

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



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

Name of the programme	Name of the Course	Course Code	Year of introduction (during the last five years)	Regulation
B.Tech.(CIVIL ENGINEERING)	Skill Oriented Course-I	201HB481	2020-2021	GRBT-20
	English For Career	201HB481	2020-2021	GRBT-20
	Quantitative Aptitude and Reasoning	201CE691	2020-2021	GRBT-20
	Universal Human Values -2: "Understanding Harmony"	201HB781	2020-2021	GRBT-20
	Prerequisites for Consultancy and Authorized Valuation	201CE790	2020-2021	GRBT-20
	Fundamentals of Computer Programming Laboratory	201CS213A	2020-2021	GRBT-20
	Constitution of India	201CE381	2020-2021	GRBT-20
	Skill Oriented Course-II	201CE391	2020-2021	GRBT-20
	IPR & Patents	201CE313	2020-2021	GRBT-20
	Environmental Pollution & Control	201CE565A	2020-2021	GRBT-20
	Fundamentals of Utilization of Electrical Energy	201EE565A	2020-2021	GRBT-20
	Robotics	201ME565A	2020-2021	GRBT-20
	Microprocessors and its interfacing	201EC565A	2020-2021	GRBT-20
	Fundamentals of petroleum engineering	201PT565A	2020-2021	GRBT-20
	Elements of Mining Technology	201MM565A	2020-2021	GRBT-20
	Basic Automobile Engineering	201AM565A	2020-2021	GRBT-20
	Foundations of Operating Systems	201CS565A	2020-2021	GRBT-20
	Principles of Management	201MB565A	2020-2021	GRBT-20
	Solid Waste Management	201CE665A	2020-2021	GRBT-20
	Concepts of Power System Engineering	201EE665A	2020-2021	GRBT-20
	Introduction to MEMS	201ME665A	2020-2021	GRBT-20

Name of the programme	Name of the Course	Course Code	Year of introduction (during the last five years)	Regulation
	IOT and its Applications	201EC665A	2020-2021	GRBT-20
	Fundamentals of Databases	201CS665A	2020-2021	GRBT-20
	Open Pit Slope Analysis and Design	201MM665A	2020-2021	GRBT-20
	Hybrid and Electric Vehicles	201AM665A	2020-2021	GRBT-20
	Basic Concepts in Petroleum Drilling Engineering	201PT665A	2020-2021	GRBT-20
	Operations Management	201MB665A	2020-2021	GRBT-20
	Constitution of India	19110397	2019-2020	GRBT-19
	Building planning and Drawing lab	19110311,	2019-2020	GRBT-19
	Robotics	19110462A	2019-2020	GRBT-19
	Operating Systems	19110462B	2019-2020	GRBT-19
	Utilization of Electrical Energy	19110462C	2019-2020	GRBT-19
	Internet of Things	19110462D	2019-2020	GRBT-19
	Environmental Pollution & Control	19110462E	2019-2020	GRBT-19
	Basic Automobile Engineering	19110462F	2019-2020	GRBT-19
	Elements of Mining Technology	19110462G	2019-2020	GRBT-19
	Construction Technology and Management	19110466A	2019-2020	GRBT-19
	Green Technologies	19110466B	2019-2020	GRBT-19
	Railway Engineering	19110466C	2019-2020	GRBT-19
	Industrial Pollution, Control and Management	19110466D	2019-2020	GRBT-19
	Repair & Rehabilitation of Structures	19110566A	2019-2020	GRBT-19
	Expansive Soils	19110566B	2019-2020	GRBT-19
	Airports, Docks and Harbour Engineering	19110566C	2019-2020	GRBT-19
	Environmental Impact Assessment	19110566D	2019-2020	GRBT-19

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Name of the programme	Name of the Course	Course Code	Year of introduction (during the last five years)	Regulation
	Mini Project-1/Study Project/Internship	19110513	2019-2020	GRBT-19
	MEMS	19110661A	2019-2020	GRBT-19
	Information Security	19110661B	2019-2020	GRBT-19
	Energy Management	19110661C	2019-2020	GRBT-19
	Digital Image Processing	19110661D	2019-2020	GRBT-19
	Solid Waste Management	19110661E	2019-2020	GRBT-19
	Hybrid and Electrical Vehicles	19110661F	2019-2020	GRBT-19
	Disaster Management in Mining	19110661G	2019-2020	GRBT-19
	Software applications in Civil Engineering	19110611	2019-2020	GRBT-19
	Nano Technology	19116761A	2019-2020	GRBT-19
	Human Computer Interaction	19116761B	2019-2020	GRBT-19
	Renewable Energy Resources	19116761C	2019-2020	GRBT-19
	Data Communication	19116761D	2019-2020	GRBT-19
	Global Environment: Problems & Policies	19116761E	2019-2020	GRBT-19
	Modern Vehicle Technology	19116761F	2019-2020	GRBT-19
	Remote Sensing & GIS in Mining	19116761G	2019-2020	GRBT-19
	Matrix Analysis of Structures	19110765-A	2019-2020	GRBT-19
	Advanced Foundation Engineering	19110765-B	2019-2020	GRBT-19
	Urban Transportation Planning	19110765-C	2019-2020	GRBT-19
	Remote Sensing and GIS	19110765-D	2019-2020	GRBT-19
	Design Thinking and Product Innovation	19119796	2019-2020	GRBT-19
	Infrastructure Design and Detailing Laboratory	19110711	2019-2020	GRBT-19

