



### CRITERION I - CURRICULAR ASPECTS

METRIC	PARTICULAR
1.2.1	Percentage of new courses introduced of the total number of courses across all programs offered during the last five years.

HEI INPUT	<p>1.2.1.1. How many new courses are introduced within the last five years HEI Input : 736</p> <p>1.2.1.2. Number of courses offered by the institution across all programmes during the last five years. HEI Input : 3566</p>
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DVV CLARIFICATION	HEI RESPONSE
Provide List of new courses introduced program-wise during the last five-year period as certified by the Registrar for the year 2021-22.	List of new courses introduced program-wise during the last five-year period certified by the Principal for the year 2021-22 are provided.

#### List of Documents uploaded

List of new courses introduced program-wise during the last five-year period certified by the Principal for the year 2021-22 are provided.	<a href="#">View Documents</a>
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**1.2.1 Percentage of new courses introduced of the total number of courses across all programs offered during the last five years.**

S.No.	Program Code	Program Name	Course Code	Name of the Course
1.	AE	B.E. AERONAUTICAL ENGINEERING	AE17301	Manufacturing Technology
2.			AE17302	Aero Engineering Thermodynamics
3.			AE17303	Fluid Mechanics and Machinery
4.			AE17312	Computer Aided Modeling Laboratory
5.			AE17361	Solid Mechanics and Fluid Mechanics Laboratory
6.			AE17401	Aerodynamics - I
7.			AE17402	Aircraft Systems and Instruments
8.			AE17403	Mechanics of Machines
9.			AE17404	Aircraft Structures - I
10.			AE17405	Aircraft Performance
11.			AE17412	Aerodynamics Laboratory - I
12.			AE17413	Aircraft Component Drawing
13.			AE17504	Aircraft Stability and Control
14.			AE17512	Airframe Repair Laboratory
15.			AE17513	Aerodynamics Laboratory - II
16.			AE17603	Flight Vehicle Design
17.			AE17605	Experimental Aerodynamics
18.			AE17611	Structural Analysis and MATLAB Laboratory
19.			AE17701	Avionics
20.			AE17702	Computational Fluid Dynamics
21.			AE17711	Flow Simulation Laboratory
22.			AE17712	Avionics Laboratory



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S.No.	Program Code	Program Name	Course Code	Name of the Course		
23.	AE	B.E. AERONAUTICAL ENGINEERING	AE17E52	Heat Transfer		
24.			AE17E55	Applied Aerodynamics		
25.			AE17E71	Helicopter Dynamics		
26.			AE17E72	Combustion and Flames		
27.			AE17E73	Aircraft General Engineering and Maintenance Practices		
28.			AE17E81	Boundary Layer Theory		
29.			AE17E86	Entrepreneurship Development		
30.			AE17E89	Spray Theory		
31.			AE17E90	Introduction to Product Development		
32.			MA17251	Engineering Mathematics - II		
33.			AE19442	Aircraft Materials And Processes		
34.			AE19612	Innovation And Design Thinking For Engineers		
35.			AE19P53	Civil Aviation Requirements		
36.			AI	B.TECH. ARTIFICIAL INTELLIGENCE & MACHINE LEARNING	AI19541	Fundamentals of Deep Learning
37.					GE19122	Engineering Practices- Electrical and Electronics
38.	MA19254	Probability and Inferential Statistics				
39.	AT	B.E.AUTOMOBILE ENGINEERING	AE17505	Control Engineering		
40.			AT17201	Applied Thermodynamics		
41.			AT17303	Automotive Heat Transfer		
42.			AT17311	(A) Thermal Laboratory and (B) Fluid Mechanics and Machinery Laboratory		
43.			AT17401	Theory Of Machines		
44.			AT17404	Production Technology - II		
45.			AT17411	(A) Strength of Materials Laboratory and(B) Theory of Machines Laboratory		

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S.No.	Program Code	Program Name	Course Code	Name of the Course
46.	AT	B.E.AUTOMOBILE ENGINEERING	AT17413	Computer Aided Automotive Machine Drawing Lab
47.			AT17502	Electrical Drives and Microcontrollers
48.			AT17503	Automotive Electrical and Electronics
49.			AT17504	Automotive Pollution and Control
50.			AT17511	Automotive Electrical and Electronics Laboratory
51.			AT17512	Geometric Modelling of Automotive Systems
52.			AT17601	Automotive System Design
53.			AT17602	Electric and Hybrid Vehicles
54.			AT17603	Automotive Fuels and Lubricants
55.			AT17612	Computer Aided Vehicle Design Data Characteristics Laboratory
56.			AT17613	Mini Project
57.			AT17702	Intelligent Vehicle System
58.			AT17712	Computer Aided Analysis of Automotive Components Laboratory
59.			AT17714	Technical Seminar/ Industrial Training/Comprehension
60.			AT17E71	Two and Three Wheelers
61.			AT17E73	Automotive Sensors
62.			AT17E81	Production of Automotive Components
63.			AT17E82	Tractors and Farm Equipments
64.			AT17E84	Instrumentation and Metrology
65.			AT17E85	Automotive Safety
66.			AT17E86	Automotive Testing
67.			GE17451	Total Quality Management
68.			HS17252	Professional English Communication

