1.2.2 - Additional Information - List of Electives Offered

Name of Programmes adopting elective course system	Course Code	Course Name	Course Type
B.E AERONAUTICAL ENGINEERING	AE16905	Introduction to Aviation	Open Elective
	AE16906	Basics of Airport Engineering	
	AE16907	Crisis Management in Aircraft Industry	
	AE16908	Foundations of Space Science	
	AE19901	Fundamentals of Aircraft Engineering	
	AE19902	Wind Power Engineering	
	AE16351	Cryogenic Engineering	Professional Elective
	AE16352	Combustion Technology	
	AE16353	Advanced Propulsion Techniques	
	AE16354	Flight Control System	
	BA16151	Professional Ethics and Human Values	
	BA16253	Total Quality Management	
	BA16352	Engineering Economics	
	BA16451	Entrepreneurship Development	
	AE19151	Experimental Aerodynamics	
	AE19152	Vibrations and Elements of Aeroelasticity	
	AE19153	Aircraft Materials	
	BA19251	Principles of Management	
	AE19251	Aero Engine Maintenance and Repair	
	AE19252	Space Mechanics	
	AE19253	Additive Manufacturing	
	AE19254	Boundary Layer Theory	
B.E.AGRICULTURE ENGINEERING	AI16907	Automation in Irrigation	Open Elective
	AI16908	Forest Resource Management	
	AI19901	Organic farming Technologies	
	AI19902	Energy Management in Agriculture	
	AI16351	Organic Farming Technologies	Professional Elective
	AI16352	Micro Irrigation Systems	
	AI16353	Mechanics of Tillage and Traction	
	AI16354	Agricultural Business Management	
	AI16451	Horticulture Crop Process Engineeering	
	AI16452	Disaster management	
	AI16453	Special Farm Machinery and Equipment	
	AI16454	Renewable Energy Resources and Technology	
	AI19151	Storage And Package Engineering	
	AI19152	Industrial Safety Management	
	AI19153	Farm Power and Machinery Management	
	BA19154	Entrepreneurship Development	
	AI19251	Food and Diary Process Engineering	
	AI19252	Special Farm Machinery and Equipment	
	AI19253	Energy and Environmental Auditing and its Management	
	AI19254	On-Farm Water Management	

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B.E CIVIL ENGINEERING	CE16906	Computer Aided Design of Structures	**Open Elective**
	CE16907	Disaster Management	
	CE16908	FiniteElement Techniques	
	CE16909	Engineering Economics and Cost Analysis	
	CE16910	Environmental Impact Assessment	
	CE19901	Building Services	
	CE19902	Housing Planning and Management	
	CE16251	Industrial Waste Water Engineering	**Professional Elective**
	CE16252	Traffic Engineering and Management	
	CE16253	Municipal Solid Waste Management	
	CE16254	Railways, Airports and Harbour Engineering	
	MA16751	Operations Research	
	CE16351	Power plant Structures	
	CE16352	Bridge Structures	
	CE16353	Maintenance, Repair And Rehabilitation of Structures	
	CE16354	Total Quality Management	
	BA16151	Professional Ethics And Human Values	
	CE16451	Ground Improvement Techniques	
	CE16452	Prefabricated Structures	
	CE16453	Industrial Structures	
	CE16454	Tall Structures	
	CE16455	Introduction to Soil Dynamics and Machine	
	CE19151	Concrete Technology	
	CE19152	Pavement Engineering	
	CE19153	Green Building	
	CE19154	Remote Sensing	
	CE19251	Construction Planning and Scheduling	
	CE19252	Total Station and GPS Surveying	
	CE19253	Advanced Construction Techniques	
	CE19254	Environmental and Social Impact Assessment	
	CE19351	Engineering	
	CE19352	Modern Construction Materials	
	CE19353	Municipal Solid Waste Management	
	CE19354	Traffic Engineering and Management	
B.E - COMPUTER SCIENCE AND ENGINEERING	CS16904	Green Computing	**Open Elective**
	CS16905	Web Content Development	
	CS19901	Data Base Management Systems	
	CS19902	Introduction to Block Chain Technologies	
	CS16251	Semantic Web	**Professional Elective**
	CS16252	Wireless Sensor Networks	
	CS16253	Data Science	
	CS16254	Internet of Things	
	BA16351	Engineering Economics and Financial Accounting	
	CS16351	Advanced Database Technology	
	CS16352	Ad-hoc Networks	
	CS16353	Graph Theory and Applications	
	CS16354	User Interface Design	
	CS16355	Distributed Systems	

