1.1.3 Details of courses offered by the institution that focus on employability/ entrepreneurship/ skill development during the year

Name of the Course	Course Code	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development
Surveying	B22CE04	Employability/Skill development
Building Materials, Construction and Planning	B22CE06	Employability/Skill development
Concrete Technology	B22CE13	Employability/Skill development
Transportation Engineering	B22CE23	Employability/Skill development
Foundation Engineering	B22CE28	Employability/Skill development
Building Information Modelling	B22CE44	Employability/Skill development
Surveying	B20CE04	Skill development
Construction Materials	B20CE05	Employability/Skill development
Engineering Geology	B20CE12	Skill development
Construction Techniques And Practices	B20CE13	Skill development
Concrete Technology	B20CE20	Employability/Skill development
Highway Engineering	B20CE22	Skill development
Environmental Engineering	B20CE29	Employability/Skill development
Advanced Surveying	B20CE39	Employability/Skill development
Sustainable Materials and Green Buildings	B20CE51	Employability/Skill development
Electrical Circuit Analysis – I	B22EE01	skill Development
Elements of Electrical and Electronics Engineering	B22EE02	skill Development
Electrical Circuit Analysis – II	B22EE05	skill Development
Electrical Circuit Analysis Laboratory	B22EE06	skill Development
Electrical Machines-I	B22EE07	skill Development/Employability
Power System-I	B22EE08	skill Development
Electro Magnetic Fields	B22EE09	skill Development/Employability
Electrical Machines Laboratory-I	B22EE10	skill Development
Electrical Simulation tools Laboratory	B22EE11	skill Development
Measurements and Instrumentation	B22EE13	skill Development/Employability
Electrical Machines–II	B22EE14	skill Development
Power System-II	B22EE15	skill Development/Employability
Measurements and Instrumentation Laboratory	B22EE16	skill Development/Employability
Electrical Machines Laboratory-II	B22EE17	skill Development/Employability
Real-time Research Project/ Field Based Project	B22EE18	Entrepreneurship development
Computer Methods in Power Systems	B20EE25	skill Development
Power Semiconductor Drives	B20EE26	skill Development/Employability
Electrical Distribution Systems	B20EE27	skill Development
Electrical Engineering Materials	B20EE28	skill Development
Power Electronics Lab	B20EE29	skill Development/Employability
Control Systems Lab	B20EE30	skill Development/Employability
Electronics Design Lab	B20EE31	skill Development/Employability
Project Based Learning-4	B20EE32	skill Development

Power Systems Operation and Control	B20EE33	skill Development/Employability
Power System Protection	B20EE34	skill Development/Employability
High Voltage Engineering	B20EE35	skill Development
Advanced Power Electronics	B20EE36	skill Development
Advanced Control Systems	B20EE37	skill Development/Employability
Electrical Machine Design	B20EE38	skill Development/Employability
Advanced Electrical Drives	B20EE39	skill Development/Employability
AI Techniques in Electrical Engineering	B20EE40	skill Development
Utilization of Electrical Energy	B20EE41	skill Development
High Voltage DC Transmission	B20EE42	skill Development/Employability
Power Systems Lab	B20EE43	skill Development/Employability
Mini Project & Internship#	B20EE44	skill Development/Employability
Major Project Phase-1	B20EE45	skill Development/Employability
Soft Computing Techniques	B20EE46	skill Development/Employability
Digital Control Systems	B20EE47	skill Development
Flexible AC Transmission Systems	B20EE48	skill Development
Power Quality	B20EE49	skill Development/Employability
Electric and Hybrid Vehicles	B20EE50	skill Development/Employability
Smart Electric Grids	B20EE51	skill Development
Technical Seminar	B20EE52	Skill Development/presentation
Major Project Phase-II	B20EE53	skill Development/Employability
Engineering Workshop	B22ME01	Skill Development, Employability
Fuels & Lubricants Laboratory	B22ME05	Skill Development, Employability
Metallurgy and Material Science	B20ME07	Skill Development, Employability
Mechanics of Solids	B20ME08	Skill Development, Employability
Thermodynamics	B20ME09	Skill Development, Employability
Machine Drawing	B20ME10	Skill Development, Employability
Mechanics of Solids Lab	B20ME12	Skill Development, Employability
Metallurgy Lab	B20ME13	Skill Development, Employability
Fluid Mechanics and Hydraulic Machinery	B20ME14	Skill Development, Employability
Thermal Engineering-I	B20ME15	Skill Development, Employability
Production Technology	B20ME17	Skill Development, Employability
Fluid Mechanics and Hydraulic Machinery Lab	B20ME19	Skill Development, Employability
Production Technology Lab	B20ME20	Skill Development, Employability
Fuels & Lubricants Lab	B20ME21	Skill Development, Employability
Dynamics of Machinery	B20ME23	Skill Development, Employability
Design of Machine Members-I	B20ME24	Skill Development, Employability
Thermal Engineering-II	B20ME25	Skill Development, Employability
Thermal Engineering Lab	B20ME27	Skill Development, Employability
Metrology & Machine Tools Lab	B20ME28	Skill Svelopment, Employability
Design of Machine Member – II	B20ME29	Skill Development, Employability
Heat & Mass Transfer	B20ME30	Skill Development, Employability
Mechatronics	B20ME33	Skill Development, Employability
Nano Technology	B20ME34	Skill Development, Employability

