

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



2021-2022

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

S.No	Name of the Programme	Name of the Course	Course Code	Year of Introduction	Regulation
1	Civil Engineering	MEMS	19110661A	2019-2020	GRBT-19
2		Information Security	19110661B	2019-2020	GRBT-19
3		Energy Management	19110661C	2019-2020	GRBT-19
4		Digital Image Processing	19110661D	2019-2020	GRBT-19
5		Solid Waste Management	19110661E	2019-2020	GRBT-19
6		Hybrid and Electrical Vehicles	19110661F	2019-2020	GRBT-19
7		Disaster Management in Mining	19110661G	2019-2020	GRBT-19
8		Theory of Structures	19110501	2019-2020	GRBT-19
9		Engineering Hydrology	19110504	2019-2020	GRBT-19
10		Transportation Engineering	19110604	2019-2020	GRBT-19
11		Irrigation Engineering	19110605	2019-2020	GRBT-19
12		Software applications in Civil Engineering	19110611	2019-2020	GRBT-19
13		Concrete Technology & Transportation Engineering Laboratory	19110612	2019-2020	GRBT-19
14	Electrical & Electronic Engineering	Power systems dynamics and systems	19120565a	2019-2020	GRBT-19
15		MEMS	19123562a	2019-2020	GRBT-19
16		Information security	19123562b	2019-2020	GRBT-19
17		Hybrid and electric vehicles	19123562e	2019-2020	GRBT-19
18		Community service oriented project	19120522	2019-2020	GRBT-19
19		Solar energy systems	19120665d	2019-2020	GRBT-19
20		Human computer interaction	19125662a	2019-2020	GRBT-19

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S.No	Name of the Programme	Name of the Course	Course Code	Year of Introduction	Regulation
21		Data communication	19125662b	2019-2020	GRBT-19
22		Modern vehicle technology	19125662d	2019-2020	GRBT-19
23		Remote sensing & GIS in Mining	19125662e	2019-2020	GRBT-19
24		Fundamentals of Electronic devices and circuits	201EE302	2020-2021	GRBT-20
25		Fundamentals of Electronic devices and circuits Lab	201EE313	2020-2021	GRBT-20
26		Digital Electronics	201EC402	2020-2021	GRBT-20
27		Power systems-1	201EE403	2020-2021	GRBT-20
28		Induction and Synchronous Machines	201EE404	2020-2021	GRBT-20
29		Managerial Economics & Financial Analysis	201MB405	2020-2021	GRBT-20
30		Python Programming Lab	201CS411	2020-2021	GRBT-20
31		Electrical measurements and machines lab-II	201EE412	2020-2021	GRBT-20
32		Digital Electronics Lab	201EC413	2020-2021	GRBT-20
33		Skill oriented course -IOT Applications of Electrical Engineering	201EE481	2020-2021	GRBT-20
34		DC machines and transformers	201EE304	2020-2021	GRBT-20
35		Electrical measurements and machines lab-I	201EE312	2020-2021	GRBT-20
36		SOC- Design of electrical circuits using engineering software tools	201EE381	2020-2021	GRBT-20
37		Introduction to Python programming	201CS401	2020-2021	GRBT-20
38		Induction and synchronous machines	201EE404	2020-2021	GRBT-20
39		Python programming Lab	201CS411	2020-2021	GRBT-20
40		Electrical measurements and machines lab-II	201EE412	2020-2021	GRBT-20
41		SOC-IOT applications of electrical engineering	201EE481	2020-2021	GRBT-20
42		Basic Electrical and Electronics Engineering	201EE104	2020-2021	GRBT-20
43		Basic Electrical and Electronics Engineering Lab	201EE112	2020-2021	GRBT-20