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S.No.	Program Code	Program Name	Course Code	Name of the Course
69.	AT	B.E.AUTOMOBILE ENGINEERING	ME17E86	Additive Manufacturing
70.			OME1705	Supply Chain and Logistics Management
71.			OTI1706	Machine Learning and R Programming
72.			AT19341	Applied Thermodynamics (lab integrated course)
73.			AT19342	Automotive Engines(lab integrated course)
74.			AT19442	Automotive Drive Line and Chassis(Lab integrated course)
75.			AT19502	Electric and Hybrid Vehicles - I
76.			AT19542	Production Technology - II(Lab integrated course)
77.			AT19601	Electric and Hybrid Vehicles - II
78.			AT19611	Design Thinking and Innovation for Automobile Engineers
79.			AT19643	Vehicle Dynamics(Lab integrated course)
80.			AT19702	Intelligent Vehicle System
81.			AT19711	AI and ML for Automobile Engineers
82.			AT19P85	Automotive Air-Conditioning
83.			EC19351	Basic Electronics Engineering
84.	BM	B.E. BIOMEDICAL ENGINEERING	BM17302	Sensors and Measurements
85.			BM17303	Electric Fields And Machines
86.			BM17313	PCB Design Laboratory
87.			BM17503	Signals and System Analysis
88.			BM17603	Biomechanics
89.			BM17604	Medical Physics
90.			BM17613	Medical Industrial Training
91.			BM17701	Physiological Modeling

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S.No.	Program Code	Program Name	Course Code	Name of the Course
92.	BM	B.E. BIOMEDICAL ENGINEERING	BM17703	Radiological Equipment
93.			BM17713	Comprehension
94.			HS17251	Technical English
95.			ME17202	Engineering Mechanics for Biomedical Engineers
96.			OIT1706	Machine Learning And R Programming
97.			PH17252	Physical Science for Biomedical Engineers
98.			BM19241	Electric circuits and Electron devices
99.			BM19401	Biomedical Instrumentation
100.			BM19402	Analog and Digital Integrated Circuits
101.			BM19421	PCB Design Laboratory
102.			BM19502	Principles of Communication Systems
103.			BM19511	Biomedical Instrumentation Laboratory
104.			BM19542	Microprocessor, Microcontroller & Embedded system Design
105.			BM19602	Biomechanics
106.			GE19621	Problem solving techniques
107.			BM19642	Innovation and Design thinking for Biomedical Engineers
108.			BM19702	Medical informatics
109.			BM19741	Digital Image Processing Techniques
110.			PH19142	Physics for Bioscience
111.			BT	B.TECH. BIOTECHNOLOGY
112.	BT17303	Instrumental Methods of Analysis		
113.	BT17304	Cell Biology		
114.	BT17305	Stoichiometry and Fluid Mechanics		





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S.No.	Program Code	Program Name	Course Code	Name of the Course
115.	BT	B.TECH. BIOTECHNOLOGY	BT17311	Instrumental Methods of Analysis Laboratory
116.			BT17312	Cell Biology Laboratory
117.			BT17401	Chemical Thermodynamics for Biotechnologists
118.			BT17402	Unit operations
119.			BT17404	Microbiology
120.			BT17411	Chemical Engineering Laboratory
121.			BT17412	Microbiology Laboratory
122.			BT17504	Bioinformatics
123.			BT17512	Molecular Biology Laboratory
124.			BT17601	Biopharmaceutical Technology
125.			BT17613	Numerical Programming for Biotechnologists
126.			BT17702	Immunology
127.			BT17712	Immunology Laboratory
128.			BT17E54	Clinical Biochemistry
129.			BT17E64	Food Processing, Safety and Quality Control
130.			BT17E65	Cancer Biology
131.			BT17E71	Genomics and Proteomics
132.			BT17E74	Marine Biotechnology
133.			BT17E76	Stem Cell Technology
134.			BT17E78	Advanced Immunotechnology
135.			BT17E79	Comprehensive Course for Biotechnologists
136.			CY17202	Bioorganic Chemistry
137.			GE17162	Physics and Chemistry Laboratory
138.			GE17261	Engineering Practices Lab

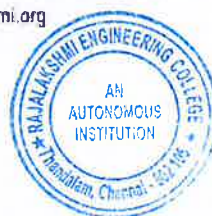
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S.No.	Program Code	Program Name	Course Code	Name of the Course
139.	BT	B.TECH. BIOTECHNOLOGY	MA17151	Engineering Mathematics I
140.			ME17251	Basic Civil and Mechanical Engineering
141.			BT19211	Biochemistry laboratory
142.			BT19304	Stoichiometry and Thermodynamics
143.			BT19312	Basic biotechnology Laboratory
144.			BT19401	Analytical techniques in biotechnology
145.			BT19402	Fluid mechanics and heat transfer
146.			BT19403	Food Biotechnology
147.			BT19412	Food processing and preservation laboratory
148.			BT19504	Immunology
149.			BT19603	Chemical Reaction Engineering
150.			BT19604	Innovation and design thinking for biotechnologists
151.			BT19612	Molecular biology and genetic engineering laboratory
152.			BT19P51	Biopharmaceutical Technology
153.			BT19P77	Stem Cell and Regenerative Medicine
154.			CY19141	Chemistry for technologists
155.			GE19121	Engineering Practices Civil and Mechanical
156.			GE19202	Basic civil and mechanical engineering
157.			GE19421	Soft Skills - I
158.			CH	B.TECH. CHEMICAL ENGINEERING
159.	CH17403	Mechanical Operations		
160.	CH17611	Computational Programming Laboratory for Chemical Engineers		
161.	CH17702	Process Equipment Design		

