Association of Indian Universities

Sri Balaji Vidyapeeth

Academic & Administrative
Development Center
(AIU-SBVDU AADC)

Brief Report on

"Artificial Intelligence in Higher
Education Institutions"

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Artificial Intelligence in Higher Education Institutions

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The Association of Indian Universities – Sri Balaji Vidyapeeth (Deemed to be University), Academic and Administrative Development Centre (AIU–SBVDU AADC) successfully organized a Faculty Development Program on "Artificial Intelligence in Higher Education Institutions" from 3rd to 7th November 2025 through online mode. The program aimed to enhance the knowledge and skills of faculty members, researchers, and academic professionals in effectively integrating Artificial Intelligence (AI) into teaching, learning, research, and administration. It provided a valuable platform to explore AI tools, innovative practices, and data-driven approaches for academic excellence and institutional development.

The sessions were delivered by distinguished experts from reputed universities and industries, covering topics such as AI in research, augmented and virtual reality, data-driven decision-making, AI literacy, and institutional quality assurance. Each session offered practical insights to help participants adapt to the evolving digital academic environment. This FDP reflected AIU–SBVDU AADC's vision to build future-ready educators and administrators, promoting ethical and inclusive adoption of AI in higher education.

Objectives of the workshop:
At the end of the FDP, participants will be able to:

- Understand the fundamental concepts and applications of AI in higher education.
- Integrate AI-based tools for effective teaching, learning, and assessment.
- Explore AI-driven approaches to enhance research and innovation.
- Apply AI in academic and institutional administration.
- Utilize AI for data-driven decision-making and quality assurance in education.
- Develop AI literacy to empower educators and students for future-ready learning.
- Promote ethical, responsible, and inclusive use of AI in academia.

AI in Academic Research – Enhancing Knowledge- Dr. K. Jayanthy

Dr. K. Jayanthy, Professor in the Department of Electronics and Communication Engineering at Pondicherry Technological University, delivered an insightful session on "AI in Academic Research: Enhancing Knowledge." She emphasized the growing role of Artificial Intelligence in transforming research methodologies and improving data-driven decision-making in academia and healthcare. Dr. Jayanthi discussed the use of AI tools such as ChatGPT, Semantic Scholar, and Research Rabbit for literature review, research design, and data analysis. She highlighted the importance of ethical and explainable AI to ensure transparency and reduce bias in research outcomes. Using case studies in medical imaging and neurological data analytics, she demonstrated how AI applications can enhance clinical precision and academic innovation, inspiring participants to integrate AI responsibly in teaching and research practices.

De-mystifying Artificial Intelligence For Academic Professionals- Rohit Gupta.

Dr Rohit Gupta is a researcher and academician with extensive experience in biomedical engineering and AI, who shared his work on bridging engineering innovation with clinical applications. The workshop focused on demystifying AI for academic professionals, emphasizing its role in enhancing teaching and learning processes through personalised and manageable tools that align with the National Education Policy 2020. The session covered practical applications of AI tools in academia, including their use for research, teaching, and content creation, while also addressing ethical considerations and demonstrating various AI tools for educational purposes.

Role of IP in Securing Innovations in AI- Dr. Senthil. M.

Dr. M. Senthil, Deputy Director of the Intellectual Property Rights Cell at Sri Balaji Vidyapeeth, Puducherry, delivered an insightful session on "The Role of Intellectual Property in Securing Innovations in AI." He emphasized the significance of integrating IPR awareness within academic institutions to foster innovation, particularly in healthcare and local problem-solving contexts. Dr. Senthil shared his expertise in mentoring scholars and innovators on patent filing procedures and ethical research practices.The session provided an overview of the Technology Readiness Levels (TRL) framework, patenting processes, and technology transfer mechanisms. He highlighted the importance of nurturing an innovation-driven culture in academia and urged India to focus on indigenous solutions and technological self-reliance to accelerate its progress toward becoming a developed nation by 2047.

AI-based Augmented Reality (AR) and Virtual Reality (VR) in Animation- Prof. Saravanan M. S.

Prof. Saravanan M.S., Professor in the Department of Computer Science and Engineering at Saveetha University, Chennai, delivered an insightful session on "AI-based Augmented and Virtual Reality Applications in Animation." He discussed the fundamental concepts of animation and its role in storytelling while highlighting the transformative potential of AI-integrated AR and VR technologies in education and healthcare. Through real-life examples, Prof. Saravanan demonstrated how AR and VR are used in cinema, medical training, and neurorehabilitation to create immersive and interactive learning experiences. He emphasized their value in academic research and practical applications, showcasing live demonstrations of both virtual and augmented reality environments. The session underscored the importance of animation as a powerful tool for engagement, conceptual understanding, and enhanced learning outcomes in higher education.