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S.No	Name of the Programme	Name of the Course	Course Code	Year of Introduction	Regulation
44		Electrical Engineering workshop	201ME113b	2020-2021	GRBT-20
45		Fundamentals of computer programming	201CS204a	2020-2021	GRBT-20
46		Fundamentals of computer programming Lab	201CS213a	2020-2021	GRBT-20
47		Introduction to Electronics Engineering	201EC105	2020-2021	GRBT-20
48		Electronics Engineering Workshop	201ME113a	2020-2021	GRBT-20
49		Disaster management	2022139b	2020-2021	GRMT 20
50	Mechanical Engineering	Constitution of India	19139687	2019-2020	GRBT-19
51		Solid Waste Management	19131565a	2019-2020	GRBT-19
52		Energy Management	19132565a	2019-2020	GRBT-19
53		Digital Image Processing	19134565a	2019-2020	GRBT-19
54		Information Security	19135565a	2019-2020	GRBT-19
55		Disaster Management in Mining	19136565a	2019-2020	GRBT-19
56		Hybrid and Electric Vehicles	19137565a	2019-2020	GRBT-19
57		Managerial Economics and Financial Analysis	19139765a	2019-2020	GRBT-19
58		Data Communication	19134666a	2019-2020	GRBT-19
59		Human Computer Interaction	19135666a	2019-2020	GRBT-19
60		Remote Sensing and GIS In Mining	19136666a	2019-2020	GRBT-19
61		Modern Vehicle Technology	19137666a	2019-2020	GRBT-19
62		Fuels Combustion and Emission Control	19130564A	2019-2020	GRBT-19
63		Tribology	19130564B	2019-2020	GRBT-19
64		Industrial Robotics	19130564C	2019-2020	GRBT-19
65		Advanced Materials	19130564D	2019-2020	GRBT-19
66		Advanced Foundry and Welding Technology	19130665C	2019-2020	GRBT-19
67		Mini Project-1/Study Project/Internship	19130521	2019-2020	GRBT-19

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S.No	Name of the Programme	Name of the Course	Course Code	Year of Introduction	Regulation
68		Global Environment Problems and Policies	19131666a	2019-2020	GRBT-19
69		Thermal Engineering	201ME403	2020-2021	GRBT-20
70		English for Carrier	201HB481	2020-2021	GRBT-20
71		Computer Aided Design and Modelling Lab	201ME313	2020-2021	GRBT-20
72		Programming with Python	201CS381	2020-2021	GRBT-20
73		Numerical Modelling for Mechanical Engineers	201ME411	2020-2021	GRBT-20
74		Product Design and Development	20231165C	2020-2021	GRMT-20
75		Research Methodology	20231103	2020-2021	GRMT-20
76		Additive Manufacturing	20231263A	2020-2021	GRMT-20
77		Hydraulic and Pneumatic Systems	20231263B	2020-2021	GRMT-20
78		Modelling and Simulation of Manufacturing Systems	20231263C	2020-2021	GRMT-20
79		Materials Characterization Techniques	20231264A	2020-2021	GRMT-20
80		Automation in Manufacturing	20231264B	2020-2021	GRMT-20
81		Finite Element Method	20231264C	2020-2021	GRMT-20
82		Material Characterization Lab	20231212	2020-2021	GRMT-20
83	Electronics & Communication Engineering	Information Security	19145562b	2019-2020	GRBT-19
84		Energy Management	19145562c	2019-2020	GRBT-19
85		Information Theory And Coding	19140566C	2019-2020	GRBT-19
86		Constitution of India	19149507	2019-2020	GRBT-19
87		Human Computer Interaction	19145661	2019-2020	GRBT-19
88		Electronic Devices and Circuits	201EC302	2020-2021	GRBT-20
89		English for Career	201HB381	2020-2021	GRBT-20
90		Programming With Java lab	201CS311	2020-2021	GRBT-20
91		Electronic circuit Analysis	201EC401	2020-2021	GRBT-20

