

# Program schedule

## Day - 1 (03-02-2025)

09:30 AM - 10:30 AM Inauguration  
10:30 AM - 10:45 AM Tea break  
10:45 AM - 11:45 AM Basics of NLP  
11:45 AM - 01:00 PM Dimensionality Reduction Techniques & Word Embeddings  
01:00 PM - 02:00 PM Lunch break  
02:00 PM - 03:30 PM Hands-on session-1  
03:30 PM - 03:45 PM Tea break  
03:45 PM - 04:30 PM Hands-on session-2

## Day - 2 (04-02-2025)

09:30 AM - 11:00 AM Fundamental of Gen AI , LLMs  
11:00 AM - 11:20 AM Tea break  
11:20 AM - 01:00 PM Pretrained Vector Models  
01:00 PM - 02:00 PM Lunch break  
02:00 PM - 03:30 PM Hands-on session-1  
03:30 PM - 03:45 PM Tea break  
03:45 PM - 04:30 PM Hands-on session-2

## Day - 3 (05-02-2025)

09:30 AM - 11:00 AM Transformers; Pre-trained models & Hugging Face  
11:00 AM - 11:20 AM Tea break  
11:20 AM - 01:00 PM Lang chain  
01:00 PM - 02:00 PM Lunch break  
02:00 PM - 03:30 PM Hands-on session-1  
03:30 PM - 03:45 PM Tea break  
03:45 PM - 04:30 PM Hands-on session-2

## Day - 4 (06-02-2025)

09:30 AM - 11:00 AM Pydantic models  
11:00 AM - 11:20 AM Tea break  
11:20 AM - 01:00 PM Prompt Engineering  
01:00 PM - 02:00 PM Lunch break  
02:00 PM - 03:30 PM Hands-on session-1  
03:30 PM - 03:45 PM Tea break  
03:45 PM - 04:30 PM Hands-on session-2

## Day - 5 (07-02-2025)

09:30 AM - 11:00 AM Understanding RAG  
11:00 AM - 11:20 AM Tea break  
11:20 AM - 01:00 PM Chatbot Development  
01:00 PM - 02:00 PM Lunch break  
02:00 PM - 03:30 PM Hands-on session-1  
03:30 PM - 03:45 PM Tea break  
03:45 PM - 04:30 PM Hands-on session-2

## About RSST

Managed by Rashtreeya Sikshana Samithi Trust (RSST), RV Educational Institutions envision promoting innovative learning, instil a spirit of enquiry, inducing healthy challenges, encouraging sustainable accomplishments and ensuring enriching rewards to all students, parents, teachers and associates. RSST believes that every individual from each stratum of society needs the education to fulfil their aspirations. Following this belief, Sri. M. C. Sivananda Sarma, a renowned freedom fighter, educator, and administrator laid the foundation of RV Educational Institutions in the year 1940. Today, RV has become one of India's largest educational consortium with 29 institutions and more than 30,000 students to realize the vision of creating an atmosphere of involved learning, RSST successfully established one of its most ambitious projects, RV Institute of Technology and Management (RVITM) in 2019.

## About RVITM

The RV Institute of Technology and Management (RVITM) is a prestigious institution under the RV Educational Institutions, dedicated to preparing students for the world beyond the classroom. RVITM offers undergraduate programs in Computer Science Engineering (CSE), Electronics and Communication Engineering (ECE), Information Science Engineering (ISE), and Mechanical Engineering (ME), as well as a postgraduate program in Master of Computer Applications (MCA). These programs emphasize experiential learning through an ICT-enabled curriculum and are supported by state-of-the-art infrastructure. RVITM is affiliated with Visvesvaraya Technological University in Belagavi and is approved by the Government of Karnataka and the All India Council for Technical Education (AICTE), New Delhi. The institute adopts a holistic approach to education, equipping students to face global challenges effectively. RVITM provides an excellent learning environment with cutting-edge facilities and highly motivated, dedicated faculty members, all aligned with the VTU Curriculum. The institution encourages participation in co-curricular and extracurricular activities for overall development and fosters a research culture among students through supportive mentoring.

## About Department of Computer Science & Engineering

The Department of Computer Science and Engineering, established in 2019, offers a Bachelor of Engineering (B.E.) program affiliated with Visvesvaraya Technological University (VTU) in Belagavi, with an intake of 180 students. Led by Dr. Malini M. Patil, the department features experienced faculty and state-of-the-art laboratories for academic and research purposes. It organizes various activities, including Faculty Development Programs (FDPs), conferences, workshops, expert lectures, and student initiatives. Strong industry connections through Memorandums of Understanding (MoUs) enhance students' professional readiness. Notable achievements include securing two VTU ranks, excellent placement records in top-tier companies, and significant faculty contributions to research published in prestigious journals. The department is committed to developing skilled, industry-ready professionals for the evolving technological landscape.



