



***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
Matrices and Calculus	B22MA01	Skill Development
C Programming and Data Structures	B22CS01	Skill Development
Electrical Circuit Analysis – I	B22EE01	Skill Development
Computer Aided Engineering Graphics	B22ME03	Skill Development
Elements of Electrical and Electronics Engineering	B22EE02	Skill Development
C Programming and Data Structures Laboratory	B22CS07	Skill Development
Ordinary Differential Equations and Vector Calculus	B22MA02	Skill Development
Engineering Workshop	B22ME01	Skill Development
English for Skill Enhancement	B22EN01	Skill Development
Electrical Circuit Analysis – II	B22EE05	Skill Development
English Language and Communication Skills Laboratory	B22EN02	Skill Development
Applied Python Programming Laboratory	B22CS10	Skill Development
Electrical Circuit Analysis Laboratory	B22EE06	Skill Development
Environmental Science	B22CH03	Skill Development
Python Programming Laboratory	B22CS04	Skill Development
Elements of Civil Engineering	B22CE01	Skill Development
Applied Mechanics	B22CE02	Skill Development
Surveying	B22CE04	Skill Development
Surveying Laboratory - I	B22CE05	Skill Development
C Programming for Engineers	B22CS08	Skill Development
Elements of Electronics and Communication Engineering	B22EC01	Skill Development
C Programming for Engineers Laboratory	B22CS09	Skill Development
Basic Electrical Engineering	B22EE03	Skill Development
Electronic Devices and Circuits	B22EC02	Skill Development



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Basic Electrical Engineering Laboratory	B22EE04	Skill Development
Electronic Devices and Circuits Laboratory	B22EC03	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
IT Workshop	B22CS05	Skill Development
Surveying	B20CE04	Skill Development
Construction Materials	B20CE05	Skill Development
Engineering Geology	B20CE12	Skill Development
Construction Techniques And Practices	B20CE13	Skill Development
Concrete Technology	B20CE20	Skill Development, Employability
Highway Engineering	B20CE22	Skill Development, Employability
Environmental Engineering	B20CE29	Skill Development, Employability
Advanced Surveying	B20CE39	Skill Development, Employability
Sustainable Materials and Green Buildings	B20CE51	Skill Development, Employability
Engineering Mechanics	B22CE02	Skill Development, Employability
Engineering Materials	B22CE04	Skill Development, Employability
Fuels & Lubricants Laboratory	B22CE05	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 Development, Employability



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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
CAD/CAM	B18ME32	Skill Development, Employability
CAD/CAM Lab	B18ME43	Skill Development, Employability
Instrumentation & Control Systems Lab	B18ME44	Skill Development, Employability
Mini Project Internship	B18ME45	Skill Development
Major Project Phase - I	B18ME46	Skill Development
Intellectual Property Rights	B18MB06	Skill Development
CNC Technology	B18ME48	Skill Development
Major Project Phase – 2	B18ME50	Skill Development
Technical Seminar	B18ME51	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
Programming for Problem Solving	B22CS01	Skill Development
Elements of Computer Science & Engineering	B22CS02	Skill Development
Programming for Problem Solving Laboratory	B22CS03	Skill Development
Python Programming Laboratory	B22CS04	Skill Development
IT Workshop	B22CS05	Skill Development
Data Structures	B22CS06	Skill Development