	CS16451	Agile Software Development	
	CS16452	Service Oriented Architecture	
	CS16453	Digital Image Processing	
	CS16454	Soft Computing	
	BA16451	Entrepreneurship Development	
	CS16551	Software Testing	
	CS16552	Robotics	
	CS16553	Machine Learning	
	CS16554	Mobile Computing	
	MA16851	Resource Management Techniques	
	CS19151	Mobile computing	
	CS19152	Software Quality Assurance	
	CS19153	Cyber Security Essentials	
	CS19154	Soft Computing	
	CS19251	Component Based Technology	
	CS19252	Wireless Sensor Networks	
	CS19253	Natural Language Processing	
	CS19254	Social Network Analysis	
B.E-ELECTRONICS AND COMMUNICATION ENGINEERING	EC16904	Radar and Navigational aids	Open Elective
	EC16907	Automotive Electrical and Electronics System	
	EC19901	Basics of Communication Engineering	
	EC19902	Introduction to Geographic Information System	
	EC16351	Digital Image Processing	Professional Elective
	EC16352	Speech Processing	
	EC16353	Electromagnetic Interference and Compatibility	
	EC16354	Telecommunication System modelling and simulation	
	EC16451	Television and Advanced Display Systems	
	EC16452	Space Time Communication	
	EC16453	Web Technology	
	EC16454	Biosignal Processing	
	EC16551	Optoelectronic Devices	
	EC16552	Micro-Electro-Mechanical Systems	
	EC16553	Mobile OS	
	EC16554	Multimedia Compression and Communication	
	EC16651	Medical Electronics	
	EC16652	Cellular Mobile Communication	
	EC16653	RF Microelectronics	
	EC16654	Virtual Instrumentation	
	EC19151	Medical Electronics	
	EC19152	Wireless System and Standards	
	EC19153	Digital Switching and Transmission	
	EC19154	Computer Architecture and Organisation	
	EC19251	Speech Processing	
	EC19252	Wireless Networks	
	EC19253	Display Technologies	
	IT19255	Object Oriented Programming	
	EC19351	Digital Image Processing	

	EC19352	Network Security	
	EC19353	Nanoelectronics	
	IT19355	Artificial Intelligence	
B.E- ELECTRICAL AND ELECTRONICS ENGINEERING	EE16905	Embedded System Design	**Open Elective**
	EE16906	Solar and Wind Energy Engineering	
	EE19901	Power Electronic Systems	
	EE19902	Basics of Power Systems Engineering	
	EE16351	EHV AC and DC Transmission	**Professional Elective**
	EE16352	Energy Auditing	
	EE16353	High Voltage Engineering	
	EE16354	Computer Networks	
	EE16355	Design with PIC Microcontroller	
	EE16451	Testing and Commission of Electrical Equipments	
	EE16452	Power Quality	
	EE16453	Virtual Instrumentation	
	EE16454	Computer Aided Design of Electrical Machines	
	BA16253	Total Quality Management	
	EE19151	Bio Medical Engineering	
	EE19152	Nano Science	
	EE19153	VLSI Design and Circuits	
	EE19154	Communication Engineering	
	EE19251	Restructured Power Systems	
	EE19252	Power System Dynamics	
	EE19253	Flexible AC Transmission System	
	EE19254	Programmable Logic Controllers	
B.E - MECHANICAL ENGINEERING	ME16904	Energy Conservation and Management	**Open Elective**
	ME16905	Safety Engineering and Environmental Systems	
	ME16906	Plant Layout and Material Handling	
	ME19901	Renewable Energy Sources	
	ME19902	3D Printing	
	ME16251	Maintenance Engineering	**Professional Elective**
	ME16252	Non-Destructive Evaluation Techniques	
	ME16253	Design of Jigs, Fixtures and Press Tools	
	ME16254	Micro Electro Mechanical Systems	
	ME16255	CNC Technology	
	ME16351	Productivity Management and Re- Engineering	
	ME16352	Tool Design	
	ME16353	Welding Technology	
	ME16354	Composite Materials and Mechanics	
	BA16451	Entrepreneurship Development	
	ME16451	Production Planning and Control	
	ME16452	Refrigeration and Air Conditioning	
	ME16453	Industrial Tribology	
	ME16454	Advanced I.C. Engines	
	BA16352	Engineering Economics	
	ME19151	Advanced Internal Combustion Engines	

