



H. K. E. Society's
Sir M. Visvesvaraya College of Engineering
(Approved by AICTE, Affiliated to VTU, Accredited by NAAC)
Yeramarus camp, Raichur-584135



Department of Electronics & Communication Engineering

One Week Online Faculty Development Program on

AI UNLEASHED: Shaping the Future with Intelligence
8th – 12th September 2025 | 6 PM – 8 PM

The Department of Electronics and Communication Engineering, Sir M. Visvesvaraya College of Engineering (SMVCE), Raichur, under the auspices of **H.K.E. Society**, successfully organized a **One Week Online Faculty Development Program (FDP)** on “*AI Unleashed: Shaping the Future with Intelligence*” from **8th to 12th September 2025**. The FDP aimed at providing faculty and research scholars with exposure to **Artificial Intelligence concepts, tools, and applications** in academic and industrial domains.

Inaugural Session

The program commenced on **8th September 2025 at 6:00 PM** with a formal inaugural ceremony.

- **Chief Patron:** Sri. Shashil G. Namoshi, President, HKE Society, Kalaburagi
- **Patron:** Sri. Nishanth G. Yeli, Governing Council Member, HKE Society & Convener, HKES's SMVCE, Raichur
- **Chairman:** Dr. R. Basawaraja, Principal, SMVCE, Raichur
- **Convener:** Dr. Vishwanath P., Professor & Head, Dept. of ECE, SMVCE

The event was hosted by the coordinators **Prof.Smita C. Chetti, Prof.Jyoti B. K., and Prof.BassammaPatil**, in the presence of faculty members and participants across institutions.

Day-wise Report

Day 1 (08/09/2025)

Topic: *AI Tools for Academicians and Researchers*

Resource Person: **Dr. Abhishek Appaji, Professor, BMSCE, Bengaluru**

This session focused on introducing **practical AI tools** that academicians and researchers can incorporate into their teaching and scholarly work.

- Demonstrations included **Python-based libraries, TensorFlow, and ChatGPT** for text-based applications.

- Participants explored **data pre-processing techniques, model training, and visualization tools**.
- Special emphasis was given to **open-source platforms** that enable cost-effective research.

Outcome: Faculty members were empowered with **hands-on knowledge** of AI tools that can enhance research productivity and classroom engagement.

Day 2 (09/09/2025)

Topic: *AI and its Applications in Various Domains*

Resource Person: Sri. Gurumurthy Arkasali, Bosch, Bengaluru

The first session introduced the participants to the **fundamentals of Artificial Intelligence** and its wide-ranging applications in diverse domains such as healthcare, finance, autonomous systems, and education.

- The speaker elaborated on how **AI is shaping industries**, improving efficiency, and driving innovation.
- Real-world case studies were shared, demonstrating AI-powered automation and predictive analytics.
- Participants gained insights into the **ethical considerations** and **future opportunities** in AI research.

Outcome: Participants developed a strong foundation in understanding how AI is influencing multiple sectors globally.

Day 3 (10/09/2025)

Topic: *AI-Driven Autonomous Vehicles*

Resource Person: Sri. Gurumurthy Arkasali, Bosch, Bengaluru

The third day highlighted the use of AI in **autonomous mobility solutions**.

- Topics included **computer vision, sensor fusion, object detection, and path planning** in self-driving vehicles.
- Case studies from the automotive industry demonstrated how AI ensures **safety, efficiency, and automation**.
- The speaker also addressed **challenges in autonomous mobility**, such as regulatory frameworks and real-time decision-making.

Outcome: Participants gained practical insights into how AI is revolutionizing the **automotive industry**, paving the way for self-driven cars and smart mobility.

Day 4 (11/09/2025)

Topic: *AI in Wireless Communication*

Resource Person: Dr. Ravi Hosamani, SECAB IET, Vijayapura

This session focused on the integration of **AI with wireless communication systems**.

- Key discussions revolved around **5G and beyond networks, spectrum management, and cognitive radio**.
- Participants learned how AI can optimize **resource allocation, signal processing, and network performance**.
- The talk highlighted the future of **intelligent communication systems**, where AI-driven solutions will enhance connectivity in IoT and smart cities.

Outcome: The session enriched participants' knowledge of **AI-enabled communication technologies**, linking theory with futuristic applications.

Day 5 (12/09/2025)

Topic: *AI Aspects of Self-Driven Vehicles*

Resource Person: Sri. Arun Shankar, Continental Autonomous Mobility

The concluding session revisited the field of **autonomous vehicles** with a deeper dive into practical aspects.

- Emphasis was placed on **AI algorithms for navigation, decision-making, and safety assurance**.
- Industry perspectives on deploying self-driven cars in real-world conditions were shared.
- The speaker discussed the **career opportunities and research prospects** for faculty and scholars in this domain.

Outcome: The session reinforced the **multidisciplinary nature of AI**, inspiring participants to explore research collaborations and innovations in mobility.

Valedictory Session

The FDP concluded on **12th September 2025** with a valedictory function. **Dr. Vishwanath P. (HOD, ECE)** presided over the ceremony, extending appreciation to the **resource persons, participants, and coordinators**. Participants expressed their gratitude, noting the FDP was **interactive, informative, and skill-enhancing**.

Key Outcomes of the FDP

- Strengthened **conceptual and practical understanding** of Artificial Intelligence.
- Hands-on exposure to **AI tools, platforms, and applications**.
- Insights into **emerging domains like autonomous vehicles and AI-enabled communication**.
- Encouraged participants to adopt **AI-driven approaches in research and academics**.
- Built a platform for **future collaborations between academia and industry experts**.

The FDP “**AI Unleashed: Shaping the Future with Intelligence**” was a resounding success, empowering faculty and researchers with the knowledge and tools to embrace AI in their academic and professional journeys.