Counselling Code : VBIT

VIGNANA BHARATHI Institute of Technology

(A UGC Autonomous Institution, Approved by AICTE, Accredited by NBA & NAAC-A Grade, Affiliated to JNTUH)

IETE - ISF - VBIT

IETE - ISF VBIT

GEN AI SPARK

The "Gen AI Spark" workshop was organized with the aim of providing students with a comprehensive understanding of Generative Artificial Intelligence and Python-based circuit integration, emphasizing the growing role of AI in modern electronic systems. The session aimed to bridge the gap between traditional circuit design and next-generation intelligent automation, enabling participants to explore how Python can be effectively used for simulating, analyzing, and automating electronic circuits.

The workshop aimed to provide students with an in-depth understanding of Generative Artificial Intelligence while offering practical exposure to developing AI-driven applications using Python and Jupyter Notebook. Students learned to implement Python programs for signal processing, data visualization, and predictive modeling, helping them understand how AI can enhance circuit performance and efficiency. The session includes the demonstration of Wokwi, an online circuit simulator, to demonstrate the functioning of electronic components and their interconnections.

The event proved highly beneficial as it strengthened participants' programming and analytical skills while fostering innovative thinking. By combining Python programming, AI concepts, and circuit simulation, the workshop encouraged students to develop intelligent electronic solutions and inspired them to pursue advancements in AI-assisted electronics and embedded systems development.

- **DATE** : 25th October, 2025.
- **VENUE** : Prerana Hall.
- **NUMBER OF PARTICIPANT** : 95
- **FACULTY COORDINATOR** : Ms. P. Pushpa

DESCRIPTION

- The Event commenced with a formal inauguration ceremony, where faculty members and coordinators welcomed the guest speaker and highlighted the importance of learning emerging technologies such as Python and AI in the present digital era.
- The session was graced by a guest speaker, an experienced professional in Python and AI-based technologies, who delivered valuable insights into various tools and frameworks used in developing dynamic applications.

- Following the inauguration, the workshop proceeded with engaging technical sessions covering topics that offered practical exposure to developing AI-driven applications using Python and Jupyter Notebook. The hands-on approach of the workshop allowed students to gain a deeper understanding of coding concepts and implementation methods.

- During the session, the guest speaker also demonstrated the use of Wokwi, an online circuit simulator, to explain the functioning of electronic components and their interconnections. She provided insights into circuit design and the use of tooltips, helping participants understand how adjustments can influence circuit behaviour and overall performance of the system.

- The guest speaker maintained a highly interactive session, addressing queries and guiding participants through real-time coding examples.

- The workshop witnessed active and enthusiastic participation from the students, who showed great interest throughout the event. Around 95 students took part in the session and gained practical knowledge and confidence in using Python for development.

- The speaker's approachable nature and clear explanations made the learning experience more effective and interactive.

- To mark the conclusion of the workshop, a quiz was conducted by the IETE - ISF VBIT forum for all participants based on the topics covered during the workshop. The quiz served as a quick and engaging way to assess the participants' understanding and retention of the concepts taught.

- The winners of the quiz were appreciated for their performance, with exciting goodies lined up for the winners.

- The event concluded with a closing ceremony, where the coordinators expressed their gratitude to the guest speaker for sharing his expertise and to the participants for their active involvement.

- Overall, Gen AI Spark has been a highly informative and enriching experience, enabling students to enhance their technical skills, develop problem-solving abilities, and gain exposure to the practical applications of Python in the field of Artificial Intelligence.

GLIMPSE OF GEN AI SPARK