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	ME19152	Industrial Robotics	
	ME19153	Composite Materials	
	ME19154	Hydraulics and Pneumatics	
	ME19251	Micro Electro Mechanical Systems	
	ME19252	Smart Materials	
	ME19253	Gas Dynamics and Jet Propulsion	
	ME19254	Process Planning and Cost Estimation	
B.E - MECHATRONICS	MT16906	Vetronics	
	MT16907	Industrial Automation	
	MT16908	Advanced Manufacturing Management	
	MT16909	Intelligent Manufacturing Technology	Open Elective
	MT16910	Nano Technology	
	MT19901	Non-Destructive Testing	
	MT19902	Mobile and Autonomous Robots	
	MT16251	Engineering Economics and Cost Analysis	
	MT16252	Additive Manufacturing	
	MT16253	Embedded System Design	
	IT16501	Computer Networks	
	MT16254	Design of Jigs, Fixtures and Press Tools	
	MT16351	Mechatronics Systems Design	
	MT16352	Finite Element Analysis	
	BA16254	Principles of Management	
	MT16353	Non-Traditional Machining Processes	
	MT16354	Industrial Electronics and Applications	
	BA16253	Total Quality Management	
	IT16302	Database Management Systems	
	MT16451	Computational Fluid Dynamics	
	MT16452	Advanced Sensor Technology	Professional Elective
	MT16453	Renewable Energy Sources	
	MT16551	Intellectual Property Rights	
	MT16552	Artificial Intelligence	
	MT16553	Concepts of Engineering Design	
	MT16554	Internal Combustion Engines	
	MT16555	Flexible Manufacturing Systems	
	MT19151	Digital Signal Processing	
	MT19152	Advanced Manufacturing Processes	
	MT19153	Diagnostic Techniques	
	MT19154	Product Design and Costing	
	IT19256	Computer Communication Networks	
	MT19251	Engineering Economics and Cost Analysis	
	MT19252	Design of Jigs, Fixtures and Press Tools	
	MT19253	Additive Manufacturing	
B.E. - BIOMEDICAL ENGINEERING	BM16903	Introduction to Data science and Bioinformatics	
	BM16904	Hospital Management	
	BM19901	Industrial Nanotechnology	Open Elective
	BM19902	Biomedical Waste Management	
	BM16351	Tissue Engineering	
	BM16352	Rehabilitation Engineering	Professional Elective
	BM16353	Design and Development of Medical Devices	

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	BM16354	Medical EthicsStandards and Safety	
	BM16451	Biometric Systems	
	BM16452	Fundamentals of Biomedical Nanotechnology	
	BM16453	Digital Health Care	
	BM16454	Advanced Medical Imaging Systems	
	BM16551	Artificial Organs and Implants	
	BM16552	Embedded Systems and IoT in Healthcare	
	BM16553	Physiological Modeling	
	BM16554	Robotics and Automation in Medicine	
	BM16651	Virtual Reality in Medicine	
	BM16652	Wearable Systems	
	BM16653	Quality Control in Biomedical Engineering	
	BM16654	Medical Radiation Safety	
	BM19151	Biomedical Informatics	
	BM19152	Virtual Bioinsrumentation	
	BM19153	BioMEMS	
	BM19154	Medical Optics	
	BM19251	Telemedicine and PACS	
	BM19252	Advanced Medical Instrumentation Technology	
	BM19253	Pattern Recognition and Neural Networks	
	BM19254	Advanced Medical Signal Processing	
B.E.-MEDICAL ELECTRONICS	MD16903	Product Design And Development	Open Elective
	MD16904	Analyitical methods and Instrumentation	
	MD19901	Biomedical Equipments	
	MD19902	Basics of Bioinformatics	
	MD16351	Medical Devices Regulations	Professional Elective
	MD16352	Rehabilitation Engineering	
	MD16353	Fundamentals of Nano science	
	MD16354	Medical Ethics and Safety	
	MD16451	Smart Wearable Systems	
	MD16452	Fundamentals of Biomedical Nanotechnology	
	MD16453	Advanced Medical Instrumentation Technology	
	MD16454	Introduction to Mobile App Development	
	MD16551	Artificial Organs and Implants	
	MD16552	Embedded Systems and Internet of Things in Healthcare	
	MD16553	Body Area Network	
	MD16554	Telehealth Technology	
	MD16651	Virtual Instrumentation	
	MD16652	Digital Video Processing	
	MD16653	Quality Control in Biomedical Engineering	
	MD16654	Brain Computer Interface and its Applications	
	MD19151	Robotics and Automation	
	MD19152	Neural Network and its applications	
	MD19153	BioMEMS	

