

## New courses introduced during last 5 years (2017-22)

Department	Course Code	Name of the Course	Year of introduction
ECE	17B11EC411	Electromagnetic Engineering	2017-18
ECE	17B11EC412	Analogue and Digital Communications	2017-18
ECE	17B11EC471	Analogue and Digital Communications Lab	2017-18
ECE	17B11EC511	Linear Integrated Circuits	2017-18
ECE	17B11EC731	Antenna theory and design	2017-18
ECE	17B17EC771	Antenna theory and design Lab	2017-18
ECE	17B11EC513	Network Theory	2017-18
ECE	17B11EC512	Microwave Devices & Antenna Design	2017-18
ECE	17B11EC572	Microwave Devices & Antenna Design Lab	2017-18
ECE	17B17EC571	Linear Integrated Circuits Lab	2017-18
ECE	17B1WEC733	Robotic Systems and Control	2017-18
ECE	17B1WEC732	Applied Medical Image Processing	2017-18
ECE	17B1WEC731	Time Frequency analysis and its applications	2017-18
ECE	17M1WEC331	VLSI in Biomedical Processing System	2017-18
ECE	17M1WEC332	Computational Intelligence and Applications	2017-18
ECE	17B1WEC831	Bio-Medical Signal Processing	2017-18
ECE	17B1WEC832	Multirate DSP	2017-18
ECE	17B1WEC833	Basics of Software Defined Radios	2017-18
ECE	18B11EC211	Electrical Science	2017-18
ECE	18B17EC271	Electrical Science Lab	2017-18
ECE	18B11EC212	Basic Electrical Sciences	2017-18
ECE	18B17EC272	Basic Electrical Sciences lab	2017-18
ECE	17B19EC591	Minor Project	2017-18
ECE	17B19EC691	Minor Project	2017-18
ECE	18B1WEC734	Medical Image Processing	2017-18
ECE	18B1WEC733	Machine Learning and Data Analytics-1	2017-18
ECE	18B1WEC732	Design of Dependables System	2017-18
ECE	18B1WEC744	FPGA Based instrumentation System Design	2017-18
ECE	18B1WEC735	Embedded system design	2018-19
ECE	18M1WEC331	Computational Electromagnetics	2018-19
HSS	17B1WHS731	Quality Management	2017-18
HSS	17B1WHS732	Human Rights for Technocrats	2017-18
HSS	17B1WHS733	Business Analytics	2017-18

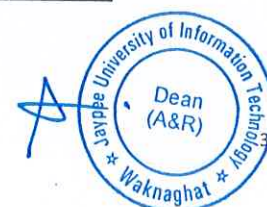
**New courses introduced during last 5 years (2017-22)**

Department	Course Code	Name of the Course	Year of introduction
HSS	17B1WHS831	Understanding India: Literary Reflections	2017-18
HSS	17B1WHS832	Six Sigma	2017-18
HSS	18B11HS111	English and Technical Communication	2017-18
HSS	18B11HS171	English and Technical Communication Lab	2017-18
PMS	17B11PH111	BASIC ENGINEERING PHYSICS	2017-18
PMS	17B1WPH831	ENVIRONMENTAL DEGRADATION OF MATERIALS	2017-18
PMS	17B1WPH832	ATOMIC AND MOLECULAR PHYSICS	2017-18
PMS	18B11PH111	Engineering Physics-I	2017-18
PMS	18B17PH171	Engineering Physics Lab - I	2017-18
PMS	18B11PH211	Engineering Physics-II	2017-18
PMS	18B11PH112	Basic Engineering Physics-I	2017-18
PMS	18B17PH172	Basic Engineering Physics Lab-I	2017-18
PMS	18B11PH212	Bioinstrumentation Techniques	2017-18
BI	17B1WBI831	BIOINFORMATICS	2017-18
CE	17B1WCE831	Mechanics of Deformable Structures: Part 1	2017-18
CE	17B1WCE832	The Art of Structural Engineering: Bridges	2017-18
CE	17B1WCE833	Environmental Protection and Sustainability	2017-18
CE	18B17GE173	Engineering Graphics	2017-18
CE	18B17GE171	Workshop Practices	2017-18
CSE & IT	17B1WCI813	Soft Computing	2017-18
CSE & IT	17B1WCI831	Social Network	2017-18
CSE & IT	17B1WCI832	INTRODUCTION TO INTERNET OF THINGS	2017-18
CSE & IT	17B1WCI833	A I : KNOWLEDGE REPRESENTATION AND REASONING	2017-18
CSE & IT	17B1WCI834	Patent Law for Engineers and Scientists	2017-18
CSE & IT	17B1WCI835	Business Analysis and Data Mining Modeling using R	2017-18
CSE & IT	18M1WCI332	Deep Learning	2017-18
CSE & IT	17B1WCI812	Computer Games	2017-18
CSE & IT	17B1WCI814	Design and Analysis of Real World Algorithms	2017-18
CSE & IT	17B1WCI811	Mobile and Distributed Computing	2017-18
MA	17P1WMA231	Advanced Linear Algebra	2017-18
MA	18B11MA111	Engineering Mathematics -I	2017-18
MA	18B11MA211	Engineering Mathematics -II	2017-18
MA	18B11MA112	Basic Mathematics -I	2017-18
MA	18B11MA212	Basic Mathematics-II	2017-18
MA	18B11MA211	Engineering Mathematics -2 (Differential Calculas)	2017-18
BT	17B1WBT831	Aspects of Biochemical Engineering	2017-18



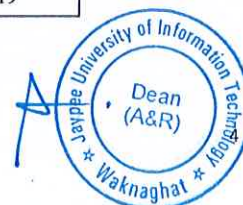
**New courses introduced during last 5 years (2017-22)**

