

# **Maharaja Surajmal Institute of Technology**

## **Department of Information Technology**

### **Faculty Development Report (18-22 May 2026)**

<b>Topic Name</b>	<b>Modern Educators AI Toolbox on Productivity Enhancement</b>
<b>Type of Activity</b>	Short Term Course
<b>Name of Expert</b>	Dr. Shano Solanki and Team
<b>Mode and Date</b>	Online, 18 May -22 May, 2026
<b>Target Audience</b>	Faculty Members
<b>Organised By</b>	IT Département; Coordinators: Dr. Meena Siwach & Mr. Surender Singh
<b>No. of Participants</b>	53

A highly motivating and informative One-Week Faculty Development Programme was organized by IT Department from 18-05-2026 to 22-05-2026 on the topic “**Modern Educators AI Toolbox on Productivity Enhancement**” in ICT Mode, conducted by NITTTR, Chandigarh. It was organized with the objective of enhancing the knowledge and professional competencies of faculty members in the emerging domain of Artificial Intelligence (AI) and its applications in education. The program aimed to familiarize educators with innovative AI tools and strategies that can improve teaching effectiveness, academic productivity, research efficiency, and student engagement.

#### **Day-1**

The inaugural session of the FDP was conducted by Dr. Shano Solanki, Associate Professor, Department of Computer Science and Engineering at National Institute of Technical Teachers Training and Research Chandigarh. The session was titled “**Inauguration and Use of AI in Education for Productivity Enhancement.**” During her insightful address, she explained concepts like optimized vacation and detention scheduling using AI. She also highlighted the use of AI in social media marketing and SEO for improving online engagement and visibility. She introduced the participants to AI tools for lesson planning, mind map creation, and presentation designing, enabling educators to develop effective and innovative teaching resources.

The second session was delivered by Dr. Jasneet Kaur, Associate Professor, Department of Computer Science and Engineering at Chandigarh University, on the topic “**Introduction to AI and Digital Pedagogy.**” She started the session with an overview of Artificial Intelligence and its growing impact on modern teaching and learning practices. Dr. Kaur discussed the fundamentals of AI and explained how digital pedagogy can transform traditional classrooms into interactive and technology-driven learning

environments. She highlighted the importance of integrating AI tools in education for personalized learning, student engagement, content development, and assessment methods. She also emphasized the role of digital platforms and smart teaching strategies in enhancing the overall learning experience. Her lecture gave a deep insight into the latest AI and Digital Pedagogical techniques.

The third session, on the topic “**No Coding Tools for AI Applications**”, was conducted by Dr. Amit Doegar, Associate Professor from the Department of Computer Science and Engineering at National Institute of Technical Teachers Training and Research. He focused on introducing participants to modern no-code and low-code platforms that enable users to build AI-based applications without extensive programming knowledge. He highlighted the use of user-friendly AI platforms for tasks such as data analysis, chatbot creation, automation, machine learning model deployment, and application development. He emphasized innovation, digital transformation, and skill enhancement through easy-to-use AI solutions. The session was highly informative and interactive.

## Day-2

The first session for the day was delivered by Dr. Abhishek Kumar, Professor and Assistant Director, CSE at Chandigarh University, on the topic “**AI Tools for Research and Academic Writing**”. He aimed to familiarize participants with the use of Artificial Intelligence tools in academic research, scholarly writing, and publication activities. Various AI-powered tools for literature review, citation management, grammar checking, plagiarism detection, content summarization, and academic writing assistance were introduced by the speaker. Dr. Kumar also explained the ethical use of AI, emphasizing the importance of originality, critical thinking, and responsible research practices. The session provided valuable insights into modern digital research techniques.

The second session was delivered by Mr. Jasjeet Singh, Trainer for UI/UX Design and Digital Marketing at Chandigarh Design School, on the topic “**AI Tools for Lesson Planning, Mind Maps and Presentation Designing**”. He focused on the use of Artificial Intelligence tools to enhance teaching methodologies, creative planning, and presentation development. He introduced various AI-powered platforms that assist educators and students in preparing lesson plans, creating mind maps, and designing visually appealing presentations. The session highlighted how AI tools can save time, improve creativity, and simplify the organization of educational content. Mr. Singh demonstrated practical applications of AI in education and explained the importance of design thinking, visual communication, and user-friendly content creation. The session was highly interactive and informative.

In the third session, the expert lecture was delivered by Mr. Shiv Kumar, Marketing Manager at SD Marketer Zirakpur Mohali, on the topic “**AI Tools for Time Management, Team Management, Activity Scheduling**”. He introduced various AI-powered applications that help individuals and organizations in time management, task prioritization, team coordination, and activity scheduling. He highlighted how AI tools can automate routine tasks, streamline communication, monitor project progress, and enhance workplace efficiency. He demonstrated practical techniques for using digital productivity platforms in professional and academic environments. He showed the participants how AI tools can support better workflow management and reduce manual effort in daily operations. The session was highly interactive and informative.

### **Day-3**

The first session was conducted by Dr. Mala Kalra, Assistant Professor, CSE at NITTTR, Chandigarh, on the topic “**Generative AI and Prompt Engineering**”. Her session focused on the emerging role of Generative Artificial Intelligence and the significance of prompt engineering in creating effective AI-driven solutions. During the session, Dr. Kalra explained the fundamentals of Generative AI and its applications in education, research, content creation, software development, and business automation. She discussed various AI models and tools capable of generating text, images, code, and other digital content. She discussed ethical considerations, responsible AI usage, and the future scope of Generative AI technologies. The session was very helpful and interactive.