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S.No.	Program Code	Program Name	Course Code	Name of the Course
162.	CH	B.TECH. CHEMICAL ENGINEERING	CH17703	Optimization of Chemical Processes
163.			CH17704	Comprehensive chemical Engineering
164.			CH17713	Mini Project
165.			CH17E14	Instrumental methods of Chemical Analysis
166.			CH17E23	Industrial process Plant safety
167.			CY 17401	Physical Chemistry
168.			CY17201	Chemistry for Technologists
169.			CY17211	Chemical Analysis Laboratory
170.			CY17251	Environmental science and Engineering
171.			CY17301	Organic Chemistry
172.			EE17362	Electrical Engineering Laboratory
173.			MA17353	Probability and Statistics
174.			MA17451	Numerical Methods
175.			ME17361	Mechanical Engineering Laboratory
176.			PH17253	Physics of Materials
177.			CH19341	Fluid Mechanics for Chemical Engineers
178.			CH19441	Particle science and Technology
179.			CH19613	Innovation & Design thinking for Chemical Engineers
180.			CH19811	Seminar
181.			CH19P54	Renewable Energy Technology
182.			CH19P77	Microfluidics and Microfabrication Laboratory
183.			CY19242	Physical Chemistry
184.			CY19301	Organic Chemistry
185.			GE19P61	Problem solving using AI & ML

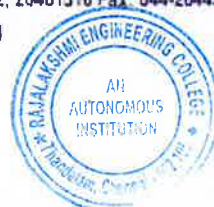
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186.	CH	B.TECH. CHEMICAL ENGINEERING	MA19153	Applied Calculus
187.			MA19351	Transforms and Statistics
188.			OCY1701	Green Chemistry
189.			OEE1701	Renewable power generation systems
190.			OGE1705	Programming Logic
191.			PH19151	Physics for Chemical Engineering
192.			PH19243	Material Science
193.			CE	B.E. CIVIL ENGINEERING
194.	CE17311	Surveying Laboratory		
195.	CE17401	Construction Techniques, Equipment and Practice		
196.	CE17404	Concrete Technology		
197.	CE17501	Design of Reinforced Concrete Elements		
198.	CE17511	Construction Materials Laboratory		
199.	CE17513	Highway Engineering Laboratory		
200.	CE17604	Water Supply Engineering		
201.	CE17605	Waste Water Engineering		
202.	CE17611	Water and Waste Water Analysis Laboratory		
203.	CE17612	Irrigation and Environmental Engineering Drawing		
204.	CE17702	Railways, Airports, Docks and Harbour Engineering		
205.	CE17703	Structural Design and Drawing		
206.	CE17712	Industrial Training (4 weeks During VI Semester – Summer)		
207.	CE17E51	Advanced Surveying		
208.	CE17E52	Geographic Information System		

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209.	CE	B.E. CIVIL ENGINEERING	CE17E53	Geoinformatics Applications For Civil Engineers
210.			CE17E72	Comprehension in Civil Engineering
211.			CE17E73	Air Pollution And Control Engineering
212.			CE17E76	Transport And Environment
213.			CE17E78	Environmental And Social Impact Assessment
214.			CE17E81	Water Resources Engineering
215.			CE17E82	Participatory Water Resources Management
216.			CE17E83	Ground Water Engineering
217.			CE17E85	Computer Aided Design Of Structures
218.			GE17E51	Human Values And Professional Ethics
219.			PH17257	Physics for Civil Engineering
220.			CE19303	Strength of Materials I
221.			CE19502	Transportation Engineering
222.			CE19613	Innovation and Design thinking for Civil Engineers
223.			CE19713	Comprehension in Civil Engineering
224.			CE19714	Problem solving using Machine Learning in Civil Engineering
225.			CE19801	Construction Economics and Project Management
226.			CE19P61	Remote Sensing and Geographic Information System
227.			CE19P65	Non Destructive Testing of Materials
228.			CE19P66	Construction Equipment
229.			CE19P68	Urban Planning and Development
230.			CE19P74	Coastal Engineering
231.			CE19P75	Global Climatic Change





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S.No.	Program Code	Program Name	Course Code	Name of the Course
232.	CE	B.E. CIVIL ENGINEERING	CE19P79	Rock Mechanics
233.			CE19P85	Climate Change and Vulnerability Assessment
234.			CE19P89	Industrial Waste Water Treatment
235.			CY19143	Applied Chemistry
236.			MC19101	Environmental Science and Engineering (Non Credit Course)
237.	CD	B.E. COMPUTER SCIENCE AND DESIGN	CD19141	Design Drawing and Visualization
238.			CD19201	Visual Design and Communication
239.			CS19241	Data Structures
240.			EC19243	Principles of Digital Electronics
241.			MA19156	Linear Algebra and Calculus
242.			MA19255	Transforms and Partial Differential Equations
243.	CS	B.E. COMPUTER SCIENCE AND ENGINEERING	CS17201	Data Structures
244.			CS17202	Digital System Design
245.			CS17211	Data Structures Laboratory
246.			CS17212	Digital System Design Laboratory
247.			CS17301	Design and Analysis of Algorithms
248.			CS17302	Object Oriented Programming
249.			CS17303	Computer Architecture
250.			CS17311	Object Oriented Programming Laboratory
251.			CS17312	Database Management Systems Laboratory
252.			CS17401	Operating Systems
253.			CS17402	Software Engineering
254.			CS17411	Operating Systems Laboratory
255.			CS17412	Computer Networks Laboratory