Department	Course Code	Name of the Course	Year of introduction
BT	18B11BT111	Fundamental Biology	2017-18
BT	18B17BT171	Fundamental Biology lab	2017-18
BT	13M11BT111	Advances in Molecular Cell Biology	2017-18
BT	13M17BT171	Advances in Molecular Cell Biology Lab	2017-18
CSE & IT	18B11CI211	Programming for Problem Solving	2017-18
CSE & IT	18B17CI271	Programming for Problem Solving Lab	2017-18
CSE & IT	18B11CI211	Data Structure & Algorithms	2017-18
CSE & IT	18B17CI271	Data Structure & Algorithms Lab	2017-18
CSE & IT	19B11CI111	Programming for Problem Solving-II	2017-18
CSE & IT	19B17CI171	Programming for Problem Solving Lab-II	2017-18
CSE & IT	18M1WCI113	Cyber Warfare and Cyber Crime	2017-18
CSE & IT	18M11CI114	Cryptography and Information System Security	2017-18
CSE & IT	18M1WCI115	Secure Software Design	2017-18
CSE & IT	18M1WCI117	Advanced Mobile and Distributed Computing	2017-18
CSE & IT	18M1WCI116	Security Design and Architecture	2017-18
CSE & IT	18M17CI171	Software Systems Security Lab -I	2017-18
CSE & IT	18M11CI113	Advanced Database Systems Security	2017-18
CSE & IT	18M1WCI114	Secure Enterprise Computing	2017-18
CSE & IT	18M1WCI112	Security Investigation	2017-18
CSE & IT	18M1WCI111	Security Risk Analysis	2017-18
CSE & IT	18M1WCI118	Web Application Security	2017-18
PMS	18B17PH271	Engineering Physics Lab -II	2018-19
PMS	18B11PH611	Science Elective (Material Science)	2018-19
PMS	18B1WPH531	Science and Technology of Materials	2018-19
PMS	18B1WPH532	Applied Materials Science	2018-19
PMS	18B1WPH731	Nanotechnology	2018-19
PMS	18B1WPH732	Optical Fiber Network Design	2018-19
PMS	18B1WPH831	Opto Electronics Devices	2018-19
CSE & IT	19B1WCI814	Natural Language Processing Techniques	2018-19
CSE & IT	19B1WCI815	Computer Vision	2018-19
CSE & IT	19B1WCI816	Modeling and Simulation	2018-19
CSE & IT	19B1WCI817	R Programming and Applications	2018-19
CSE & IT	19B1WCI821	Design and Analysis of Multidimensional Data Structures	2018-19
CSE & IT	19B1WCI822	Block Chain Technologies	2018-19
CSE & IT	19B1WCI823	Advanced Computer Architecture	2018-19
CSE & IT	19B1WCI824	Secure Web Application Development	2018-19
CSE & IT	19B1WCI832	Deep Learning	2018-19

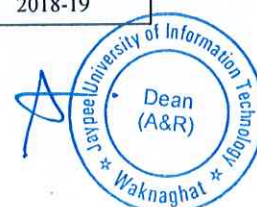


**New courses introduced during last 5 years (2017-22)**

<b>Department</b>	<b>Course Code</b>	<b>Name of the Course</b>	<b>Year of introduction</b>
CSE & IT	19B1WCI833	Machine Learning Algorithms	2018-19
CSE & IT	19B1WCI834	Fault Tolerant system Design	2018-19
CSE & IT	19B1WCI835	Software Reliability	2018-19
ECE	18B1WEC831	Networked Embedded Control Systems	2018-19
ECE	18B1WEC832	Fault Tolerant Communication Systems	2018-19
ECE	18B1WEC833	Pattern Analysis in Machine Intelligence	2018-19
ECE	18B1WEC834	Fundamentals of Next Generation Communication Systems	2018-19
ECE	18B1WEC835	Digital Filters: Analysis, Design, and Signal Processing Applications	2018-19
ECE	18B1WEC837	Theory and Applications of Intelligent Systems	2018-19
ECE	18B1WEC836	Optimum Array Processing	2018-19
HSS	18B11HS311	Interpersonal Dynamics Values and Ethics	2018-19
HSS	18B11HS411	Finance and Accounts	2018-19
HSS	18B11HS511	Project Management and Entrepreneurship	2018-19
MA	18B11MA314	Probability Theory and Random Process	2018-19
MA	18B11MA312	Probability & Statistical Techniques	2018-19
MA	18B11MA411	Bio-Statistics	2018-19
MA	18B11MA412	Bio-Statistics Lab	2018-19
MA	18B11MA311	Numerical Methods	2018-19
MA	18B11MA313	Probability & Statistics	2018-19
BT	18B11BT311	Genetics	2018-19
BT	18B11BT312	Biochemistry	2018-19
BT	18B11BT313	Thermodynamics & Chemical Processes	2018-19
BT	18B11BT314	General Chemistry	2018-19
BT	18B17BT371	Genetics Lab	2018-19
BT	18B17BT372	Biochemistry Lab	2018-19
BT	18B17BT373	Thermodynamics & Chemical Processes lab	2018-19
BT	18B17BT374	General Chemistry Lab	2018-19
BT	18B11BT411	Cell Biology and Culture Technologies	2018-19
BT	18B11BT412	Molecular Biology	2018-19
BT	18B11BT413	Introduction to Bioinformatics	2018-19
BT	18B11BT414	Microbiology	2018-19
BT	18B17BT471	Cell Biology and Culture Technologies lab	2018-19
BT	18B17BT472	Molecular Biology Lab	2018-19
BT	18B17BT473	Introduction to Bioinformatics lab	2018-19
BT	18B17BT474	Microbiology Lab	2018-19
BT	18B11BT511	Bioprocess Engineering	2018-19
BT	18B11BT512	Genetic Engineering	2018-19

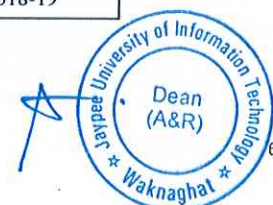


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Department	Course Code	Name of the Course	Year of introduction
BT	18B11BT513	Immunology	2018-19
BT	18B17BT571	Bioprocess Engineering Lab	2018-19
BT	18B17BT572	Genetic Engineering Lab	2018-19
BT	18B17BT573	Immunology Lab	2018-19
BT	18B11BT611	Downstream Processing	2018-19
BT	18B11BT612	Food and Agricultural Biotechnology	2018-19
BT	18B17BT671	Downstream Processing Lab	2018-19
BT	18B17BT672	Food and Agricultural Biotechnology Lab	2018-19
BT	18B1WBT531	Phytopharmaceuticals and Biologicals	2018-19
BT	18B1WBT631	Peptide Therapeutics	2018-19
BT	18B1WBT632	Infectious Diseases	2018-19
BT	18B1WBT633	Nano-Biotechnology	2018-19
BT	18B1WBT634	Bioenergy & Biofuels	2018-19
BT	18B1WBT733	Industrial Enzymes Technologies	2018-19
BT	18B1WBT831	Genetic Counselling	2018-19
BT	18B1WBT832	Traditional Bioprocessing & Their Up Scaling	2018-19
BT	18B1WBT833	Diagnostics & Vaccine Manufacture	2018-19
BI	18B11BI311	Cell and Molecular Biology	2018-19
BI	18B11BI312	Microbiology & Immune System	2018-19
BI	18B11BI313	Biological Computation	2018-19
BI	20B17BI371	Bioinformatics Data Management Lab	2018-19
BI	18B17BI371	Cell and Molecular Biology Lab	2018-19
BI	18B17BI372	Microbiology & Immune System Lab	2018-19
BI	18B17BI373	Biological Computation Lab	2018-19
BI	18B17BI374	Linux Lab	2018-19
BI	18B11BI412	Genetic Engineering and Genomics	2018-19
BI	18B11BI413	Structural Biology	2018-19
BI	18B11BI414	Programming Languages for Bioinformatics	2018-19
BI	18B17BI472	Genetic Engineering and Genomics Lab	2018-19
BI	18B17BI473	Structural Biology Lab	2018-19
BI	18B17BI474	Programming Languages for Bioinformatics Lab	2018-19
BI	18B11BI511	Design and Analysis of Algorithms	2018-19
BI	18B11BI512	Scripting Languages for Bioinformatics	2018-19
BI	18B17BI571	Design and Analysis of Algorithms Lab	2018-19
BI	18B17BI572	Scripting Languages for Bioinformatics Lab	2018-19
BI	18B17BI573	Structural Bioinformatics Lab	2018-19
BI	18B11BI611	Machine Learning for Bioinformatics	2018-19
BI	18B11BI612	Computer Aided Drug Design	2018-19



