

Basket-1			
Basket Name: Intellectual Property Rights			
Branch	Semester	Elective Type	Subject
BioTechnology	6	Open	Intellectual Property Rights
Computer Science & Engineering	8	Open	Intellectual Property Rights

Basket-2			
Basket Name: Bioinformatics			
Branch	Semester	Elective Type	Subject
BioTechnology	5	Core	Bioinformatics
Information Technology	8	Open	Bioinformatics
Bio Medical Engineering	8	Program	Bioinformatics

Basket-3			
Basket Name: Pattern Recognition			
Branch	Semester	Elective Type	Subject
Information Technology	8	Open	Pattern Recognition
MCA	5	Open	Pattern Recognition
Computer Science & Engineering	6	Open	Applied Machine Learning
Electronics and Communication Engineering	6	Open	Machine Learning and Pattern Recognition
Information Technology	6	Open	Machine Learning
Electrical Engineering	5	Program	Introduction to AI & ML

Basket-4			
Basket Name: Digital Image Processing			
Branch	Semester	Elective Type	Subject
Electronics and Communication Engg	5	Open	Digital Image Processing
Information Technology	5	Open	Digital Image Processing
MCA	5	Open	Digital Image Processing
Bio Medical Engineering	7	Program	Medical Image Processing
Electrical Engineering	8	Open	Medical signal and image processing
Electronics & Comm. Engineering	8	Program	Speech & Video Processing
Information Technology	8	Program	Medical Imaging

Basket-5			
Basket Name: Wireless Sensor Network			
Branch	Semester	Elective Type	Subject
Electronics and Communication Engg	7	Program	Wireless Sensor Network
Information Technology	7	Program	Adhoc & Sensor Network
Computer Science & Engineering	7	Program	Wireless Sensor Network

Basket-6			
Basket Name: Real Time Embedded Systems			

Branch	Semester	Elective Type	Subject
Electronics and Communication Engg	7	Open	Real Time Embedded Systems
Biomedical Engineering	8	Program	Embedded & Real Time Systems
Computer Science & Engineering	8	Program	Real Time Systems
Information Technology	7	Program	Real Time System

Basket-7			
Basket Name: Internet of Things			
Branch	Semester	Elective Type	Subject
Electronics and Communication Engg	8	Open	Internet of Things
Computer Science & Engineering	7	Open	Internet of Things
MCA	4	Program	Internet of Things

Basket-8			
Basket Name: Deep Learning			
Branch	Semester	Elective Type	Subject
Electronics and Communication Engg	8	Open	Introduction to Deep Learning
Computer Science & Engineering	7	Program	Deep Learning
Information Technology	8	Open	Deep Learning
Computer Science & Engineering	8	Open	Advance AI and edge Computing

Basket-9			
Basket Name: Optimization Techniques			
Branch	Semester	Elective Type	Subject
Electronics and Communication Engg	5	Program	Optimization Techniques
Mathematics	6	Open	Engineering Optimization
Electrical Engineering	7	Open	Applied Optimization
Computer Science & Engineering	8	Open	Evolutionary Computing
Mechanical Engineering	7	Open	Optimization Techniques

Basket-10			
Basket Name: Project Management			
Branch	Semester	Elective Type	Subject
Architecture	9		Project Management
Civil	5	Open	Project Planning and Management
Chemical	8	Open	Project Planning Evaluation and Management
Computer Science & Engineering	8	Program Elective	Software Project Management
MCA	5	Program Elective	Software Architecture and Management

Basket-11			
Basket Name: Non-Conventional Energy Sources			
Branch	Semester	Elective Type	Subject
Chemical	6	Open	Non - conventional energy sources

Mechanical	8	Open	Non-Conventional Energy Resources
Electrical Engineering	5	Open	Energy Conversion Systems
Electrical Engineering	7	Open	Renewable and Distributed Energy Systems

Basket-12 - Deleted			
Basket Name: Universal Design			
Branch	Semester	Elective Type	Subject
Architecture	6	Open	Universal Design
Mechanical	7	Open	Integrated Product Development

Basket-13			
Basket Name: Environmental Planning			
Branch	Semester	Elective Type	Subject
Architecture	9		Environmental Planning
Civil	7	Open	Environmental Impact Assessment & Environmental Management
Mechanical	7	Open	Air Pollution Control
Chemical	8	Open	Environmental Impact Assessment
Electrical	8	Open	Energy Audit, Conservation and Management

Basket-14			
Basket Name: Sustainable and Energy Efficient Architecture			
Branch	Semester	Elective Type	Subject
Chemical	8	Open	Solid Waste Management
Civil	8	Open	Hazardous Wastes Management

Basket-15			
Basket Name: Remote Sensing and Basic of GIS			
Branch	Semester	Elective Type	Subject
Architecture	10		Remote Sensing and Basic of GIS
Civil	8	Open	Remote Sensing, GIS & its applications