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S.No.	Program Code	Program Name	Course Code	Name of the Course
256.	CS	B.E. COMPUTER SCIENCE AND ENGINEERING	CS17501	Distributed Systems
257.			CS17502	Theory of Computation
258.			CS17503	Graphics and Multimedia
259.			CS17504	Cryptography and Network Security
260.			CS17505	Internet Programming
261.			CS17511	Cryptography and Network Security Laboratory
262.			CS17513	Internet Programming Laboratory
263.			CS17602	Artificial Intelligence
264.			CS17603	Mobile Computing
265.			CS17611	Game Programming Laboratory
266.			CS17612	Mini Project
267.			CS17701	Resource Management Techniques
268.			CS17702	Cloud Computing
269.			CS17711	Cloud Computing Laboratory
270.			CS17E77	Comprehension in Computer Science Engineering
271.			CS17E83	Cyber Forensics
272.			CS17E85	Business Intelligence and Applications
273.			EC17351	Microprocessors and Microcontrollers
274.			GE17151	Problem Solving and Python Programming
275.			GE17161	Problem Solving and Python Programming Laboratory
276.			GE17E54	Intellectual Property Rights
277.			IT17611	Mobile Application Development Laboratory
278.			IT17E75	Software Project Management

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S.No.	Program Code	Program Name	Course Code	Name of the Course		
279.	CS	B.E. COMPUTER SCIENCE AND ENGINEERING	MA17453	Probability, Statistics and Queuing Theory		
280.			AI19341	Principles of Artificial Intelligence		
281.			BA19602	Fundamentals of Accounting		
282.			CS19211	Python Programming Lab		
283.			CS19342	Object Oriented Programming Paradigm		
284.			CS19442	Software Engineering Concepts		
285.			CS19443	Database Management Systems		
286.			CS19542	Internet Programming		
287.			CS19601	Fundamentals of Mobile Computing		
288.			CS19611	Mobile Application Development Laboratory		
289.			CS19612	Innovative Project Lab for Computer Engineers		
290.			CS19643	Foundations of Machine Learning		
291.			CS19P08	Computer Graphics		
292.			CS19P11	Internet of Things Essentials		
293.			CS19P15	Data Mining		
294.			EC19341	Digital Logic and Microprocessor		
295.			GE19141	Programming using C		
296.			MA19454	Probability, Statistics and Queuing Theory		
297.			CB	B.TECH. COMPUTER SCIENCE AND BUSINESS SYSTEMS	BA19208	Fundamentals of Economics
298.					BA19501	Fundamentals of Management
299.	BA19502	Business Strategy				
300.	BA19601	Financial & Cost Accounting				
301.	CB19141	Fundamentals of Computer Science				

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S.No.	Program Code	Program Name	Course Code	Name of the Course
302.	CB	B.TECH. COMPUTER SCIENCE AND BUSINESS SYSTEMS	CB19241	Data Structures & Algorithms
303.			CB19301	Formal Language and Automata Theory
304.			CB19302	Computer Organization & Architecture
305.			CB19341	Object Oriented Programming
306.			CB19342	Computational Statistics
307.			CB19343	Software Engineering
308.			CB19401	Introduction to Innovation, IP Management & Entrepreneurship
309.			CB19441	Operating System Concepts
310.			CB19442	Database Technology
311.			CB19443	Software Design with UML
312.			CB19501	Design Thinking
313.			CB19511	Innovative Project Lab for Computer Science and Business Systems
314.			CB19541	Analysis of Algorithms and Design
315.			CB19542	Compiler Design Techniques
316.			CB19611	Industrial Project
317.			CB19641	Computer Network Technology
318.			CB19642	Information Security
319.			CB19643	Artificial Intelligence
320.			CB19P43	Machine Learning
321.			CB19P46	Data Mining and Analytics
322.			EC19242	Principles of Electronics
323.			EE19141	Principles of Electrical Engineering
324.			HS19152	Business Communication & Value Science – I

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S.No.	Program Code	Program Name	Course Code	Name of the Course
325.	CB	B.TECH. COMPUTER SCIENCE AND BUSINESS SYSTEMS	HS19251	Business Communication & Value Science – II
326.			HS19411	Business Communication & Value Science – III
327.			HS19611	Business Communication & Value Science – IV
328.			MA19154	Discrete Mathematics
329.			MA19155	Introductory topics in Statistics, Probability and Calculus
330.			MA19241	Statistical Modeling
331.			MA19253	Linear Algebra
332.			MA19441	Optimization Techniques
333.			MC19201	Environmental Sciences (Non Credit)
334.			PH19143	Fundamentals of Physics
335.			EE	B.E ELECTRICAL AND ELECTRONICS ENGINEERING
336.	EE17211	Electric Circuits Laboratory		
337.	EE17305	Electronic Devices and Circuits		
338.	EE17306	Power Plant Engineering		
339.	EE17401	Measurements and Instrumentation		
340.	EE17402	Electrical Machines – I		
341.	EE17405	Digital Logic Circuits		
342.	EE17413	Control and Instrumentation Laboratory		
343.	EE17501	Power System Analysis		
344.	EE17502	Microprocessors, Microcontroller and Applications		
345.	EE17504	Power Electronics		
346.	EE17505	Discrete Time Systems and Signal Processing		
347.	EE17601	Solid State Drives		

