Report on Faculty Development Programme (FDP)
"AI Integration in Teaching and Entrepreneurship: Transforming Learning and Innovation"
organised by Human Resource and Development Cell (HRDC), Integral University

The Human Resource Development Centre (HRDC), Integral University, organized a Faculty Development Programme (FDP) titled **"AI Integration in Teaching and Entrepreneurship: Transforming Learning and Innovation"** from 25th February 2026 to 7th March 2026. The objective of this programme was to disseminate the knowledge and skills acquired by faculty members who attended a similar FDP held at **IIT Delhi on 5–6 January 2026**. The initiative aimed to share these insights with other faculty members of Integral University, thereby enabling them to explore and utilize various Artificial Intelligence (AI) tools that can support teaching, entrepreneurship, and innovation.

The FDP conducted at IIT Delhi was well designed and effectively organized by the Integral Start-ups Foundation (ISF), and Human Resource Development Centre (HRDC), providing participants with valuable exposure to a range of AI-based tools and their applications in academia. To extend the benefits of that programme to a wider academic audience, the faculty members who attended the IIT Delhi FDP were invited to serve as resource persons for the FDP organized at Integral University. The specific objectives included:

- Introducing faculty members to modern AI tools and digital platforms that support teaching and research.
- Providing hands-on training on tools such as Microsoft 365 Copilot, GitHub Copilot, and Power BI.
- Enhancing the ability of faculty members to integrate AI technologies into classroom teaching and course delivery.
- Promoting innovation and entrepreneurial thinking through the use of AI-driven applications.
- Strengthening digital literacy and technological adaptability among faculty members.
- Encouraging collaborative research and data-driven decision-making using AI-based analytical tools.

Through these objectives, the program aimed to create a strong foundation for technology-enabled teaching and learning within the university.

To ensure effective delivery of the content along with practical learning, the programme focused on three major thematic areas: Microsoft Office 365 Co-pilot, GitHub Co-pilot, and Power BI**.** The FDP was conducted in two phases**:**

1. **Online presentation sessions** to introduce the concepts and tools.
2. **Hands-on training sessions** to provide practical experience.

The resource persons were divided into **three thematic groups**, each led by a team leader. The composition of the groups is as follows:

Microsoft Office 365 Co-pilot

- **Dr. Asif Khan (Team Lead),** Department of Computer Application
- Dr. Syed Bilal Hasan**,** Director, IMSR
- Dr. Tasneem Ahmed (FDP Coordinator), Department of Computer Application
- Dr. Mohammad Akbar, Department of Computer Science & Engineering
- Dr. Roshan Jahan, Department of Computer Science & Engineering
- Dr. Mohammad Suaib, Department of Computer Science & Engineering
- Dr. Poonam Sharma, Department of Bioengineering
- Dr. Firoz Husain, Integral Business School

GitHub Co-pilot

- **Dr. Mirza Ghazanfar Beg (Team Lead),** Department of Computer Science & Engineering
- Dr. Khawaja Osama, Department of Bioengineering
- Dr. Anum Kamal, Department of Computer Science & Engineering
- Mr. Mohd Asim, Department of Civil Engineering
- Ms. Mariyam Kidwai, Department of Computer Science & Engineering

Power BI

- **Dr. Mohd Usman Khan (Team Lead),** Department of Computer Science & Engineering
- Dr. Malik Mobeen Ahmad, Integral Institute of Agricultural Science and Technology
- Mr. Faraz Hasan Qadri, Department of Civil Engineering
- Mr. Faizan Mahmood, Department of Computer Application
- Dr. Mohammad Aamir Qayyoom, Department of Mathematics
- Dr. Nazia Akhlaq, Integral Business School

Each group prepared a detailed lesson plan and instructional content to ensure effective delivery and practical engagement during the sessions. The teams conducted online presentations via the Zoom platform**,** introducing the respective AI tools. The presentations were organized as follows:

- **Microsoft Office 365 Co-pilot** – 25 February 2026
- **GitHub Co-pilot** – 26 February 2026
- **Power BI** – 27 February 2026

Following the online presentations, comprehensive hands-on training sessions were organized in across multiple venues (i.e. CA Lab-3, CA Lab-5, CSE Lab-6, BT-1 and BT-14) on 5th, 6th and 7th March 2026 within the university and included sessions specifically tailored for different departments. The hands-on sessions for the faculty members of Phase III were conducted by Dr. Firoz Husain and Dr. Nazia Akhlaq in IBM Lab A1-001 and CADD Lab B1-004 of the Phase III campus. The detailed of the programme is attached in the Annexure I. The objective of these sessions was to provide faculty members with practical exposure to the AI tools introduced during the online presentations. These sessions were conducted department-

wise in multiple shifts, enabling faculty members from different academic units to participate conveniently.

