



हरकोर्ट बटलर प्राविधिक विश्वविद्यालय

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

HARCOURT BUTLER TECHNICAL UNIVERSITY

NAWABGANJ, KANPUR - 208002, U.P., INDIA

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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

1.2.1.1: How many new courses were introduced during the last year

2023-2024

1	B.Tech.	NBE201	Fundamental of Life Processes	2023-2024
2	B.Tech.	NBE203	Industrial Microbiology	2023-2024
3	B.Tech.	NBE207	Microbial Techniques Lab	2023-2024
4	B.Tech.	NBE202	Biochemistry	2023-2024
5	B.Tech.	NBE204	Environmental Biotechnology	2023-2024
6	B.Tech.	NBE206	Biochemical Analysis Lab	2023-2024
7	B.Tech.	NFT201	Fundamentals of Food Science and Human Nutrition	2023-2024
8	B.Tech.	NFT203	Microbiology and Biochemistry of Food	2023-2024
9	B.Tech.	NFT205	Food Analysis Lab	2023-2024
10	B.Tech.	NFT202	Food Chemistry	2023-2024
11	B.Tech.	NFT204	Principles of Food Preservation	2023-2024
12	B.Tech.	NFT206	Food Chemistry Lab	2023-2024
13	B.Tech.	NOT201	Chemistry of Oil & Allied Products	2023-2024
14	B.Tech.	NOT203	Source Composition Characterization of Oils, Fats & Waxes	2023-2024
15	B.Tech.	NOT205	Oil & Oilseed Analysis Lab	2023-2024
16	B.Tech.	NOT202	Expression & Extraction Technique of Oil Bearing Materials	2023-2024
17	B.Tech.	NOT204	Essential Oil and Cosmetics	2023-2024
18	B.Tech.	NOT206	Oil Characterization Lab	2023-2024
19	B.Tech.	NPT201	Introduction to Surface Coatings and their Components	2023-2024
20	B.Tech.	NPT203	Technology of Organic, Functional and Effect Pigments	2023-2024
21	B.Tech.	NPT207	Introduction to Surface Coatings and their Components Lab	2023-2024
22	B.Tech.	NPT202	Technology of Natural Resins, Alkyds and Polyesters	2023-2024
23	B.Tech.	NPT208	Technology of Inorganic Pigments and Extenders	2023-2024
24	B.Tech.	NPT210	Pigments and Extenders Lab	2023-2024
25	B.Tech.	NPL201	Introduction to Polymer Chemistry	2023-2024
26	B.Tech.	NPL203	Polymerization Engineering-I	2023-2024
27	B.Tech.	NPL207	Polymer Chemistry Lab	2023-2024
28	B.Tech.	NPL202	Processing of Polymers -I	2023-2024
29	B.Tech.	NPL208	Polymerization Engineering-II	2023-2024
30	B.Tech.	NPL210	Polymerization Engineering Lab	2023-2024
31	B.Tech.	NLT201	Leather Microscopy & Skin Proteins	2023-2024
32	B.Tech.	NLT203	Pre-Tanning & Tanning of Hides & Skins	2023-2024
33	B.Tech.	NLT207	Leather Microscopy & Skin Pre-Tannages Lab	2023-2024
34	B.Tech.	NLT202	Analysis of Materials of Leather Manufacture	2023-2024
35	B.Tech.	NLT208	Introduction to Post Tanning Operations	2023-2024
36	B.Tech.	NLT210	Analysis of Materials of Leather Manufacture Lab	2023-2024
37	B.Tech.	NCH201	Chemical Engineering Fluid Mechanics	2023-2024
38	B.Tech.	NCH203	Particle and Fluid Particle processing	2023-2024
39	B.Tech.	NCH205	Chemical Engineering Thermodynamics -I	2023-2024
40	B.Tech.	NCH207	Chemical Process Calculation	2023-2024
41	B.Tech.	NCH202	Process Heat Transfer	2023-2024
42	B.Tech.	NCH204	Mass Transfer Operations -I	2023-2024
43	B.Tech.	NCH206	Chemical Engineering Thermodynamics -II	2023-2024