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S.No	Name of the Programme	Name of the Course	Course Code	Year of Introduction	Regulation
92		Switching Theory and Logic Design Lab	201EC413	2020-2021	GRBT-20
93		Electronic Devices and Circuits	201EC302	2020-2021	GRBT-20
94		Network Analysis	201EC303	2020-2021	GRBT-20
95		Switching Theory and Logic Design	201EC304	2020-2021	GRBT-20
96		Signals and Systems	201EC305	2020-2021	GRBT-20
97		Programming with Java Lab	201CS311	2020-2021	GRBT-20
98		Electronic Devices and Circuits Lab	201EC312	2020-2021	GRBT-20
99		Network Analysis Lab	201EE313	2020-2021	GRBT-20
100		English for career	201HB381	2020-2021	GRBT-20
101		IOT and its Applications	20242361A	2020-2021	GRBT-20
102		Artificial Intelligence	20242361B	2020-2021	GRBT-20
103		Energy Management	20242362b	2020-2021	GRBT-20
104		Operations Research	20242362c	2020-2021	GRBT-20
105		Cyber Security	20242362d	2020-2021	GRBT-20
106		Data Structures using C	201CS204b	2020-2021	GRBT-20
107		RTL Simulation and Synthesis With PLDs	20242101	2020-2021	GRMT-20
108		Microcontrollers programmable digital signal processors	20242102	2020-2021	GRMT-20
109		CAD of Digital Systems	20242164C	2020-2021	GRMT-20
110		Programming languages for embedded systems	20242165A	2020-2021	GRMT-20
111		Advanced Computer Architecture	20242615B	2020-2021	GRMT-20
112		Embedded system Design	20242165C	2020-2021	GRMT-20
113		Research Methodology	20242103	2020-2021	GRMT-20
114		Audit Course-1	20242196	2020-2021	GRMT-20
115		RTL Simulation and Synthesis With PLDs Lab	20242111	2020-2021	GRMT-20

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S.No	Name of the Programme	Name of the Course	Course Code	Year of Introduction	Regulation
116		Microcontrollers programmable digital signal processors Lab	20242112	2020-2021	GRMT-20
117		Analog and Digital CMOS VLSI Design	20242201	2020-2021	GRMT-20
118		Real Time Operation Systems	20242202	2020-2021	GRMT-20
119		System Design With Embedded Linux	20242263A	2020-2021	GRMT-20
120		Communications Buses and Interfaces	20242263B	2020-2021	GRMT-20
121		Physical design automation	20242264A	2020-2021	GRMT-20
122		Audit Course-2	20242295	2020-2021	GRMT-20
123		Analog and Digital CMOS VLSI Design Lab	20242211	2020-2021	GRMT-20
124		Real Time Operation Systems Lab	20242212	2020-2021	GRMT-20
125	Computer Science & Engineering	Advanced Java Programming	19150565A	2019-2020	GRBT-19
126		Compiler Design & Computer Networks Laboratory	19150511	2019-2020	GRBT-19
127		Mobile Computing	19150565C	2019-2020	GRBT-19
128		Advanced JAVA-JEE	19150565A	2019-2020	GRBT-19
129		Information Security	19150665e	2019-2020	GRBT-19
130		Environmental Pollution Control	19150665a	2019-2020	GRBT-19
131		Utilization of Electrical Energy	19150665b	2019-2020	GRBT-19
132		Robotics	1915066c	2019-2020	GRBT-19
133		Internet of Things	19150665d	2019-2020	GRBT-19
134		Operating Systems	19150665e	2019-2020	GRBT-19
135		Elements of Mining Technology	19150665f	2019-2020	GRBT-19
136		Basic Automobile Engineering	19150665g	2019-2020	GRBT-19
137		Community Service Oriented Project	19150581	2019-2020	GRBT-19
138		Unified Modelling Language	19150603	2019-2020	GRBT-19
139		LINUX Programming Lab	19150613	2019-2020	GRBT-19

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S.No	Name of the Programme	Name of the Course	Course Code	Year of Introduction	Regulation
140		Artificial Intelligence	19150602	2019-2020	GRBT-19
141		Software Architecture, Frameworks and Patterns	19150664A	2019-2020	GRBT-19
142		Principles of Computer Security	19150565B	2019-2020	GRBT-19
143		Distributed Systems	19150664C	2019-2020	GRBT-19
144		Constitution of India	19159681	2019-2020	GRBT-19
145		AI Tools & Techniques Laboratory	19150612	2019-2020	GRBT-19
146		Virtual Reality	19150664B	2019-2020	GRBT-19
147		Mathematical Foundations of Computer Science	201CS301	2020-2021	GRBT-20
148		Computer Organization	201CS303	2020-2021	GRBT-20
149		Object Oriented Programming through JAVA	201CS304	2020-2021	GRBT-20
150		Data Analysis Lab	201CS311	2020-2021	GRBT-20
151		Object Oriented Programming through JAVA Lab	201CS312	2020-2021	GRBT-20
152		Linux and Shell Programming Lab	201CS313	2020-2021	GRBT-20
153		Web Application Development Using Full Stack Module -1	201CS381	2020-2021	GRBT-20
154		Statistics with R Programming	201CS401	2020-2021	GRBT-20
155		R Programming Lab	201CS411	2020-2021	GRBT-20
156		Operating Systems & Software Engineering Lab	201CS413	2020-2021	GRBT-20
157		Web Application Development Using Full Stack Module -2	201CS481	2020-2021	GRBT-20
158		Applied Physics	201HB103a	2020-2021	GRBT-20
159		Applied Physics Laboratory	201HB111a	2020-2021	GRBT-20
160		Engineering Chemistry	201HB202	2020-2021	GRBT-20
161		Value education	2022139c	2020-2021	GRMT 20
162	Automobile Engineering	Information Security	19170565b	2019-2020	GRBT-19