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Computer Organization and Architecture	B22CS07	Skill Development
Object Oriented Programming through Java	B22CS08	Skill Development
Data Structures Lab	B22CS09	Skill Development
Object Oriented Programming through Java Lab	B22CS10	Skill Development
Discrete Mathematics	B22CS11	Skill Development
Operating Systems	B22CS12	Skill Development
Database Management Systems	B22CS13	Skill Development
Software Engineering	B22CS14	Skill Development
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 (OE-I)	B22CS19	Skill Development
Design and Analysis of Algorithms	B22CS27	Skill Development
Computer Networks	B22CS28	Skill Development
DevOps	B22CS29	Skill Development, Employability
Advanced Computer Architecture (PE-I)	B22CS30	Skill Development
Image Processing	B22CS31	Skill Development
Principles of Programming Languages	B22CS32	Skill Development
Computer Graphics (PE-II)	B22CS33	Skill Development
Embedded Systems	B22CS34	Skill Development
Information Retrieval Systems	B22CS35	Skill Development
Distributed Databases	B22CS36	Skill Development
Computer Networks Lab	B22CS37	Skill Development, Employability
DevOps Lab	B22CS38	Skill Development, Employability
UI design- Flutter	B22CS39	Skill Development, Employability
Formal Languages and Automata Theory	B22CS40	Skill Development
Artificial Intelligence	B22CS41	Skill Development
Full Stack Development	B22CS42	Skill Development, Employability
Internet of Things	B22CS43	Skill Development, Employability
Scripting Languages	B22CS44	Skill Development, Employability
Mobile Application Development	B22CS45	Skill Development, Employability
Software Testing Methodologies	B22CS46	Skill Development, Employability
Artificial Intelligence Laboratory	B22CS47	Skill Development, Employability
Full Stack Development Lab (PE-III)	B22CS48	Skill Development, Employability
Internet of Things Lab	B22CS49	Skill Development, Employability
Scripting Languages Lab	B22CS50	Skill Development, Employability





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Mobile Application Development Lab	B22CS51	Skill Development, Employability
Software Testing Methodologies Lab	B22CS52	Skill Development, Employability
Industrial Oriented Mini Project/ Internship/ Skill Development Course (Big data-Spark)	B22CS53	Skill Development, Employability
Cryptography and Network Security	B22CS54	Skill Development
Compiler Design	B22CS55	Skill Development
Graph Theory (PE-IV)	B22CS56	Skill Development
Cyber Security	B22CS57	Skill Development
Soft Computing	B22CS58	Skill Development
Adhoc & Sensor Networks	B22CS59	Skill Development
Advanced Algorithms (PE-V)	B22CS60	Skill Development
Agile Methodology	B22CS61	Skill Development
Robotic Process Automation	B22CS62	Skill Development, Employability
Block chain Technology	B22CS63	Skill Development, Employability
Software Process & Project Management	B22CS64	Skill Development
Cryptography and Network Security Lab	B22CS65	Skill Development
Compiler Design Lab	B22CS66	Skill Development
Project Stage - I	B22CS67	Skill Development
Computational Complexity (PE-VI)	B22CS68	Skill Development
Distributed Systems	B22CS69	Skill Development
Human Computer Interaction	B22CS70	Skill Development, Employability
Cyber Forensics	B22CS71	Skill Development, Employability
Algorithms Design and Analysis	B22CS72	Skill Development
Introduction to Computer Networks	B22CS73	Skill Development
Introduction to Cloud Computing	B22CS74	Skill Development
Project Stage – II including Seminar	B22CS75	Skill Development
Mathematical Foundations of Computer Science	M22CS01	Skill Development
Advanced Data Structures	M22CS02	Skill Development
Database Programming with PL/SQL(PE-I)	M22CS03	Skill Development
Deep Learning	M22CS04	Skill Development
Python Programming	M22CS05	Skill Development
Applied Cryptography (PE-II)	M22CS06	Skill Development
Software Quality Engineering	M22CS07	Skill Development
Artificial Intelligence	M22CS08	Skill Development
Advanced Data Structures Lab	M22CS09	Skill Development



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Database Programming with PL/SQ L Lab (PE-I LAB)	M22CS10	Skill Development
Deep Learning Lab	M22CS11	Skill Development
Python Programming Lab	M22CS12	Skill Development
Advanced Algorithms	M22CS13	Skill Development
Advanced Computer Architecture	M22CS14	Skill Development
Enterprise Cloud Concepts(PE-III)	M22CS15	Skill Development
Advanced Computer Networks	M22CS16	Skill Development
Edge Analytics	M22CS17	Skill Development
Bio informatics(PE-IV)	M22CS18	Skill Development
Block Chain Technology	M22CS19	Skill Development
Robotic Process Automation	M22CS20	Skill Development
Advanced Algorithms Lab	M22CS21	Skill Development
Enterprise Cloud Concepts Lab(PE-III LAB)	M22CS22	Skill Development
Advanced Computer Networks Lab	M22CS23	Skill Development
Edge Analytics Lab	M22CS24	Skill Development
Mini Project with Seminar	M22CS25	Skill Development
Digital Forensics(PE-V)	M22CS26	Skill Development
High Performance Computing	M22CS27	Skill Development
Quantum Computing	M22CS28	Skill Development
Dissertation Work Review - II	M22CS29	Skill Development
Dissertation Work Review - III	M22CS30	Skill Development
Dissertation Viva-Voce	M22CS31	Skill Development
Data visualization- R Programming/ Power BI	B22DS01	Employability,Skill development
Real-time Research Project/ Societal Related Project	B22DS02	Employability,Entrepreneurship
Introduction to Data Science	B22DS03	Skill development
Data Warehousing and Business Intelligence (P.E – I)	B22DS04	Employability,Skill development
Spatial and Multimedia Databases (P.E – II)	B22DS05	Employability,Entrepreneurship
Software Project Management (P.E – II)	B22DS06	Employability,Entrepreneurship
R Programming Lab	B22DS07	Employability,Skill development
ETL-Kafka/Talend	B22DS08	Employability,Skill development
Big Data Analytics	B22DS09	Employability,Skill development
Data Visualization Techniques (P.E – III)	B22DS10	Employability,Skill development
Data Visualization Techniques Lab	B22DS11	Employability,Skill development
FUNDAMENTALS OF DATA SCIENCE (Open Elective – I)	B22DS12	skill development