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Name of the programme	Name of the Course	Course Code	Year of introduction (during the last five years)	Regulation
	Summer Internship/ Mini Project -2	19110731-19110721	2019-2020	GRBT-19
	Finite Element Method	19110862-A	2019-2020	GRBT-19
	Soil Dynamics and Machine Foundation	19110862-B	2019-2020	GRBT-19
	Pavement Analysis, Design and Evaluation	19110862-C	2019-2020	GRBT-19
	Industrial Waste & Waste - Water Engineering	19110862-D	2019-2020	GRBT-19
B.Tech.(ELECTRICAL & ELECTRONICA ENGINEERING)	Fundamentals of Computer programming	201CS204A	2020-2021	GRBT-20
	Fundamentals of Computer programming Laboratory	201CS213A	2020-2021	GRBT-20
	Fundamentals of Electronic Devices and circuits	201EE302	2020-2021	GRBT-20
	DC Machines and Transformers	201EE304	2020-2021	GRBT-20
	DC Machines and Transformers	201EE304	2020-2021	GRBT-20
	Fundamentals of Electronic Devices and circuits Laboratory	201EE313	2020-2021	GRBT-20
	Skill oriented course- Design of Electrical Circuits using Engineering Software Tools	201EE381	2020-2021	GRBT-20
	Introduction to Python Programming	201CS401	2020-2021	GRBT-20
	Induction and Synchronous Machines	201EE404	2020-2021	GRBT-20
	Python Programming Lab	201CS411	2020-2021	GRBT-20
	Electrical measurements and machines lab-II	201EE412	2020-2021	GRBT-20
	Skill oriented course -IOT Applications of Electrical Engineering	201EE481	2020-2021	GRBT-20
	English for Career	201HB591	2020-2021	GRBT-20
	Optimization through electrical software	201EE611	2020-2021	GRBT-20
	Organizational behaviour	19129761B	2019-2020	GRBT-19
	Human Resource management	19129761C	2019-2020	GRBT-19

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Name of the programme	Name of the Course	Course Code	Year of introduction (during the last five years)	Regulation
	Entrepreneurship Qualities for Engineers	19129761D	2019-2020	GRBT-19
	Principles of Management	19129761E	2019-2020	GRBT-19
	Financial Management for Engineers	19129761F	2019-2020	GRBT-19
	Operations management	19129761G	2019-2020	GRBT-19
	Digital Marketing	19129761H	2019-2020	GRBT-19
	Total Quality Management	19129761I	2019-2020	GRBT-19
B.Tech.(Mechanical Engineering)	Computer Aided Design and Modelling Lab	201ME313	2020-2021	GRBT-20
	Programming with Python	201CS381	2020-2021	GRBT-20
	Numerical Modelling for Mechanical Engineers	201ME411	2020-2021	GRBT-20
	English for Career	201HB481	2020-2021	GRBT-20
	Modelling and Simulation of Mechanical Systems	201ME581	2020-2021	GRBT-20
	Computer Aided Manufacturing Lab	201ME613	2020-2021	GRBT-20
	Finite Element Analysis	201ME681	2020-2021	GRBT-20
	Quantitative Aptitude and Reasoning	201HB691	2020-2021	GRBT-20
	UHV 2 –Understanding Harmony	201HB781	2020-2021	GRBT-20
	Computational Fluid Dynamics Lab	201ME781	2020-2021	GRBT-20
	Microprocessors and its Interfacing	201EC565A	2020-2021	GRBT-20
	Concepts of Power System Engineering	201EE665A	2020-2021	GRBT-20
	IOT and its Applications	201EC665A	2020-2021	GRBT-20
	Fundamentals of Databases	201CS665A	2020-2021	GRBT-20
	Hybrid and Electric Vehicles	201AM665A	2020-2021	GRBT-20
	Open Pit Slope Analysis and Design	201MM665A	2020-2021	GRBT-20
	Basic Concepts in Petroleum Drilling Engineering	201PT665	2020-2021	GRBT-20

