

Report on Online Faculty Development Programme (FDP)

Topic: *Harnessing the Power of Humans and Machines: The Evolution from Industry 4.0 to Industry 5.0*

Date: 24th March to 31st March 2025

Mode of Delivery: Online via Google Meet

Total Number of Registrations: 70

Total Number of Sessions Conducted: 08

Registration Fee: ₹500 per Participant

Honorarium for Resource Persons: ₹2000 each (8 Resource Persons)

Introduction:

The Faculty Development Programme (FDP) titled "Harnessing the Power of Humans and Machines: The Evolution from Industry 4.0 to Industry 5.0" was organized to introduce faculty members to the evolving dynamics between human capabilities and technological advancements, particularly in the context of Industry 4.0 and 5.0. The objective was to explore how these advancements are reshaping industries and how faculty can integrate these concepts into their teaching and research.

The event was held online via Google Meet, with a total of 70 registrations. The programme included eight expert sessions delivered by distinguished resource persons, each covering various aspects of Industry 4.0 and Industry 5.0. The total registration fee was ₹500 per participant, and an honorarium of ₹2000 was provided to each of the eight resource persons.

Financial Overview:

- **Total Registrations:** 70
- **Registration Fee per Participant:** ₹500
- **Total Revenue from Registrations:**
 $₹500 \times 70 = ₹35,000$
- **Honorarium for Resource Persons:**
 $₹2000 \times 8 = ₹16,000$
- **Total Expenditure on Honorarium:** ₹16,000
- **Remaining Funds (after honorarium):**
 $₹35,000 - ₹16,000 = ₹19,000$

Resource Persons and Sessions:

The event featured eight resource persons who delivered insightful sessions on various aspects of Industry 4.0 and 5.0. Each session was carefully crafted to provide a deeper understanding of the technologies and concepts shaping the future of industries and education.

1. Dr. Sudipto Bhattacharya

Topic: Industry 5.0: A Paradigm Shift in Business and Management - Understanding the transition from Industry 4.0 to 5.0, Human-centric innovation in business strategies,

Impact on global markets and emerging economies

Dr. Bhattacharya has provided us with a fresh perspective and greater clarity on how we, as educators and professionals, can prepare for this new era of human-machine collaboration. We are grateful for your inspiring words and for enriching us with your wisdom. The session also addressed how these technologies have transformed industries and education.

2. **Prof. Dr. Sachin Kadam.**

Topic: Academics 5.0 - Transform the Teaching-Learning Process, Academic Administration and Research using Generative AI

Prof. Dr. Sachin Kadam explored the role of AI and ML in Industry 4.0 and provided deep insights into the evolving relationship between humans and machines in the context of Industry 4.0 and 5.0.

3. **Dr. Seema Sant**

Topic: Human-Machine Collaboration in the Workplace

Dr. Seema Sant discussed how machines and humans can work together in a collaborative ecosystem within smart manufacturing environments. The session included practical examples from industries.

4. **Dr. Aarti Joshi**

Topic: Sustainability and Ethical Business Practices in Industry 5.0

Dr. Joshi aligned sustainability and ethical practices with current industry needs and also shed light on how these principles will shape the business world moving forward. The session emphasized integrating ethical values with cutting-edge technology in Industry 5.0 is for creating responsible business leaders of tomorrow.

5. **Mr. Rajendra Deshpande**

Topic: Business Value Development Perspective in Multidisciplinary Education and Sustainable development.

Mr. Deshpande explained the intricate connections between business growth, education, and sustainability.

6. **Prof. Dr. Kaminiben Shah**

Topic: Digital transformation

Dr. Shah addressed integration of digital technologies into all areas of a business or organization, fundamentally changing how they operate and deliver value.

7. **Dr. Shetty Sharankumar**

Topic: Success and Failure of Start-ups in VUCA world

Dr. **Shetty** discussed how educational institutions can prepare for the transition into Industry 5.0, with a focus on curriculum updates, industry-academic collaborations, and enhancing students' skill sets to align with evolving industry needs.

8. **Mr. Mahesh Gokhale**

Topic: Industry 5.0 and Future Job Roles: Preparing Students

Mr. **Gokhale** concluded the sessions by exploring the future of work, where humans and machines coexist and collaborate. The session provided insights into how industries will increasingly rely on human-machine synergy, enhancing both productivity and creativity.

Participant Engagement and Interaction:

Throughout the programme, participants were actively engaged in Q&A sessions after each presentation. This provided a platform for them to clarify doubts, share their experiences, and discuss how the topics covered could be applied to their teaching or research areas. Additionally, discussions were held to gauge the participants' understanding of the content and to encourage deeper participation.

Feedback:

The feedback from participants was overwhelmingly positive, with many expressing appreciations for the well-structured sessions, the clarity of the topics presented, and the practical examples shared by the resource persons. The majority of the participants felt that the programme equipped them with valuable knowledge that would be useful for their professional development and teaching.

Conclusion:

The Online Faculty Development Programme on "*Harnessing the Power of Humans and Machines: The Evolution from Industry 4.0 to Industry 5.0*" was successfully conducted with the active participation of 70 registered participants. The eight expert sessions delivered a comprehensive understanding of the technological advancements in the field, emphasizing the collaboration between humans and machines. The feedback received indicated that the participants found the sessions informative and engaging, equipping them with the knowledge to prepare for future technological shifts in academia and industry.

The FDP successfully met its objective of introducing faculty members to the paradigm shift from Industry 4.0 to Industry 5.0 and provided them with the tools to integrate these concepts into their professional practices.

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