



## Workshop Report

on

### “Artificial Intelligence Tools & Industry 4.0 for Innovators”

In continuation of Vikrant University’s commitment towards promoting technology-enabled education, innovation, and faculty development, faculty members from various Schools of the University participated in the online workshop titled “Artificial Intelligence Tools & Industry 4.0 for Innovators,” organised by the Entrepreneurship Development Cell (EDC), Institution’s Innovation Council (IIC), and School of Applied Sciences (SAS) in collaboration with Vinayaka Mission’s Research Foundation. The workshop was designed to provide exposure to emerging digital technologies and their role in transforming education, innovation ecosystems, startups, and entrepreneurial practices.

<b>Academic Year</b>	2025-2026
<b>Activity Driven By</b>	Vinayaka Mission’s Research Foundation, ED, IIC, SAS
<b>Quarter</b>	3rd
<b>Activity Name</b>	Workshop on Artificial Intelligence Tools & Industry 4.0 for Innovators
<b>Program Theme</b>	Empowering Innovation through Artificial Intelligence and Industry 4.0 Technologies.
<b>Program Starts Date</b>	28/02/2026
<b>Program Ending Date</b>	28/02/2026
<b>Number of participants</b>	Faculty members from different Schools of Vikrant University actively participated in the workshop.
<b>Mode of Delivery</b>	Online
<b>Resource Person</b>	Swisstac Bravin P., Technical Project Manager, Things at Web, Sweden & India
<b>Objectives</b>	The primary objective of the workshop was to familiarize faculty members with Artificial Intelligence tools and Industry 4.0 technologies and to understand their applications in innovation-driven education, research, startups, and entrepreneurship development.
<b>Benefits in terms of learning/skill/knowledge development</b>	<ul style="list-style-type: none"><li>• Hands-on exposure to modern Artificial Intelligence development environments.</li><li>• Understanding Industry 4.0 concepts including automation, digital transformation, and smart innovation ecosystems.</li><li>• Practical learning of prompt engineering techniques for effective AI interaction.</li><li>• Exposure to AI-assisted software development tools and intelligent automation workflows.</li><li>• Knowledge enhancement in AI-supported academic research and productivity tools.</li></ul>



	<ul style="list-style-type: none"><li>• Development of innovation and startup ecosystem awareness aligned with global industry practices.</li></ul>
<b>Program Coordinator</b>	Dr. Atul Kumar, Pro Vice Chancellor, VU, Gwalior Dr. Anand Singh Bisen, Director, VU, Gwalior

## **Overall Report of the Activity**

**Date: 28th February, 2026**

**Subject: Online Workshop on Artificial Intelligence Tools & Industry 4.0 for Innovators**

### **Introduction:**

The online workshop was conducted to strengthen faculty competencies in Artificial Intelligence tools and Industry 4.0 technologies aligned with innovation-driven academic ecosystems. The session focused on practical implementation of AI platforms and emerging digital technologies that support modern teaching-learning practices, research development, and entrepreneurship initiatives.

### **Participants:**

Faculty members from different Schools of Vikrant University actively participated in the workshop and engaged in interactive discussions and live demonstrations during the session.

### **Description:**

The workshop delivered a comprehensive overview of Artificial Intelligence applications and Industry 4.0 innovations through practical demonstrations and hands-on learning experiences. The expert speaker introduced participants to real-world AI workflows and modern development environments used globally in innovation and technology sectors.

### **Key highlights included**

- Hands-on exposure to Firebase Studio for AI-enabled application development and deployment environments.
- Demonstration of GitHub Copilot for intelligent coding assistance and productivity enhancement.
- Interactive learning on Custom AI Agent Interaction and automated workflow execution.
- Understanding Emergent AI systems and collaborative intelligent ecosystems.
- Training on effective prompt writing techniques to obtain optimized outputs from AI platforms.
- Practical exposure to Claude AI platform for research assistance, documentation support, and academic productivity enhancement.
- Discussion on integrating AI tools into innovation incubation, startups, and entrepreneurial ecosystems aligned with Industry 4.0.
- The session also encouraged participants to adopt AI-assisted methodologies in academic research, curriculum delivery, and innovation-based project development.