Name of the programme	Name of the Course	Course Code	Year of introduction (during the last five years)	Regulation
	Building Technology	201CE764A	2020-2021	GRBT-20
	Fundamentals of smart grid technologies	201EE764A	2020-2021	GRBT-20
	Embedded Systems	201EC764A	2020-2021	GRBT-20
	Information Security	201CS764A	2020-2021	GRBT-20
	Introduction to Petroleum Production Engineering	201PT7614	2020-2021	GRBT-20
	Entrepreneurship for Engineers	201MB764A	2020-2021	GRBT-20
	Safety Engineering	201CE765A	2020-2021	GRBT-20
	Basics of Electrical Measurements and Instrumentation	201EE765A	2020-2021	GRBT-20
	Alternative Energy Resources for Automotives	201AM765A	2020-2021	GRBT-20
	Basic Concepts in Reservoir Engineering	201PT7613	2020-2021	GRBT-20
	Problem Solving & Programming in C	19199204	2019-2020	GRBT-19
	Problem Solving & Programming in C Lab	19199213	2019-2020	GRBT-19
	Design Thinking & Innovation	19198307	2019-2020	GRBT-19
	Numerical Methods and Probability & Statistics	19198401	2019-2020	GRBT-19
	Computer Aided Machine Drawing	19130411	2019-2020	GRBT-19
	Community Service Oriented Project	19130418	2019-2020	GRBT-19
	Constitution of India	19193682	2019-2020	GRBT-19
	Industrial Engineering & Management	19130604	2019-2020	GRBT-19
	Utilization of Electrical Energy	19130462-B	2019-2020	GRBT-19
	Operating Systems	19130462-D	2019-2020	GRBT-19
	Elements of Mining Technology	19130462-E	2019-2020	GRBT-19
	Solid Waste Management	19130561-A	2019-2020	GRBT-19
	Digital Image Processing	19130561-B	2019-2020	GRBT-19

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Name of the programme	Name of the Course	Course Code	Year of introduction (during the last five years)	Regulation
	Information Security	19130561-D	2019-2020	GRBT-19
	Disaster Management In Mining	19130561-E	2019-2020	GRBT-19
	Entrepreneurship Qualities for Engineers	19130601-B	2019-2020	GRBT-19
	Financial Management for Engineers	19130601-D	2019-2020	GRBT-19
	Operations Management	19130601-E	2019-2020	GRBT-19
	Digital Marketing	19130601-F	2019-2020	GRBT-19
	Total Quality Management	19130601-G	2019-2020	GRBT-19
	Organizational Behaviour	19130601-H	2019-2020	GRBT-19
	Global Environment Problems and Policies	19130762-A	2019-2020	GRBT-19
	Data Communication	19130762-C	2019-2020	GRBT-19
	Human Computer Interaction	19130762-D	2019-2020	GRBT-19
	Remote Sensing & GIS In Mining	19130762-E	2019-2020	GRBT-19
	Modern Vehicle Technology	19130762-F	2019-2020	GRBT-19
	Fuel Combustion and Emission Control	19130505-A	2019-2020	GRBT-19
	Tribology	19130505-B	2019-2020	GRBT-19
	Industrial Robotics	19130505-C	2019-2020	GRBT-19
	Advanced Materials	19130505-D	2019-2020	GRBT-19
	Mechatronics	19130667-B	2019-2020	GRBT-19
	Advanced Foundry and Welding Technology	19130667-C	2019-2020	GRBT-19
	Mechanical Vibrations	19193701-B	2019-2020	GRBT-19
	Advanced Manufacture Process	19193701-D	2019-2020	GRBT-19
	Micro Electro Mechanical System	19130765-B	2019-2020	GRBT-19
	Nano Technology	19130862-B	2019-2020	GRBT-19

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Name of the programme	Name of the Course	Course Code	Year of introduction (during the last five years)	Regulation
B.Tech.(ELECTRONICS & COMMUNICATION ENGINEERING)	Introduction To Electronics Engineering	201EC105	2020-2021	GRBT-20
	Electronic Engineering Work Shop	201ME113A	2020-2021	GRBT-20
	Data Structures	201CS204B	2020-2021	GRBT-20
	Mathematics III	201HB301	2020-2021	GRBT-20
	Programming With Java Lab	201CS311	2020-2021	GRBT-20
	English for Career	201HB381	2020-2021	GRBT-20
	Switching Theory and Logic Design Lab	201EC413	2020-2021	GRBT-20
	Analog And Digital CKT Design Using Multisim	201EC581	2020-2021	GRBT-20
	Quantitatives Aptitude Reasoning	201HB591	2020-2021	GRBT-20
	Micro Processors And Its Interfacing	201EC565D	2020-2021	GRBT-20
	Fundamentals of Petroleum Engineering	201PT565F	2020-2021	GRBT-20
	Artificial Neural Networks	201EC564D	2020-2021	GRBT-20
	Mobile And Cellulars Communications	201EC664B	2020-2021	GRBT-20
	Microwave and Optical Communication Engineering	201EC603	2020-2021	GRBT-20
	Arm Based /Arduion Based Programming	201EC681	2020-2021	GRBT-20
	Concept of Power System Engineering	201EE665B	2020-2021	GRBT-20
	IOT And Applications	201EC665D	2020-2021	GRBT-20
	Fundamentals of Data Base	201CS665E	2020-2021	GRBT-20
	Basic Concept In Petroleum Drilling Engineering	201PT665F	2020-2021	GRBT-20
	Open Pit Slot Analysis And Design	201MM665G	2020-2021	GRBT-20
	Human Resource Management	19149701I	2019-2020	GRBT-19
	Bio Medical Instrumentation	19140706A	2019-2020	GRBT-19
	Entrepreneurship Qualities For Engineering	19149701B	2019-2020	GRBT-19