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S.No	Name of the Programme	Name of the Course	Course Code	Year of Introduction	Regulation
163		Digital Image Processing	19170565d	2019-2020	GRBT-19
164		Solid Waste Management	19170565e	2019-2020	GRBT-19
165		Disaster Management in Mining	19170565g	2019-2020	GRBT-19
166		Human Computer Interaction	19170666b	2019-2020	GRBT-19
167		Global Environment Problems & Policies	19170666e	2019-2020	GRBT-19
168		Remote Sensing & GIS In Mining	19170666g	2019-2020	GRBT-19
169		Constitution of India	19170687	2019-2020	GRBT-19
170		Accident Analysis	19170621	2019-2020	GRBT-19
171		Information Security	19170565b	2019-2020	GRBT-19
172		Soft Skills	19179511	2019-2020	GRBT-19
173		Mini Project-1/Study Project/Internship	19170521	2019-2020	GRBT-19
174		Automotive Aerodynamics	19170665C	2019-2020	GRBT-19
175		Special Purpose Vehicles	19170665E	2019-2020	GRBT-19
176		Nano Technology	19173666a	2019-2020	GRBT-19
177		Modern Vehicle Technology	19170666f	2019-2020	GRBT-19
178		Fluid Mechanics and Hydraulic Machinery	201AM304	2020-2021	GRBT-20
179		Environmental Pollution & Control	19170466E	2019-2020	GRBT-19
180		English for Career	201HB381	2020-2021	GRBT-20
181		Programming with Python	201CS481A	2020-2021	GRBT-20
182	Mining	constitution of India	19163566a	2019-2020	GRBT-19
183		community service oriented project	19160621	2019-2020	GRBT-19
184		Mineral Processing	19160602	2019-2020	GRBT-19
185		Mineral Economics	19160603	2019-2020	GRBT-19
186		Planning of Surface Mines	19160664A	2019-2020	GRBT-19

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S.No	Name of the Programme	Name of the Course	Course Code	Year of Introduction	Regulation
187		Enterprise Resource Planning	19160664B	2019-2020	GRBT-19
188		Mine Strata Control	19160664C	2019-2020	GRBT-19
189		Innovative Mining Systems	19160664D	2019-2020	GRBT-19
190		Environmental Impact Assessment in Mines	19160664E	2019-2020	GRBT-19
191		Internship	19160504	2019-2020	GRBT-19
192		Material science and Metallurgy	201ME205	2020-2021	GRBT-20
193		environmental science	201HB296	2020-2021	GRBT-20
194		programming with python	201CS381	2020-2021	GRBT-20
195		Advanced mine surveying	201MM402	2020-2021	GRBT-20
196		Advanced mine surveying lab	201MM412	2020-2021	GRBT-20
197	Petroleum Engineering	Managerial Economics and Financial Analysis	201HB305	2020-2021	GRBT-20
198		Programming with Python	201CS381	2020-2021	GRBT-20
199		Constitution of India	201CS391	2020-2021	GRBT-20
200		Instrumentation, Process Dynamics & Controls	201PT402	2020-2021	GRBT-20
201		Engineering Exploration Project	201PT414	2020-2021	GRBT-20
202	CSE(Artificial Intelligence and Machine Learning)	Design and Analysis of Algorithms	201CS302	2020-2021	GRBT-20
203		Managerial Economics and Financial Analysis	201HB305	2020-2021	GRBT-20
204		Linux and Shell Programming Lab	201CS313	2020-2021	GRBT-20
205		Web Application Development Using Full Stack Module -1	201CS381	2020-2021	GRBT-20
206		Constitution of India	201CE391	2020-2021	GRBT-20
207		Introduction to Artificial Intelligence and Machine Learning	201AI404	2020-2021	GRBT-20
208		Introduction to Artificial Intelligence and Machine Learning Lab	201AI412	2020-2021	GRBT-20
209		Web Application Development Using Full Stack Module -2	201CS481	2020-2021	GRBT-20
210	CSE(Cyber Security)	Mathematical Foundations of Cyber Security	201CY301	2020-2021	GRBT-20

