INFORMATION TECHNOLOGY ENGINEERING
COURSE OUTCOMES

Bachelor Year Information Technology Engineering
SEM VIII

Subject Code	Subject Name	CO's
BEITC801	Storage Network Management and Retrieval	**CO**1) Students will be able to evaluate storage architectures, including storage subsystems, SAN, NAS, and IP-SAN, also define backup, recovery. **CO**2) Examine emerging technologies including IP-SAN. **CO**3) Define information retrieval in storage network and identify different storage virtualization technologies.
BEITC802	Big Data Analytics	At the end of this course a student will be able to: **CO**1. Understand the key issues in big data management and its associated applications in intelligent business and scientific computing. **CO**2. Acquire fundamental enabling techniques and scalable algorithms like Hadoop, Map Reduce and NO SQL in big data analytics. **CO**3. Interpret business models and scientific computing paradigms, and apply software tools for big data analytics. **CO**4. Achieve adequate perspectives of big data analytics in various applications like recommender systems, social media applications etc.
BEITC803	Computer Simulation and Modeling	**CO1** Understand the meaning of simulation and its importance in business, science, engineering, industry and services **CO2** Identify the common applications of discrete-event system simulation. Practice formulation and modeling skills. **CO3** Understand simulation languages Ability to analyze events and inter-arrival time, arrival process, queuing strategies, resources and disposal of entities **CO4** An ability to perform a simulation using spreadsheets as well as simulation language/package **CO5** Ability to generate pseudorandom numbers using the Linear Congruential Method **CO6** Ability to perform statistical tests to measure the quality of a pseudorandom number generator **CO7** Ability to define random variate generators for finite random variables **CO8** Ability to analyze and fit the collected data to different distributions
BEITC8041 (Elective II)	Enterprise Resource Planning	The learner will be familiar with ERP and related technologies like Business Processing Reengineering (BPR), Supply Chain Management (SCM),Customer Relationship Management(CRM), MIS - Management Information System, DSS - Decision Support System, EIS - Executive Information System etc. The learner should gain the knowledge on ERP tools and ERP benefits.

BEITC8042 (Elective II)	Wireless Sensor Network	**CO**1. Students shall be able to understand and study the functionalities, applications and architecture of WSN. **CO**2. Students shall be able to describe the challenges in designing various protocols for wireless sensor networks. **CO**3. Students shall be able to understand the current technology trends for the implementation and deployment of wireless sensor networks. **CO**4. Students shall gain an understanding of WSN Standards and future trends in WSN. **CO**5. Students shall be able to understand security aspects like Privacy issues, attacks and countermeasures
BEITC8043 (Elective II)	Geographical Information Systems	After completing this course, students will be able to: **CO**1 Apply the knowledge of science for real world applications in GIS **CO**2 Design and conduct experiments as well as analyze, interpret the geospatial data using GIS tools **CO**3 Function with multidisciplinary Teams. **CO**4 Use the techniques, skills and modern engineering tools necessary for engineering practice. **CO**5 Adapt to Open source standards
BEITC8044 (Elective II)	Robotics	At the end of this course, learners will be able to **CO**1 Understand kinematics and dynamics of stationary and mobile robots **CO**2 Understand trajectory planning for rigid robot and mobile robots **CO**3 Implement trajectory generation and path planning algorithms **CO**4 Work in interdisciplinary projects
BEITC8045 (Elective II)	Soft Computing	Student should be able to mimic human like thought process on deterministic machines and apply it to different real world problems faced in the professional front.
BEITC8046 (Elective II)	Software Testing & Quality Assurance	After completion of course the students will able to: **CO**1: Identify the reasons for bugs and analyze the principles in software testing to prevent and remove bugs. **CO**2: Implement various test processes for quality improvement **CO**3: Apply the software testing techniques in commercial environments **CO**4: Provides practical knowledge of a variety of ways to test software and an understanding of some of the trade-offs between testing techniques. **CO**5: Familiar with the open source testing tools.
BEITP805	Project II	The learner should be able to: **CO**1. Demonstrate the product that is implemented. **CO**2. Produce the proper documentation of the work. **CO**3. Able to work in team and communicate with peers. **CO**4. Develop skills required by the industry