemical Engineering)	TBE 413	Food Biotechnology	2018-19
12	B.Tech. (Biochemical Engineering)	TBE 407	Plant Cell Biotechnology	2018-19
13	B.Tech. (Biochemical Engineering)	TBE 411	Novel Bioproducts	2018-19
14	B.Tech. (Biochemical Engineering)	TBE 415	OEC IV (Principles of Biochemical Engineering)	2018-19
15	B.Tech. (Biochemical Engineering)	TBE 461	Industrial Training	2018-19
16	B.Tech. (Biochemical Engineering)	TBE 471	Seminar	2018-19
17	B.Tech. (Biochemical Engineering)	TBE 417	Educational Tour	2018-19

	Engineering)			
18	B.Tech. (Biochemical Engineering)	TBE 406	Bioprocess Equipment Design	2018-19
19	B.Tech. (Biochemical Engineering)	TBE 404	Instrumentation And Control Bioprocesses	2018-19
20	B.Tech. (Biochemical Engineering)	TBE 408	Biomaterial Science & Engineering	2018-19
21	B.Tech. (Paint Technology)	TPT 201	Introduction to Surface Coatings and their Components	2018-19
22	B.Tech. (Paint Technology)	TPT 301	Technology of Natural Resins, Alkyds and Polyesters	2018-19
23	B.Tech. (Paint Technology)	TPT 303	Technology of Synthetic Resins and Polymers	2018-19
24	B.Tech. (Paint Technology)	TPT 304	Characterization, Analysis and Evaluation of Coatings	2018-19
25	B.Tech. (Paint Technology)	TPT 302	Technology of Organic, Functional and Effect Pigments	2018-19
26	B.Tech. (Paint Technology)	TPT 306	Technology of Formulation and Manufacture of Coatings	2018-19
27	B.Tech. (Paint Technology)	TPT 407	Technology of Industrial and Specialty Coatings	2018-19
28	B.Tech. (Paint Technology)	TPT 401	Technology of Surface Preparation, Treatments and Coating Applications	2018-19
29	B.Tech. (Paint Technology)	TPT 411	Technology of Architectural and Eco-friendly Coatings	2018-19
30	B.Tech. (Paint Technology)	TPT 406	Corrosion Control Technology	2018-19
31	B.Tech. (Paint Technology)	TPT 405	Technology of Industrial and Automotive Coatings	2018-19
32	B.Tech. (Paint Technology)	TPT 408	Nanotechnology in Surface Coatings	2018-19
33	B.Tech. (Paint Technology)	TPT 404	High Polymeric Engineering	2018-19
34	B.Tech. (Paint Technology)	TPT 402	Technology Of Packaging And Waste Management	2018-19
35	M.Tech. (Biochemical Engineering)	TBE-501	Bioreactor Design and Analysis	2018-19
36	M.Tech. (Biochemical Engineering)	TBE-503	Structural and Molecular Biology	2018-19
37	M.Tech. (Biochemical Engineering)	TBE-507	Analytical Methods in Bioprocess	2018-19
38	M.Tech. (Biochemical Engineering)	TBE-509	Biochemical Engineering	2018-19
39	M.Tech. (Biochemical Engineering)	TBE-502	Bioseparation and Downstream Processing	2018-19
40	M.Tech. (Biochemical Engineering)	TBE-504	Bioprocess Technology	2018-19
41	M.Tech. (Biochemical Engineering)	TBE-508	Plant Biotechnology	2018-19

42	M.Tech. (Biochemical Engineering)	TBE-510	Animal Cell Culture and Tissue Engineering	2018-19
43	M.Tech. (Biochemical Engineering)	TBE-601	Industrial Enzymes	2018-19
44	M.Tech. (Biochemical Engineering)	TBE-603	Bioprocess Plant Design	2018-19
45	M.Tech. (Biochemical Engineering)	TBE-605	Bioenterprenuership and Regulatory Issues	2018-19
46	M.Tech. (Biochemical Engineering)	TBE-607	Bioenergy	2018-19

2017-18

Sr No.	Program name	Course Code	Course Name	Year of Introduction
1	All Branches	HHS - 204	Organizational Behaviour	2017-18
2	All Branches	BMA-301	Operation Research	2017-18
3	B.Tech. (Civil Engineering)	OCE-433	Environmental Pollution and Management	2017-18
4	B.Tech. (Civil Engineering)	ECE-451	Bridge Engineering	2017-18
5	B.Tech. (Civil Engineering)	ECE-473	Computer Aided Structure Engineering	2017-18
6	B.Tech. (Civil Engineering)	OCE-444	Introduction to RS and GIS	2017-18
7	B.Tech. (Civil Engineering)	ECE-458	Advanced Foundation Design	2017-18
8	B.Tech. (Civil Engineering)	ECE-482	Construction and Contract Management	2017-18
9	M.Tech. (Civil Engineering)	ECE-517	Physico-Chemical Processes in Water and Wastewater	2017-18
10	M.Tech. (Civil Engineering)	ECE-514	Principles of Cleaner Production	2017-18
11	M.Tech. (Civil Engineering)	ECE-518	Occupational Health and Safety	2017-18
12	M.Tech. (Civil Engineering)	ECE-603	Remote Sensing and GIS for Environmental Applications	2017-18
13	M.Tech. (Civil Engineering)	ECE-605	Environmental Hydraulics	2017-18
14	M.Tech. (Civil Engineering)	ECE-607	Application of soft computing techniques	2017-18
15	M.Tech. (Civil Engineering)	ECE-609	Transport of Water and Wastewater	2017-18
16	M.Tech. (Chemical Engineering)	TCH 653	Design & Simulation Lab	2017-18



(Anand Kumar)

Dean of Academic Affairs