44	B.Tech.	NCH208	Chemical Reaction Engineering -I	2023-2024
45	B.Tech.	NMA201	Engineering Mathematics-II	2023-2024
46	B.Tech.	NCT201	Fluid Mechanics and Mechanical Operations	2023-2024
47	B.Tech.	NCT203	Chemical Process Calculations	2023-2024
48	B.Tech.	NHS201	Industrial Economics & Management	2023-2024
49	B.Tech.	NCY202	Modern Analytical Techniques	2023-2024
50	B.Tech.	NMA204	Computer Oriented Numerical Methods	2023-2024
51	B.Tech.	NCT204	Chemical Engineering Thermodynamics	2023-2024
52	B.Tech.	NCT202	Heat Transfer Operations	2023-2024
53	B.Tech.	NME201	Strength of Material	2023-2024
54	B.Tech.	NME203	Material Science	2023-2024
55	B.Tech.	NME205	Engg. Thermodynamics	2023-2024
56	B.Tech.	NME207	Kinematics of Machine	2023-2024
57	B.Tech.	NME209	Mechanical Measurement	2023-2024
58	B.Tech.	NME211	Machine Drawing	2023-2024
59	B.Tech.	NME202	Fluid Mechanics	2023-2024
60	B.Tech.	NME204	Manufacturing Science I	2023-2024
61	B.Tech.	NME206	Heat & Mass Transfer	2023-2024
62	B.Tech.	NME208	Dynamics of Machine	2023-2024
63	B.Tech.	NME210	Engg. Materials	2023-2024
64	B.Tech.	NET201	Solid State Devices and Circuits	2023-2024
65	B.Tech.	NET203	Digital Electronics	2023-2024
66	B.Tech.	NET205	Hardware Description Language	2023-2024
67	B.Tech.	NET211	Electrical Measurement and Measuring Instruments	2023-2024
68	B.Tech.	NET207	Digital Electronics	2023-2024
69	B.Tech.	NET209	Solid State Devices and Circuits	2023-2024
70	B.Tech.	NET202	Electro Magnetic Field Theory	2023-2024
71	B.Tech.	NET204	Signals & Systems	2023-2024
72	B.Tech.	NET206	Analog Circuits	2023-2024
73	B.Tech.	NET208	Digital Electronics	2023-2024
74	B.Tech.	NEE201	Electrical Machines-I	2023-2024
75	B.Tech.	NEE203	Basic System Analysis	2023-2024
76	B.Tech.	NEE205	Electrical Measurement and Measuring Instruments	2023-2024
77	B.Tech.	NEE207	Electromagnetic Field Theory	2023-2024
78	B.Tech.	NEE209	Electrical Circuit Analysis	2023-2024
79	B.Tech.	NEE202	Electrical Machines-II	2023-2024
80	B.Tech.	NEE204	Electrical Circuit Analysis	2023-2024
81	B.Tech.	NEE206	Electrical Engineering Materials	2023-2024
82	B.Tech.	NCS201	Data Structure using C	2023-2024
83	B.Tech.	NCS203	Python Programming	2023-2024
84	B.Tech.	NCS205	Computer Organization	2023-2024
85	B.Tech.	NCS207	Introduction to Emerging Technologies in ICT	2023-2024
86	B.Tech.	NIT202	Web Technology	2023-2024
87	B.Tech.	NCS204	Principles of Programming Languages	2023-2024
88	B.Tech.	NCS202	Software Engineering	2023-2024
89	B.Tech.	NCS206	Operating System	2023-2024
90	B.Tech.	NCE203	Surveying	2023-2024
91	B.Tech.	NCE205	Building Material and Construction	2023-2024
92	B.Tech.	NCE207	Geotechnical Engineering I	2023-2024
93	B.Tech.	NCE202	HHM/C	2023-2024
94	B.Tech.	NCE204	SA-I	2023-2024
95	B.Tech.	NCE206	DCS-I	2023-2024
96	B.Tech.	NCE208	Environmental Engg – I	2023-2024