RV Institute of Technology  
and Management®

# Department of Computer Science and Engineering

organizes

# A Five-Day Faculty Development Program

on

# Generative AI (BAIL657C): Hands-On Learning from Concepts to Applications

03-02-2025 to 07-02-2025

in collaboration with



RV Institute of Technology  
and Management

Sy. No. 171/5, Kothanur, 8th Phase,  
JP Nagar, Bengaluru - 560076, Karnataka, India

080 35095100

www.rvitm.edu.in



Scan Here

Go, change the world

## Chief Patrons

Dr. M P Shyam, President, RSST, Bengaluru  
Dr. (h.c) A.V.S Murthy, Hon. Secretary, RSST, Bengaluru  
Sri. D.P Nagaraj, Joint Secretary, RSST, Bengaluru  
Sri. P S Venkatesh Babu, Hon. Treasurer, RSST, Bengaluru  
Sri. P S Nandakumar, Governing Council Chairman,  
RVITM, Bengaluru

## Patrons

Dr. Nagashetappa Biradar, Principal, RVITM, Bengaluru  
Dr. Manjunath Prasad R, Vice Principal, RVITM, Bengaluru

## Convener

Dr. Malini M Patil  
Professor & Head  
Dept. of Computer Science and Engineering  
RV Institute of Technology and Management

## Coordinators

Dr. Hema M S  
Professor  
Dept. of Computer Science and Engineering  
Email: hemams.rvitm@rvei.edu.in  
Phone: 6363673758

Dr Roopashree S  
Assistant Professor  
Dept. of Computer Science and Engineering  
Email: roopashrees.rvitm@rvei.edu.in  
Phone: 9845715808

## Organizing committee

Mrs. Bhavya Javagal  
Assistant Professor  
Dept. of Computer Science and Engineering,

Mrs. Shridevi Desai  
Assistant Professor  
Dept. of Computer Science and Engineering

## About FDP

The five-day Faculty Development Program (FDP) on Generative Artificial Intelligence (Gen AI) aims to equip educators and researchers with the skills to leverage generative AI technologies. The program covers the core concepts of generative AI, including word embeddings, dimensionality reduction, and vector arithmetic for word relationships. Participants will gain hands-on experience in prompt engineering, sentiment analysis, text summarization, and working with pre-trained models like Hugging Face.

Key learning outcomes include:

- Analyzing word embeddings to identify patterns
- Designing effective prompts for generative AI tasks
- Utilizing pre-trained models for real-world applications
- Understanding transformer architectures

The program will also provide a lab manual for faculty and offer practical solutions for the VTU syllabus on Generative AI (BAIL657C) for the sixth semester. This is a unique opportunity to enhance expertise and stay updated with AI advancements

## FDP outcomes

- Develop the ability to explore and analyze word embeddings, perform vector arithmetic to investigate word relationships, visualize embeddings using dimensionality reduction techniques
- Apply prompt engineering skills to real-world scenarios, such as information retrieval, text generation.
- Utilize pre-trained Hugging Face models for real-world applications, including sentiment analysis and text summarization.
- Apply different architectures used in large language models, such as transformers, and understand their advantages and limitations.
- Develop a lab manual for new course “GenAI -BAIL657C” introduced by VTU for sixth semester.

## SCAN TO PAY



Sy. No. 171/5, Kothanur, 8th Phase,  
JP Nagar, Bengaluru - 560076, Karnataka, India

080 35095100

www.rvitm.edu.in

Go, change the world



Scan Here



RV Institute of Technology  
and Management®

## Resource persons

Dr Karthikeyan Saminathan  
Founder CEO & Head - AI  
AIQuantalytics, Bengaluru

Dr M S Satyanarayana  
Manager - Custom Application Development  
Canopus GBS Pvt Ltd., Bengaluru

Mr Sudhakar B  
Advisory Software Engineer  
IBM, Bengaluru

Mr Saran Kirthic S  
AI Analyst  
MathCo, Bengaluru

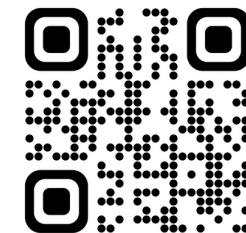
## Who can attend

Faculty members / Research scholars / PG students  
from HEIs / Industry professionals

## Registration details

Registration fee: ₹ 800

## SCAN TO REGISTER



Last date to register: 31-01-2025  
Registration fee includes registration kit, tea, lunch and laboratory manual

For any queries

Email: [fdp.rvitm@rvei.edu.in](mailto:fdp.rvitm@rvei.edu.in); Ph: 6363673758 /  
9845715808