Maintenance and Safety Engineering	B20ME35	Skill Development, Employability
Mechanics of Composite Materials	B20ME36	Skill Development, Employability
Refrigeration and Air Conditioning	B20ME37	Skill Development, Employability
Unconventional Machining Processes	B20ME38	Skill Development, Employability
Design for Manufacturing	B20ME39	Skill Development, Employability
Power Plant Engineering	B20ME40	Skill Development, Employability
Heat Transfer Lab	B20ME41	Skill Development, Employability
Elements of Electronics and Communication Engineering	B22EC01	Skill development
Electronic Devices and Circuits	B22EC02	Skill development
Electronic Devices and Circuits Laboratory	B22EC03	Skill development
Analog Circuits	B22EC04	Skill development
Digital Logic Design	B22EC05	Skill development
Signals and Systems	B22EC06	Skill development
Analog Circuits Laboratory	B22EC07	Skill development
Digital logic Design Laboratory	B22EC08	Skill development
Basic Simulation Laboratory	B22EC09	Skill development
Probability Theory and Stochastic Processes	B22EC13	Skill development
Electromagnetic Fields and Transmission Lines	B22EC14	Skill development
Analog and Digital Communications	B22EC15	Skill development
Linear and Digital IC Applications	B22EC16	Skill development
Electronic Circuit Analysis	B22EC17	Skill development
Analog and Digital Communications Laboratory	B22EC18	Skill development
Linear and Digital IC Applications Laboratory	B22EC19	Skill development
Electronic Circuit Analysis Laboratory	B22EC20	Skill development
Real Time Project/ Field Based Project	B22EC21	Employability and Skill development
Linear & Digital IC Applications	B20EC23	Skill development
Digital Signal Processing	B20EC24	Skill development
Control Systems	B20EC25	Skill development
Electronic Measurements and Instrumentation	B20EC26	Skill development
Computer Networks	B20EC27	Employability and Skill development
Basic JAVA Programming	B20EC28	Employability and Skill development
Linear & Digital IC Applications Lab	B20EC29	Skill development
Digital Signal Processing Lab	B20EC30	Skill development
Project Based Learning-3	B20EC31	Employability and Skill development
Microprocessors & Microcontrollers	B20EC32	Skill development
VLSI Design	B20EC33	Skill development
Antennas & Wave Propagation	B20EC34	Skill development
Design of Fault Tolerant Systems	B20EC35	Skill development
Fiber Optical Communications	B20EC36	Skill development
Digital Image Processing	B20EC37	Skill development
Radar Systems	B20EC38	Skill development
Speech Processing	B20EC39	Skill development
Machine learning	B20EC40	Employability and Skill development
VLSI & e-CAD Lab	B20EC41	Skill development