The second session was conducted by Dr. Shano Solanki, Associate Professor, Department of Computer Science and Engineering at National Institute of Technical Teachers Training and Research Chandigarh, on the topic “**AI Tools for Digital Content Creation – I**”. Her session focused on the use of Artificial Intelligence tools for creating engaging and innovative digital content across various platforms. Dr. Solanki introduced participants to different AI-powered tools used for content generation, graphic design, video creation, image editing, and multimedia development. She explained how AI technologies are transforming the process of digital content creation by improving efficiency, creativity, and productivity. Her lecture provided insights into modern trends in digital media, automation, and creative design techniques. The session was highly commendable and informative.

The third session was conducted by Dr. Shano Solanki on the topic “**AI Tools for Digital Content Creation – II**” as a continuation from the previous lecture. She emphasised the use of AI in educational content creation, branding, marketing, and online engagement. She showed how AI-based platforms can support content planning, idea generation, automated design suggestions, and multimedia development for different digital platforms. She talked about platforms such as OpenAI’s ChatGPT, Jasper AI, which is widely used for marketing, Grammarly among others. Also, she discussed Adobe Firefly and Canva for digital content creation, Midjourney for creating highly artistic and realistic images from text prompts. She also explained the several advantages of AI tools. It was a useful and informative lecture.

### **Day-4**

The first session was conducted by Mr. Abhilash Chauhan, Data and AI Practice Mentor - Generative and Agentic AI at NIIT, Gurugram, on the topic “**Understanding AI Mechanics, Limitations and Responsible Use**”. He focused on explaining the working principles of Artificial Intelligence, its practical limitations, and the importance of responsible and ethical AI usage. During the webinar, the speaker discussed the fundamentals of AI systems, including machine learning, generative AI, and agentic AI technologies. Mr. Chauhan explained how AI models process data, generate outputs, and support decision-making across different industries. He also highlighted the limitations of AI, such as bias, misinformation, lack of contextual understanding, and dependence on quality data. He discussed issues related to data privacy, transparency, accountability, and the need for human oversight while using AI tools. Overall, it was an insightful lecture.

The second session was conducted by Prof. Maitreyee Dutta, HoD IMEE at NITTTR, Chandigarh, on the topic “**Assessment and Feedback Tools**”. She discussed the use of modern digital tools and AI-supported technologies for effective assessment, evaluation, and feedback in educational environments. During the webinar, Prof. Dutta discussed the importance of continuous assessment and constructive feedback in enhancing student learning outcomes. She talked about various online assessment platforms and feedback tools to help educators design quizzes, assignments, surveys, and performance evaluation activities efficiently. She highlighted how technology-driven assessment methods can improve transparency, accuracy, engagement, and timely feedback in teaching-learning processes. The session was highly informative and interactive.

The last session for the day was again conducted by Prof. Maitreyee Dutta on the topic “**CANVAS LMS**”. She introduced the features, applications, and benefits of the CANVAS Learning Management System (LMS) in modern teaching and learning environments. Prof. Dutta introduced participants to the various functionalities of CANVAS LMS, including course creation, content management, assignment submission, online assessments, grading, and communication tools. She highlighted how the platform supports effective digital learning, student engagement, and collaborative educational practices. She also demonstrated practical methods for organizing course materials, conducting online classes, monitoring student progress, and providing timely feedback through the LMS. Overall, the lecture was beneficial for educators, researchers, students, and academic administrators.

### **Day-5**

The first lecture was delivered by Mr. Abhilash Chauhan, Data and AI Practice Mentor - Generative and Agentic AI at NIIT, Gurugram, on the topic “**AI-Powered Data Analysis and Research Workflows**”. He focused on the use of Artificial Intelligence technologies to improve data analysis, research methodologies, and workflow automation in academic and professional environments. He explained how AI-powered tools can simplify data collection, processing, visualization, and interpretation. He discussed various applications of Generative AI and intelligent analytics platforms to help researchers and professionals manage large datasets, generate insights, and automate repetitive research tasks efficiently. He also highlighted the role of AI in literature review, report generation, predictive analysis, and decision-making processes. Mr. Chauhan demonstrated practical workflows integrating AI tools for research planning, data organization, collaboration, and documentation. The session was highly informative and interactive.

The second session was conducted by Mr. Jasjeet Singh, Trainer for UI/UX Design and Digital Marketing at Chandigarh Design School on the topic “**Introduction to Digital Marketing and Impact of AI Tools**”. He focused on the fundamentals of digital marketing and the growing influence of Artificial Intelligence tools in enhancing marketing strategies and online business growth. The speaker introduced key concepts of digital marketing, including search engine optimization (SEO), social media marketing, content marketing, email marketing, and online advertising. He highlighted how AI-powered tools are transforming the digital marketing landscape by enabling better audience targeting, data analysis, content creation, and campaign optimization. Mr. Singh also discussed real-world examples helping participants understand how businesses are leveraging AI to increase efficiency and achieve better marketing outcomes. The lecture was highly interactive and informative.

The last session was conducted by Mr. Sunil, IT Expert and Mr. Shiv Kumar, Marketing Manager at SD Marketer Zirakpur Mohali, on the topic **“AI in Social Media Marketing and SEO to Digital Marketing and Impact of AI Tools”**. Mr. Sunil focused on the integration of Artificial Intelligence in modern digital marketing practices, especially in social media marketing and search engine optimization (SEO). Mr. Shiv explained how AI tools are transforming digital marketing by improving content creation, audience targeting, keyword research, campaign optimization, and performance analytics. They highlighted the role of AI in enhancing SEO strategies, increasing online visibility, and improving engagement across social media platforms. The lecture was highly insightful and interactive.

Overall, the FDP served as an excellent platform for professional development, knowledge sharing, and technological upskilling. The programme concluded successfully with a quiz, feedback, and evaluation session, leaving the participants motivated to integrate AI-driven tools into their academic and research activities.

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