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S.No	Name of the Programme	Name of the Course	Course Code	Year of Introduction	Regulation
211		Design and Analysis of Algorithms	201CS302	2020-2021	GRBT-20
212		Managerial Economics and Financial Analysis	201HB305	2020-2021	GRBT-20
213		Linux and Shell Programming Lab	201CS313	2020-2021	GRBT-20
214		Web Application Development Using Full Stack Module -1	201CS381	2020-2021	GRBT-20
215		Constitution of India	201CE391	2020-2021	GRBT-20
216		Operating Systems & Software Engineering Lab	201CS413	2020-2021	GRBT-20
217		Web Application Development Using Full Stack Module -2	201CS481	2020-2021	GRBT-20
218	CSE(Data Science)	Constitution of India	201CE391	2020-2021	GRBT-20
219		Data Science for Engineers	201DS404	2020-2021	GRBT-20
220		Fundamentals of Data Science Lab	201DS412	2020-2021	GRBT-20
221	Master of Computer Applications	Full Stack Web Development	20300301	2020-2021	GRCA 20
222		Data Science	20300302	2020-2021	GRCA 20
223		Internet of things	20300303	2020-2021	GRCA 20
224		Professional Ethics	20309305	2020-2021	GRCA 20
225		Full Stack Web Development Lab	20300311	2020-2021	GRCA 20
226		Data Science with R Programming Lab	20300312	2020-2021	GRCA 20
227		Internet of things Lab	20300313	2020-2021	GRCA 20
228		Cyber Security and forensics	20300364A	2020-2021	GRCA 20
229		Software Testing and Quality Management	20300364B	2020-2021	GRCA 20
230		Design Patterns	20300364C	2020-2021	GRCA 20
231		Simulation Modelling	20300364D	2020-2021	GRCA 20
232		Digital Image Processing	20300461A	2020-2021	GRCA 20
233		Machine Learning	20300461B	2020-2021	GRCA 20
234		Big Data Analytics	20300461C	2020-2021	GRCA 20

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S.No	Name of the Programme	Name of the Course	Course Code	Year of Introduction	Regulation
235		MOOCS-1 (NPTEL / Swayam)	20300461D	2020-2021	GRCA 20
236		Software Project and Process Management	20300462A	2020-2021	GRCA 20
237		Multimedia Applications and Development	20300462B	2020-2021	GRCA 20
238		Cloud Computing	20300462C	2020-2021	GRCA 20
239		MOOCS-1 (NPTEL / Swayam)	20300462D	2020-2021	GRCA 20
240	Master of Business Administration	Hospitality Management	20400365A	2020-2021	GRMBA-20
241		Tourism policy and Planning	20400365B	2020-2021	GRMBA-20
242		Travel Media and Journalism	20400465A	2020-2021	GRMBA-20
243		Eco Tourism Practices	20400465B	2020-2021	GRMBA-20
244		Social Entrepreneurship	20400366A	2020-2021	GRMBA-20
245		Planning, Structuring, and Financing Small Business	20400366B	2020-2021	GRMBA-20
246		Finance and Accounting for Small Business	20400466A	2020-2021	GRMBA-20
247		Venture Valuation and Accounting	20400466B	2020-2021	GRMBA-20
248		Text, Social Media & Web Analytics	20400367A	2020-2021	GRMBA-20
249		Big Data Analytics	20400367B	2020-2021	GRMBA-20
250		Financial Analytics	20400467A	2020-2021	GRMBA-20
251		Econometrics and Business Forecasting	20400467B	2020-2021	GRMBA-20
252		Human Resource Metrics and Analytics	20400363B	2020-2021	GRMBA-20
253		Digital and Social Media Marketing	20400361A	2020-2021	GRMBA-20

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