Artificial Intelligence for Institutional Administration and Academic Operations- Mr. Rajasekar. B

Mr. B. Rajasekar, Partner, Chief Financial Officer, and Chief Operating Officer of Edusphere Software Training and Development Institute, Puducherry, delivered a session on "Artificial Intelligence for Institutional Administration and Academic Operations." He discussed the practical use of AI in streamlining academic and administrative processes, enhancing efficiency, and supporting data-driven decision-making in higher education. Mr. Rajasekar demonstrated various AI tools such as chatbots and content creation platforms, highlighting their applications in academic planning and communication while emphasizing the importance of understanding both the potential and limitations of these technologies for responsible integration into institutional practices.

Developing AI Literacy among Educators and Students: A Strategic Imperative- Mr. Rajesh Kumar.

Mr. Rajesh Kumar Manoharan, Tutor at MGM Advanced Research Institute, Sri Balaji Vidyapeeth, Puducherry, delivered a session on *"Developing AI Literacy among Educators and Students: A Strategic Imperative."* He discussed the importance of AI literacy in empowering educators and learners to effectively utilize emerging technologies in academic and research settings. Mr. Rajesh Kumar explained how AI can be integrated into teaching, learning, and assessment to promote digital competency, innovation, and critical thinking. He emphasized the ethical and responsible use of AI tools and highlighted their role in enhancing personalized learning and institutional development. The session concluded with insights on fostering an AI-ready academic environment through continuous faculty development and student engagement in technology-driven education.

AI And Quality Assurance: A Tool For Accreditation, Compliance and Institutional Improvement – Mr. Pragadeeswaran.

Mr. Pragadheeswaran, Head of Research and Development at Aries Biomed Technology Pvt. Ltd., Coimbatore, delivered a highly informative session on the applications of Artificial Intelligence (AI) in healthcare and medical device development. He discussed the integration of AI in quality assurance, accreditation, and compliance, emphasizing its role in improving product reliability, safety, and performance. The session provided valuable insights into the differences between ISO 9001 and ISO 13485 standards, highlighting the importance of documentation, audit readiness, and adherence to regulatory requirements in the biomedical field. Mr. Pragadheeswaran also explained how AI can be utilized for predictive analysis, device performance assessment, and quality management, enabling more efficient and accurate outcomes in healthcare technology. He concluded by stressing that while AI enhances innovation and productivity, it must always be complemented by human common sense, ethical responsibility, and sound engineering judgment to ensure safety and sustainability in medical advancements.

Data-Driven Decision Making in Higher Education Using AI and Predictive Analytics- Mr. B. Rajasekar

Mr. B. Rajasekar, Partner, Chief Financial Officer, and Chief Operating Officer of Edusphere Software Training and Development Institute, Puducherry, conducted an engaging session on data-driven decision-making in higher education through the use of Artificial Intelligence and predictive analytics. He emphasized the importance of leveraging data to enhance academic and administrative efficiency, showcasing the role of tools such as Microsoft Power BI in transforming raw data into actionable insights. Mr. Rajasekar explained the significance of open-source data and demonstrated how to identify, extract, and utilize datasets from multiple sources for machine learning and predictive modeling. The session also included a practical demonstration on Power BI, where he illustrated techniques for data transformation, visualization, and dashboard creation. He concluded by highlighting how AI tools can be used to generate synthetic datasets and customize analytics for academic planning, enabling institutions to make informed and strategic decisions based on real-time data insights.

AI Tools for academic Excellence- Dr. Karunakaran.

Dr. D. Karunakaran, Associate Professor in the Department of Mechanical Engineering at Sri Manakula Vinayagar Engineering College, Puducherry, delivered an insightful session on "AI Tools for Academic Excellence" as part of the Faculty Development Program on Artificial Intelligence in Higher Education Institutions. He discussed the practical applications of AI in teaching, learning, and research, highlighting tools that enhance academic productivity and instructional design. Dr. Karunakaran also addressed challenges related to cost, accessibility, and the responsible use of AI technologies in education. The session included discussions on lesson planning and the development of multiple-choice questions (MCQs) for a 30-hour course, emphasizing how AI can streamline curriculum design and assessment. Demonstrations of AI-based tools for research and classroom integration were presented, underscoring their potential to support innovation, ethical practice, and academic excellence in higher education.

AI in Faculty Workload Management and Performance Monitoring Systems - Mr. Rajasekar. B

Mr. B. Rajasekar, Partner and COO of Edusphere Software Training and Development Institute, Puducherry, conducted a session on "Natural Language Processing (NLP) and Its Applications in Academia." He explained key NLP concepts such as tokenization, stemming, and sentiment analysis, demonstrating their use in automating plagiarism detection, resume screening, and academic content processing. Mr. Rajasekar also showcased how AI tools like ChatGPT can generate code and applications with minimal programming effort. The session concluded with an announcement about the upcoming AI in Higher Education Institutions workshop by the Association of Indian Universities and a call for participant feedback.

13.11.25

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