Report on Faculty Development Programme - "Demystifying Cutting Edge Technology"

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This report presents a detailed analysis of the Faculty Development Programme (FDP) "Demystifying Cutting Edge Technology," conducted by the Maharashtra State Faculty Development Authority (MSFDA) from February 3rd to 7th, 2025, in Pune. The FDP aimed to equip faculty with essential knowledge and practical skills in emerging technologies, thereby enhancing pedagogical and research capabilities. The program successfully covered a range of topics, including artificial intelligence (AI) tools, online content integration, sustainable technology, and entrepreneurial perspectives, delivered by expert resource persons. This report evaluates the program's effectiveness and provides recommendations for future initiatives.

In response to the rapid technological advancements impacting education, the MSFDA organized the "Demystifying Cutting Edge Technology" FDP. This program was designed to bridge the gap between emerging technologies and academic practices. This report evaluates the program's success in meeting its objectives and provides actionable insights for future FDPs.

Detailed Programme Analysis:

Day 1: February 3, 2025 - Foundational and Pedagogical Integration:

- 9:45 AM - Inauguration (MSFDA Team): The program commenced with an inaugural session, outlining the FDP's objectives and expectations.
- 10:00 AM - 11:30 AM - "Demystifying Technology and Education" (Sybil Thomas Mam): This session provided a crucial theoretical framework, exploring the intersection of technology and educational practices.
- 2:00 PM - 3:30 PM - "Fun of Doing Science" (Arvind Gupta Sir): A practical session focused on enhancing science pedagogy through engaging, hands-on activities.
- 3:45 PM - 5:15 PM - "Demystifying Technology" (Vivek Sawant Sir): This session broadened participants' understanding of current technological trends and advancements.

- 5:15 PM - 6:00 PM - "Integration of Content in Online Mode" (Kalyani Gokhale Mam): This session addressed the practical aspects of integrating content for effective online education.

Day 2: February 4, 2025 - Artificial Intelligence and Practical Application:

- 9:15 AM - 10:00 AM - "Integration of Content in Online Mode" (Kalyani Gokhale Mam): Continuation of online content integration discussions.
- 10:00 AM - 5:10 PM - "Introduction to AI Tools for Teaching and Research" & "Hands-on with AI-Powered Tools" (KK Roy Sir): A comprehensive exploration of AI tools, including practical lab sessions for hands-on experience and assessment-specific applications.

Day 3: February 5, 2025 - Sustainable Technology and Entrepreneurial Perspectives:

- 8:15 AM - 2:00 PM - "Sustainable Technology - Industrial Visit" (Vishal Sardeshpande Sir): An experiential learning opportunity, providing insights into sustainable technology practices.
- 3:30 PM - 5:00 PM - "Cutting Edge Technology with Entrepreneurship Perspective" (Vigyan Aashram Team): This session explored the entrepreneurial potential of emerging technologies.

Day 4: February 6, 2025 - Industry Collaboration and Generative AI:

- 10:00 AM - 1:15 PM - "Industry Academia Partnership" & "Generative AI (Lab Session)" (Amol Randive Sir): Sessions focused on fostering industry-academia collaborations and providing practical experience with generative AI tools.
- 2:00 PM - 3:30 PM - "Design Thinking Approach" (Acharya Sir & Shivani Mam): Introduction to design thinking methodologies.
- 5:15 PM - 6:00 PM - "MSFDA Brief" (MSFDA Team): An informative session from the organizing authority.

Day 5: February 7, 2025 - Online Integration, Intellectual Property, and Conclusion:

- 10:00 AM - 1:15 PM - "Integration of Content in Online Mode": Further training on online content integrations.
- 2:00 PM - 3:30 PM - "IPR/Creative Commons" (Sanjay Chakane Sir): A session addressing intellectual property rights and creative commons.
- 3:40 PM - 5:15 PM - Valedictory (MSFDA Team): Concluding ceremony.

Key Outcomes and Evaluation:

- Enhanced AI Literacy: Participants demonstrated improved understanding and practical skills in utilizing AI tools for teaching and research.
- Improved Online Pedagogy: Faculty members gained valuable insights into effective online content integration.
- Increased Awareness: The FDP raised awareness of sustainable technology practices and entrepreneurial opportunities.
- Industry-Academia Collaboration: Participants gained understanding of the importance of industry-academia partnerships.
- IPR Knowledge: Increased understanding of intellectual property rights.
- The hands on lab sessions were very well received.

The "Demystifying Cutting Edge Technology" FDP effectively achieved its objectives, providing faculty members with valuable knowledge and practical skills. The MSFDA's initiative is highly commendable, and the recommendations outlined in this report will contribute to the continued improvement of future FDPs.