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Name of the programme	Name of the Course	Course Code	Year of introduction (during the last five years)	Regulation
	Financial Management For Engineering	19149701D	2019-2020	GRBT-19
	Operation Management	19149701E	2019-2020	GRBT-19
	Digital Marketing	19149701F	2019-2020	GRBT-19
	Total Quality Management	19149701G	2019-2020	GRBT-19
	Organization Behaviour	19149701H	2019-2020	GRBT-19
	Low Power VLSI Design	19140802B	2019-2020	GRBT-19
	Multimedia Communication	19140802C	2019-2020	GRBT-19
	Radar System Engineering	19140802A	2019-2020	GRBT-19
	Digital IC Design	19140801B	2019-2020	GRBT-19
B.Tech.(COMPUTER SCIENCE & ENGINEERING)	Fundamentals of Digital Electronics	201CS105	2020-2021	GRBT-20
	Computer Engineering Workshop	201ME113C	2020-2021	GRBT-20
	Computer Organization	201CS303	2020-2021	GRBT-20
	Linux and Shell Programming Lab	201CS313	2020-2021	GRBT-20
	Web Application Development Using Full Stack Module -1	201CS381	2020-2021	GRBT-20
	Constitution of India	201CE391	2020-2021	GRBT-20
	Statistics with R Programming	201CS401	2020-2021	GRBT-20
	Operating Systems & Software Engineering Lab	201CS413	2020-2021	GRBT-20
	Web Application Development Using Full Stack Module -2	201CS481	2020-2021	GRBT-20
	Data Mining and Data Warehousing	201CS501	2020-2021	GRBT-20
	Principles of Management	201MB565A	2020-2021	GRBT-20
	Natural Language Processing	201CS564A	2020-2021	GRBT-20
	Data Science	201CS564B	2020-2021	GRBT-20
	Artificial Intelligence	201CS564C	2020-2021	GRBT-20

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Name of the programme	Name of the Course	Course Code	Year of introduction (during the last five years)	Regulation
	Object Oriented Analysis & Design	201CS564D	2020-2021	GRBT-20
	Quantitative Aptitude and Reasoning	201HB591	2020-2021	GRBT-20
	Web Application Development Using Full Stack Module -3	201CS581	2020-2021	GRBT-20
	Data Mining and Data Warehousing Lab	201CS511	2020-2021	GRBT-20
	Internetworking Protocol Lab	201CS512	2020-2021	GRBT-20
	Cryptography & Network Security	201CS601	2020-2021	GRBT-20
	Big Data Analytics	201CS602	2020-2021	GRBT-20
	Machine Learning	201CS603	2020-2021	GRBT-20
	Software Testing Methodologies	201CS664A	2020-2021	GRBT-20
	E-Commerce	201CS664B	2020-2021	GRBT-20
	Mean Stack Technologies	201CS664C	2020-2021	GRBT-20
	Advanced Data Structures	201CS664D	2020-2021	GRBT-20
	IPR and Patents	201MB691	2020-2021	GRBT-20
	English for Career	201HB681	2020-2021	GRBT-20
	Big Data Analytics Lab	201CS612	2020-2021	GRBT-20
	Machine Learning using Python Lab	201CS613	2020-2021	GRBT-20
	Distributed Systems	201CS761A	2020-2021	GRBT-20
	Cloud Computing	201CS761B	2020-2021	GRBT-20
	Mobile Computing	201CS761C	2020-2021	GRBT-20
	Ad-hoc and Sensor Networks	201CS761D	2020-2021	GRBT-20
	Software Project Management	201CS762A	2020-2021	GRBT-20
	Software Quality Management	201CS762B	2020-2021	GRBT-20
	Cyber Security & Forensics	201CS762C	2020-2021	GRBT-20

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Name of the programme	Name of the Course	Course Code	Year of introduction (during the last five years)	Regulation
	MOOCS-NPTEL/SWAYAM	201CS762D	2020-2021	GRBT-20
	Deep Learning Techniques	201CS763A	2020-2021	GRBT-20
	Soft Computing	201CS763B	2020-2021	GRBT-20
	Block Chain Technologies and its Applications	201CS763C	2020-2021	GRBT-20
	UHV 2 - Understanding Harmony	201MB7966	2020-2021	GRBT-20
	Deep Learning using Python	201CS707	2020-2021	GRBT-20
	Engineering Physics	19199103	2019-2020	GRBT-19
	Problem Solving & Programming in C	19199104	2019-2020	GRBT-19
	Engineering Graphics	19193175	2019-2020	GRBT-19
	Engineering Physics Laboratory	19199112	2019-2020	GRBT-19
	Probability & Statistics	19199201B	2019-2020	GRBT-19
	Applied Chemistry	19199203	2019-2020	GRBT-19
	Basic Electrical & Electronics Engineering	19199204	2019-2020	GRBT-19
	Python Programming	19199205	2019-2020	GRBT-19
	Basic Electrical & Electronics Engineering Laboratory	19192212	2019-2020	GRBT-19
	Python Programming Laboratory	19195213	2019-2020	GRBT-19
	Engineering Chemistry Laboratory	19199214	2019-2020	GRBT-19
	Discrete Mathematics	19159301	2019-2020	GRBT-19
	Object Oriented Programming Through C++	19159302	2019-2020	GRBT-19
	Digital Logic & Computer Organization	19150303	2019-2020	GRBT-19
	Design Thinking & Product Innovation	19150306	2019-2020	GRBT-19
	Object Oriented Programming Through C++ Laboratory	1915012	2019-2020	GRBT-19
	Data Structures Laboratory	19150313	2019-2020	GRBT-19

