PEOs and PSOs (NEP 2020, R2024, FH 2026, AY 2025-26)

Program Education Objectives (PEOs)

PEO 1 – Professional Competence and Lifelong Learning

Graduates will build a strong foundation in computing, mathematics, and engineering principles with exposure to social sciences and natural sciences (WK1–WK4). They will apply this knowledge to develop innovative IT solutions relevant to industry needs, thereby enhancing their employability in IT services, product development, and technology-enabled manufacturing sectors. They will pursue continuous learning and adapt to emerging technologies in alignment with global IT trends and NEP's vision of holistic and flexible education.

PEO 2 – Skills for Sustainable and Collaborative Practice

Graduates will acquire problem-solving, design, and analytical skills to address real-world challenges by utilizing modern IT tools, data-driven approaches, sustainable practices, and interdisciplinary teamwork (WK2, WK5, WK6, WK8). They will be empowered to pursue lifelong learning, research orientation, and entrepreneurial ventures in emerging areas such as AI, IoT, cloud computing, and industry 4.0.

PEO 3 – Professional Ethics, Social Responsibility, and Leadership

Graduates will demonstrate ethical values, inclusivity, and social commitment (WK7, WK9). They will lead as responsible citizens by contributing towards digital empowerment of rural communities, ensuring public safety, promoting diversity, and upholding sustainable development principles while adapting to global IT trends.

Program Specific Outcomes (PSOs)

PSO 1: Intelligent Systems and Data Analytics

To design, develop, and deploy intelligent systems using AI, machine learning, and data analytics for solving real-world problems in diverse domains such as business, healthcare, and social impact. This outcome ensures students gain hands-on skills in building predictive models, analyzing large datasets, automating processes, and leveraging emerging tools like generative AI, cloud platforms, and edge analytics.

PSO 2: Secure, Connected, Scalable and Sustainable IT Solutions

To engineer secure, scalable, Sustainable and distributed IT systems leveraging trends such as IoT, 5G, cybersecurity, and cloud-edge infrastructures. This outcome ensures capability in developing applications for smart devices, optimizing network and energy performance in 5G environments, implementing security protocols, and deploying distributed architectures for robust enterprise, industrial, and civic solutions.

Dr. Vinayak Ashok Bharadi.

HoD, Department of Information Technology, FAMT (2nd Jan 2026)