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Department	Course Code	Name of the Course	Year of introduction
BI	18B17BI671	Machine Learning for Bioinformatics lab	2018-19
BI	18B17BI672	Computer Aided Drug Design Lab	2018-19
BI	18B17BI673	Advanced Algorithms for Bioinformatics Lab	2018-19
BI	18B17BI674	R Language Lab	2018-19
BI	18B1WBI531	Structural Bioinformatics	2018-19
BI	18B1WBI631	Advanced Algorithms for Bioinformatics	2018-19
BI	18B1WBI632	Dataware housing and Mining for Bioinformatics	2018-19
BI	18B1WBI731	Computational Systems Biology	2018-19
BI	18B1WBI831	Computational Molecular Evolution	2018-19
CE	18B11CE315	Engineering Mechanics	2018-19
CE	18B17CE373	Concrete Technology Lab	2018-19
CE	18B11CE313	Building Materials & Construction	2018-19
CE	18B11CE312	Surveying	2018-19
CE	18B11CE314	Water Supply Engineering	2018-19
CE	18B17CE372	Surveying Lab	2018-19
CE	18B11CE311	Chemistry	2018-19
CE	18B17CE371	Chemistry Lab	2018-19
CE	18B11CE415	Mechanics of Solids	2018-19
CE	18B11CE413	Computer Aided Civil Engineering Drawing	2018-19
CE	18B11CE412	Fluid Mechanics	2018-19
CE	18B11CE414	Water Resources Engineering	2018-19
CE	18B11CE411	Geotechnical Engineering	2018-19
CE	18B17CE471	Geotechnical Engineering Lab	2018-19
CE	18B17CE472	Fluid Mechanics Lab	2018-19
CE	18B11CE513	Structural Analysis	2018-19
CE	18B11CE512	Sewage Treatment and Disposal	2018-19
CE	18B17CE572	Environmental Engineering Lab	2018-19
CE	18B11CE515	Design of Concrete Structures	2018-19
CE	18B11CE511	Highway Engineering	2018-19
CE	18B17CE571	Highway Engineering Lab	2018-19
CE	18B11CE514	Foundation Engineering	2018-19
CE	18B11CE611	Concrete Technology	2018-19
CE	18B11CE612	Design of Steel Structures	2018-19
CE	18B17CE671	Computer Aided Planning and Costing	2018-19
CE	18B1WCE531	Construction Technology and Management	2018-19
CE	18B1WCE532	Solid Waste Management	2018-19
CE	18B1WCE533	Air and Noise Pollution and Control	2018-19



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Department	Course Code	Name of the Course	Year of introduction
CE	18B1WCE631	Advanced Structural Analysis	2018-19
CE	18B1WCE632	Pavement Analysis and Design	2018-19
CE	18B1WCE633	Industrial Waste Treatment	2018-19
CE	18B1WCE634	Transportation Engineering	2018-19
CE	18B1WCE635	Traffic Engineering	2018-19
CE	18B1WCE636	Highway Construction, Maintenance and Management	2018-19
CE	18B1WCE637	Advanced Concrete Technology	2018-19
CE	18B1WCE638	Underground Technology	2018-19
CE	18B1WCE639	Open Channel Flow and Hydraulic Machine	2018-19
CE	18B1WCE731	FEM and its Applications in Civil Engineering	2018-19
CE	18B1WCE732	Environmental Management and Impact Assessment	2018-19
CE	18B1WCE733	Advanced Foundation Engineering	2018-19
CE	18B1WCE734	Earthquake Engineering	2018-19
CE	18B1WCE735	Design of Prestressed Concrete Structures	2018-19
CE	18B1WCE736	Dam and Reservoir Design	2018-19
CE	18B1WCE831	Advanced Reinforced Concrete Design	2018-19
CE	18B1WCE832	Advanced Highway Material and construction	2018-19
CE	18B1WCE833	Hydropower Engineering	2018-19
CE	18B1WCE640	Optimization Techniques	2018-19
CE	18B1WCE737	Finite Element Method	2018-19
CE	18B1WCE738	Financial Management	2018-19
CE	18B1WCE834	Sustainable Development	2018-19
CSE & IT	18B11CI314	Python Programming Essentials	2018-19
CSE & IT	18B17C1374	Python programming Lab	2018-19
CSE & IT	18B11CI414	Discrete Computational Mathematics	2018-19
CSE & IT	18B11CI413	Modeling and Simulation Techniques	2018-19
CSE & IT	18B11CI411	Operating Systems	2018-19
CSE & IT	18B11CI412	Design & Analysis of Algorithms	2018-19
CSE & IT	18B11CI415	Object Oriented Programming	2018-19
CSE & IT	18B11CI474	Object Oriented Programming Lab	2018-19
CSE & IT	18B11GE411	Environmental Sciences	2018-19
CSE & IT	18B17CI473	Data Simulation Lab	2018-19
CSE & IT	18B17CI471	Operating System Lab	2018-19
CSE & IT	18B17CI472	Design and Analysis of Algorithms Lab	2018-19
CSE & IT	18B17CI474	Web Tech Lab	2018-19
CSE & IT	18B11CI515	Computer Graphics	2018-19
CSE & IT	18B11CI513	Formal Language & Automata Theory	2018-19
CSE & IT	18B11CI514	Computer Organization and Architecture	2018-19