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Name of the programme	Name of the Course	Course Code	Year of introduction (during the last five years)	Regulation
	Data Base Management Systems Laboratory	19150314	2019-2020	GRBT-19
	Number Theory & Applications	19150404	2019-2020	GRBT-19
	Financial Management for Engineers	19151466A	2019-2020	GRBT-19
	Entrepreneurship qualities for Engineers	19152466B	2019-2020	GRBT-19
	Managerial Economics & Financial Analysis	19153466C	2019-2020	GRBT-19
	Principles of Management	19154466D	2019-2020	GRBT-19
	Organizational Behaviour	19155466E	2019-2020	GRBT-19
	Digital Marketing	19156466F	2019-2020	GRBT-19
	Operations Management	19157466G	2019-2020	GRBT-19
	Total Quality Management	19159466H	2019-2020	GRBT-19
	Human Resource Management	19159466I	2019-2020	GRBT-19
	Web Technologies	19150502	2019-2020	GRBT-19
	Computer Networks	19150504	2019-2020	GRBT-19
	Advanced JAVA Programming	19150565A	2019-2020	GRBT-19
	Principles of Computer Security	19150565B	2019-2020	GRBT-19
	Mobile Computing	19150565C	2019-2020	GRBT-19
	Environmental Pollution Control	19151566A	2019-2020	GRBT-19
	Utilization of Electrical Energy	19151566B	2019-2020	GRBT-19
	Robotics	19151566C	2019-2020	GRBT-19
	Internet of Things	19151566D	2019-2020	GRBT-19
	Operating Systems	19151566E	2019-2020	GRBT-19
	Elements of Mining Technology	19151566F	2019-2020	GRBT-19
	Basic Automobile Engineering	19151566G	2019-2020	GRBT-19

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Name of the programme	Name of the Course	Course Code	Year of introduction (during the last five years)	Regulation
	Web Technologies Laboratory	19150512	2019-2020	GRBT-19
	Community Service Oriented Project	19150581	2019-2020	GRBT-19
	Mini Project-1/ Study Project/ Internship	19150522	2019-2020	GRBT-19
	Artificial Intelligence	19150602	2019-2020	GRBT-19
	Unified Modelling Language	19150603	2019-2020	GRBT-19
	Software Architecture, Frameworks and Patterns	19150664A	2019-2020	GRBT-19
	Virtual Reality	19150664B	2019-2020	GRBT-19
	Distributed Systems	19150664C	2019-2020	GRBT-19
	Solid Waste Management	19152665A	2019-2020	GRBT-19
	Energy Management	19152665B	2019-2020	GRBT-19
	MEMS	19152665C	2019-2020	GRBT-19
	Digital Image Processing	19152665D	2019-2020	GRBT-19
	Information Security	19152665E	2019-2020	GRBT-19
	Disaster Management in Mining	19152665F	2019-2020	GRBT-19
	Hybrid and Electric Vehicles	19152665G	2019-2020	GRBT-19
	Constitution of India	19151696	2019-2020	GRBT-19
	Soft Skills	19150611	2019-2020	GRBT-19
	AI Tools & Techniques Laboratory	19150612	2019-2020	GRBT-19
	Unified Modelling Language Laboratory	19150613	2019-2020	GRBT-19
	Machine Learning	19150702	2019-2020	GRBT-19
	NOSQL Databases	19150763A	2019-2020	GRBT-19
	Digital Image Processing	19150763B	2019-2020	GRBT-19
	Cloud Computing	19150763C	2019-2020	GRBT-19

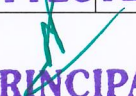
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Name of the programme	Name of the Course	Course Code	Year of introduction (during the last five years)	Regulation
	Big Data Analytics	19150764A	2019-2020	GRBT-19
	Deep Learning	19150764B	2019-2020	GRBT-19
	Parallel Computing	19150764C	2019-2020	GRBT-19
	Global Environment: Problems & Policies	19151765A	2019-2020	GRBT-19
	Renewable Energy Resources	19151765B	2019-2020	GRBT-19
	Nano Technology	19151765C	2019-2020	GRBT-19
	Data Communication	19151765D	2019-2020	GRBT-19
	Human Computer Interaction	19151765E	2019-2020	GRBT-19
	Remote Sensing & GIS in Mining	19151765F	2019-2020	GRBT-19
	Modern Vehicle Technology	19151765G	2019-2020	GRBT-19
	Intellectual Property Rights and Patents	19159796	2019-2020	GRBT-19
	Machine Learning Laboratory	19150712	2019-2020	GRBT-19
	Software Testing Methodologies	19150801	2019-2020	GRBT-19
	Distributed Databases	19150862A	2019-2020	GRBT-19
	Cyber Security	19150862B	2019-2020	GRBT-19
B.Tech.(AUTOMOBILE ENGINEERING)	English for Career	201HB381	2020-21	GRBT-20
	Programming with Python	201CS481A	2020-21	GRBT-20
	Electric Vehicle Design & Assembling	201AM581	2020-21	GRBT-20
	CFD for Automobile Applications	201AM664A	2020-21	GRBT-20
	Quantitative Aptitude and Reasoning	201HB691	2020-21	GRBT-20
	Additive Manufacturing	201AM781	2020-21	GRBT-20