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S.No.	Program Code	Program Name	Course Code	Name of the Course
348.	EE	B.E ELECTRICAL AND ELECTRONICS ENGINEERING	EE17603	Design of Electrical Apparatus
349.			EE17611	Power Electronics and Drives laboratory
350.			EE17612	IOT Application in Electrical Engineering
351.			EE17613	Mini Project
352.			EE17703	Renewable Energy Systems
353.			EE17711	Power System Simulation Laboratory
354.			EE17712	Renewable Energy Systems Lab
355.			EE17E51	Restructured Power Systems
356.			EE17E71	Comprehension in Electrical and Electronics Engineering
357.			EE17E72	Electric Energy Utilization and Conservation
358.			EE17E84	Smart Grid
359.			EE17E86	SMPS AND UPS
360.			EE17E87	Energy Management and Auditing
361.			HS17361	Interpersonal Skills/ Listening and Speaking
362.			EE19441	Linear Integrated Circuits and Applications
363.			EE19511	Measurements and Instrumentation Laboratory
364.			EE19512	Control Systems Laboratory
365.			EE19611	Innovation and Design thinking for Electrical Engineers
366.			EE19613	Microprocessor, Microcontroller and Applications Laboratory
367.			EE19614	Problem Solving using AI and ML in Electrical and Electronics Engineering
368.			EE19701	Hybrid Electric Vehicles
369.			EE19711	Project Work / Phase -I
370.			EE19741	Renewable Energy Systems

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371.	EE	B.E ELECTRICAL AND ELECTRONICS ENGINEERING	EE19P61	Special Electrical Machines
372.			EE19P77	Applications of IoT in Electrical Engineering
373.			EE19P79	Flexible AC Transmission Systems
374.			GE19303	Economics for Engineers
375.			MA19152	Linear Algebra and Applied Calculus
376.	EC	B.E. ELECTRONICS & COMMUNICATION ENGINEERING	CS17351	Object Oriented Programming Paradigm
377.			EC17202	Circuit Analysis
378.			EC17405	Electromagnetic Fields
379.			EC17502	Digital Signal Processing
380.			EC17504	Principles of Microprocessors and Microcontroller
381.			EC17513	Microprocessors and Microcontroller with peripheral interfacing Laboratory
382.			EC17601	VLSI Design
383.			EC17603	Communication Networks
384.			EC17611	VLSI Design Laboratory
385.			EC17612	Networks Laboratory
386.			EC17701	RF and Microwave Engineering
387.			EC17713	Mini Project
388.			EC17E61	Medical Electronics
389.			EC17E63	Micro Electro Mechanical Systems
390.			EC17E66	Soft Computing
391.			EC17E69	Comprehensive Course on ECE
392.			EC17E85	Network Routing Algorithms
393.			GE17551	Principles of Management

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S.No.	Program Code	Program Name	Course Code	Name of the Course
394.	EC	B.E. ELECTRONICS & COMMUNICATION ENGINEERING	HS17151	Communicative English
395.			MA17352	Linear Algebra and Partial Differential Equations
396.			MA17454	Transforms & Random Processes
397.			MT17702	Robotics and Machine vision system
398.			OMT1701	Industrial Robotics
399.			PH17151	Engineering Physics
400.			PH17255	Physics for Electronics Engineering
401.			CR19P61	Micro Fabrication Laboratory
402.			CR19P62	Microfluidics Laboratory
403.			CS19411	Python programming for Machine Learning
404.			CY19142	Chemistry for Electronics Engineering
405.			EC19241	Electron Devices
406.			EC19301	Analog Circuits -I
407.			EC19302	Digital Electronics
408.			EC19402	Communication Theory
409.			EC19411	Microprocessors and Microcontrollers Laboratory
410.			EC19501	Digital Signal Processing
411.			EC19502	Control System Engineering
412.			EC19503	EM Waves and Waveguides
413.			EC19504	Digital Communication
414.	EC19601	Antenna Theory		
415.	EC19603	Problem Solving using AI and ML Techniques (Mini Project)		
416.	EC19P52	Information Theory and coding		

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417.	EC	B.E. ELECTRONICS & COMMUNICATION ENGINEERING	EC19P53	Introduction to MEMS		
418.			EC19P55	Speech and Audio processing		
419.			GE19211	Problem solving and programming in Python		
420.			GE19304	Fundamentals of Management for Engineers		
421.			GE19401	Fundamentals of Mechanics		
422.			MA19252	Differential Equations and Complex Variables		
423.			MA19352	Transforms and Special Functions		
424.			MC19102	Indian Constitution and Freedom Movement		
425.			OCS1902	OOPS using JAVA		
426.			OCS1903	Programming Using Python		
427.			FT	B.TECH. FOOD TECHNOLOGY	FT19201	Food chemistry
428.					FT19211	Food Chemistry Laboratory
429.					FT19301	Food Microbiology
430.	FT19302	Biochemistry & Nutrition				
431.	FT19303	Food Process Calculations				
432.	FT19304	Fluid Mechanics in Food Processes				
433.	FT19305	Food Additives				
434.	FT19312	Biochemistry & Nutrition Laboratory				
435.	FT19401	Heat and Mass Transfer in Food Processes				
436.	FT19402	Unit operations in Food Industries				
437.	FT19411	Chemical Engineering Laboratory				
438.	FT19501	Food Analysis				
439.	FT19511	Food Analysis Laboratory				
440.	FT19512	Fruit and Vegetable Technology Laboratory				

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441.	FT	B.TECH. FOOD TECHNOLOGY	FT19601	Food Process Engineering		
442.			FT19603	Baking and Confectionery Technology		
443.			FT19604	Dairy Process Technology		
444.			FT19611	Baking and Confectionary Technology Laboratory		
445.			FT19612	Dairy Process Technology Laboratory		
446.			FT19702	Livestock and Marine Technology		
447.			FT19705	Innovation and Design thinking For Food Technologists		
448.			FT19712	Livestock and Marine Technology Laboratory		
449.			FT19P52	Minimal Processing of Foods		
450.			FT19P61	Process Economics and Industrial Management		
451.			FT19P63	Spices and Plantation Technology		
452.			FT19P74	Cereal, Pulses and Oil Seed Technology		
453.			GE19621	Problem Solving Techniques		
454.			MA19453	Probability and statistics		
455.			IT	B.TECH. INFORMATION TECHNOLOGY	CS17304	Database Management Systems
456.					CS17403	Computer Networks
457.	CS17601	Game Programming				
458.	CS17E62	Agile Methodologies				
459.	CS17E63	C# and .Net Programming				
460.	EC17361	Microprocessors and microcontrollers laboratory				
461.	IT17301	Computer Organization				
462.	IT17502	Web Technology				
463.	IT17503	Embedded Programming				