	MD19154	Medical Expert Systems	
	MD19251	VLSI design	
	MD19252	Pattern Recognition	
	MD19253	Advanced Medical Instrumentation Technology	
	MD19254	Telehealth technology	
B.TECH-CHEMICAL ENGINEERING	CM16903	Corrosion Engineering	Open Elective
	CM16904	Process Instrumentation	
	CM19901	Solid Waste Management	
	CM19902	Environmental Pollution and Control	
	CM16251	Oil and Natural Gas Engineering	Professional Elective
	CM16252	Polymer Technology	
	CM16253	Food Technology	
	CM16254	Green Chemistry and Engineering	
	CM16351	Fertilizer Technology	
	CM16352	Process Optimization	
	CM16353	Computational Fluid Dynamics	
	CM16354	Piping Engineering	
	CM16451	Process Modelling and Simulation	
	CM16452	Modern Separation Processes	
	CM16453	Petroleum Refining Engineering	
	BA16253	Total Quality Management	
	CM19151	Chemical Industries Management and IPR	
	CM19152	Water Conservation and Management	
	CM19153	Pulp and Paper Technology	
	CM19154	Nanomaterials: Synthesis, Characterization and Application	
	CM19251	Biochemical Engineering	
	CM19252	Polymer Science and Engineering	
	CM19253	Food Technology	
	CM19254	Material Technology	
B.TECH-INFORMATION TECHNOLOGY	IT16901	Green Computing	Open Elective
	IT16902	Information Technology Essentials	
	IT16903	Open Source Technologies	
	IT19901	Information Technology Essentials	
	IT19902	Green Computing	
	IT16351	Adhoc and Sensor Networks	Professional Elective
	IT16352	C# And .Net Framework	
	IT16353	Software Quality Assurance	
	IT16354	Big Data and Analytics	
	IT16355	Internet of Things	
	IT16451	J2EE	
	IT16452	Agile Software Development	
	IT16453	Machine Learning	
	IT16454	Software Testing	
	IT16455	Soft Computing	
	IT16551	Digital Enterprise Resource Planning	
	IT16552	Service Oriented Architecture	
	IT16553	Foundations of Blockchain Technology	
	IT16554	Social Network Analysis	

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	BA16253	Total Quality Management	
	IT19151	Information Coding Techniques	
	IT19152	Machine Learning	
	IT19153	Graphics and Multimedia	
	IT19154	C# and .Net framework	
	IT19251	Distributed Systems	
	IT19252	Data Warehousing and Data Mining	
	IT19253	User Interface Design	
	IT19254	Advanced J2EE	
B.TECH-FOOD TECHNOLOGY	FT16903	Food Processing Principles	Open Elective
	FT16904	Food Chemistry of Micronutrients	
	FT19901	Fundamentals of Food Processing	
	FT19902	Food Chemistry of Macronutrients	
	FT16251	Food Flavourants and Colourants	Professional Elective
	FT16252	Enzyme Technology	
	FT16253	Food Plant Sanitation	
	FT16254	Nano Technology in Food	
	FT16351	Food Preservation Technology	
	FT16352	Sensory Evaluation	
	FT16353	Research Methodology	
	FT16354	Cane Sugar Technology	
	FT16451	Beverage Technology	
	FT16452	Plantation and Spices Product Technology	
	FT16453	Food Stoarage Engineering	
	FT16454	Application of Renewable Energy in Food processing	
	FT16551	Emerging Technology in Food Processing	
	FT16552	Creativity, Innovation and New Product Deveopment	
	FT16553	Enterpreneurship Development	
	FT16554	Enterpreneurship Development	
	FT19151	Milling Technology	
	FT19152	Food Fermentation Technology	
	FT19153	Food Additives	
	FT19154	Food Process Economics and Industries	
	FT19251	Cane Sugar Technology	
	FT19252	Beverge Technology	
	FT19253	Technoloy of Food Preservation	
	FT19254	Research Methodology	
B.TECH-PHARMACEUTICAL TECHNOLOGY	PT16903	Plant and Animal Diseases and Their Control	Open Elective
	PT16904	Introduction to Pharmaceutical Technology	
	PT19901	Safety and Health Evaluation	
	PT19902	Medicinal Natural Products	
	PT16351	Regulatory Toxicology	Professional Elective
	PT16352	Research Methodology	
	PT16353	Diagnostics And Therapeutics	
	PT16354	Fundamentals of Molecular Pathology	
	PT16451	Vaccine Technology	
	PT16452	Pharmaceutical Packaging Technology	