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Name of the programme	Name of the Course	Course Code	Year of introduction (during the last five years)	Regulation
	Automobile HVAC	201AM761B	2020-21	GRBT-20
	Vehicle Infotronics	201AM761D	2020-21	GRBT-20
	Automobile Certification and Homologation	201AM762A	2020-21	GRBT-20
	Smart, Autonomous and Connected Vehicles	201AM763D	2020-21	GRBT-20
	Design Thinking & Product Innovation	19170386	2019-20	GRBT-19
	Community service oriented project	19170421	2019-20	GRBT-19
	Operating Systems	19170466B	2019-20	GRBT-19
	Utilization of Electrical Energy	19170466C	2019-20	GRBT-19
	Elements of Mining Technology	19170466G	2019-20	GRBT-19
	Information Security	19170565B	2019-20	GRBT-19
	Digital Image Processing	19170565D	2019-20	GRBT-19
	Solid Waste Management	19170565E	2019-20	GRBT-19
	Disaster Management in Mining	19170565G	2019-20	GRBT-19
	Human Computer Interaction	19170666B	2019-20	GRBT-19
	Global Environment Problems & Policies	19170666E	2019-20	GRBT-19
	Remote Sensing & GIS In Mining	19170666G	2019-20	GRBT-19
	Constitution of India	19170687	2019-20	GRBT-19
	Accident Analysis	19170621	2019-20	GRBT-19
	Financial Management for Engineers	19179766D	2019-20	GRBT-19
	Operations Management	19179766E	2019-20	GRBT-19
	Digital Marketing	19179766F	2019-20	GRBT-19

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Name of the programme	Name of the Course	Course Code	Year of introduction (during the last five years)	Regulation
	Total Quality Management	19179766G	2019-20	GRBT-19
	Organizational Behaviour	19179766H	2019-20	GRBT-19
	Human Resource Management	19179766I	2019-20	GRBT-19
	Intellectual Property Rights and Patents	19170787	2019-20	GRBT-19
B.Tech.(MINING ENGINEERING)	Probability & Statistics	201HB301A	2020-2021	GRBT-20
	Mine Development	201MM302	2020-2021	GRBT-20
	Mine Surveying	201MM303	2020-2021	GRBT-20
	Mining Geology	201MM304	2020-2021	GRBT-20
	Mining Machinery	201MM305	2020-2021	GRBT-20
	Mine Surveying Lab	201MM311	2020-2021	GRBT-20
	Mining Geology Lab	201MM312	2020-2021	GRBT-20
	Mining Machinery Lab	201MM313	2020-2021	GRBT-20
	Programming with Python	201CS381	2020-2021	GRBT-20
	Constitution of India	201CE391	2020-2021	GRBT-20
	Mineral Processing	201MM401	2020-2021	GRBT-20
	Advanced Mine Surveying	201MM402	2020-2021	GRBT-20
	Surface Mining	201MM403	2020-2021	GRBT-20
	Underground Coal Mining	201MM404	2020-2021	GRBT-20
	Mine System Engineering	201MM405	2020-2021	GRBT-20
	Mineral Processing Lab	201MM411	2020-2021	GRBT-20
	Advanced Mine Surveying Lab	201MM412	2020-2021	GRBT-20
	Engineering Geology Lab	201MM413	2020-2021	GRBT-20
	CAD for Mining	201MM481	2020-2021	GRBT-20

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Name of the programme	Name of the Course	Course Code	Year of introduction (during the last five years)	Regulation
	Mine Systems Engineering	19160501	2019-2020	GRBT-19
	Underground Metal Mining	19160502	2019-2020	GRBT-19
	Mine Ventilation	19160503	2019-2020	GRBT-19
	Mine Planning & Design	19160504	2019-2020	GRBT-19
	Mine Transportation	19160565A	2019-2020	GRBT-19
	Mine Valuation	19160565B	2019-2020	GRBT-19
	Rock Excavation Engineering	19160565C	2019-2020	GRBT-19
	Advanced Coal Mining	19160565D	2019-2020	GRBT-19
	Environmental Pollution & Control in Mines	19160565E	2019-2020	GRBT-19
	MECH - MEMS	19163566A	2019-2020	GRBT-19
	CSE- Information Security	19163566A	2019-2020	GRBT-19
	EEE – Energy management	19163566A	2019-2020	GRBT-19
	ECE – Digital Image Processing	19163566A	2019-2020	GRBT-19
	CE – Solid Waste Management	19163566A	2019-2020	GRBT-19
	AME – Hybrid and Electric Vehicles	19163566A	2019-2020	GRBT-19
	MM – Disaster Management in Mining	19163566A	2019-2020	GRBT-19
	Constitution of India	19160587	2019-2020	GRBT-19
	Mine Ventilation Laboratory	19160511	2019-2020	GRBT-19
	Mine Planning & Design Laboratory	19160512	2019-2020	GRBT-19
	Mini Project-1/Study Project/Internship	19160521	2019-2020	GRBT-19
	Rock Mechanics	19160601	2019-2020	GRBT-19
	Mineral Processing	19160602	2019-2020	GRBT-19
	Mineral Economics	19160603	2019-2020	GRBT-19