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S.No.	Program Code	Program Name	Course Code	Name of the Course
464.	IT	B.TECH. INFORMATION TECHNOLOGY	IT17512	Embedded Programming Laboratory
465.			IT17601	Computational Intelligence
466.			IT17602	Mobile Communication
467.			IT17701	Data Analytics
468.			IT17711	Data Analytics Lab
469.			IT17E62	Data Warehousing & Data Mining
470.			IT17E63	Advanced Java Programming
471.			IT17E64	Multimedia Systems
472.			IT17E74	Design Thinking
473.			IT17E76	Comprehension in Information Technology
474.			IT17E82	Internet of Things
475.			IT17E83	Social Network Analysis
476.			MA17354	Discrete Mathematics
477.			MG17E81	Lean Startup Management
478.			PH17254	Physics for Information Science
479.			CS19541	Computer Networks
480.			EE19242	Basic Electrical and Electronics Engineering
481.			IT19241	Data Structures Fundamentals
482.			IT19301	Digital Electronics
483.			IT19303	Advanced Data Structures
484.			IT19341	Introduction to OOP and Java
485.			IT19441	Operating System Design
486.			IT19521	Open Source Programming and Tutorial Lab
487.			IT19541	Web Technology

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S.No.	Program Code	Program Name	Course Code	Name of the Course
488.	IT	B.TECH. INFORMATION TECHNOLOGY	IT19641	Mobile Communication
489.			IT19642	Cryptography and Information Security
490.			IT19643	Artificial Intelligence and Machine Learning
491.			IT19644	Innovation and Design Thinking for Information Technology
492.			IT19711	Industry Practices Lab
493.			IT19741	Cloud and Big Data Analytics
494.			IT19P61	Advanced R and Python Programming
495.			IT19P65	Python for Data Science
496.			IT19P71	Embedded Systems
497.			IT19P73	Wireless communication
498.			IT19P74	Internet of Things
499.			IT19P75	Deep Learning Techniques
500.			IT19P82	Cyber Forensics
501.			PH19241	Physics for Information Science
502.	ME	B.E. MECHANICAL ENGINEERING	CY17151	Engineering Chemistry
503.			GE17152	Engineering Graphics
504.			HS17461	Advanced Reading and writing
505.			HS17661	Professional Communication
506.			ME17312	Computer Aided Machine Drawing
507.			ME17412	Strength of Materials and Fluid Mechanics and Machinery Laboratory
508.			ME17603	Thermal Engineering – II
509.			ME17714	Technical Seminar/ In plant Training
510.			OGE1703	Foreign Language-German

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511.	ME	B.E. MECHANICAL ENGINEERING	OMT1702	Elements of Automation
512.			PH17251	Materials Science
513.			EE19241	Basic Electrical Engineering
514.			GE19521	Soft Skills - II
515.			GE19P71	Principles of Management
516.			GE19P73	Marketing Management
517.			HS19151	Technical English
518.			MA19151	Algebra and Calculus
519.			MA19251	Differential Equations and Vector Calculus
520.			MC19301	Essence of Indian Traditional knowledge
521.			ME19303	Kinematics of Machinery
522.			ME19404	Engineering Materials and Metallurgy
523.			ME19511	CAD/CAM Laboratory
524.			ME19542	Metrology and Measurements
525.			ME19601	Finite Element Analysis
526.			ME19611	Simulation and Analysis Laboratory
527.			ME19702	Automation in manufacturing
528.			ME19713	AI for Mechanical Engineers
529.			ME19741	Mechatronics
530.			ME19P62	Unconventional Machining Processes
531.			ME19P63	Renewable Sources of Energy
532.			ME19P64	Industry 4.0
533.			ME19P67	Industrial Safety
534.			ME19P68	Geometric Dimensioning and Tolerancing

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S.No.	Program Code	Program Name	Course Code	Name of the Course		
535.	ME	B.E. MECHANICAL ENGINEERING	ME19P71	Material testing and Characterization		
536.			ME19P75	Refrigeration and Air conditioning		
537.			ME19P85	Design of Experiments		
538.			ME19P86	Research Methodology and Intellectual Property Rights		
539.			ME19P87	Energy Engineering and Management		
540.			ME19P88	Supply chain and Logistics Management		
541.			ME19P89	Corrosion and Surface Engineering		
542.			OAT1903	Elements of Electric and Hybrid Vehicles		
543.			OFT1901	Emerging Techniques in Food Processing		
544.			PH19141	Physics of Materials		
545.			MT	B.E. MECHATRONICS	EE17252	Basic Electrical, Electronics and Instrumentation Engineering
546.					EE17262	Basic Electrical, Electronics and Instrumentation Engineering Laboratory
547.	ME17401	Fluid Mechanics and Machinery				
548.	MT17301	Electrical Machines and Drives				
549.	MT17302	Digital Electronics and microprocessor				
550.	MT17303	Analog Devices and Circuits				
551.	MT17403	Embedded Systems And Microcontrollers				
552.	MT17404	Sensors and Instrumentation				
553.	MT17411	Microprocessors and Microcontrollers for Automation Laboratory				
554.	MT17502	Programming for automation Using C/C++				
555.	MT17505	Industrial Electronics and Applications				
556.	MT17513	Programming for automation Using C/C++ Laboratory				
557.	MT17514	Mini Project				