	PT16453	Introduction to Biomaterials & Tissue Engineering	
	PT16454	Drug Delivery Systems	
	PT16551	Technology of Sterile Products	
	PT16552	Clinical Trials	
	PT16553	Pharmacovigilance	
	PT16554	Pharmacogenomics	
	PT19151	Basic Laboratory Animal Science	
	PT19152	Technology of Fine Chemical and Bulk Drugs	
	PT19153	Chemistry of Natural Products	
	PT19154	Enzyme Technology	
	PT19251	Chemical Reaction Engineering	
	PT19252	Engineering of Biomaterial Science	
	PT19253	Cosmetic Technology	
	PT19254	Pharmaceutical Biotechnology	
M.E - COMPUTER SCIENCE AND ENGINEERING	PMA19901	Operations Research	Open Elective
	PCE19901	Business Analytics	
	PED19901	Industrial Safety	
	PSE19901	Cost Management Of Engineering Projects	
	PED19902	Composite Materials	
	PED19903	Waste To Energy	
	PCE19151	Data Preparation and Analysis	Professional Elective
	PCE19152	SecureCoding	
	PCE19153	Introduction to Intelligent Systems	
	PCE19154	Pattern Recognition	
	PCE19251	Storage Area Network	
	PCE19252	Data Storage Technologies and Network	
	PCE19253	Ethical Hacking	
	PCE19351	Knowledge Discovery	
	PCE19352	Secure Software Design and Enterprise Computing	
	PCE19353	Computer Vision	
	PCE19354	Software Design	
	PCE19254	Data Virtualization Techniques	
	PCE19451	Human and Computer Interaction	
	PCE19452	GPU Computing	
	PCE19453	Digital Forensics	
	PCE19454	Advanced wireless and mobile networks	
	PCE19551	Mobile Application and Services	
	PCE19552	High Performance Computing	
	PCE19553	Cryptocurrency and Blockchain Technologies	
	PCE19554	Agile Software Development	
M.E- COMMUNICATION SYSTEMS	PCS19151	Data Compression Techniques	Professional Elective
	PCS19152	Electromagnetic Interference and Compatibility in system design	
	PCS19153	Advanced Digital Image Processing	
	PCS19154	MEMS and NEMS	
	PCS19251	Fiber Optic Networks	

	PCS19252	Millimeter Wave Communication	
	PCS19253	Pattern Recognition and Machine Learning	
	PCS19254	Internet of Things	
	PCS19351	Satellite Communication	
	PCS19352	Optimization Techniques	
	PCS19353	Digital Communication Receivers	
	PCS19354	Soft Computing	
	PCS19451	Network Routing Algorithms	
	PCS19452	DSP Processor Architecture and Programming	
	PCS19453	Mobile Communication Systems and Standards	
	PCS19454	Radar Signal Processing	
	PCS19551	Simulation of Communication Systems and Networks	
	PCS19552	Neural Network and Applications	
	PCS19553	Cognitive Radio Networks	
	PCS19554	Digital Communication Techniques	
M.E - ENGINEERING DESIGN	PED19901	Industrial Safety	Open Elective
	PED19902	Composite Materials	
	PED19903	Waste to Energy	
	PCE19901	Business Analytics	
	PMA19901	Operations Research	
	PSE19901	Cost Management of Engineering Prjects	
	PED19151	Advanced Machine Design	Professional Elective
	PED19152	Design for Manufacturing and Assembly	
	PMA19153	Mathematical Methods in Engineering	
	PED19153	Rapid Prototyping and Tooling	
	PED19251	Advanced Engineering Materials	
	PED19252	Mechanics of Composite Materials	
	PED19253	Analysis and Synthesis of Mechanisms	
	PED19254	Mechatronics in Manufacturing	
	PED19351	Tribology in Design	
	PED19352	Robotics	
	PED19353	Fracture Mechanics	
	PED19354	Reverse Engineering	
	PED19451	Multi-body Dynamics	
	PED19452	Condition Based Monitoring	
	PED19453	Optimization Techniques in Design	
	PED19454	Design of Hydraulic and Pneumatic systems	
	PED19551	Integrated Manufacturing Systems	
	PED19552	Productivity Management and Re-Engineering	
	PED19553	Theory of Plates and Shells	
	PED19554	Plasticity and Metal Forming	
M.E POWER SYSTEMS ENGINEERING	PPS19151	Power Electronics for Renewable Energy Systems	Professional Elective
	PPS19152	Smart Grids	
	PPS19153	High Power Converters	