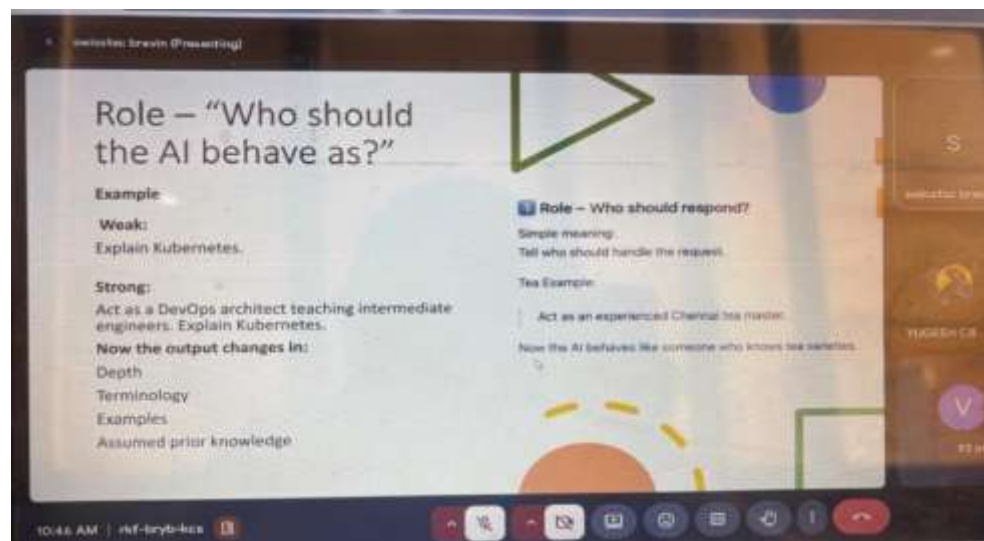
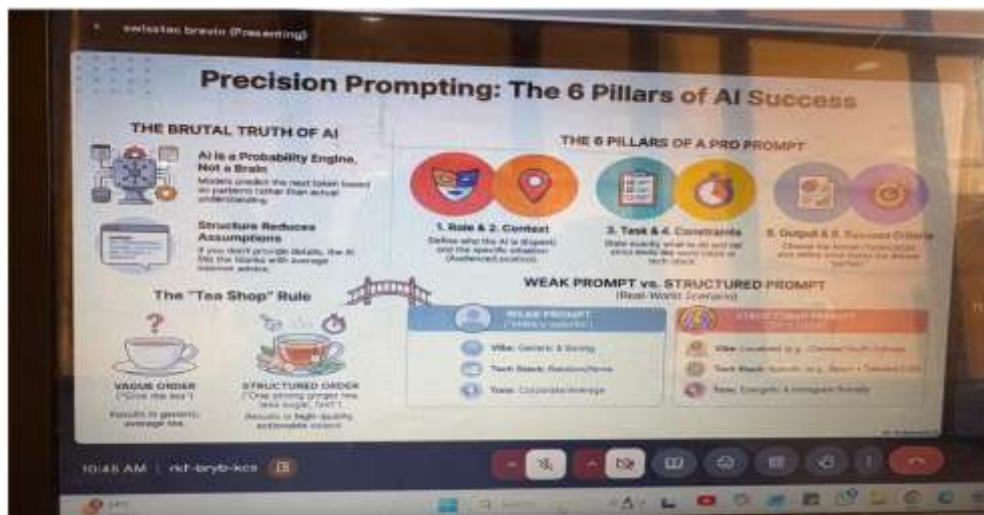
### Outcome of the Activity:

