

## About BIET

Founded in 1979 by the Bapuji Educational Association, Bapuji Institute of Engineering and Technology (BIET) has established itself as a prominent institution for higher education in engineering and technology. Recognized by AICTE and accredited with an 'A' grade by NAAC, as well as by the Institution of Engineers, BIET has grown significantly over the years. BIET has received accreditation from National Board of Accreditation (NBA) for several of its undergraduate engineering programs. The institute currently offers 13 undergraduate and 5 postgraduate programs across various disciplines in engineering, technology, and management, and has 14 VTU-recognized research centers. Alongside its academic focus, BIET actively engages in consultancy projects in civil, environmental, mechanical, electrical, electronics, and other engineering fields.

## About the Department

The department of Electronics & Communication Engineering was established in the year 1979 with a vision to promote and maintain academic & professional excellence in technical education and research field. The department has started PG course on IoT & Sensor Systems from 2022. Department is recognized as Research Centre by VTU Belagavi since 2020. The department is accredited by National Board of Accreditation (NBA), AICTE, New Delhi up to 2027. Department has to its credit 37 ranks. The department has well qualified faculty members and dedicated supporting staff. The department has excellent infrastructure, well equipped laboratories and departmental library. The Laboratories are equipped with Cadence, Xilinx Software with CPLD/FPGA kits, MATLAB(ML)R 2024a update 5, DSP Trainers and Evaluation Modules with Code Composer Studio, ARM Cortex M3 Boards, Microcontroller Trainers with Flash Modules, ARM 72148 Evaluation Board, LabVIEW, OFC kits, Microwave Testbench, Microstrip Trainer Setup, Mixer Circuit module, PLL Module, Analog and Digital Communication modules.

## Chief Patrons

### Dr. Shammur Shivashankarappa

Member of Legislative Assembly, Government of Karnataka, Honorable Secretary, BEA

### Sri. S. S. Mallikarjun

Minister of Mines & Geology and Horticulture, Government of Karnataka. Honorable Joint Secretary, BEA

### Dr. Prabha Mallikarjun

Member of Parliament, Government of India, Governing Body Member, BEA

## Patrons

**Dr. B. E. Rangaswamy**, Registrar, VTU, Belagavi

**Prof. Y. Vrushabhendra**, Director, BIET

**Dr. H. B. Aravind**, Principal, BIET

## Advisory Committee

**Dr. G. S. Sunitha**, Professor & Head

**Prof. Ashalatha M E**, PG Coordinator

## Resource Persons

**Mr. Vishal**,

Vice President, iNube Software Solutions, Bangalore

**Mr. Lavi Nigam**,

ML Engineer, Applied AI Engineering group, Google

**Dr. Ravi Shankar**,

Senior Consultant, iNube Software Solutions, Bengaluru

**Mr. Ramana Reddy**

Senior Consultant, iNube Software Solutions, Bengaluru

**Mrs. Lakshmi Shastry**,

Enterprise Architect, Brillio Technology, Bangalore

**Dr. Nataraj K S**,

Assistant Professor, IIIT Dharwad

**Dr. Krishnendu Ghosh**,

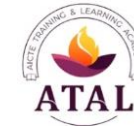
Assistant Professor, IIIT Dharwad

**Mr. Shreekanthappa Gaddad**,

Principal Delivery Project Manager, Microsoft, Dallas

**Mr. Venkatesh**,

Senior Technical Program Manager, Amazon, Austin



Bapuji Educational Association®

Bapuji Institute of Engineering and Technology, Davangere-577004

Post Box No. :325, Davanagere -577 004, Karnataka, India.

An Autonomous Institute Affiliated to

Visvesvaraya Technological University, Belagavi, Karnataka.