During the FDP, the sessions on **Microsoft 365 Copilot** focused on demonstrating how AI-powered tools can enhance teaching, research, and everyday academic productivity. Faculty members learned the following topics:

- AI Fundamentals and Applied Learning
- Generative AI and No-Code / Low-Code Productivity Tools
- Creating AI Agents using Microsoft 365
- AI in Teaching, Assessments, and Content Creation
- Report Creation and Visualization in Power BI

Participants gained practical understanding of using Co-pilot to automate routine tasks, generate insights from data, and collaborate effectively in digital environments. Overall, the session helped faculty members understand how AI-enabled productivity tools can support smart classrooms, improve teaching effectiveness, and align digital learning practices with modern higher-education frameworks such as NEP 2020**.**

In the sessions on **GitHub Co-pilot**, faculty members were introduced to an AI-powered coding assistant developed by GitHub in collaboration with OpenAI. Faculty members learned the following topics:

- Introduction & Fundamentals of GitHub Co-pilot
- Its Core Usage & Workflows
- Its Advanced Features & Tools
- Prompt Engineering & Best Practices
- Its Practical Applications
- Productivity & Workflow Integration
- Responsible & Secure Usage
- Setup & Configuration
- Real Projects & Hands-On Labs

The training helped participants understand how Co-pilot functions as an AI **"**pair programming" assistant**,** offering real-time suggestions for writing, explaining, and improving code within development environments. Faculty members learned how Co-pilot utilizes large language models (LLMs) to interpret prompts and generate relevant code snippets, thereby accelerating routine programming tasks and improving workflow efficiency. The session also demonstrated its academic applications, including creating programming examples for teaching, generating scripts for data analysis in research, preparing programming-based laboratory exercises, and automating documentation tasks. Participants were also introduced to best practices for responsible AI usage, such as reviewing AI-generated code carefully, validating outputs through testing, and ensuring ethical and secure implementation. Overall, the session highlighted how AI-assisted programming tools can enhance teaching, research productivity, and software development**,** while maintaining essential human oversight.

The **Power BI** sessions introduced faculty members to the fundamentals of data visualization and business intelligence**,** demonstrating how raw data can be transformed into meaningful

insights for academic and administrative decision-making. The following topics coverd during the sessions:

- Overview of Microsoft Power BI
- Workflow and Data Pipeline in Power BI (Data Ingestion → Transformation → Modelling → Visualization → Sharing)
- Introduction to Power BI Desktop and Its Usage
- Power BI Service (Cloud-based Reporting and Collaboration)
- Power BI Tools and Platform Components (Desktop, Service, Mobile)
- Power BI Architecture: Building Blocks and Their Relationships
- Data Handling: Datasets, Data Modeling, and Data Transformation (Power Query)
- Data Visualization Techniques (Charts, Tables, Maps, KPIs)
- Report Creation and Dashboard Development
- Publishing, Sharing, and Collaboration in Power BI

The training illustrated how visual elements such as charts, graphs, and dashboards help educators interpret complex datasets and identify patterns or trends effectively. Faculty members also explored the use of Power BI in academic environments, including analyzing student performance, monitoring attendance, evaluating course outcomes, and supporting data-driven decision-making in institutional management. Additionally, the sessions emphasized collaborative features that enable reports and dashboards to be shared across departments, enhancing transparency and communication in educational planning. Overall, the training demonstrated how Power BI can support research analytics, institutional performance monitoring, and evidence-based educational practices, making advanced data analysis accessible even to non-technical users.