Microprocessors & Microcontrollers Lab	B20EC42	Skill development
Project Based Learning-4	B20EC43	Employability and Skill development
Microwave Engineering	B20EC44	Skill development
Embedded Systems	B20EC45	Employability and Skill development
Wireless and Mobile Communication	B20EC46	Skill development
CMOS Circuit Design	B20EC47	Skill development
Artificial Intelligence	B20EC48	Employability and Skill development
Sensor Networks	B20EC49	Skill development
Satellite Communication	B20EC50	Skill development
Robotics and Automation	B20EC51	Employability and Skill development
Microwave Engineering Lab	B20EC52	Skill development
Embedded Systems Lab	B20EC53	Employability and Skill development
Mini Project & Internship	B20EC54	Employability and Skill development
Project Phase – I	B20EC55	Employability and Skill development
Digital Signal Processor & Architecture	B20EC56	Skill development
FPGA Architecture & Applications	B20EC57	Skill development
Internet of Things	B20EC58	Employability and Skill development
Technical Seminar	B20EC59	Employability and Skill development
Project Phase – II	B20EC60	Employability and Skill development
Programming for Problem Solving	B22CS01	Skill development
Elements of Computer Science & Engineering	B22CS02	Skill development
Programming for Problem Solving Laboratory	B22CS03	Skill development
Induction Program		
Python Programming Laboratory	B22CS04	Skill development
IT Workshop	B22CS05	Skill development/Employability
Data Structures	B22CS06	Skill development
Computer Organization and Architecture	B22CS07	Skill development
Object Oriented Programming through Java	B22CS08	Skill development/Employability
Data Structures Lab	B22CS09	Skill development
Object Oriented Programming through Java Lab	B22CS10	Skill development/Employability
Gender Sensitization Lab	B22MC07	Skill development
Discrete Mathematics	B22CS11	Skill development
Operating Systems	B22CS12	Skill development
Database Management Systems	B22CS13	Skill development/Employability
Software Engineering	B22CS14	Skill development/Employability
Operating Systems Lab	B22CS15	Skill development
Database Management Systems Lab	B22CS16	Skill development
Real-time Research Project/ Societal Related Project	B22CS17	Skill development/Employability
Node JS/ React JS/ Django	B22CS18	Skill development/Employability
Software Engineering	B20CS29	Skill development/Employability
Data communications and Computer Networks	B20CS30	Skill development/Employability
Data Warehousing and Data Mining	B20CS24	Skill development/Employability
Compiler Design	B20CS31	

Data communications and Computer Networks Lab	B20CS34	Skill development/Employability
Project Based Learning-3	B20CS35	Skill development
Cloud Computing	B20CS36	Employability/ Entrepreneurship/ Skill development
Internet of Things	B20CS37	Skill development/Employability
Network Security and Cryptography	B20CS39	Skill development/Employability
Cloud Computing Lab	B20CS41	Skill development/Employability
Internet of Things Lab	B20CS42	Skill development/Employability
Project Based Learning -4	B20CS43	Skill development
Scripting Languages	B20CS46	Skill development
Cyber Security & Ethical Hacking	B20CS48	Employability/ Entrepreneurship/ Skill development
Mini project & Internship	B20CS49	Skill development/Employability
Major Project Phase-1	B20CS50	Skill development
Block Chain Technologies	B20CS52	Skill development
Technical Seminar	B20CS53	Skill development
Major Project Phase-II	B20CS54	Skill development
Automata Theory and Compiler Design	B22AI01	Employability
Introduction to Artificial Intelligence	B22AI02	Enterpreneurship,Skill Development
Real-time Research Project/Field-Based Research Project	B22AI03	Employability,Skill Development
Prolog/Lisp/Pyswip	B22AI04	Employability,Skill Development
Machine Learning	B20AI06	Enterpreneurship,Skill Development
Distributed Systems	B20AI07	Employability,Skill Development
Machine Learning Lab	B20AI08	Employability,Skill Development
Project Based Learning–3	B20AI09	Employability,Skill Development
Deep Learning	B20AI10	Skill Development
Theory of Computation	B20AI11	Employability
Game Theory	B20AI12	Skill Development
Deep Learning Lab	B20AI13	Employability,Skill Development
Project Based Learning- 4	B20AI14	Employability
Reinforcement Learning	B20AI15	Skill Development
Virtual Reality & Augmented Reality	B20AI16	Skill Development
Federated Machine Learning	B20AI17	Employability
Advanced Databases	B20AI18	Employability,Skill Development
Natural Language Processing	B20AI19	Employability,Skill Development
Social Network Analysis	B20AI20	Enterpreneurship
Virtual Reality & Augmented Reality Lab	B20AI21	Skill Development
Mini Project & internship	B20AI22	Employability
Major project Phase-I	B20AI23	Employability
Principles of Robotics	B20AI24	Skill Development
Video Analytics	B20AI25	Skill Development
Computer Vision	B20AI26	Skill Development
Technical Seminar	B20AI27	Employability,Skill Development
Major project Phase-II	B20AI28	Employability