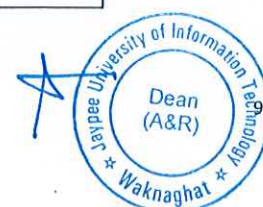
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<b>Department</b>	<b>Course Code</b>	<b>Name of the Course</b>	<b>Year of introduction</b>
CSE & IT	18B17CI575	Computer Graphics Lab	2018-19
CSE & IT	18B17CI574	Computer Organization and Architecture Lab	2018-19
CSE & IT	18B17CI575	Multimedia Lab	2018-19
CSE & IT	18B11CI612	Compiler Design	2018-19
CSE & IT	18B11CI611	Computer Networks	2018-19
CSE & IT	18B17CI672	Compiler Design Lab	2018-19
CSE & IT	18B17CI671	Computer Networks lab	2018-19
CSE & IT	18B17CI633	Software Testing Fundamentals	2018-19
CSE & IT	18B17CI634	Machine Learning	2018-19
CSE & IT	18B17CI637	C# and VB.NET	2018-19
CSE & IT	18B17CI631	Data Structure and Software Design	2018-19
CSE & IT	18B17CI673	Software Testing Fundamentals Lab	2018-19
CSE & IT	18B17CI674	Machine Learning Lab	2018-19
CSE & IT	18B17CI677	C# and VB.NET Lab	2018-19
CSE & IT	18B17CI671	Data Structure and Software Design Lab	2018-19
CSE & IT	18B17CI638	Pattern Recognition	2018-19
CSE & IT	18B17CI635	Data Mining & Data Warehousing	2018-19
CSE & IT	18B17CI632	Parallel and Distributed Algorithms	2018-19
CSE & IT	18B17CI636	Digital Image processing	2018-19
CSE & IT	18B17CI678	Pattern Recognition Lab	2018-19
CSE & IT	18B17CI675	Data Mining & Data Warehousing Lab	2018-19
CSE & IT	18B17CI672	Parallel and Distributed Algorithms Lab	2018-19
CSE & IT	18B17CI676	Digital Image processing Lab	2018-19
CSE & IT	18B17CI734	Cryptography & network security	2018-19
CSE & IT	18B17CI743	Advanced Algorithms	2018-19
CSE & IT	18B17CI741	R-Programming	2018-19
CSE & IT	18B17CI742	Artificial Intelligence	2018-19
CSE & IT	18B17CI774	Cryptography & network security Lab	2018-19
CSE & IT	18B17CI773	Advanced Algorithms Lab	2018-19
CSE & IT	18B17CI771	R-Programming Lab	2018-19
CSE & IT	18B17CI772	Artificial Intelligence Lab	2018-19
CSE & IT	18B17CI736	Storage Networks	2018-19
CSE & IT	18B17CI738	Internet of Things	2018-19
CSE & IT	18B17CI735	Mobile Computing	2018-19
CSE & IT	18B17CI737	Cloud Computing	2018-19
CSE & IT	18B17CI843	Data Analytics	2018-19
CSE & IT	18B17CI844	BIG DATA	2018-19
CSE & IT	18B17CI845	Network Management	2018-19



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<b>Department</b>	<b>Course Code</b>	<b>Name of the Course</b>	<b>Year of introduction</b>
CSE & IT	18B1WCI846	Graph Theory	2018-19
CSE & IT	18B1WCI534	Java Programming	2018-19
CSE & IT	18B1WCI574	Java Programming Lab	2018-19
CSE & IT	18B1WCI632	Information Security & Coding	2018-19
CSE & IT	18B1WCI672	Parallel and Distributed Algorithms Lab	2018-19
CSE & IT	18B1WCI741	R-Programming	2018-19
CSE & IT	18B1WCI771	R-Programming Lab	2018-19
CSE & IT	18BIWCI672	Information Security & Coding Lab	2018-19
CSE & IT	18B1WCI533	Principal of Programming Languages	2018-19
CSE & IT	18B1WCI573	Principal of Programming Languages Lab	2018-19
CSE & IT	18B11CI311	Object Oriented Systems and Programming	2018-19
CSE & IT	18B11CI313	Database Management systems	2018-19
CSE & IT	18B17CI371	Object Oriented Systems and programming Lab	2018-19
CSE & IT	18B17CI373	Database Management Systems Lab	2018-19
CSE & IT	18B17CI372	IT Workshop (SciLab/MATLAB) Lab	2018-19
CSE & IT	18B11CI315	Python Programming with Raspberry Pi	2018-19
CSE & IT	18B17CI375	Python programming with Raspberry Pi Lab	2018-19
CSE & IT	18B11CI512	Information Systems	2018-19
CSE & IT	18B11CI511	Advanced Java	2018-19
CSE & IT	18B17CI572	Information Systems Lab	2018-19
CSE & IT	18B17CI571	Advanced Java Lab	2018-19
CSE & IT	18B11CI613	Data Mining	2018-19
CSE & IT	18B17CI673	Data Mining Lab	2018-19
ECE	18B11EC313	Electronic Devices & Circuits	2018-19
ECE	18B17EC373	Electronic Devices & Circuits Lab	2018-19
ECE	18B11EC311	Automatic Control Systems	2018-19
ECE	18B17EC371	Automatic Control Systems Lab	2018-19
ECE	18B11EC312	Digital Electronics & Logic Design	2018-19
ECE	18B17EC372	Digital Electronics & Logic Design Lab	2018-19
ECE	18B17EC372	Python Lab	2018-19
ECE	18B11EC411	Analog Integrated Circuits	2018-19
ECE	18B17EC471	Analog Integrated Circuits Lab	2018-19
ECE	18B11EC412	Fundamentals of Signals & Systems	2018-19
ECE	18B17EC472	Fundamentals of Signals & Systems Lab	2018-19
ECE	18B11EC413	Modern Analog and Digital Communication	2018-19
ECE	18B17EC473	Modern Analog and Digital Communication Lab	2018-19
ECE	18B11EC511	Principles of Digital Signal Processing	2018-19
ECE	18B17EC571	Principles of Digital Signal Processing Lab	2018-19

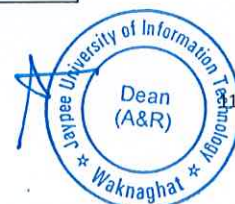


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ECE	18B11EC512	Microprocessor and Interfacing	2018-19
ECE	18B17EC572	Microprocessor and Interfacing Lab	2018-19
ECE	18B11EC513	Electromagnetic Waves	2018-19
ECE	18B11EC611	Wireless and Data Communication	2018-19
ECE	18B11EC612	VLSI Technology	2018-19
ECE	18B11EC671	Mini Project	2018-19
ECE	18B17EC672	VLSI Technology Lab	2018-19
ECE	18B17EC673	Advance Communication Lab	2018-19
ECE	18B1WEC635	Principles of Communication Systems	2018-19
ECE	18B1WEC672	Principles of Communication Systems Lab	2018-19
ECE	18B1WEC636	Fundamentals of Digital Signal Processing and Applications	2018-19
ECE	18B1WEC673	Fundamentals of Digital Signal Processing Lab	2018-19
ECE	18B1WEC637	Principles of Wireless Communication	2018-19
ECE	18B1WEC674	Principles of Wireless Communication Lab	2018-19
ECE	18B1WEC639	Software Defined Radio and Applications	2018-19
ECE	18B1WEC676	Software Defined Radio Lab	2018-19
ECE	18B1WEC740	Electrical Machines	2018-19
ECE	18B1WEC741	Biomedical Signal Processing	2018-19
ECE	18B1WEC843	Industrial Internet of Things	2018-19
ECE	18B1WEC844	Wireless Ad Hoc and Sensor Networks	2018-19
ECE	18B1WEC845	Satellite Communication	2018-19
ECE	18B1WEC534	Network Analysis and Synthesis	2018-19
ECE	18B1WEC535	Communication Engineering	2018-19
ECE	18B1WEC536	Fundamentals of Digital Image Processing	2018-19
ECE	18B1WEC631	Digital Filter Design and Applications	2018-19
ECE	18B1WEC632	Intelligent Control Systems	2018-19
ECE	18B1WEC633	Optical Communication Systems	2018-19
ECE	18B1WEC746	Microwave Theory and Techniques	2018-19
ECE	18B1WEC745	Next Generation Communication Systems	2018-19
ECE	18B1WEC743	Optimum Array Processing	2018-19
ECE	18B1WEC742	Antenna and Wave Propagation	2018-19
ECE	18B1WEC736	OFDM and Applications	2018-19
ECE	18B1WEC737	Robotic Systems and Control	2018-19
ECE	18B1WEC738	Time Frequency Analysis and Applications	2018-19
ECE	18B1WEC852	Design of Modern Antennas	2018-19
ECE	18B1WEC851	Soft Computing Techniques	2018-19
ECE	18B1WEC850	Fault Tolerant Communication Systems	2018-19

