VISION

To impart quality education through state-of-the-art technologies to achieve academic excellence for transforming students into innovators.

MISSION

To impart quality education through state-of-the-art technologies to achieve academic excellence for transforming students into innovators.

Creating a teaching-learning environment to produce industry ready and self-confident graduates. Motivate students to engage in creative projects throughout graduation.

To produce competitive graduates having creative skills and ethical values to succeed in their fields as well as the foundation for life-long learning.

PROGRAM EDUCATIONAL OBJECTIVES (PEO)

1. To provide students with strong basic and advanced programming concepts so that they can build solutions or systems for complex problems.
2. The program provides the fundamental and perspective to attain life-long learning in the thrust areas of Computer Programming.
3. To produce graduates who have ability to pursue research or have a successful career in academia or industries or as entrepreneurs.
4. The aim is inculcating technical knowledge of the programme and imbibe ethics with moral behaviour in the graduates.

PROGRAM SPECIFIC OBJECTIVES (PSO)

1. To acquire basic knowledge in hardware/software, algorithms, System Software, Computer graphics, Web design, Networking, and advanced computing for solving real-life and Research problems with the perspective of lifelong learning.
2. An ability to demonstrate Knowledge of data management systems like data acquisition and big data, Intelligent systems like AI, Data Science and Machine Learning, The techniques of data analytics like pattern recognition and knowledge discovery.
3. To develop skills which help to expand professional careers.

COURSE OUTCOMES (CO)

1. To study the asymptotic performance of algorithms.
2. Apply various complexity measures and find out performance of the algorithm through divide and conquer like searching and sorting.
3. To generate optimal solutions by applying various Greedy and Dynamic algorithms.
4. To apply fundamental algorithms to model engineering problem solving using various graph methods or using suitable data structures.

MADHUBEN & BHANUBHAI PATEL
INSTITUTE OF TECHNOLOGY
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A.Y. 2022-23, EVEN TERM
SUBJECT CODE:102045601
SUBJECT NAME: DESIGN AND ANALYSIS OF ALGORITHMS

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