



TechVibe 2.0 Report Event Overview

Event Name: Vibe Tech 2.0 Expert Speaker: Pooja Kumawat Mode: Online
Organized by: Circuitology Club, Marwadi University
Date: 18/May/2024

Objective

The expert talk aimed to provide participants with valuable insights into the field of Very Large Scale Integration (VLSI), including the latest industry trends, design methodologies, essential skills, and career opportunities. The session was tailored for students looking to build a strong foundation in VLSI and professionals seeking to enhance their expertise in the domain.

Outcome:

PO1 (Engineering Knowledge): Participants apply engineering concepts and technological advancements to solve real-world challenges in various domains.

PO2 (Problem Analysis): The activity involves analyzing technical problems, evaluating possible solutions, and implementing innovative approaches.

PO6 (The Engineer and Society): TechVibe 2.0 encourages discussions on the societal impact of technology, promoting responsible and ethical engineering practices.

PO9 (Individual and Teamwork): Participants work in teams to develop and present their technical ideas, fostering collaboration and teamwork skills.

PO10 (Communication): The event enhances participants' ability to effectively communicate their technical solutions through presentations and discussions.

PO12 (Life-long Learning): Engaging with emerging technologies and industry trends fosters continuous learning and adaptability to advancements in engineering.

PSO1: The activity enables graduates to identify, analyze, and solve real-world industry problems in areas such as software development, embedded systems, and IoT, enhancing their problem-solving and analytical capabilities.

Session Highlights

Introduction & Welcome

The session commenced with an introduction by Dhruv Kumar Vyas, the host of the event, who



welcomed the guest speaker, Pooja Kumawat, and the attendees. The host provided a brief overview of the importance of VLSI technology in modern electronics and its impact on various industries, including semiconductor manufacturing, telecommunications, and artificial intelligence.

Expert Presentation by Pooja Kumawat

Pooja Kumawat delivered an insightful presentation on the latest advancements in VLSI technology, addressing key aspects such as:

Current Trends in VLSI: Emerging technologies, innovations in chip design, and advancements in semiconductor fabrication.

VLSI Design Flow: Understanding the complete process from specification to tape-out, including front-end and back-end design methodologies.

Skills Required for VLSI Industry: Essential programming languages, hardware description languages (HDLs) like Verilog and VHDL, and the importance of hands-on experience with EDA (Electronic Design Automation) tools.

Career Opportunities in VLSI: Various career paths, job roles, and future prospects in the semiconductor industry.

Industry Expectations from Fresh Graduates:

Key competencies and practical skills that companies look for in aspiring VLSI engineers.

Interactive Q&A Session

Following the presentation, an engaging Q&A session was conducted where participants had the opportunity to ask questions directly to the expert. The discussion covered various topics, including:

The significance of FPGA-based prototyping in modern chip design.

How AI and ML are influencing VLSI.

Recommended resources and certifications for students aspiring to enter the VLSI industry.

Internship and job opportunities in semiconductor companies.

Key Takeaways from the Session

The session provided attendees with a comprehensive understanding of:

The role of VLSI in advancing technology.

How to develop essential skills and stay updated with industry advancements.

Strategies for securing internships and job opportunities in VLSI.

The importance of continuous learning and research in the field.

Closing Ceremony & Memento Presentation

The event concluded with a vote of thanks by the host, Dhruv Kumar Vyas, who expressed gratitude to Pooja Kumawat for sharing her knowledge and insights. A virtual memento was presented to the guest speaker as a token of appreciation. The session ended on an inspiring note, encouraging students to explore and innovate in the VLSI domain.

Audience Feedback & Impact

The event received an overwhelmingly positive response from attendees. Some of the notable feedback points included:

Engaging and informative session: Participants found the discussion insightful and beneficial for career planning.

Clarity in explaining complex concepts: The expert speaker made intricate VLSI concepts easier to understand.

Valuable industry exposure: Students appreciated the real-world examples and career guidance provided.

Interactive & well-structured session: The Q&A segment was particularly praised for its relevance and depth.

Recommendations for Future Sessions

Conduct hands-on workshops on VLSI design tools and simulation techniques.



Organize panel discussions with multiple industry experts.
Provide certification-based training sessions for advanced VLSI topics.
Facilitate networking opportunities with VLSI professionals.

Highlights