97	B.Tech.	NCE210	Transportation Engineering-I	2023-2024
98	B.Tech.	NMA201	Engg. Math-II	2023-2024
99	B.Tech.	NCE201	Fluid Mechanics	2023-2024
100	B.Tech.	NMA202	Engg. Math III	2023-2024
101	B.Tech.		Engg. Economics & Management	2023-2024
102	M.Tech.	NBE501	Advanced Bioreactor Design	2023-2024
103	M.Tech.	NBE503	Structural Molecular Biology	2023-2024
104	M.Tech.	NBE505	Advances in Environmental Biotechnology	2023-2024
105	M.Tech.	NBE509	Analytical Methods in Bioprocesses	2023-2024
106	M.Tech.	NBE511	Design of Fermenters	2023-2024
107	M.Tech.	NBE513	Advanced Molecular Biology	2023-2024
108	M.Tech.	NBE515	Plant Cell Culture Techniques	2023-2024
109	M.Tech.	NBE502	Advanced Industrial Enzymes	2023-2024
110	M.Tech.	NBE504	Bioenergy	2023-2024
111	M.Tech.	NBE506	Bioprocess Technology	2023-2024
112	M.Tech.	NBE508	Advance Protein Engineering	2023-2024
113	M.Tech.	NBE510	Bioprocess Plant Design	2023-2024
114	M.Tech.	NFT501	Advances in Food Technology-I	2023-2024
115	M.Tech.	NFT503	Engineering Properties of Foods	2023-2024
116	M.Tech.	NFT505	Microbiology and Chemistry of Foods	2023-2024
117	M.Tech.	NFT507	Postharvest/Pre processing Quantified Operations	2023-2024
118	M.Tech.	NFT509	Food Industry Waste Management	2023-2024
119	M.Tech.	NFT511	Processing & Preservation of Foods	2023-2024
120	M.Tech.	NFT502	Advances in Food Technology-II	2023-2024
121	M.Tech.	NFT504	Food Process Engineering	2023-2024
122	M.Tech.	NFT506	Food Safety & Quality Assurance	2023-2024
123	M.Tech.	NFT508	Nutraceutical & Functional Foods	2023-2024
124	M.Tech.	NFT510	Cryogenic Systems in food processing	2023-2024
125	M.Tech.	NFT512	Advances in Food Packaging Technologies	2023-2024
126	M.Tech.	NPL501	Advanced Polymer Chemistry	2023-2024
127	M.Tech.	NPL505	Advanced Polymer Processing	2023-2024
128	M.Tech.	NPL509	Advanced Polymer Composites	2023-2024
129	M.Tech.	NPL513	Polymer Processing	2023-2024
130	M.Tech.	NPL513	High Polymer Chemistry	2023-2024
131	M.Tech.	NPL517	Polymer Rheology	2023-2024
132	M.Tech.	NPL519	Polymer Additives and Compounding	2023-2024
133	M.Tech.	NPL502	Advanced Polymerization Engineering	2023-2024
134	M.Tech.	NPL504	Advanced Plastic Product and Mould Design	2023-2024
135	M.Tech.	NPL506	Polymer Testing and Characterization	2023-2024
136	M.Tech.	NPL510	Advanced Rubber Technology	2023-2024
137	M.Tech.	NPL512	Structure-Property relationship in Polymers	2023-2024
138	M.Tech.	NOT501	Advances in Oleo Chemicals	2023-2024
139	M.Tech.	NOT505	Nutraceuticals and Functional Foods	2023-2024
140	M.Tech.	NOT507	Perfumery and Cosmetics	2023-2024
141	M.Tech.	NOT513	Chemistry of Oil & Allied Products	2023-2024
142	M.Tech.	NOT515	Quality Control Techniques in Oil and Allied Industries	2023-2024
143	M.Tech.	NOT517	Interfacial Science and Engineering	2023-2024
144	M.Tech.	NOT519	Lipid Biotechnology	2023-2024
145	M.Tech.	NOT521	Modern Processing Tools related to Oil and Allied Industries	2023-2024
146	M.Tech.	NOT502	Modern Technology of Oil- bearing Materials	2023-2024
147	M.Tech.	NOT504	Modern Processing OF Oils	2023-2024
148	M.Tech.	NOT512	Soaps and Synthetic Detergents	2023-2024
149	M.Tech.	NOT514	Research Methodology (Audit Course)	2023-2024