	PPS19154	Wind and Solar Systems	
	PMA19152	Mathematical Methods in Power Engineering	
	PPS19251	Electrical Power Distribution System	
	PPS19252	Analysis and Design of Power Converters	
	PPS19253	Electric and Hybrid Vehicles	
	PPS19351	Restructured Power Systems	
	PPS19352	Advanced Digital Signal Processing	
	PPS19353	Dynamics of Electrical Machines	
	PPS19354	Solar and Energy Storage Systems	
	PPS19451	Advanced Microcontroller Based Systems	
	PPS19452	SCADA System and Application	
	PPS19453	Power Quality	
	PPS19454	Artificial Intelligence and its Application	
M.E STRUCTURAL ENGINEERING	PMA19901	Operation Research	Open Elective
	PCE19901	Business Analysis	
	PED19901	Industry safety	
	PED19902	Composite Materials	
	PED19903	Waste to Energy	
	PSE19901	Cost Management of Engineering Projects	
	PSE19151	Theory of Plates	Professional Elective
	PSE19152	Advanced Concrete Technology	
	PSE19153	Theory of Structural Stability	
	PMA19151	Advanced Mathematical Methods	
	PSE19251	Structural Health Monitoring	
	PSE19252	Smart Structures and Smart Materials	
	PSE19253	Prefabricated Structures	
	PSE19254	Earthquake Resistant Design	
	PSE19351	Advanced Steel Design	
	PSE19352	Design of Formwork	
	PSE19353	Design of High Rise Structures	
	PSE19354	Non Linear Analysis of Structures	
	PSE19451	Design of Advanced concrete Structures	
	PSE19452	Design of Sub Structures	
	PSE19453	Experimental Techniques and Model Analysis	
	PSE19454	Design of Industrial Structures	
	PSE19551	Design of Prestressed Concrete Structures	
	PSE19552	Analysis of Laminated Composite Plates	
	PSE19553	Fracture Mechanics	
	PSE19554	Design of Wind and Cyclone Effects on Structures	
MASTER OF BUSINESS ADMINISTRATION	BA19G01	Indian Ethos in Modern Management	Professional Elective
	BA19G02	Corporate Image Building	
	BA19G03	Analysis of Managerial Decision	
	BA19G04	Entrepreneurship Development	
	BA19G05	Event Management	
	BA19G06	Disaster Management	
	BA19M01	Integrated Marketing Communication	
	BA19M02	Services Marketing	

	BA19M03	Retail Management	
	BA19M04	International Marketing	
	BA19M05	Digital and Social Media Marketing	
	BA19M06	Marketing Research and Analytics	
	BA19F01	Security Analysis and Portfolio Management	
	BA19F02	Merchant Banking and Financial Services	
	BA19F03	Corporate Finance	
	BA19F04	Insurance and Risk Management	
	BA19F05	Financial Derivatives	
	BA19F06	International Financial Management	
	BA19H01	Training and Development	
	BA19H02	Industrial Relations and Labour Welfare	
	BA19H03	Cross Cultural Management	
	BA19H04	Strategic Human Resource Management and Development	
	BA19H05	Labour Legislations	
	BA19H06	HR Analytics	
	BA19S01	Enterprise Resource Planning	
	BA19S02	Software Project Management	
	BA19S03	Business Intelligence	
	BA19S04	Big Data Analytics and Data Mining	
	BA19S05	Information Security Management	
	BA19S06	Cloud Computing	
	BA19P01	Supply Chain and Logistics Management	
	BA19P02	Process Management	
	BA19P03	Product Design	
	BA19P04	Lean Management	
	BA19P05	Project Management	
	BA19P06	Technology, Innovation and New Product Management	
MASTER OF COMPUTER APPLICATIONS	CA20151	Linux Internals	Professional Elective
	CA20152	Information Security	
	CA20153	Object Oriented Software Engineering	
	CA20154	Advanced Database	
	CA20251	PHP with MySQL	
	CA20252	High Performance Computing	
	CA20253	Software Project Management	
	CA20254	Organizational Behavior	
	CA20351	Artificial Intelligence	
	CA20352	Block Chain Technology	
	CA20353	Agile Software Engineering	
	CA20354	Enterprise Resource Planning	