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Name of the programme	Name of the Course	Course Code	Year of introduction (during the last five years)	Regulation
	Planning of Surface Mines	19160664A	2019-2020	GRBT-19
	Enterprise Resource Planning	19160664B	2019-2020	GRBT-19
	Mine Strata Control	19160664C	2019-2020	GRBT-19
	Innovative Mining Systems	19160664D	2019-2020	GRBT-19
	Environmental Impact Assessment in Mines	19160664E	2019-2020	GRBT-19
	MECH – Nano Technology	19163665A	2019-2020	GRBT-19
	CSE – Human Computer Interaction	19163665A	2019-2020	GRBT-19
	EEE – Renewable Energy Resources	19163665A	2019-2020	GRBT-19
	ECE – Data Communication	19163665A	2019-2020	GRBT-19
	CE – Global Environment: Problems & Policies	19163665A	2019-2020	GRBT-19
	AME – AME – Modern Vehicle Technology	19163665A	2019-2020	GRBT-19
	MM- Remote Sensing & GIS in Mining	19163665A	2019-2020	GRBT-19
	Community Service Oriented Project	19160621	2019-2020	GRBT-19
	Soft Skills	19169686	2019-2020	GRBT-19
	Rock Mechanics Laboratory	19160611	2019-2020	GRBT-19
	Mineral Processing Laboratory	19160612	2019-2020	GRBT-19
B.Tech.(PETROLEIUM ENGINEERING)	English for career	201HB581	2020-2021	GRBT-20
	IPR & Patents	201MB591	2020-2021	GRBT-20
	Enhanced oil recovery	201PT601	2020-2021	GRBT-20
	Computer Aided Drafting	201PT613	2020-2021	GRBT-20
	Applications of ML in Petroleum Engineering	201PT681	2020-2021	GRBT-20
	Quantitative Aptitude and Reasoning	201HB691	2020-2021	GRBT-20
	Probability and Statistics	20309101	2020-2021	GRBT-20

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Name of the programme	Name of the Course	Course Code	Year of introduction (during the last five years)	Regulation
B.Tech.(Artificial Intelligence and Machine Learning)	Computer Engineering Workshop	201ME113c	2020-2021	GRBT-20
	Python Programming	201CS205	2020-2021	GRBT-20
	Design and Analysis of Algorithms	201CS302	2020-2021	GRBT-20
	Managerial Economics and Financial Analysis	201HB305	2020-2021	GRBT-20
	Linux and Shell Programming Lab	201CS313	2020-2021	GRBT-20
	Web Application Development Using Full Stack Module -1	201CS381	2020-2021	GRBT-20
	Constitution of India	201CE391	2020-2021	GRBT-20
	Introduction to Artificial Intelligence and Machine Learning	201AI404	2020-2021	GRBT-20
	Introduction to Artificial Intelligence and Machine Learning Lab	201AI412	2020-2021	GRBT-20
	Web Application Development Using Full Stack Module -2	201CS481	2020-2021	GRBT-20
	Quantitative Aptitude and Reasoning	201HB591	2020-2021	GRBT-20
	Web Application Development Using Full Stack Module -3	201CS581	2020-2021	GRBT-20
	Advanced Data Structures	201AI601	2020-2021	GRBT-20
	Advanced Data Structures Lab	201AI611	2020-2021	GRBT-20
	Machine Learning	201CS603	2020-2021	GRBT-20
	Machine Learning using Python Lab	201CS613	2020-2021	GRBT-20
	Deep Learning using Python	201CS781	2020-2021	GRBT-20
	IPR and Patents	201MB691	2020-2021	GRBT-20
	English for Career	201HB681	2020-2021	GRBT-20
	UHV 2: Understanding Harmony	201HB796	2020-2021	GRBT-20
	Computer Engineering Workshop	201ME113c	2020-2021	GRBT-20
	Python Programming	201CS205	2020-2021	GRBT-20
	Mathematical Foundations of Cyber Security	201CY301	2020-2021	GRBT-20