150	M.Tech.	NPT501	Advances in Chemistry and Technology of Film Formers	2023-2024
151	M.Tech.	NPT505	Pigmentation of Surface Coatings	2023-2024
152	M.Tech.	NPT509	Water-reducible Coatings	2023-2024
153	M.Tech.	NPT513	Technology of Resins and Polymers	2023-2024
154	M.Tech.	NPT515	Chemistry and Technology of Pigments	2023-2024
155	M.Tech.	NPT517	Technology of Surface Coatings	2023-2024
156	M.Tech.	NPT519	Technology of Surfactants & Coating Additives	2023-2024
157	M.Tech.	NPT521	Safety, Health and Environmental hazards in Paint Industry	2023-2024
158	M.Tech.	NPT502	Modern Evaluation Techniques of Surface Coatings	2023-2024
159	M.Tech.	NPT504	Modern Manufacturing Techniques of Surface Coatings	2023-2024
160	M.Tech.	NPT506	High Performance Coatings	2023-2024
161	M.Tech.	NPT508	Statistical Design of Experiments	2023-2024
162	M.Tech.	NPT510	Advances in Printing Inks	2023-2024
163	M.Tech.	NPT512	Advances in Packaging Technology	2023-2024
164	M.Tech.	NCH501	Advanced Chemical Engineering Thermodynamics	2023-2024
165	M.Tech.	NCH503	Advanced Chemical Reaction Engineering	2023-2024
166	M.Tech.	NCH505	Optimization of Chemical Processes	2023-2024
167	M.Tech.	NCH507	Artificial Intelligence in Chemical Engineering	2023-2024
168	M.Tech.	NCH509	Advanced Mathematical Methods in Chemical Engineering	2023-2024
169	M.Tech.	NCH511	Safety Hazard and Risk Analysis	2023-2024
170	M.Tech.	NCH513	Instrumental Method of Analysis	2023-2024
171	M.Tech.	NCH502	Advanced Transport Phenomena	2023-2024
172	M.Tech.	NCH504	Advanced Separation Processes	2023-2024
173	M.Tech.	NCH506	Modeling And Simulation of Chemical Processes	2023-2024
174	M.Tech.	NCH507	Artificial Intelligence in Chemical Engineering	2023-2024
175	M.Tech.	NCH508	Statistical Design of Experiment	2023-2024
176	M.Tech.	NCH510	Nanomaterials in Science & Engineering	2023-2024
177	M.Tech.	NCH512	Design of Piping System for Chemical Plants	2023-2024
178	M.Tech.	NME501	Numerical Methods and Computer Programming	2023-2024
179	M.Tech.	NME503	Optimization for Engineers	2023-2024
180	M.Tech.	NME505	Computer Graphics & Geometric Modelling	2023-2024
181	M.Tech.	NME511	Mechatronics	2023-2024
182	M.Tech.	NME513	Robotics & Automation	2023-2024
183	M.Tech.	NME515	Advanced Welding Technology	2023-2024
184	M.Tech.	NME517	Advance Machine Design	2023-2024
185	M.Tech.	NME502	Material Selection in Design	2023-2024
186	M.Tech.	NME504	Finite Element Method	2023-2024
187	M.Tech.	NME506	Product Design & Development	2023-2024
188	M.Tech.	NME514	Soft Computing Techniques	2023-2024
189	M.Tech.	NME516	Mechanical System Design	2023-2024
190	M.Tech.	NME518	Simulation Modeling & Analysis	2023-2024
191	M.Tech.	NME520	Smart Materials & Structures	2023-2024
192	M.Tech.	NCE501	Environmental Process Chemistry and Microbiology	2023-2024
193	M.Tech.	NCE503	Environmental Quality and Pollution Management	2023-2024
194	M.Tech.	NCE505	Air Pollution and Control Engineering	2023-2024
195	M.Tech.	NCE502	Design of waste water treatment systems	2023-2024
196	M.Tech.	NCE506	Environmental system analysis	2023-2024
197	M.Tech.	NCE504	Solid and hazardous waste management	2023-2024
198	M.Tech.	NCE511	Surface Water Quality Modeling and Control	2023-2024
199	M.Tech.	NCE513	Remote Sensing and GIS for Environmental Applications	2023-2024
200	M.Tech.	NCE515	Groundwater Flow and Pollution Modeling	2023-2024
201	M.Tech.	NCE517	Advanced Water and Waste Water Treatment	2023-2024
202	M.Tech.	NCE510	Industrial Wastewater Treatment	2023-2024