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1.2.2 - Additional Information - List of One Credit Courses Offered

Name of Programmes adopting elective course system	Course Code	Course Name	Course Type
B.E AERONAUTICAL ENGINEERING	AE19951	Design Thinking	ONE CREDIT COURSE
	AE19952	General awareness, Communication and Aero Engines	
	AE19953	Mesh Tools For Industrial Approach	
	AE19954	NPTEL Understanding Design	
	AE19955	NPTEL Design of fixed wing Unmanned Aerial Vehicles	
B.E CIVIL ENGINEERING	CE19101	Advanced Surveying using Total Station	ONE CREDIT COURSE
	CE19102	Building Valuation	
	CE19103	Safety in Construction	
	CE19104	Structural Analysis and Design using Staad Pro	
	CE19105	Building Information Modelling using Revit Architecture	
	CE19106	Project Management using Primavera	
B.E - COMPUTER SCIENCE AND ENGINEERING	CS19951	Amcat (Online Placement Aptitude Certification)	ONE CREDIT COURSE
	CS19952	e-litmus (Online Placement AptitudeCertification)	
	CS19953	Nasscomnac-tech (Online PlacementAptitude Certification)	
	CS19954	I - pat (Online Placement AptitudeCertification)	
	CS19955	NPTEL / Swayam (Online courses)	
	CS19956	Spoken Tutorial - Java BusinessApplication	
	CS19957	Oracle – SQL Fundamentals	
	CS19958	Oracle - Java Fundamentals	
	CS19959	CCNA – Certification	
	CS19960	SCJP / OCP JP - Sun Certified Java Programmer / Oracle Certified Professional Java Programmer	
	CS19961	Android application Development	
	CS19962	PC Hardware and Troubleshooting	
	CS19963	E - commerce security	
	CS19965	Coursera(Online courses)	
	CS19966	Edx(Online courses)	
	CS19967	Udemy(Online courses)	
	CS19968	Spoken Tutorial - R	
	CS19969	Spoken Tutorial - Android APP UsingKOTLIN	
	CS19970	Spoken Tutorial - PHP and MySQL	
B.E-ELECTRONICS AND COMMUNICATION ENGINEERING	EC19951	Android Application Development	ONE CREDIT COURSE
	EC19952	PC Hardware Assembling and Trouble Shooting	
	EC19953	Cisco Certified Network Associate	
	EC19954	E-Commerce Security	
	EC19955	NPTEL / Swayam (Online Courses)	
	EC19956	Spoken Tutorial Courses	
B.E- ELECTRICAL AND ELECTRONICS ENGINEERING	EE19951	Best Maintenance Practices in Low Voltage Switchgear	ONE CREDIT COURSE
	EE19952	Breaker Maintenance Workshop C-Power Air Circuit Breaker	
	EE19953	Electrical Design of Switchgear Assembly	
	EE19954	Power Distribution in Buildings	
	EE19955	Selection and Application of Drives	
	EE19956	Industrial Protection with Numerical Relays	
	EE19957	Creating a Printed Circuit Board	
	EE19958	Supervisory Control and Data Acquisition	
	EE19959	Design of Control Circuits	
B.E - MECHANICAL ENGINEERING	ME19951	Non-Destructive Testing	ONE CREDIT COURSE
	ME19952	3D CAD Design	
	ME19953	CNC Milling	
	ME19954	Solid Modeling	
	ME19955	Industrial Robotics	
	ME19956	Industrial Automation	
	ME19957	Fluid Flow Simulation	
	ME19958	Computer Aided Reverse Engineering	