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R PROGRAMMING (Open Elective – I)	B22DS13	Employability, Skill development
Big Data Analytics Lab	B22DS14	Employability, Skill development
Industrial Oriented Mini Project/ Summer Internship/Skill Development Course (UI design-Flutter)	B22DS15	Employability, Entrepreneurship
Predictive Analytics	B22DS16	Employability, Skill development
Web and Social Media Analytics	B22DS17	Employability, Skill development
Database Security	B22DS18	Employability
Information Storage Management	B22DS19	Employability, Skill development
Privacy Preserving Data Publishing (P.E-V)	B22DS20	skill development
Data Science Applications (P.E-V)	B22DS21	Employability, Skill development
Mining Massive Datasets (P.E-V)	B22DS22	Skill development
Exploratory Data Analysis (P.E-V)	B22DS23	Employability, Skill development
Web and Social Media Analytics Lab	B22DS24	Employability, Skill development
Predictive Analytics Lab	B22DS25	Employability, Skill development
Project Stage – I	B22DS26	Employability, Skill development
Data Stream Mining (P.E-VI)	B22DS27	Skill development
Video Analytics (P.E-VI)	B22DS28	Skill development
Parallel and Distributed Computing (P.E-VI)	B22DS29	Skill development
INTRODUCTION TO SOCIAL MEDIA MINING (O.E-III)	B22DS30	Skill development
DATA VISUALIZATION USING PYTHON (O.E-III)	B22DS31	Employability, Skill development
Project Stage – II including Seminar	B22DS32	Employability, Skill development
Surveying	B22CE04	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
Automata Theory and Compiler Design	B22AI01	Skill Development
Introduction to Artificial Intelligence	B22AI02	Entrepreneurship, Skill Development
Real-time Research Project/Field-Based Research Project	B22AI03	Entrepreneurship, Skill Development
Prolog/Lisp/Pyswip	B22AI04	Skill Development
Machine Learning	B22AI05	Employability, Skill Development
Introduction to Data Science	B22AI06	Skill Development