203	M.Tech.	NCE512	Life Cycle Analysis and Design for Environment	2023-2024
204	M.Tech.	NCE514	Probability and Statistics for Engineers	2023-2024
205	M.Tech.	NCE516	Geo-environmental Engineering	2023-2024
206	M.Tech.	NCE518	Toxicology and Environmental Risk Assessment	2023-2024
207	M.Tech.	NCS501	Advanced Algorithm	2023-2024
208	M.Tech.	NCS503	Professional Aspects of Software Engineering	2023-2024
209	M.Tech.	NCS505	Advanced Programming Concepts using Python	2023-2024
210	M.Tech.	NCS511	Data Science	2023-2024
211	M.Tech.	NCS502	Artificial Intelligence	2023-2024
212	M.Tech.	NCS504	Computer & Network Security	2023-2024
213	M.Tech.	NCS506	Advanced Databases	2023-2024
214	M.Tech.	NCS516	Digital Image Processing	2023-2024
215	M.Tech.	NEE501	Advanced Control Systems	2023-2024
216	M.Tech.	NEE503	Applied System Theory	2023-2024
217	M.Tech.	NEE505	Advanced Power Electronics	2023-2024
218	M.Tech.	NEE509	Non-Conventional Energy Sources	2023-2024
219	M.Tech.	NEE502	Digital Control System	2023-2024
220	M.Tech.	NEE504	Power Quality & FACTS	2023-2024
221	M.Tech.	NEE506	Instrumentation and Process Control	2023-2024
222	M.Tech.	NEE508	Neural Network & Fuzzy Systems	2023-2024
223	M.Tech.	NET501	Introduction to Signal Analysis	2023-2024
224	M.Tech.	NET503	Data Communication Networks	2023-2024
225	M.Tech.	NET505	Optical Communication	2023-2024
226	M.Tech.	NET521	Space Communication	2023-2024
227	M.Tech.	NET523	Wireless Communication	2023-2024
228	M.Tech.	NET525	Advanced Microprocessor	2023-2024
229	M.Tech.	NET527	Communication Theory	2023-2024
230	M.Tech.	NET529	Analog VLSI Circuits	2023-2024
231	M.Tech.	NET531	Neural Network	2023-2024
232	M.Tech.	NET535	Information Theory & Coding	2023-2024
233	M.Tech.	NET533	Antenna Analysis & Synthesis	2023-2024
234	M.Tech.	NET502	Digital Communication	2023-2024
235	M.Tech.	NET504	Architecture & Applications of Digital Signal Processors	2023-2024
236	M.Tech.	NET506	Estimation and Detection Theory	2023-2024
237	M.Tech.	NET522	RF Systems	2023-2024
238	M.Tech.	NET524	Digital System Design	2023-2024
239	M.Tech.	NET526	VLSI System Design	2023-2024
240	M.Tech.	NET528	Embedded Systems	2023-2024
241	M.Tech.	NET530	Advance Semiconductor Devices	2023-2024
242	M.Tech.	NET532	Image Processing	2023-2024
243	M.Tech.	NET534	VLSI Implementation of Digital Processors	2023-2024
244	M.Tech.	NET536	Telecommunication & Switching	2023-2024
245	BS+MS	NMA112	INTRODUCTION TO DATA SCIENCE AND ANALYTICS	2023-2024
246	BS+MS	NMA114	PYTHON FOR DATA SCIENCE	2023-2024
247	M.Sc.	BMA651	FUNCTIONAL ANALYSIS	2023-2024
248	M.Sc.	BMA653	COMPLEX ANALYSIS	2023-2024
249	M.Sc.	BMA655	DEEP LEARNING	2023-2024
250	M.Sc.	BMA657	INTERNSHIP/ SEMINAR	2023-2024
251	M.Sc.	BMA659	PEC-I (COMPUTER VISION)	2023-2024
252	M.Sc.	BMA661	PROJECT	2023-2024
253	M.Sc.	BMA652	DIFFERENTIAL EQUATIONS	2023-2024
254	M.Sc.	BMA654	BIG DATA ANALYTICS	2023-2024
255	M.Sc.	BMA656	PEC-II (NATURAL LANGUAGE PROCESSING)	2023-2024