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Name of the programme	Name of the Course	Course Code	Year of introduction (during the last five years)	Regulation
B.Tech.(Cyber Security)	Design and Analysis of Algorithms	201CS302	2020-2021	GRBT-20
	Managerial Economics and Financial Analysis	201HB305	2020-2021	GRBT-20
	Linux and Shell Programming Lab	201CS313	2020-2021	GRBT-20
	Web Application Development Using Full Stack Module -1	201CS381	2020-2021	GRBT-20
	Constitution of India	201CE391	2020-2021	GRBT-20
	Operating Systems & Software Engineering Lab	201CS413	2020-2021	GRBT-20
	Web Application Development Using Full Stack Module -2	201CS481	2020-2021	GRBT-20
	Principles of Cyber Security	201CY501	2020-2021	GRBT-20
	Quantitative Aptitude and Reasoning	201HB591	2020-2021	GRBT-20
	Cyber Security Lab	201CY511	2020-2021	GRBT-20
	Web Application Development Using Full Stack Module -3	201CS581	2020-2021	GRBT-20
	Cryptography & Network Security	201CS601	2020-2021	GRBT-20
	Ethical Hacking	201CY602	2020-2021	GRBT-20
	Artificial Intelligence	201CY603	2020-2021	GRBT-20
	Cryptography & Network Security Lab	201CS611	2020-2021	GRBT-20
	Ethical Hacking Lab	201CY612	2020-2021	GRBT-20
	AI Tools and Techniques Lab	201CY613	2020-2021	GRBT-20
	IPR and Patents	201MB691	2020-2021	GRBT-20
	English for Career	201HB681	2020-2021	GRBT-20
	UHV 2: Understanding Harmony	201HB796	2020-2021	GRBT-20
	Multimedia Application Development	201CY781	2020-2021	GRBT-20
MASTER OF COMPUTER APPLICATIONS	Problem Solving using C & Data Structures	20309103	2020-2021	GRBT-20
	Computer Organization	20309104	2020-2021	GRBT-20

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Name of the programme	Name of the Course	Course Code	Year of introduction (during the last five years)	Regulation
	Database Management Systems	20309105	2020-2021	GRBT-20
	C &Data Structures Lab	20300111	2020-2021	GRBT-20
	Database Management Systems Lab	20300112	2020-2021	GRBT-20
	Python Programming Lab	20300113	2020-2021	GRBT-20
	Operating Systems	20300202	2020-2021	GRBT-20
	Software Engineering	20300203	2020-2021	GRBT-20
	Design & Analysis of Algorithms	20300204	2020-2021	GRBT-20
	Computer Networks	20300205	2020-2021	GRBT-20
	Operating Systems and Unix Lab	20300212	2020-2021	GRBT-20
	Software Engineering Lab	20300213	2020-2021	GRBT-20
	Full Stack Web Development	20300301	2020-2021	GRBT-20
	Data Science	20300302	2020-2021	GRBT-20
	Internet of Things	20300303	2020-2021	GRBT-20
	Cyber Security and Forensics	20300364A	2020-2021	GRBT-20
	Software Testing and Quality Management	20300364B	2020-2021	GRBT-20
	Design Patterns	20300364C	2020-2021	GRBT-20
	Simulation Modelling	20300364D	2020-2021	GRBT-20
	Professional Ethics	20309305	2020-2021	GRBT-20
	Full Stack Web Development Lab	20300311	2020-2021	GRBT-20
	Data Science with R Programming Lab	20300312	2020-2021	GRBT-20
	Internet of Things Lab	20300313	2020-2021	GRBT-20
	Mini Project	20300321	2020-2021	GRBT-20
	Digital Image Processing	20300461A	2020-2021	GRBT-20

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Name of the programme	Name of the Course	Course Code	Year of introduction (during the last five years)	Regulation
	Machine Learning	20300461B	2020-2021	GRBT-20
	Big Data Analytics	20300461C	2020-2021	GRBT-20
	MOOCS - 1 (NPTEL/SWAYAM)	20300461D	2020-2021	GRBT-20
	Seminar	20300431	2020-2021	GRBT-20
	Project Work/Dissertation	20300441	2020-2021	GRBT-20
MASTER OF BUSINESS ADMINISTRATION	Hospitality Management	20400361E	2020-2021	GRBT-20
	Tourism Policy and Planning	20400362E	2020-2021	GRBT-20
	Travel Media and Journalism	20400461E	2020-2021	GRBT-20
	Eco Tourism Practices	20400462E	2020-2021	GRBT-20
	Social Entrepreneurship	20400361F	2020-2021	GRBT-20
	Planning, Structuring, and Financing Small Business	20400362F	2020-2021	GRBT-20
	Finance and Accounting for Small Business	20400461F	2020-2021	GRBT-20
	Venture Valuation and Accounting	20400462F	2020-2021	GRBT-20
	Text, Social Media & Web Analytics	20400361G	2020-2021	GRBT-20
	Big Data Analytics	20400362G	2020-2021	GRBT-20
	Financial Analytics	20400461G	2020-2021	GRBT-20
	Econometrics and Business Forecasting	20400462G	2020-2021	GRBT-20
	Human Resource Metrics and Analytics	20400362C	2020-2021	GRBT-20
	Digital and Social Media Marketing	20400361A	2020-2021	GRBT-20
	Information Technology – Lab1(Spreadsheet and Tally)	20400111	2020-2021	GRBT-20
	Business Communication and Soft Skills Lab	20400122	2020-2021	GRBT-20
	IT-lab 2 (Programming R)	2040021	2020-2021	GRBT-20

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Name of the programme	Name of the Course	Course Code	Year of introduction (during the last five years)	Regulation
	Managerial skill & development	20400491	2020-2021	GRBT-20



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