Data visualization- R Programming/ Power BI	B22DS01	Employability,Skill development
Real-time Research Project/ Societal Related Project	B22DS02	Employability,Skill development
Big Data Analytics	B20DS07	Employability,Skill development
Information Retrieval Systems(Professional Elective – I)	B20DS08	Employability
Big Data Analytics Lab(Open Elective – I)	B20DS09	Employability,Skill development
Project Based Learning -3	B20DS10	Employability
Data Visualization Techniques	B20DS11	Employability,Skill development
Data Visualization Techniques Lab(Open Elective – II)	B20DS12	Employability,Skill development
Project Based Learning -4	B20DS13	Employability
Semantic Web Technology(Professional Elective – III)	B20DS14	Skill development
Exploratory Data Analysis(Professional Elective – III)	B20DS15	Skill development
Time Series Data Analytics(Professional Elective – IV)	B20DS16	Employability
Mini project & Internship(Open Elective – III)	B20DS17	Skill development ,Employability
Major Project Phase – 1(Open Elective – III)	B20DS18	Employability
Mining Massive Datasets(Professional Elective – V)	B20DS19	Skill development
Web and Graph Mining(Professional Elective – VI)	B20DS20	Skill development
Data Privacy and Security(Professional Elective – VI)	B20DS21	Skill development
Technical Seminar	B20DS22	Skill development
Major Project Phase –II	B20DS23	Employability
Special Concretes	M22SE19	Employability/Skill development
Structural HealthMonitoring	M22SE24	Employability/Skill development
Advanced Reinforced Concrete Design	M22SE14	Employability/Skill development
Rehabilitation and Retrofitting of Structures	M22SE26	Employability/Skill development
Earthquake Resistant Design of Structures	M22SE28	Employability/Skill development
Electric & Hybrid Vehicles	M22TE04	Skill Development
Research Methodology & IPR	M22TE09	Skill Development
Utilization of Solar energy	M22TE16	Skill Development
Mini Project with Seminar	M22TE20	Skill Development
Advanced Heat Transfer Lab	M22TE21	Skill Development, Employability
Computational Methods Lab	M22TE22	Skill Development, Employability
Advanced Materials For Thermal Systems	M20TE22	Skill Development, Employability
Computer Simulation of SI & CI Engines	M20TE23	Skill Development, Employability
Advanced Finite Element Analysis	M20TE24	Skill Development, Employability
Dissertation Phase-I	M20TE25	Skill Development
Dissertation Phase- II	M20TE26	Skill Development
Advanced Power Electronic Converters-I	M22PE01	skill Development
Electrical Drives	M22PE02	skill Development
Machine Modelling and Analysis	M22PE03	skill development/Employability