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S.No.	Program Code	Program Name	Course Code	Name of the Course
558.	MT	B.E. MECHATRONICS	MT17601	Fundamentals of Machine Design
559.			MT17604	Industrial Automation
560.			MT17612	Industrial Automation Laboratory
561.			MT17613	Comprehension
562.			MT17E71	Autonomous Mobile Robots
563.			MT17E75	Automotive Mechatronics
564.			OGE1705	Programming Logic
565.			OGE1706	Advanced Programming Logic
566.			CY19241	Engineering Chemistry
567.			MA19355	Transforms and Applications
568.			MT19302	Digital System Design
569.			MT19303	Fluid mechanics and thermal sciences
570.			MT19311	Digital System Design Laboratory
571.			MT19402	Microcontrollers and Embedded Systems
572.			MT19403	Sensors and Instrumentation
573.			MT19611	Innovation and Design thinking for Mechatronics
574.			MT19641	Industrial Robotics
575.			MT19642	Applied Hydraulics and Pneumatics
576.			MT19704	Machine Vision
577.			MT19712	Industrial Automation Laboratory
578.			MT19713	Mechatronics Problem Solving using AI,ML and DL
579.			MT19P61	Internet of Things for Mechatronics
580.			MT19P72	Automated Material Handling systems

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S.No.	Program Code	Program Name	Course Code	Name of the Course		
581.	MT	B.E. MECHATRONICS	MT19P73	Artificial Intelligence for Mechatronics		
582.	RO	B.E. ROBOTICS & AUTOMATION	OGE1901	German Language		
583.			ME19312	Manufacturing Technology laboratory		
584.			MT19301	Analog Devices and Circuits		
585.			MT19411	Microprocessors and Microcontrollers for Automation Laboratory		
586.			RO19301	Mechanics of Materials		
587.			RO19311	Mechanics of Materials laboratory		
588.			RO19401	Basics of Robotics		
589.			RO19402	Manufacturing Science		
590.			RO19421	Internship - I*		
591.			AV	M.E. AVIONICS	AV17111	Avionics Integration Laboratory
592.					AV17112	Image Processing Laboratory
593.					AV17211	Flight Control Systems Laboratory
594.	AV17212	Unmanned Aerial Vehicle Laboratory				
595.	AV17301	Technical Seminar and Report Writing				
596.	AV17E12	Embedded Language with C				
597.	AV17E28	Aerodynamics for UAV				
598.	AV17E29	Payload and Sensors for UAV				
599.	AV17E30	Big data analysis using IOT				
600.	AV17E31	Flight Data Monitoring				
601.	AV17E32	Air Traffic Control				
602.	AV17E33	Artificial Intelligence				
603.	AC19101	English for Research Paper Writing				
604.	AC19201	Constitution of India				

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S.No.	Program Code	Program Name	Course Code	Name of the Course		
605.	BY	M.TECH BIOTECHNOLOGY	BY17101	Advanced Genetic Engineering		
606.			BY17102	Enzyme Technology and Fermentation Technology		
607.			BY17103	Bioinformatics and Applications		
608.			BY17201	Bio separation Technology		
609.			BY17202	Bioprocess Engineering		
610.			BY17203	Biopharmaceuticals and Biosimilars		
611.			BY17204	Immunotechnology		
612.			BY17205	Advanced Genomics and Proteomics		
613.			BY17211	Immunotechnology Laboratory		
614.			BY17311	Advanced Molecular Biology and Genetic Engineering Laboratory		
615.			BY17312	Bioprocess and Downstream processing Laboratory		
616.			BY17E11	Molecular concepts in Biotechnology		
617.			BY17E14	Advances in Animal Biotechnology		
618.			BY17E17	Oncogenetics		
619.			BY17E23	Advances in molecular pathogenesis		
620.			BY17E27	Tissue Engineering		
621.			MA17172	Applied Statistics for Biotechnologists		
622.			PG19101	Research Methodology and IPR		
623.			AC19101	English for Research Paper Writing		
624.			AC19201	Constitution of India		
625.			CU	M.E. COMMUNICATION SYSTEMS	CU17101	Advanced Radiation Systems
626.					CU17102	Optical Networks
627.					CU17203	Communication System Modeling and Simulation

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S.No.	Program Code	Program Name	Course Code	Name of the Course
628.	CU	M.E. COMMUNICATION SYSTEMS	CU17211	Innovative System Design Laboratory
629.			CU17311	Technical Paper Writing
630.			CP19031	Business Analytics
631.			CU19111	Communication Systems Laboratory
632.			CU19141	Advanced Digital Signal Processing
633.			CU19211	RF System Design Laboratory
634.			CU19P32	Digital Image and Video processing
635.			DS	M.TECH DATA SCIENCE
636.	ED	M.E. ENGINEERING DESIGN	ED17201	Research Methodology
637.			ED17211	Vibrations Lab
638.			ED17E14	Additive Manufacturing and Tooling
639.			ED19111	Mechanism Design Laboratory
640.			ED19202	Integrated Product design and Process development
641.			ED19203	Design with advanced materials
642.			ED19211	Product Design and Development Lab
643.			ED19212	Analysis Lab
644.			ED19311	Technical Seminar / Internship
645.			ED19P14	Design And Analysis Of Experiments
646.			ED19P22	Additive Manufacturing
647.			ED19P31	Product Life Cycle Management
648.			ED19P38	Material Characterisation Techniques
649.			PG19101	Research Methodology And IPR
650.	ET	M.E. EMBEDDED SYSTEM TECHNOLOGIES	ET17312	IOT Applications for Embedded Systems
651.			ET19P2A	Embedded Linux