Key Outcomes of the Training

The training program produced several positive outcomes for the university and its faculty members. Participants gained valuable exposure to modern AI tools and developed a better understanding of how these technologies can enhance teaching effectiveness and research productivity. Some of the major outcomes of the training include:

- Improved awareness and understanding of AI technologies among faculty members.
- Enhanced digital skills and confidence in using modern productivity tools.
- Increased ability to incorporate AI-driven tools into classroom teaching.
- Greater emphasis on data-driven decision making using analytical platforms such as Power BI.
- Strengthened collaboration among faculty members across departments.
- Encouragement for innovation and entrepreneurial thinking within academic activities.

The training also motivated faculty members to explore new pedagogical approaches that leverage artificial intelligence to improve student learning outcomes.

The FDP successfully enabled faculty members to gain practical knowledge of AI-enabled tools that can significantly improve teaching methodologies, research productivity, and administrative efficiency. Participants acquired hands-on experience in AI-assisted content

creation, programming assistance, and data visualization, which are increasingly important in modern higher education. A total of **403 faculty members** from **30 departments** of Integral University attended the FDP. The details are in Annexure II.

The initiative also encouraged interdisciplinary collaboration and technological adoption among faculty members, aligning the University with emerging trends in AI-driven education and digital transformation**.**

Overall, the programme served as an effective platform for capacity building and knowledge sharing**,** ensuring that the insights gained from the FDP conducted at IIT Delhi were meaningfully disseminated among the wider academic community of Integral University.

The FDP was successfully completed with effective planning, organisation and motivation from **Prof. Syed Aqeel Ahamd, Director, HRDC** and active participation from faculty members across various departments. The event was effectively coordinated by **Dr. Tasneem Ahmad**, Associate Professor, Department of Computer Applications, Integral University.

SDG Alignment of the Programme

This Faculty Development Programme dissemination activity is aligned with the following **Sustainable Development Goals (SDGs):**

• SDG 4 – Quality Education

The programme enhanced the teaching and learning ecosystem by equipping faculty members with knowledge of advanced AI-based tools such as Microsoft 365 Copilot, GitHub Copilot, and Power BI. By strengthening the digital and analytical capabilities of educators, the initiative contributed to improving the quality of higher education and promoting innovative teaching practices.

• SDG 9 – Industry, Innovation and Infrastructure

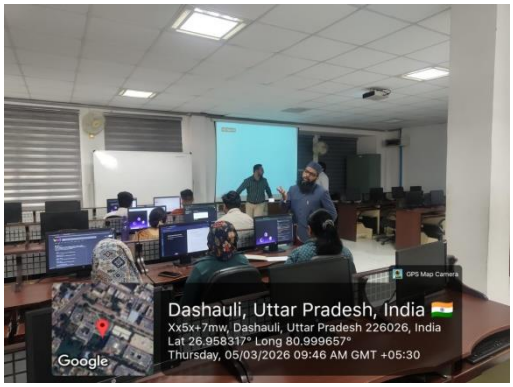
The training promoted the adoption of modern digital technologies and artificial intelligence within academic environments. By introducing faculty members to tools used in data analytics, programming assistance, and digital productivity, the programme supported innovation and technological advancement within the institutional infrastructure.

• SDG 17 – Partnerships for the Goals

The activity represents a collaborative knowledge-sharing initiative stemming from the FDP organized at IIT Delhi. By disseminating the acquired expertise among faculty members across departments of Integral University, the programme strengthened academic collaboration and institutional partnerships for capacity building and knowledge transfer.

Glimpse of the FDP

From Phase I

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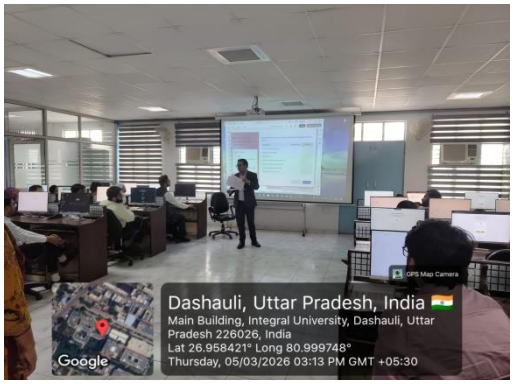
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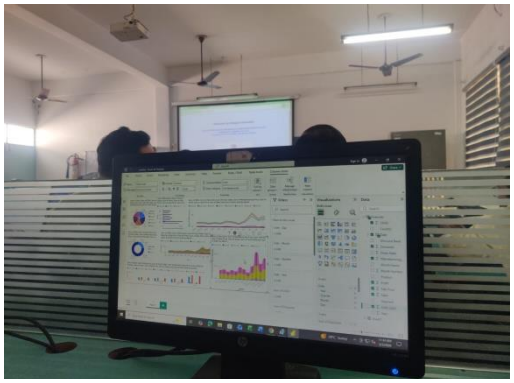