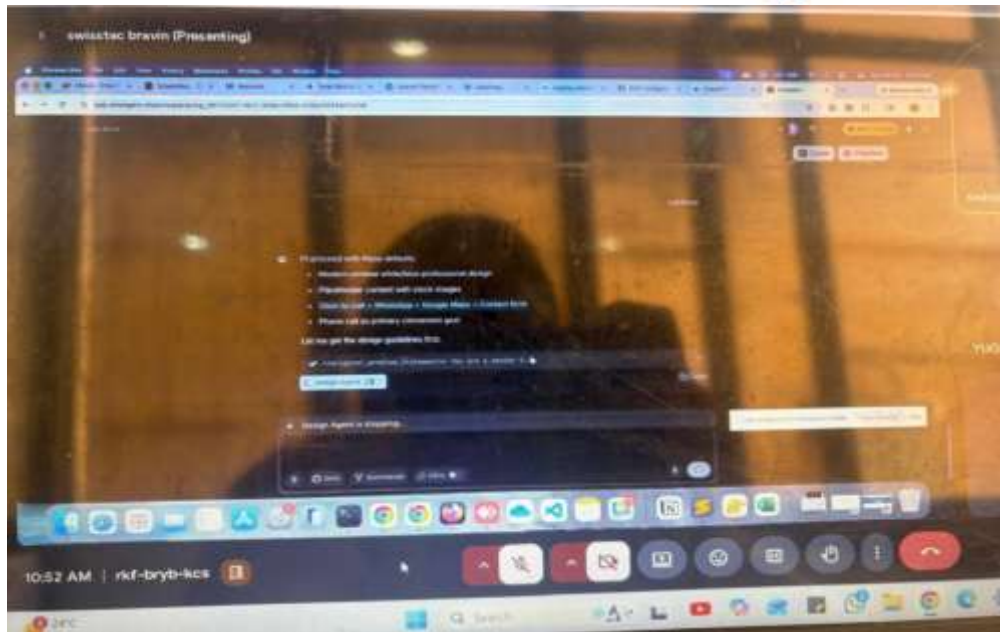
- Enhanced understanding of Artificial Intelligence tools and Industry 4.0 applications.
- Improved faculty capability in prompt engineering and AI interaction strategies.
- Awareness regarding AI-driven innovation ecosystems and startup culture.
- Strengthened skills in AI-assisted research, coding productivity, and intelligent automation workflows.
- Encouragement towards technology-enabled multidisciplinary teaching practices.

### Conclusion:

The workshop proved to be highly informative and beneficial for faculty members by enhancing their understanding of Artificial Intelligence applications and Industry 4.0 technologies. Such initiatives contribute significantly towards faculty capacity building and support Vikrant University's vision of developing future-ready educators capable of integrating advanced technologies into teaching, research, and innovation ecosystems.

### Glimpses:





### Generative vs. Agentic AI: From Creating to Acting

GENERATIVE AI: GENERATIVE AI CREATES	AGENTIC AI: AGENTIC AI ACTS												
<p><b>Creates content &amp; waits for next prompt.</b></p> <p>User-driven Control</p>	<p>Plans and executes multi-step tasks</p> <p>Searches through errors</p> <p>The Intern with Tools Metaphor</p>												
<p>Stopping Criteria: Stops after providing a response.</p>	<p>Stopping Criteria: Stops only when context window size is satisfied.</p>												
<p>Self-corrective: Only if asked.</p>	<p>Self-corrective: Yes, automatically.</p>												
<p>Agents require strict restrictions.</p> <p>Without clear quality/alignment conditions, they learn exclusively on their own.</p>	<p>Increased power brings increased risk.</p> <p>Agentic AI is more dangerous, but excels at complex or multi-step tasks.</p>												
<table border="1"><thead><tr><th>FEATURE</th><th>GENERATIVE AI</th><th>AGENTIC AI</th></tr></thead><tbody><tr><td>Control</td><td>User-driven</td><td>Goal-driven</td></tr><tr><td>Self-corrective</td><td>Only if asked</td><td>Yes, automatically</td></tr><tr><td>Example</td><td>Writes tomorrow's text</td><td>Books, tests, and grades you</td></tr></tbody></table>	FEATURE	GENERATIVE AI	AGENTIC AI	Control	User-driven	Goal-driven	Self-corrective	Only if asked	Yes, automatically	Example	Writes tomorrow's text	Books, tests, and grades you	
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