B.E - MECHATRONICS	MT19951	Maintenance and troubleshooting of hydraulic system	ONE CREDIT COURSE
	MT19952	SCADA	
	MT19953	CATIA V5	
	MT19954	PLC Programming	
	MT19955	Control of Motors Using Special Drives	
	MT19956	Robot Programming	
	MT19957	Control Panel and Wiring	
B.E. - BIOMEDICAL ENGINEERING	BM19951	Embedded program using Arduino	ONE CREDIT COURSE
	BM19952	Pc hardware assembling and troubleshooting	
	BM19953	Basic electronic circuit design using Multisim	
	BM19954	Matlab programming	
	BM19955	Labview programming	
	BM19956	Open source programming using LINUX	
	BM19957	Pcb design using KICAD EDA tool	
	BM19958	VHDL programming	
	BM19959	NPTEL - swayam- 4 weeks course	
B.E.-MEDICAL ELECTRONICS	MD19951	Embedded program using Arduino	ONE CREDIT COURSE
	MD19952	Pc hardware assembling and troubleshooting	
	MD19953	Basic electronic circuit design using Multisim	
	MD19954	Matlab programming	
	MD19955	Labview programming	
	MD19956	Open source programming using LINUX	
	MD19957	Pcb design using KICAD EDA tool	
	MD19958	VHDL programming	
B.E.-CYBER SECURITY	CY20951	Amcat (Online Placement Aptitude Certification)	ONE CREDIT COURSE
	CY20952	e-litmus (Online Placement AptitudeCertification)	
	CY20953	Nasscomnac-tech (Online PlacementAptitude Certification)	
	CY20954	I - pat (Online Placement AptitudeCertification)	
	CY20955	NPTEL / Swayam (Online courses)	
	CY20956	Spoken Tutorial (Online courses)	
	CY20957	Oracle – SQL Fundamentals	
	CY20958	Oracle - Java Fundamentals	
	CY20959	CCNA – Certification	
	CY20960	SCJP / OCP JP - Sun Certified Java Programmer / Oracle Certified Professional Java Programmer	
	CY20961	Android application Development	
	CY20962	PC Hardware and Troubleshooting	
	CY20963	E - commerce security	
	CY20964	Coursera(Online courses)	
	CY20965	Edx(Online courses)	
	CY20966	Udemy(Online courses)	
B.TECH-CHEMICAL ENGINEERING	CM19951	Introduction to Fuel Cell Technology	ONE CREDIT COURSE
	CM19952	Insight to Hydrogen as Fuel	
	CM19953	Introduction to Petrochemicals	
	CM19954	Chemicals and Health	
	CM19955	Nanomaterials for Energy and Environment	
	CM19956	Outline to Biomaterials	
	CM19957	Computer Applications in Chemical Engineering	
	CM19958	Pinch Technology	
	CM19959	Polymeric Materials	
	CM19960	Fabrication of Polymer Materials	

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B.TECH-INFORMATION TECHNOLOGY	IT19951	Amcat (Online Placement Aptitude Certification)	**ONE CREDIT COURSE**
	IT19952	e-litmus(Online Placement Aptitude Certification)	
	IT19953	Nasscomnas-tech (Online Placement Aptitude Certification)	
	IT19954	I-pat(Online Placement Aptitude Certification)	
	IT19955	NPTEL/Swayam (Online courses)– 4Weeks	
	IT19956	Microsoft Courses	
	IT19957	Spoken Tutorial-Advanced C++	
	IT19958	Spoken Tutorial-Java Business Application	
	IT19959	Spoken Tutorial-Linux & Ubuntu	
	IT19960	Spoken Tutorial-BOSS Linux	
	IT19961	Spoken Tutorial- PHP & MySQL	
	IT19962	Oracle–SQL fundamentals	
	IT19963	Oracle–Java Fundamentals	
	IT19964	SCJP/OCPJP –Sun Certified Java Programmer / Oracle Certified Professional Java Programmer	
	IT19965	Android application Development	
	IT19966	PC Hardware and Troubleshooting	
	IT19967	Cyber Security	
	IT19968	Mongo DB	
	IT19969	Angular JS	
B.TECH-FOOD TECHNOLOGY	FT19951	Brewing Science and Practice	**ONE CREDIT COURSE**
	FT19952	Renewable energy Technology	
	FT19953	Sea Food Processing Technology	
	FT19954	Equipment Design in Food Processing	
	FT19955	Nanomaterials for Energy and Environmental Remediation	
	FT19956	Aquaculture	
	FT19957	Outline to biomaterials	
	FT19958	Food Adulteration	
	FT19959	Analysis for Characterization of Nanomaterials	
	FT19960	Food Plant Design	
B.TECH-PHARMACEUTICAL TECHNOLOGY	PT19951	Clinical Laboratory Techniques	**ONE CREDIT COURSE**
	PT19952	First Aid and Emergency Care	
	PT19953	Physical Chemistry of Polymers	
	PT19954	Polymeric Materials	
	PT19955	Metabolic Engineering	
	PT19956	Analysis For Characterization of Nanomaterials	
	PT19957	Biophysical Methods	
	PT19958	Bio- Medical Instrumentation	
	PT19959	Advanced Techniques in Clinical Microbiology	
	PT19960	Biophysical Engineering Laboratory	

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