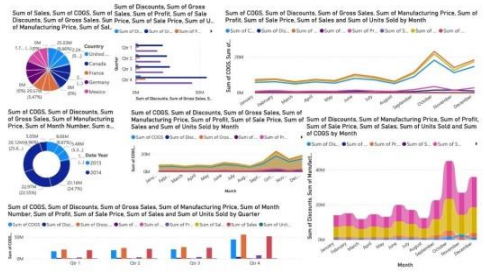


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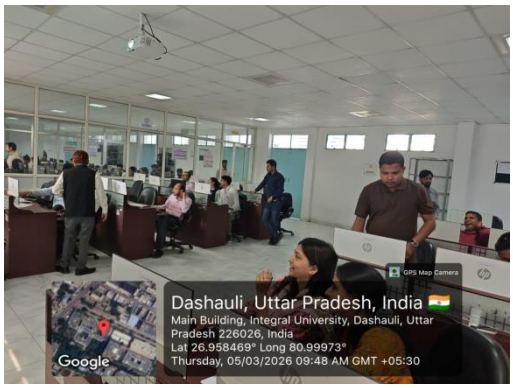
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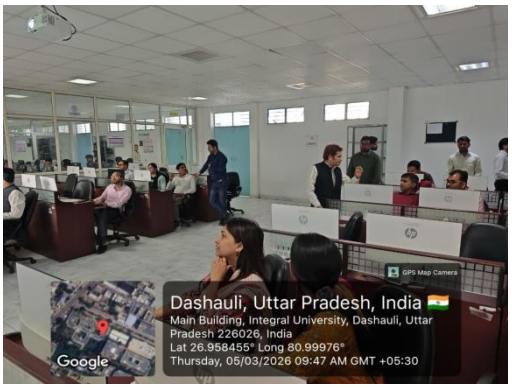
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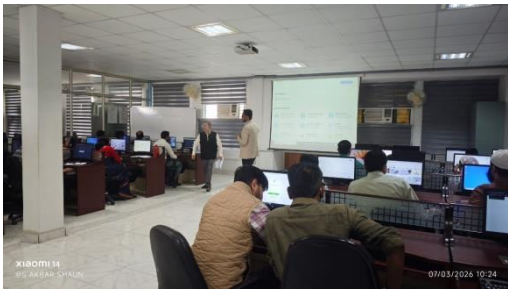
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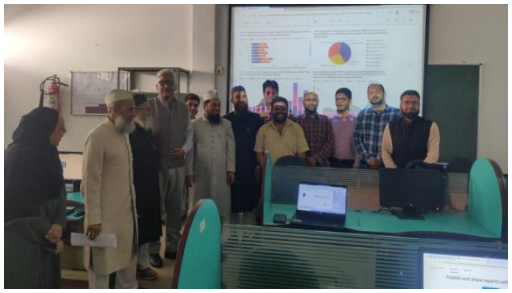


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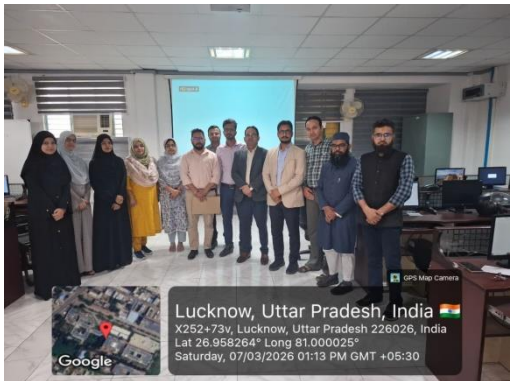

From Phase III