



VISHNU INSTITUTE OF TECHNOLOGY (AUTONOMOUS)

Department of Computer Science and Engineering

Workshop report on AI & The Future of Teaching & Learning

Workshop Title

AI & The Future of Teaching & Learning

Presenters

- **Dr. Abhinav Dayal**

- Professor, CSE, Dean – Advanced Learning, VITB
- Founder & CTO, Enlignence AI Labs
- Expertise: AI, Deep Learning, Education Technologies, Computer Graphics

- **Dr. Sivakumar Krishnan**

- Director, VEDIC – Vishnu Educational Development and Innovation Centre
- Former faculty at Purdue University
- Expertise: Teaching & Learning, Engineering Education, Project-Based Learning

Audience Profile

Participants included faculty members and researchers from a wide array of disciplines (CSE, IT, AI&DS, ECE, MECH, MBA, BSH, Oral Pathology, Pharmacology, etc.) representing multiple institutions under the Vishnu group and other partner colleges.

Workshop Objectives

By the end of the workshop, participants were expected to:

- Understand the evolution, benefits, and challenges of AI.
- Integrate AI tools into teaching, learning, and research effectively.
- Promote ethical and responsible use of AI in academia.
- Build resilience and adapt to rapid technological transformations.
- Encourage a human-centered, value-driven approach in education amidst AI growth.

Workshop Structure & Highlights

Day 1: Understanding and Integrating AI

- Session 1: Introduction to AI
 - Myths and facts about AI.
 - Comparing Human and AI Intelligence.
 - Ethical considerations and future implications.
 - Highlighted dangers: over-reliance, disinformation, loss of human uniqueness.
- Session 2: AI in Education
 - Case studies from India and abroad showcasing how AI is transforming classrooms, assessments, student support, and administration.
 - Emphasis on personalized learning, AI tutors, intelligent grading, and curriculum development.
- Session 3: Setting Right Expectations
 - Addressed the mismatch between educator expectations and student capabilities.
 - Advocated for transparent communication, bridge programs, and student agency with AI tools.
- Session 4: Change Readiness and Resilience
 - The need for lifelong learning, emotional resilience, and mindful adaptation.
 - Techniques: active learning, spaced repetition, storytelling, mindfulness.

Day 2: Tools, Ethics, and Practical Implementation

- Day 1 Recap: Key takeaways reviewed to consolidate learning.
- Session 5: Using AI Gainfully
 - Ethical data management and AI transparency.
 - Role of educators in resisting passive AI use and becoming active guides and mentors.
 - Highlighted the TEC-21 model and the 4 Pillars of Higher Education.
- Session 6: Exploring AI Tools
 - Demonstrations of tools for course creation, quiz generation, evaluation, research, and multimedia content creation.
 - Participants engaged in hands-on exploration.
- Session 7: Roles and Mindsets
 - Teachers: Shift from content delivery to mentorship and empathy.
 - Students: Move towards personalized, AI-supported learning.
 - Researchers: Use AI for literature review and hypothesis generation.
- Session 8: Imagine Your Tool

- Participants designed AI tools blending automation with human values.
- Presentations highlighted real challenges and innovative solutions.

Major Themes Emphasized

- AI is not a replacement, but a co-pilot in education.
- Future education should be interdisciplinary, flexible, and values-based.
- Institutions must upskill, reskill, and educate about AI literacy and ethics.
- The focus must shift from effort to efficiency, volume to value, and control to collaboration.
- Educators must protect and promote the human element—empathy, creativity, ethics, and social connection.

Participant Activities

- Reflective discussions
- Group assignments using AI tools
- Creation of interdisciplinary teaching plans
- Design of ethical AI usage guidelines
- Scenario-based problem solving and introspection

Conclusion

The workshop successfully enlightened educators about the transformative potential of AI in education while cautioning them against blind automation. It empowered participants with practical tools, ethical frameworks, and a visionary mindset to shape the future of education with AI-augmented humanity.