Microcontroller Applications to Power Electronics	M22PE04	skill development/Employability
Smart Grid Technologies	M22PE05	skill Development
Modern Control Theory	M22PE06	skill Development
Power Semiconductor Devices and Modelling	M22PE07	skill Development
Reactive Power Compensation and Management	M22PE08	skill Development
High Frequency Magnetic Components	M22PE09	Class Assessment,Discussion and Presentation
Electric Vehicles and Design	M22PE10	skill Development/Employability
Advanced Power Electronic Converters Lab-I	M22PE11	skill Development
Electrical Drives Lab	M22PE12	skill Development
Advanced Power Electronic Converters-II	M22PE13	skill Development
Power Electronics Application to Power Systems	M22PE14	skill Development
Industrial Load Modelling and Control	M22PE15	skill Development
Advanced Digital Signal Processing	M22PE16	skill development/Employability
Power Quality Improvement Techniques	M22PE17	skill Development/Employability
Power Electronics for Renewable Energy Systems	M22PE18	skill development/Employability
DSP based Drive Control	M22PE19	skill Development
Distributed Generation	M22PE20	skill Development/Employability
Electric Vehicle Charging Techniques	M22PE21	skill Development/Employability
Electromagnetic interference and compatibility	M22PE22	skill development/Employability
Advanced Power Electronic Converters Lab-II	M22PE23	skill Development
Power Electronics Application to Power Systems Lab	M22PE24	skill Development
Mini Project with Seminar	M22PE25	skill Development
Reliability Engineering	M22PE26	skill Development
Dynamics of Electrical Machines	M22PE27	skill Development
Energy Storage Technologies	M22PE28	skill Development
SCADA Systems and Applications	M22PE29	skill development/Employability
Dissertation Stage-I	M22PE30	skill development/Employability
Dissertation Stage-II	M22PE31	skill development/Employability
Dissertation Viva-Voce	M22PE32	skill Development
Analysis of Power Electronics Convertors	M22PE33	skill Development
Advanced Power System Analysis	M22PS01	skill Development
Advanced Power System Protection	M22PS02	skill Development
Economic operation power Systems	M22PS03	skill Development
Power System Reliability	M22PS04	skill Development
Renewable Energy Systems	M22PS05	skill Development
Modern Control Theory	M22PS06	skill Development
Distribution System Planning	M22PS07	skill Development
Power Systems Computation Lab-I	M22PS08	skill Development
Power Systems Protection Lab	M22PS09	skill Development
Power System Dynamics	M22PS10	skill development/presentation/ Technical quize
Power System Automation	M22PS11	skill development/presentation/ Technical quize
Restructured Power Systems	M22PS12	skill Development

Digital Control Systems	M22PS13	skill Development
HVDC & FACTS	M22PS14	skill Development
AI Applicationsto Power systems	M22PS15	skill Development
EHV AC Transmission	M22PS16	skill Development
Reactive Power Compensation and Voltage Stability	M22PS17	skill Development
Power Systems Computation Lab-II	M22PS18	skill Development
Advanced Power Systems Simulation Lab	M22PS19	skill Development
Mini Project with Seminar	M22PS20	skill development
Power Quality	M22PS21	skill Development
Smart Grid Technologies	M22PS22	skill Development
Distributed Generation	M22PS23	skill Development
Advanced Digital Signal Processing	M22PS24	skill Development
Dissertation Stage-I	M22PS25	skill Development
Dissertation Stage-II	M22PS26	skill development/presentation/ Technical quize
Dissertation Viva-Voce	M22PS27	skill development/presentation/ Technical quize
Digital System Design with FPGAs	M22VL01	Skill development
CMOS Analog IC Design	M22VL02	Skill development
Pattern Recognition and Machine Learning	M22VL03	Skill development
CMOS Mixed Signal Design	M22VL04	Skill development
Memory Technologies	M22VL05	Skill development
Communication Buses & Interfaces	M22VL06	Skill development
ARM Microcontrollers	M22VL07	Skill development
Embedded Real Time Operating System	M22VL08	Skill development
Digital System Design with FPGAs Lab	M22VL09	skill development/presentation/ Technical quize
CMOS Analog IC Design Lab	M22VL10	skill development/presentation/ Technical quize
VLSI Advanced Physical Design	M22VL12	Skill development
System Verilog Test Benches using UVM	M22VL13	Skill development
IoT Architectures and System Design	M22VL14	Skill development
SoC Design	M22VL15	Skill development
Design for Testability	M22VL16	Skill development
Device Modeling	M22VL17	Skill development
RF IC Design	M22VL18	Skill development
Hardware and Software Co-Design	M22VL19	Skill development
VLSI Advanced Physical Design Lab	M22VL20	skill development/presentation/ Technical quize
System Verilog Test Benches using UVM Lab	M22VL21	skill development/presentation/ Technical quize
Mini Project with Seminar	M22VL22	skill development/presentation/ Technical quize
High Speed VLSI Architectures for DSP Applications	M20VL22	Skill development
Nanomaterials&NanoTechnology	M20VL23	Skill development
RFCircuitDesign	M20VL24	Skill development
DissertationPhase-I	M20VL25	skill development/presentation/ Technical quize
DissertationPhase-II	M20VL26	skill development/presentation/ Technical quize
Mathematical Foundations of Computer Science	M22CS01	Skill development
Advanced Data Structures	M22CS02	Skill development