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Web Programming	B22AI07	Skill Development
Machine Learning Lab	B22AI08	Employability, Skill Development
UI design-Flutter	B22AI09	Entrepreneurship, Skill Development
Knowledge Representation and Reasoning	B22AI10	Skill Development
Data Analytics	B22AI11	Skill Development
Natural Language Processing	B22AI12	Skill Development
Pattern Recognition	B22AI13	Skill Development
Computer Vision and Robotics	B22AI14	Employability, Skill Development
Fundamentals of AI	B22AI15	Entrepreneurship, Skill Development
Machine Learning Basics	B22AI16	Skill Development
Natural Language Processing Lab	B22AI17	Skill Development
Principles of Data Analytics Lab	B22AI18	Employability, Entrepreneurship
Industrial Oriented Mini Project/Internship/Skill Development Course (DevOps)	B22AI19	Employability, Entrepreneurship
Deep Learning	B22AI20	Employability, Skill Development
Nature Inspired Computing	B22AI21	Employability, Skill Development
Data Mining	B22AI22	Skill Development
Cloud Computing	B22AI23	Entrepreneurship, Skill Development
Quantum Computing	B22AI24	Skill Development
Expert Systems	B22AI25	Skill Development
Semantic Web	B22AI26	Employability, Entrepreneurship
Game Theory	B22AI27	Employability, Entrepreneurship
Mobile Computing	B22AI28	Employability, Entrepreneurship
Introduction to Natural Language Processing	B22AI29	Skill Development
AI applications	B22AI30	Employability, Entrepreneurship
Professional Practice, Law & Ethics	B22AI31	Employability, Skill Development
Data Mining Lab	B22AI32	Skill Development
Cloud Computing Lab	B22AI33	Skill Development
Project Stage-I	B22AI34	Employability, Entrepreneurship
Social Network Analysis	B22AI35	Employability, Entrepreneurship
Federated Machine Learning	B22AI36	Skill Development
Augmented Reality & Virtual Reality	B22AI37	Employability, Entrepreneurship
Web Security	B22AI38	Skill Development
Speech and Video Processing	B22AI39	Employability, Entrepreneurship
Randomized Algorithms	B22AI40	Skill Development
Cognitive Computing	B22AI41	Employability, Entrepreneurship
Conversational AI	B22AI42	Entrepreneurship, Skill Development
Chat bots	B22AI43	Entrepreneurship, Skill Development
Evolutionary Computing	B22AI44	Skill Development
Project Stage-II Including Seminar	B22AI45	Skill Development





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English for Skill Enhancement	B22EN01	Skill Development
Environmental Science	B22CH03	Skill Development
Logical Reasoning & Quantitative Aptitude	B22MC08	Skill Development
Business Economics & Financial Analysis	B22MB01	Skill Development
Intellectual Property Rights	B22MB06	Skill Development
Analog Circuits	B22EC04	Skill Development
Network analysis and Synthesis	B22EE12	Skill Development
Digital Logic Design	B22EC05	Skill Development
Signals and Systems	B22EC06	Skill Development
Probability Theory and Stochastic Processes	B22EC13	Skill Development
Electromagnetic Fields and Transmission Lines	B22EC14	Employability,Skill Development
Analog and Digital Communications	B22EC15	Employability,Skill Development
Linear and Digital IC Applications	B22EC16	Employability,Skill Development
Electronic Circuit Analysis	B22EC17	Employability,Skill Development
Microcontrollers	B22EC24	Employability,Skill Development
IoT Architectures and Protocols	B22EC25 I	Employability,Skill Development
Control Systems	B22EC26	Employability,Skill Development
Computer Organization & Operating Systems	B22EC42	Skill Development
Data Communications and Computer Networks	B22EC43	Skill Development
Electronic Measurements and Instrumentation	B22EC44	Employability,Skill Development
Microcontrollers Laboratory	B22EC27	Employability,Skill Development
IoT Architectures and Protocols Laboratory	B22EC28	Employability,Skill Development
Antennas and Wave Propagation	B22EC29	Employability,Skill Development
Digital Signal Processing	B22EC30	Employability,Skill Development
CMOS VLSI Design	B22EC31	Employability,Skill Development
Microwave and Optical Communications	B22EC38	Employability,Skill Development
Network Security and Cryptography	B22EC51	Skill Development
Satellite Communications	B22EC52	Skill Development
Management and Organizational Behavior	M22MB01	Skill Development,Entrepreneurship
Business Economics	M22MB02	Skill Development,Entrepreneurship
Financial Reporting & Analysis	M22MB03	Skill Development,Entrepreneurship
Research Methodology and Statistical Analysis	M22MB04	Skill Development
Legal and Business Environment	M22MB05	Skill Development



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Business Ethics and Corporate Governance	M22MB06A	Skill Development
Project Management	M22MB06B	Skill Development
Sustainability Management	M22MB06C	Skill Development
Cross Cultural Management	M22MB06D	Skill Development
Business Communication Lab	M22MB07	Skill Development
Statistical Data Analysis Lab	M22MB08	Skill Development
Human Resource Management	M22MB09	Skill Development
Marketing Management	M22MB10	Skill Development
Financial Management	M22MB11	Skill Development
Quantitative Analysis for Business Decisions	M22MB12	Skill Development
Entrepreneurship and Design Thinking	M22MB13	Skill Development, Entrepreneurship
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	Skill Development

  
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