Approved by AICTE, New Delhi

Accredited by NAAC with 'A' grade and NBA (UG Programmes)

Recognized by UGC, New Delhi under 2(F) and 12(B)

## Department of Electronics & Communication Engineering

(Accredited by NBA)

## ATAL Online 6 Day Faculty Development Programme

On

## Generative AI – Democratization of AI, Responsible AI

**17<sup>th</sup> to 22<sup>nd</sup> February 2025**



**Convener**

**Dr. G. S. Sunitha, Professor & Head**

### Institute Vision

To be a center of excellence recognized nationally and internationally, in distinctive areas of engineering education and research, based on a culture of innovation and invention.

### Institute Mission

BIET contributes to the growth and development of its students by imparting a broad based engineering education and empowering them to be successful in their chosen field by inculcating in them positive approach, leadership qualities and ethical values.

### Department Vision

To be in the forefront in providing quality technical education and research in Electronics & Communication Engineering to produce skilled professionals to cater to the challenges of the society.

### Department Mission

- To facilitate the students with profound technical knowledge through effective teaching learning process for a successful career.
- To impart quality education to strengthen students to meet the industry standards and face confidently the challenges in the programme.
- To develop the essence of innovation and research among students and faculty by providing infrastructure and a conducive environment.
- To inculcate the student community with ethical values, communication skills, leadership qualities, entrepreneurial skills and lifelong learning to meet the societal needs.

### Contents of FDP

- Introduction to Generative AI
- Gemini Architecture
- Training Generative Models
- Applications of Generative AI
- Ethical Considerations
- Comparison with Other Models
- Use Cases in Healthcare
- Creative Content Generation
- Natural Language Processing
- Future of Generative AI
- User Interaction with Generative AI
- Prompt Engineering

### Objectives

- Understand the fundamental principles and applications of generative AI.
- Explore the architecture and training techniques of generative models, such as the Gemini Architecture.
- Analyze real-world applications and ethical considerations of generative AI in industries like healthcare and creative content generation.
- Learn the essentials of prompt engineering and user interaction with generative AI systems.

### Expected outcomes

- Gain a comprehensive understanding of generative AI models and their diverse applications across multiple industries.
- Apply training techniques and prompt engineering to effectively interact with and optimize AI models.
- Evaluate ethical challenges and propose solutions for responsible AI usage.
- Explore and predict future trends in generative AI and its potential impact on technology and society.

### Who can participate?

The faculty members of the AICTE approved Institutions, Research Scholars, PG students and Industry Professionals.

### Registration

Participants can sign up and register for free to the FDP in AICTE ATAL website link:

<https://www.aicte-india.org/atal>

### No Registration Fee

### Important Dates

Last date to Register : 12th February 2025.  
Intimation of Selection : 14th February 2025.  
Confirmation from Participants: 15th February 2025.

### Certification

Certificates will be issued by AICTE Training and Learning (ATAL) academy only to those participants who comply the mandatory session attendance and assessment score.

### Coordinator

**Dr. Nirmala S O**, Professor  
Email: [sonirmala2023@gmail.com](mailto:sonirmala2023@gmail.com)  
Mob: 9481360590

### Co-Coordinator

**Dr. Leela G H**, Professor  
Email: [leelagh2023@gmail.com](mailto:leelagh2023@gmail.com)  
Mob: 9844474712

### Organizing Members

Faculty Members & Technical Staff.  
Dept. of E&CE.