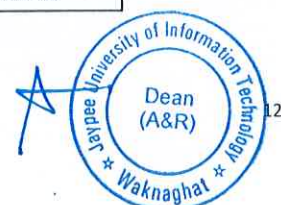


New courses introduced during last 5 years (2017-22)			
Department	Course Code	Name of the Course	Year of introduction
ECE	18B1WEC849	Cognitive Radio Networks	2018-19
ECE	18B1WEC848	RF Engineering	2018-19
ECE	18B1WEC846	Design of Dependable Systems	2018-19
ECE	18B1WEC838	Artificial Intelligence Techniques	2018-19
ECE	18B1WEC839	Radar Principles and Applications	2018-19
ECE	18B1WEC840	Industrial Automation and Control	2018-19
ECE	18B1WEC841	Bio Electronic Sensors	2018-19
ECE	18B1WEC842	Optical Networks	2018-19
ECE	18B1WEC739	Optimization Techniques in Engineering	2018-19
ECE	19P1WEC101	Reconfigurable Computing	2019-20
ALL DEPARTMENTS		Research and Publication Ethics	2019-20
BT	19MS2BT211	MOLECULAR AND CLINICAL DIAGNOSTICS	2019-20
BT	19MS2BT212	QUALITY CONTROL AND QUALITY ASSURANCE	2019-20
BT	19MS2BT312	Cell Signaling	2019-20
CSE & IT	18B1WCI740	Computational Techniques and Algorithms in Engineering	2019-20
CSE & IT	19B1WCI635	Architecting Distributed Cloud Applications	2019-20
CSE & IT	19B1WCI675	Architecting Distributed Cloud Applications Lab	2019-20
CSE & IT	20B1WCI731	Artificial Intelligence	2019-20
CSE & IT	20B1WCI771	Artificial Intelligence Lab	2019-20
CSE & IT	19B1WCI531	Big Data using Hadoop	2019-20
CSE & IT	19B1WCI571	Big Data using Hadoop Lab	2019-20
CSE & IT	19B1WCI835	Cloud Computing Security	2019-20
CSE & IT	20B1WCI532	Cloud Computing: Concepts, Technology & Architecture	2019-20
CSE & IT	20B1WCI572	Cloud Computing: Concepts, Technology & Architecture Lab	2019-20
CSE & IT	19B1WCI636	Computability, Complexity & Algorithms	2019-20
CSE & IT	19B1WCI676	Computability, Complexity & Algorithms Lab	2019-20
CSE & IT	19B1WCI731	Computational Data Analysis	2019-20
CSE & IT	19B1WCI771	Computational Data Analysis lab	2019-20
CSE & IT	19B1WCI634	Computer and Robot Vision	2019-20
CSE & IT	19B1WCI674	Computer and Robot Vision lab	2019-20
CSE & IT	19B1WCI633	Computer Animation	2019-20
CSE & IT	19B1WCI673	Computer Animation Lab	2019-20
CSE & IT	20B1WCI733	Computer Graphics and its Applications	2019-20
CSE & IT	20B17CI773	Computer Graphics and its Applications Lab	2019-20
CSE & IT	19B1WCI831	Ethics and Information Technology	2019-20
CSE & IT	20B1WCI531	Foundation for Data Science and Visualization	2019-20
CSE & IT	19B1WCI732	Game Development and Design	2019-20



**New courses introduced during last 5 years (2017-22)**

<b>Department</b>	<b>Course Code</b>	<b>Name of the Course</b>	<b>Year of introduction</b>
CSE & IT	19B1WCI772	Game Development Lab	2019-20
CSE & IT	19B1WCI533	Human-Computer Interaction	2019-20
CSE & IT	19B1WCI573	Human-Computer Interaction Lab	2019-20
CSE & IT	19B1WCI532	Image Analysis and Pattern Recognition	2019-20
CSE & IT	19B1WCI572	Image Analysis and Pattern Recognition Lab	2019-20
CSE & IT	19B1WCI833	Information Modeling	2019-20
CSE & IT	19B1WCI738	Introduction to Deep Learning	2019-20
CSE & IT	19B1WCI836	Knowledge-Based AI: Cognitive Systems	2019-20
CSE & IT		Machine learning with Python	2019-20
CSE & IT		Machine Learning with Python Lab	2019-20
CSE & IT	19B1WCI737	Optimization Methods in Business Analytics	2019-20
CSE & IT	19B1WCI832	Probabilistic Graphical Models	2019-20
CSE & IT	18B1WCI832	Social and Information Network Analysis	2019-20
CSE & IT	19B1WCI534	Social Media	2019-20
CSE & IT	19B1WCI574	Social Media Lab (Node XL)	2019-20
CSE & IT	19B1WCI638	Statistics and Data Science	2019-20
CSE & IT	19B1WCI678	Statistics and Data Science Lab	2019-20
CSE & IT	19B1WCI637	Statistics and Exploratory Data Analytics	2019-20
CSE & IT	19B1WCI677	Statistics and Exploratory Data Analytics Lab	2019-20
CSE & IT	13B1WCI731	ARM based Embedded System Design	2019-20
CSE & IT		Artificial Intelligence using Python	2019-20
CSE & IT		Fundamentals of Cloud Computing	2019-20
CSE & IT		Image Processing Techniques	2019-20
CSE & IT		Internet of Things Architecture and Design	2019-20
CSE & IT		Mobile Application Development	2019-20
CSE & IT		Network Security and Cryptography Techniques	2019-20
CSE & IT	19B1WCI735	Software Testing Methodologies	2019-20
ECE	19B1WEC834	Adaptive Signal Processing and Machine	2019-20
ECE	19B1WEC836	Applied Medical Signal Processing	2019-20
ECE	19B1WEC835	Bioelectronic Sensors	2019-20
ECE	19B1WEC832	CAD Algorithms for Synthesis of Digital Systems	2019-20
ECE	19B1WEC633	Computer Vision	2019-20
ECE	19B1WEC831	Digital CMOS ICs	2019-20
ECE	19B1WEC631	Embedded system design	2019-20
ECE	19B1WEC735	Forensic Image Processing	2019-20
ECE	19B1WEC634	Fundamentals of Computational Electromagnetics	2019-20
ECE	20B1WEC533	Fundamentals of Digital Image Processing and Applications	2019-20
ECE	20B1WEC532	Introduction to Machine Learning	2019-20