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S.No.	Program Code	Program Name	Course Code	Name of the Course
652.	ET	M.E. EMBEDDED SYSTEM TECHNOLOGIES	ET19P2B	Open-Source Software
653.			ET19P31	Robotics and Automation
654.			ET19P3A	IOT for Smart Systems
655.			ET19P3B	Machine Learning
656.			ET19P3C	Embedded Product Development
657.			ET19P3D	Automotive Embedded System
658.	MX	M.E. MEDICAL ELECTRONICS	MA17171	Applied Mathematics for Electronics Engineers
659.			MX17111	Biomedical Instrumentation and Processing Laboratory
660.			MX17203	Advanced Microcontrollers
661.			MX17211	Advanced Microcontrollers and Prototype Development Laboratory
662.			MX17312	Training in Healthcare Sector
663.			MX17V12	Introduction to SCI lab and R-Lab
664.			MX19102	Bio signal Acquisition and Processing
665.			MX19103	Research and Patenting Methodology for Bioengineers
666.			MX19201	Medical Imaging and Processing Techniques
667.			MX19203	Medical Device Development- Concept to Market
668.			MX19P26	Physiological Modeling
669.	CP	M.E. COMPUTER SCIENCE&ENGINEERING	CP17211	Cloud Computing Laboratory
670.			CP17212	Term Paper Writing and Seminar
671.			CP17301	Security Principles
672.			CP17E24	Software Quality Assurance and Testing
673.			CP17E27	Software Requirements Engineering
674.			CP17E35	Trusted Computing

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S.No.	Program Code	Program Name	Course Code	Name of the Course		
675.	CP	M.E. COMPUTER SCIENCE&ENGINEERING	CP17E36	Internet of Things		
676.			CP17E39	Information Storage Management		
677.			SE17102	Advanced Software Engineering		
678.			CP19101	Advanced Data Structures and Algorithms		
679.			CP19102	Advanced Operating Systems		
680.			CP19103	Advanced Software Engineering		
681.			CP19112	Advanced Software Engineering Laboratory		
682.			CP19201	Advanced Databases		
683.			CP19202	Networking Technologies		
684.			CP19211	Advanced Databases Laboratory		
685.			CP19213	Big Data Analytics Lab		
686.			CP19216	Mini Project with Seminar		
687.			CP19P06	Big Data Analytics		
688.			CP19P07	Web Search & Information Retrieval		
689.			CP19P08	User Interface Design		
690.			CP19P12	Mobile Applications and Services		
691.			ED19032	Operations Research		
692.			BA	MASTER OF BUSINESS ADMINISTRATION	BA17E15	Security Analysis And Portfolio Management
693.					BA17102	Statistics for Management
694.					BA17104	Total Quality Management
695.	BA17106	Accounting for Management				
696.	BA17107	Legal Aspects of Business				
697.	BA17108	Spoken and Written Communication				
698.	BA17202	Financial Management				

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S.No.	Program Code	Program Name	Course Code	Name of the Course
699.	BA	MASTER OF BUSINESS ADMINISTRATION	BA17301	International Business Management
700.			BA17E02	Consumer Behaviour
701.			BA17E04	Integrated Marketing Communication
702.			BA17E05	Retail Marketing
703.			BA17E11	Banking Financial Services Management
704.			BA17E13	Financial Derivatives
705.			BA17E21	Entrepreneurship Development
706.			BA17E22	Industrial Relations and Labour Welfare
707.			BA17E26	Strategic Human Resource Management
708.			BA19101	Principles of Management and Business Environment
709.			BA19102	Managerial Economics, Indian Economy and Policy
710.			BA19103	Statistics and Analytics for Decision Making
711.			BA19104	Indian Ethos, Business Ethics, CSR & Governance
712.			BA19105	Organizational Behaviour
713.			BA19106	Financial Reporting, Statements and Analysis
714.			BA19107	Legal Aspects of Business
715.			BA19108	Business Communication
716.			BA19202	Corporate Strategy and Entrepreneurship
717.			BA19204	Financial Management
718.			BA19205	Human Resources Management
719.			BA19206	Marketing Research
720.			BA19207	Applied Operations Research and Quantitative Techniques
721.			BA19211	Computer Applications for Business

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S.No.	Program Code	Program Name	Course Code	Name of the Course
722.	BA	MASTER OF BUSINESS ADMINISTRATION	BA19P01	Consumer Behaviour
723.			BA19P03	Retail Management
724.			BA19P04	Product and Brand Management
725.			BA19P05	Integrated Marketing Communication Strategy
726.			BA19P07	Services Marketing
727.			BA19P11	Investment Analysis, Portfolio Management & Financial planning
728.			BA19P13	Fin tech And Block chain Applications In Finance
729.			BA19P15	Financial Derivatives
730.			BA19P16	Financial Markets And Institutions
731.			BA19P21	Manpower Planning, Recruitment And Selection
732.			BA19P22	Employee Relations & Labour
733.			BA19P24	Performance Management
734.			BA19P25	Organisational Leadership
735.			BA19P26	Strategic HRM
736.			BA19P51	Indian Models In Entrepreneurship

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