About JBIET

As one of the topten most preferred institutions in Telangana, JBIET continues to strive to impart technical (engineering) and professional education of very high standards. The aim of JBIET is to mould young learners into globally competitive professionals who are professionally deft, intellectually adept and socially responsible. The expert faculty at JBIET inculcates the best values and principles, ascribing to a modern curriculum; while the students imbibe pragmatic perception and a pro- active nature, which spurs them towards exploration and advanced inquiry, resulting in valuable insights. The Placement record of JBIET over the years is proof of our right efforts in enabling the best in class engineering, technical and professional education to aspirants.

Highlights and Accomplishments

- Established in 1998 with over 28 years of academic excellence.
- UGC Autonomous Institution with autonomous status extended up to 2035.
- Accredited by NAAC with 'A' Grade and NBA (Tier-I).
- Offers 12 B.Tech, 5 M.Tech, and MBA programs.
- Strong industry collaborations with IITM Pravartak, T-Hub, T-Works, Cyber Security Centre of Excellence (Govt. of Telangana), Engineering Staff College of India, and other leading organizations.
- Secured the Platinum Band in Academic Excellence, Research Excellence, Employability, Startup Ecosystem Excellence, OBE Ranking, and Titanium Plus band in Sustainable Institutions of India – Green Ranking 2026.
- Dedicated Institute Innovation Hub for hands-on learning and innovation.

About Department

The Department of Computer Science and Engineering (CSE) was established in 1998 with an initial intake of 60 students for the B.Tech. program. The intake was subsequently increased to 360. The department also offers M.Tech program in CSE with an approved intake of 12. The department also hosts the university recognized research center in Computer Science and Engineering. The B.Tech. program in CSE has been accredited by the NBA up to 2027. The department is known for its talented and dedicated faculty members who specialize in various domains of Computer Science and Engineering. Faculty members have successfully completed multiple consultancy research projects and hold patents, with over 105 research articles published in SCI, Scopus-indexed, and peer-reviewed journals and conferences in the last three years. The department is equipped with Advanced Computing Labs. Our Students are placed in all the Major companies and many of them completed their Masters from reputed Universities in India and abroad.

INSTITUTE OF ENGINEERING & TECHNOLOGY
UGC Autonomous

28+ Years of Excellence JBIET

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22nd -27th JUNE 2026

ONE WEEK NATIONAL FACULTY DEVELOPMENT PROGRAMME (HYBRID MODE)

on

PYTHON *for* NUMERICAL AND COMPUTATIONAL MATHEMATICS

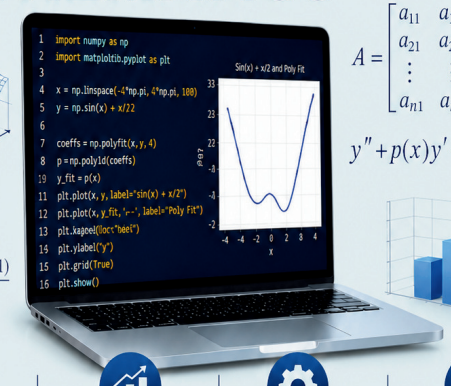
$$\sum_{i=1}^{n} i^3 = \frac{n^2(n+1)^2(2n+1)}{6}$$

$$A = \begin{bmatrix} a_{11} & a_{12} & \cdots & a_{1n} \\ a_{21} & a_{22} & \cdots & a_{2n} \\ \vdots & \vdots & \ddots & \vdots \\ a_{n1} & a_{n2} & \cdots & a_{nn} \end{bmatrix}$$

$$y'' + p(x)y' + q(x)y = r(x$$

$$\frac{d}{dx}(\sin x) = \cos x$$

$$\sum_{i=1}^{n} i^2 = \frac{n(n+1)(2n+1)}{6}$$



- **ENHANCE TEACHING WITH PYTHON**
- **SOLVE REAL-WORLD MATHEMATICAL PROBLEMS**
- **IMPROVE COMPUTATIONAL SKILLS**
- **BOOST RESEARCH AND INNOVATION**

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About FDP

This FDP explores the transformative role of Computational Mathematics using Python. It covers fundamental mathematical concepts—Eigenvalues & Eigenvectors, Algebraic & Transcendental Equations, Linear Systems, ODEs—and their implementation in Python (NumPy, SymPy, Matplotlib). Hands-on sessions include coding from scratch, handling rotation matrices, and solving real-world engineering problems.

Resource Persons

The resource persons for the FDP are experts from Industry and Premier Institutes, whose rich academic, research, and professional experience will greatly contribute to the effective and successful conduct of the programme.

Topics to be Covered

- Eigen Values & Eigen Vectors – geometric meaning
- Algebraic & Transcendental Equations – Bisection method derivation
- Linear System of Equations
- Exact & Non-Exact First-Order ODEs
- Higher-Order ODEs – Homogeneous & Non-Homogeneous
- Python (NumPy, SymPy, Matplotlib)
- Computing complex Eigen values; rotation matrices
- Python implementation using numpy arrays – coded from scratch

Course Outcomes

- Understand Eigen Values and Eigen Vectors
- Apply Bisection Method for equation solving
- Solve Linear Systems computationally
- Analyze First-Order ODEs
- Solve Higher-Order Differential Equations
- Use Python for computational mathematics
- Compute Complex Eigen Values and Rotation Matrices
- Implement algorithms using NumPy coding

Who Can Attend

Faculty members, PG Students, industry professionals and others.

Registration Fee

Offline Participants: 499/-
Online Participants: 149/-

Registration and Payment Mode

Registration and Payment must be made through the QR Code or link given below

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SWIFT Code: CNRBINBBBFD
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