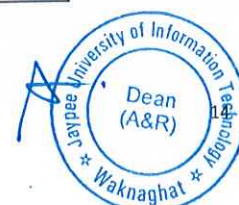
**New courses introduced during last 5 years (2017-22)**

Department	Course Code	Name of the Course	Year of introduction
ECE	19B1WEC632	Machine Learning for Data Analysis	2019-20
ECE	19B1WEC733	Optimisation Techniques	2019-20
ECE	19B1WEC732	Pattern Analysis in Machine Intelligence	2019-20
ECE	19B1WEC731	Real Time Operating System	2019-20
ECE	19B1WEC837	Remote Sensing and Satellite Image Processing	2019-20
ECE	19B1WEC532	RF Integrated Circuits	2019-20
ECE	19B1WEC531	Statistical Signal Processing	2019-20
ECE	20B1WEC531	Switching Theory and Logic Design	2019-20
ECE	19B1WEC734	Wavelets and Applications	2019-20
ECE	19B1WEC833	Wireless Communication and Mobile Networks	2019-20
ECE	18B1WEC533	Applied Artificial Intelligence	2019-20
ECE	18B1WEC531	Control Systems	2019-20
ECE	18B1WEC532	Microwave Components and Devices	2019-20
ECE	19B1WEC631	Neural Networks	2019-20
ECE	19B1WEC632	Embedded Systems	2019-20
CE	21B1WCE871	Computer Applications in Environmental Engineering	2019-20
CE		Building Drawing	2019-20
CE		Simulations in Geotechnical Engineering	2019-20
CE		Computational models in Transportation Engineering	2019-20
CE	18B1WCE641	Construction Management Computations	2019-20
CE	20B1WCE733	Modelling, Simulation and Computer Applications	2019-20
CE		Construction Safety and Health	2019-20
CE		Geosynthetics	2019-20
CE		Geoenvironment	2019-20
CE		Ground Improvement Techniques	2019-20
CE		Process Design in Environment Engineering	2019-20
CE		Surface Water Quality Management	2019-20
CE		Industrial Wastewater Treatment	2019-20
CE	21B1WCE832	Construction Planning and Control	2019-20
CE		Construction Techniques	2019-20
CE		Construction Financial Management	2019-20
CE		Heavy/Civil Construction Equipment, Methods, and Management	2019-20
BI	18B1WBI834	NGS Data Analysis & Applications	2019-20
BT	18B1WBT635	Biology for Engineers	2019-20
BT	18B1WBT636	Industrial Chemistry	2019-20
BT	19B1WBT731	Sustainable Technologies for Waste Management	2019-20
BT	19B1WBT732	Food Nutrition & Health Care	2019-20



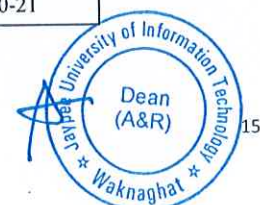
**New courses introduced during last 5 years (2017-22)**

Department	Course Code	Name of the Course	Year of introduction
BT	21B1WBT832	Bioprocess Modelling and Simulation	2019-20
BT	14B1WBT741	Bioresources and Industrial Products	2019-20
BT	18B1WBI634	Cheminformatics	2019-20
BT	18B1WBI633	Clinical Data Management System	2019-20
BT	18B1WBT532	Comparative & Functional Genomics	2019-20
BT	20B1WBI734	Computational Biomedical Image Analysis	2019-20
BT	20M1WBT131	Food Processing and Engineering	2019-20
BT	21B1WBT531	Industrial Plant Tissue Culture	2019-20
BT	20B1WBT631	Manufacturing Process and Industrial products	2019-20
BT	14B1WBT739	Stem Cells and Regenerative Medicines	2019-20
BT	18MS1BT111	General Microbiology	2019-20
BT	18MS1BT112	Molecular Genetics and Genomics	2019-20
BT	18MS1BT113	Biochemistry and Intermediary Metabolism	2019-20
BT	18MS1BT114	Research Methodology and Inferential Statistics	2019-20
BT	18MS1BT115	GLP and Bioinstrumentation	2019-20
BT	18MS1BT116	Introduction to IPR	2019-20
BT	18MS7BT111	General Microbiology lab	2019-20
BT	18MS7BT112	Molecular Genetics and Genomics lab	2019-20
BT	18MS7BT113	Biochemistry and Intermediary Metabolism lab.	2019-20
BT	18MS7BI214	Basic Bioinformatics lab	2019-20
BT	18MS9BI211	Masters Research review seminar	2019-20
BT	18MS1BT311	Food Biotechnology	2019-20
BT	18MS1BT312	Enzymology and Enzyme Technology	2019-20
BT	18MS1BT313	Recombinant DNA Technology	2019-20
BT	18MS7BT311	Food Biotechnology lab.	2019-20
BT	18MS7BT312	Enzymology and Enzyme Technology Lab	2019-20
BT	18MS7BT373	Recombinant DNA Technology Lab.	2019-20
BT	18MS9BT311	Master's Research Thesis Part-I	2019-20
BT	18MS9BT411	Master's Research Thesis Part-II	2019-20
BT	18MS1BT211	Immunology and Immunotechnology	2019-20
BT	18MS1BT212	Bioprocess Technology	2019-20
BT	18MS1BT213	Plant and Animal Biotechnology	2019-20
BT	18MS1BI214	Basic Bioinformatics	2019-20
BT	18MS7BT211	Immunology and Immunotechnology lab	2019-20
BT	18MS7BT212	Bioprocess Technology lab	2019-20
BT	18MS7BT213	Plant and Animal Biotechnology lab	2019-20
BT	18MS1BT215	Environmental Biotechnology	2019-20
BT	18B1WBT732	Intellectual Property Rights and Commercialization	2019-20