256	M.Sc.	BMA658	CAPSTONE PROJECT	2023-2024
257	M.Sc.	BCY651	Physical Chemistry -III	2023-2024
258	M.Sc.	BCY653	Organic Chemistry -III	2023-2024
259	M.Sc.	BCY655	Bioinorganic Chemistry	2023-2024
260	M.Sc.	BCY657	Internship	2023-2024
261	M.Sc.	BCY659	Material Chemistry	2023-2024
262	M.Sc.	BCY659	Natural Products and Medicinal Chemistry	2023-2024
263	M.Sc.	BCY659	Supramolecular Chemistry	2023-2024
264	M.Sc.	BCY661	Minor Project	2023-2024
265	M.Sc.	BCY650	Analytical Chemistry -III	2023-2024
266	M.Sc.	BCY652	Energy and Environmental Sustainability	2023-2024
267	M.Sc.	BCY654	Green Chemistry	2023-2024
268	M.Sc.	BCY654	Solid State Chemistry	2023-2024
269	M.Sc.	BCY654	Nano material Chemistry	2023-2024
270	M.Sc.	BCY654	Polymer Chemistry	2023-2024
271	M.Sc.	BCY656	Capstone project	2023-2024
272	BBA	NBA101	Principles of Management	2023-2024
273	BBA	NBA103	Business Economics	2023-2024
274	BBA	NBA105	Financial Accounting	2023-2024
275	BBA	NBA107	IT Applications in Management	2023-2024
276	BBA	NBA109	Business Communication	2023-2024
277	BBA	NBA111	Live Project 1 (4 weeks)	2023-2024
278	BBA	NBA102	Organizational Behavior	2023-2024
279	BBA	NBA104	Macro Economics	2023-2024
280	BBA	NBA106	Management Accounting	2023-2024
281	BBA	NBA108	Business Statistics	2023-2024
282	BBA	NBA110	Business Environment	2023-2024
283	BBA	NBA112	Live Project 2 (4 weeks)	2023-2024
284	MBA	MBA101	Principle & Practice of Management	2023-2024
285	MBA	MBA103	Marketing Management	2023-2024
286	MBA	MBA105	Managerial Economics	2023-2024
287	MBA	MBA107	Business Statistic & Analytics	2023-2024
288	MBA	MBA109	Financial Statements and Analysis	2023-2024
289	MBA	MBA111	Business Environment & Law	2023-2024
290	MBA	MBA113	Computer Applications & skills for Managers	2023-2024
291	MBA	MBA115	Business communication & Soft Skills Development	2023-2024
292	MBA	MBA102	Research Methodology	2023-2024
293	MBA	MBA104	Business Analytics & Data Science	2023-2024
294	MBA	MBA106	Operations Research	2023-2024
295	MBA	MBA108	Agri-Business Management	2023-2024
296	MBA	MBA110	Financial Management	2023-2024
297	MBA	MBA112	Production & Operations Management	2023-2024
298	MBA	MBA114	Human Resource Management	2023-2024
299	MBA	MBA116	Management Information System	2023-2024

(Dr. Lalit Kumar Singh)
Dean of Academic Affairs