Basket-16			
Name of the Basket: Mechanics of Composite Materials			
Branch	Semester	Elective Type	Subject
Civil Engineering	5	Open	Mechanics of composite materials
Mechanical Engineering	5	Open	Composite Materials and Mechanics

Basket-17			
Name of the Basket: Finite Element Methods			
Branch	Semester	Elective Type	Subject
Civil Engineering	7	Open	Finite Element Methods
Mechanical Engineering	5	Open	Finite Element Methods

Basket-18			
Basket Name: Graph Theory			
Branch	Semester	Elective Type	Subject
Mathematics	6	Open	Discrete Mathematics with Graph Theory
Computer Science & Engineering	8	Program	Graph Theory

Basket-19			
Basket Name: Big Data			
Branch	Semester	Elective Type	Subject
Information Technology	8	Open	Big Data Processing
Computer Science & Engineering	7	Program	Big Data Analytics

Basket-20			
Basket Name: Blockchain			
Branch	Semester	Elective Type	Subject
Information Technology	8	Program	Blockchain
Computer Science & Engineering	7	Program	Block Chain Technology

Basket-21			
Basket Name: Information Retrieval			
Branch	Semester	Elective Type	Subject
Information Technology	8	Open	Information Retrieval
Computer Science & Engineering	6	Open	Information Retrieval
MCA	5	Program	Information Retrieval

Basket-22			
Basket Name: Software Testing			
Branch	Semester	Elective Type	Subject
Information Technology	7	Program	Software Testing
Computer Science & Engineering	7	Open	Software Testing
MCA	5	Program	Software Testing

Basket-23			
Basket Name: Softcomputing			
Branch	Semester	Elective Type	Subject
Information Technology	7	Open	Neural Network and Fuzzy Logic
Computer Science & Engineering	6	Program	Soft Computing
Electrical Engineering	7	Open	Soft Computing Techniques and Applications

Basket-24			
Basket Name: Cryptography & Network Security			

Branch	Semester	Elective Type	Subject
Electronics & Comm. Engineering	8	Open	Cryptography & Network Security
Computer Science & Engineering	6	Core	Cryptography & Network Security

Basket-25			
Basket Name: Computer Architecture			
Branch	Semester	Elective Type	Subject
Information Technology	5	Open	Advance Computer Architectre
MCA	5	Program	Parallel Processing

Basket-26			
Basket Name: Cloud Computing			
Branch	Semester	Elective Type	Subject
Information Technology	8	Open	Cloud Computing
Computer Science & Engineering	6	Open	Cloud Computing
MCA	5	Program	Cloud Computing

Basket-27			
Basket Name: Computer Vision			
Branch	Semester	Elective Type	Subject
Computer Science & Engineering	6	Program	Computer Vision
Information Technology	7	Open	Computer Vision
Electronics and Communication Engg	7	Open	Computer Vision

Basket-28			
Basket Name: Cellular Mobile Computing			
Branch	Semester	Elective Type	Subject
Information Technology	8	Program	Cellular Mobile Computing
MCA	5	Program	Mobile Computing

Basket-29			
Basket Name: Software Defined Network			
Branch	Semester	Elective Type	Subject
Information Technology	8	Program	Software Defined Network
MCA	5	Program	Software Defined Network

Basket-30			
Basket Name: Decision Support System			
Branch	Semester	Elective Type	Subject
Information Technology	8	Open	Decision Support System
MCA	5	Program	Decision Support System

Basket-31			
Basket Name: Computational fluid dynamics			
Branch	Semester	Elective Type	Subject

Mechanical	5	open	Computational fluid dynamics
Chemical	7	open	Computational fluid dynamics

Basket-32			
Basket Name: Tribology			
Branch	Semester	Elective Type	Subject
Mechanical	7	Program	Tribology
Matallurgical and Materials engg	6	open	Tribology of materials

Basket-33			
Basket Name:Process Control			
Branch	Semester	Elective Type	Subject
Electrical Engineering	5	Core	Control System Engineering
Electrical Engineering	5	Open	Instrumentation and Control
Biotechnology	7	Program	Process dynamics and control
Electrical Engineering	7	Open	Process Control and Instrumentation

Basket-34			
Basket Name:Additive Manufacturing			
Branch	Semester	Elective Type	Subject
Bio Medical Engineering	8	Open Elective	3D Printing Technology
Matallurgical & Materials Engineering	7	Program Elective	Additive Manufacturing of Materials
Mechanical Engineering	8	Program Elective	Additive Manufacturing

Basket-35			
Basket Name: Biomicrofluidics			
Branch	Semester	Elective Type	Subject
BioTech	8	Open	Biomicrofluidics
Bio Medical Engineering	6	Program	Biomicrofluidics

Basket-36			
Basket Name: Quantum Computing			
Branch	Semester	Elective Type	Subject
Computer Science & Engineering	8	Open	Quantum Computing
MCA	5	Open	Quantum Computing

Basket-37			
Basket Name: Cyber Law			
Branch	Semester	Elective Type	Subject
Computer Science & Engineering	8	Open	Cyber Law and Rights
MCA	5	Open	Cyber Law