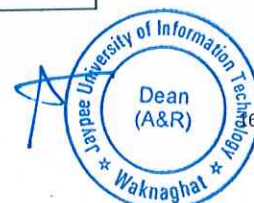


**New courses introduced during last 5 years (2017-22)**

Department	Course Code	Name of the Course	Year of introduction
BT	18B1WBT833	Diagnostics & Vaccine Manufacturing	2019-20
BT	20MS1BT111	Biochemistry	2020-21
BT	20MS1BT112	Cell and Molecular Biology	2020-21
BT	20MS1BT114	Microbiology	2020-21
BT	20MS1BT115	Genetics	2020-21
BT	20MS7BT171	Biochemistry and Analytical Techniques	2020-21
BT	20MS7BT173	Microbiology Lab	2020-21
BT	20MS1BT211	Genetic Engineering	2020-21
BT	20MS1BT212	Immunology	2020-21
BT	20MS1BT213	Bioinformatics	2020-21
BT	20MS1BT214	Genomics and Proteomics	2020-21
BT	20MS1BT215	Molecular Diagnostics	2020-21
BT	20MS1BT216	Research Methodology and Scientific Communication Skills	2020-21
BT	20MS9BT211	Seminar	2020-21
BT	20MS7BT271	Molecular Biology and Genetic Engineering Lab	2020-21
BT	20MS7BT272	Immunology Lab	2020-21
BT	20MS1BT311	Bioprocess Engineering and Technology	2020-21
BT	20MS1BT312	Emerging Technologies	2020-21
BT	20MS9BT312	Critical Analysis of Classical Papers	2020-21
BT	20MS1BT314	Bioentrepreneurship	2020-21
BT	20MS9BT313	Project Proposal Preparation and Presentation	2020-21
BT	20MS9BT311	Seminar	2020-21
BT	20MS7BT371	Laboratory VI: Bioprocess Engineering and Technology	2020-21
BT	20MS7BT372	Laboratory VII: Bioinformatics	2020-21
BT	20MS9BT391	Dissertation	2020-21
BT	20MS9BT491	Dissertation	2020-21
BT	20MSWBT233	Protein Engineering	2020-21
BT	20MSWBT232	Environmental Biotechnology	2020-21
BT	20MSWBT231	Nanobiotechnology	2020-21
BT	20MSWBT431	Vaccines	2020-21
BT	20MSWBT433	Computational Systems Biology	2020-21
BT	20MSWBT432	Drug Discovery and Development	2020-21
MA	20MS1MA111	Basics of Mathematics and Statistics	2020-21
PMS	20MS1PH111	Basics of Chemistry and Physics	2020-21
ECE	21M11EC111	Sensor and Smart Instrumentation	2020-21
ECE	21M11EC112	Embedded Systems and Applications	2020-21
ECE	21M11EC113	Object Oriented Programming	2020-21
ECE	21M11EC171	Advanced IoT Lab - I	2020-21



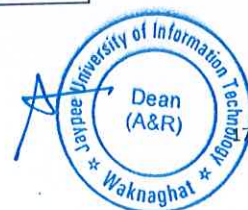
New courses introduced during last 5 years (2017-22)			
Department	Course Code	Name of the Course	Year of introduction
ECE	21M11EC211	Digital System design using Verilog HDL	2020-21
ECE	21M11EC212	Artificial Intelligence and Expert Systems	2020-21
ECE	21M11EC213	Network Security Protocols	2020-21
ECE	21M11EC271	Advanced IoT Lab - II	2020-21
ECE	21M1WEC131	Wireless Technologies for IoT	2020-21
ECE	21M1WEC132	IoT Architecture and Protocols	2020-21
ECE	21M1WEC133	Industrial Automation and IoT	2020-21
ECE	21M1WEC134	Intelligent Robotics and Shared Autonomy	2020-21
ECE	21M1WEC135	Signal Processing for IoT	2020-21
ECE	21M1WEC136	Intelligent signal Processing	2020-21
ECE	21M1WEC231	Image Sensing and Realtime Processing	2020-21
ECE	21M1WEC232	Medical Image Processing and Applications	2020-21
ECE	21M1WEC233	Applied Machine Learning for IoT	2020-21
ECE	21M1WEC234	Antennas for IoT	2020-21
ECE	21M1WEC235	RF technology for 5G and IoT	2020-21
ECE	21M1WEC236	Smart Internet of Things	2020-21
ECE	21M1WEC137	Advanced Cognitive Radio	2020-21
ECE	21M1WEC138	Advanced Software Defined Radio	2020-21
ECE	21M1WEC139	Fault Tolerant Communication Networks	2020-21
ECE	21M1WEC140	Advanced Next Generation Communication	2020-21
ECE	21M1WEC141	Advanced Control Systems	2020-21
ECE	21M1WEC142	Networked Distributed Control	2020-21
ECE	21M1WEC143	Fundamentals of MIMO Systems	2020-21
ECE	21M1WEC144	Mobile Adhoc and Sensor Network	2020-21
ECE	21M1WEC145	Architecture and Algorithms for DSP Systems	2020-21
ECE	21M1WEC146	Statistical & Adaptive Signal Processing	2020-21
ECE	21M1WEC147	Statistical Signal Processing	2020-21
ECE	21M1WEC148	Radar and Sonar Signal Processing	2020-21
ECE	21M1WEC237	Biomedical signal and Image Processing	2020-21
ECE	21M1WEC238	Advanced Digital Image Processing	2020-21
ECE	21M1WEC239	CMOS Digital Design Techniques	2020-21
ECE	21M1WEC240	Real Time Embedded System	2020-21
ECE	21M1WEC242	Antenna and Radio Wave Propagation	2020-21
ECE	21M1WEC243	Antenna Theory and Techniques	2020-21
ECE	21M1WEC244	RF IC Design	2020-21
ECE	21M1WEC245	Analog IC Design	2020-21
ECE	20B1WEC831	Digital Science using Python	2020-21
CSE & IT	19B1WCI733	Introduction to C++ Programming	2020-21





**New courses introduced during last 5 years (2017-22)**

Department	Course Code	Name of the Course	Year of introduction
CSE & IT	19B1WCI734	Object-Oriented Technologies using Java	2020-21
CSE & IT	19B1WCI773	Introduction to C++ Programming Lab	2020-21
CSE & IT	19B1WCI774	Object-Oriented Technologies using Java Lab	2020-21
CSE & IT	19B1WCI775	Software Testing Methodologies Lab	2020-21
CSE & IT	19B1WCI739	Software Defined Network	2020-21
CSE & IT	19B1WCI740	Introduction to Statistical learning	2020-21
CSE & IT	19B1WCI838	Principles of Distributed Database Systems	2020-21
CSE & IT	19B1WCI839	Foundations of Blockchain	2020-21
CSE & IT	19B1WCI840	Computational Biology	2020-21
CSE & IT	19B1WCI841	Wireless Sensor Networks: Protocols and Applications	2020-21
CSE & IT	19B1WCI842	Service Oriented Architecture	2020-21
CSE & IT	19B1WCI843	Multimedia Systems and Applications	2020-21
CSE & IT	19B1WCI736	Information Auditing & Risk Management	2020-21
CSE & IT	19B1WCI632	Information Security	2020-21
CSE & IT	19B1WCI672	Information Security Lab	2020-21
CSE & IT	19B1WCI837	Reinforcement Learning	2020-21
CSE & IT	18B1WCI840	Computer Vision	2020-21
CSE & IT	18B1WCI734	Cryptography & Network Security Lab	2020-21
CSE & IT	18B1WCI532	Data Compression	2020-21
CSE & IT	18B1WCI572	Data Compression Lab	2020-21
CSE & IT	20B1WCI571	Data Science and Visualization Lab	2020-21
CSE & IT	19B1WCI631	Digital Forensics	2020-21
CSE & IT	19B1WCI671	Digital Forensics lab	2020-21
CSE & IT	20B1WCI732	From Graph to Knowledge Graph	2020-21
CSE & IT	20B1WCI772	From Graph to Knowledge Graph Lab	2020-21
CSE & IT	19B1WCI736	Information Auditing & Risk Management	2020-21
CSE & IT	19B1WCI833	Information Modeling	2020-21
CSE & IT	19B1WCI834	Information Visualization	2020-21
CSE & IT	18B1WCI634	Machine learning	2020-21
CSE & IT	18B1WCI674	Machine Learning Lab	2020-21
BT	20M1WBT132	Plant Tissue Culture Technologies	2020-21
BT	20M1WBT231	QC Analysis and Management	2020-21
BT	20M1WBT232	Industrial Enzyme Technology	2020-21
BT	20M1WBT133	Vaccine Production	2020-21
BT	20M1WBT134	Advances in Gene Manipulations	2020-21
BT	20M1WBT233	Cancer Biology	2020-21
BT	20M1WBT234	Clinical Diagnostics	2020-21