Database Programming with PL/SQL	M22CS03	Skill development
AppliedCryptography	M22CS06	Skill development
AdvancedDataStructuresLab	M22CS09	Skill development
Database Programming with PL/SQL Lab	M22CS10	Skill development
ResearchMethodology&IPR	M22MC01	Skill development
Constitution of India	M22AC01	Skill development
Advanced Algorithms	M22CS13	Skill development
Advanced Computer Architecture	M22CS14	Skill development
Enterprise Cloud Concepts	M22CS15	Employability/ Entrepreneurship
Robotic Process Automation	M22CS20	Skill development/Employability
Advanced Algorithms Lab	M22CS21	Skill development
Enterprise Cloud Concepts Lab	M22CS22	Employability/ Entrepreneurship
Mini Project with Seminar	M22CS25	Skill development
Stress Management	M22AC02	Skill development
Digital Forensics	M22CS26	Skill development/Employability
Operation Research	M22AC03	Skill development
DissertationWorkReview-II	M22CS29	Skill development
DissertationWorkReview-III	M22CS30	Skill development
DissertationViva-Voce	M22CS31	Skill development
Management and Organizational Behavior	M22MB01	Skill Development
Business Economics	M22MB02	Skill Development
Financial Reporting & Analysis	M22MB03	Skill Development
Research Methodology and Statistical Analysis	M22MB04	Employability
Legal and Business Environment	M22MB05	Employability
Business Ethics and Corporate Governance	M22MB06A	Skill Development
Project Management	M22MB06B	Employability
Sustainability Management	M22MB06C	Skill Development
Cross Cultural Management	M22MB06D	Employability
Business Communication Lab	M22MB07	Skill Development
Statistical Data Analysis Lab	M22MB08	Employability
Human Resource Management	M22MB09	Employability
Marketing Management	M22MB10	Skill Development
Financial Management	M22MB11	Employability
Quantitative Analysis for Business Decisions	M22MB12	Skill Development
Entrepreneurship and Design Thinking	M22MB13	Skill Development
Logistics & Supply Chain Management	M22MB14	Skill Development
Total Quality Management	M22MB15A	Skill Development
Marketing Research	M22MB16B	Skill Development
International Business	M22MB17C	Skill Development
Rural Marketing	M22MB18D	Employability
Production & Operations Management	22MBA16	Employability
Management Information Systems	22MBA17	Employability
Business Analytics	22MBA18	Skill Development
Summer Internship	22MBA22	Skill Development

Strategic Management	22MBA 23	Skill Development
Pre-submission project Seminar 0 0 2 2	22MBA27	Skill Development
Main Project Viva-Voce	22MBA28	Skill Development
DigitalMarketing	22MBA19M1	Employability
SalesandPromotionManagement	22MBA20M2	Employability
ConsumerBehavior	22MBA21M3	Employability
International Marketing	22MBA24M4	Employability
ServicesMarketing	22MBA25M5	Employability
MarketingAnalytics	22MBA26M6	Skill Development
Security AnalysisandPortfolioManagement	22MBA19F1	Employability
RiskManagementandFinancialDerivatives	22MBA20F2	Employability
StrategicCost andManagement Accounting	22MBA21F3	Employability
InternationalFinancialManagement	22MBA24F4	Employability
StrategicFinancialManagement	22MBA25F5	Employability
FinancialAnalytics	22MBA26F6	Skill Development
Talentand PerformanceManagementSystems	22MBA19H1	Employability
LearningandDevelopment	22MBA20 H2	Employability
EmployeeRelations	22MBA21 H3	Employability
InternationalHumanResourceManagement	22MBA24 H4	Employability
LeadershipandChangeManagement	22MBA25H5	Employability
HRAnalytics	22MBA26 H6	Skill Development
Startup and MSMEManagement	22MBA19E1	Skill Development
TechnologyBusinessIncubation	22MBA20E2	Skill Development
InnovationandEntrepreneurship	22MBA21E3	Employability
EntrepreneurialFinance	22MBA24E4	Employability
EntrepreneurialMarketing	22MBA25E5	Employability
FamilyBusinessManagement	22MBA26E6	Employability

PRINCIPAL
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