# ATAL Online 6 Day Faculty Development Programmes 2024-25 Schedule

FDP Thrust Area: Advanced Computing

FDP Title: Generative AI – Democratization of AI, Responsible AI

Start Date: 17-02-2024

End Date: 22-02-2025

17/02/2025	18/02/2025	19/02/2025	20/02/2025	21/02/2025	22/02/2025
6:00PM to 6:30PM <b>Inaugural Session</b>	6:00PM to 7:30PM <b>Session 3</b> Topic: <b>Training Generative Models</b> Name of the Expert: <b>Dr. Nataraj K S</b> Designation & Organization: <b>Assistant Professor, IIT Dharwad</b> Years of Exp: <b>14.8</b>	6:00PM to 7:30PM <b>Session 5</b> Topic: <b>Ethical Considerations</b> Name of the Expert: <b>Mr. Shreekanthappa Gaddad</b> Designation & Organization: <b>Principal Delivery Project Manager, MSFT, Dallas</b> Years of Exp: <b>30</b>	6:00PM to 7:30PM <b>Session 7</b> Topic: <b>Use Cases in Healthcare</b> Name of the Expert: <b>Mr. Venkatesh</b> Designation & Organization: <b>Senior Technical Program Manager, Amazon, Austin</b> Years of Exp: <b>30</b>	6:00PM to 7:30PM <b>Session 9</b> Topic: <b>Natural Language Processing</b> Name of the Expert: <b>Dr. Krishnendu Ghosh</b> Designation & Organization: <b>Assistant Professor, IIT Dharwad</b> Years of Exp: <b>12</b>	2:00PM to 3:30PM <b>Session 11</b> Topic: <b>Technical Challenges</b> Name of the Expert: <b>Mr. Ramana Reddy</b> Designation & Organization: <b>Senior Consultant, iNube Software Solutions , Bengaluru</b> Years of Exp: <b>17</b>
6:30PM to 8:00PM <b>Session 1</b> Topic: <b>Introduction to Generative AI</b> Name of the Expert: <b>Mr. Vishal</b> Designation & Organization: <b>Vice President, iNube Software Solutions, Bengaluru</b> Years of Exp: <b>18</b>	7:30PM to 9:00PM <b>Session 4</b> Topic: <b>Applications of Generative AI</b> Name of the Expert: <b>Dr. Ravi Shankar</b> Designation & Organization: <b>Senior Consultant, iNube Software Solutions , Bengaluru</b> Years of Exp: <b>20</b>	7:30PM to 9:00PM <b>Session 6</b> Topic: <b>Comparison with Other Models</b> Name of the Expert: <b>Mr. Lavi Nigam</b> Designation & Organization: <b>ML Engineer, Applied AI Engineering group, Google</b> Years of Exp: <b>12</b>	7:30PM to 9:00PM <b>Session 8</b> Topic: <b>Creative Content Generation</b> Name of the Expert: <b>Lakshmi Shastry</b> Designation & Organization: <b>Enterprise Architect, Brillio Technology, Bengaluru</b> Years of Exp: <b>25</b>	7:30PM to 9:00PM <b>Session 10</b> Topic: <b>Future of Generative AI</b> Name of the Expert: <b>Dr. Ravi Shankar</b> Designation & Organization: <b>Senior Consultant, iNube Software Solutions , Bengaluru</b> Years of Exp: <b>20</b>	3:30PM to 5:00PM <b>Session 12</b> Topic: <b>User Interaction with Generative AI</b> Name of the Expert: <b>Mr. Vishal</b> Designation & Organization: <b>Vice President, iNube Software Solutions, Bengaluru</b> Years of Exp: <b>18</b>
8:00PM to 9:30PM <b>Session 2</b> Topic: <b>Gemini Architecture</b> Name of the Expert: <b>Mr. Lavi Nigam</b> Designation & Organization: <b>ML Engineer , Applied AI Engineering group , Google</b> Years of Exp: <b>12</b>	,				5:00PM to 6:30PM <b>Session 13</b> Topic: <b>Prompt Engineering</b> Name of the Expert: <b>Dr. Nataraj K S</b> Designation & Organization: <b>Assistant Professor, IIT Dharwad</b> Years of Exp: <b>14.8</b>
					6:30PM to 7:30PM <b>Online test &amp; feedback</b>
					7:30PM to 8:00PM <b>Valedictory Session</b>

• Participants can sign up and register for free to the FDP in AICTE ATAL website links: <https://www.aicte-india.org/atal>

• There is no charge for Registration, Courses and Certificate