New courses introduced during last 5 years (2017-22)			
Department	Course Code	Name of the Course	Year of introduction
BT	21MS1MB111	General Microbiology and Bacteriology	2020-21
BT	21MS1MB112	Molecular Biology	2020-21
BT	21MS1MB113	Fungal Biology	2020-21
BT	21MS7MB171	General Microbiology and Bacteriology Lab	2020-21
BT	20MS7BT171	Biochemistry Lab	2020-21
BT	21MS7MB172	Molecular Biology Lab	2020-21
BT	21MS7MB173	GLP and Bioinstrumentation Lab	2020-21
BT	21MS1MB211	Enzymes and Bioprocess Technology	2020-21
BT	21MS1MB212	Microbial Genetics and Physiology	2020-21
BT	21MS7MB271	Enzymes and Bioprocess Technology Lab	2020-21
BT	21MS1MB311	Environmental Microbiology	2020-21
BT	21MS1MB312	Diagnostic Microbiology and vaccines	2020-21
BT	21MS1MB411	Food & Dairy Microbiology	2020-21
BT	21MS1MB412	Plant and Agricultural Microbiology	2020-21
BT	21MS2MB411	Microbial Toxicology	2020-21
BT	21MS2MB412	Experimental models in microbial Research	2020-21
BT	21MS2MB311	IPR, Biosafety and Bioethics	2020-21
BT	21MS2MB312	Biosensors:Principles & Applications	2020-21
BT	20MS1MA111	Basics of Mathematics and Statistics	2020-21
BT	1111WBT433	Plant Biotechnology	2021-22
BT	18M1WBT133	Advances in Computational System Biology	2021-22
BT	11BIWBT840	Nano Biotechnology	2021-22
BT	18M1WBT134	Microbial Ecology	2021-22
HSS	21B11HS211	Life Skills and Effective Communication	2021-22
HSS	21B11HS271	Life Skills and Effective Communication Lab	2021-22
		OPTIMIZATION TECHNIQUES	2021-22
		FINITE ELEMENT METHODS	2021-22
CE	22B1WCE731	Remote Sensing and Geomatics	2021-22
CE	22B1WCE732	Introduction to Sustainable Engineering and Energy Efficient Building	2021-22
ECE	20B1WEC534	AVR Based Embedded System Design	2021-22
ECE	20B1WEC571	AVR Based Embedded System Design Lab	2021-22
ECE	20B1WEC735	Artificial Intelligence Techniques for Genomic Signal Processing	2021-22
ECE	20B1WEC736	Image Sensing and Reconstruction	2021-22
ECE	20B1WEC731	Automation and Robotics	2021-22
ECE	20B1WEC732	Machine Learning for Wireless Communications	2021-22
ECE	20B1WEC733	Signal Processing for Machine Learning	2021-22

**New courses introduced during last 5 years (2017-22)**

Department	Course Code	Name of the Course	Year of introduction
ECE	21B1WEC671	Optical Communication system Lab	2021-22
ECE	21B1WEC871	Optical Networks Lab	2021-22
ECE	21B1WEC732	Renewable Energy Systems	2021-22
ECE	21B1WEC731	Digital Image Processing using Python	2021-22
CSE & IT		Biomedical Imaging Systems	2021-22
CSE & IT		Digital Twin – Fundamental Concepts of Application in Advanced Manufacturing	2021-22
CSE & IT		Affective Computing	2021-22
CSE & IT		Human Disease and Diagnostics	2021-22
CSE & IT		Computational Biology For Engineers	2021-22
CSE & IT		Computational Nanostructures & Nanotechnology	2021-22
CSE & IT		Bio-Sensors	2021-22
CSE & IT		Soft Computing and Optimization Algorithms	2021-22
CSE & IT		Linear Algebra for Data Science and Machine Learning	2021-22
CSE & IT		Digital Product Management	2021-22
CSE & IT		Investment Analysis and Portfolio Management	2021-22
CSE & IT		Machine Learning Engineering for Production	2021-22
CSE & IT	22MI ICII 11	Advanced Data Structures	2021-22
MA	22MI IMAI 11	Mathematical Foundations for Data Science	2021-22
CSE & IT	22MI ICII 12	Introduction to Data Science	2021-22
CSE & IT	22MI 7CII 71	Advanced Data Structures Lab	2021-22
CSE & IT	22MI 7CII 72	Data Science Lab	2021-22
CSE & IT	22MI 7MA171	Mathematical Foundations for Data Science Lab	2021-22
CSE & IT	22MI 1CI211	Soft computing	2021-22
CSE & IT	22MI 1CI212	Deep Learning Techniques	2021-22
CSE & IT	22MI 1CI213	Big Data Analytics	2021-22
CSE & IT	22M17CI271	Soft Computing Lab	2021-22
CSE & IT	22M17CI272	Deep Learning Techniques Lab	2021-22
CSE & IT	22M17CI273	Big Data using Hadoop Lab	2021-22
CSE & IT	22MI WCI134	Data Storage Technologies - and Data	2021-22
CSE & IT	22M1WCI131	Data Warehousing Mining -	2021-22
CSE & IT	22MIWCI136	Data Visualization	2021-22
CSE & IT	22MIWCI132	Artificial Intelligence Techniques	2021-22
CSE & IT	22M1WCI133	Introduction to Statistical Learning	2021-22
CSE & IT	22M1WCI135	Cryptography and Information System security	2021-22
CSE & IT	22MIWCI231	Advanced Computational Techniques	2021-22
CSE & IT	22M1WCI232	Medical Image Analysis	2021-22
CSE & IT	22M1WCI233	Knowledge-Based AI: Cognitive Systems	2021-22



New courses introduced during last 5 years (2017-22)			
Department	Course Code	Name of the Course	Year of introduction
CSE & IT	22MIWCI234	Social and Information Network Analysis	2021-22
CSE & IT	22MIWCI235	Reinforcement Learning	2021-22
CSE & IT	22MIWCI236	Natural Language Processing	2021-22
<b>Note : Departments full names</b>			
ECE	ELECTRONICS AND COMMUNICATION ENGINEERING		
CSE & IT	COMPUTER SCIENCE & ENGINEERING AND INFORMATION TECHNOLOGY (CSE&IT)		
BT	BIOTECHNOLOGY		
BI	BIOINFORMATICS		
CE	CIVIL ENGINEERING		
HSS	HUMANITIES AND SOCIAL SCIENCES		
MA	MATHEMATICS		
PMS	PHYSICS AND MATERIALS SCIENCE		



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