

**Report on One Week Faculty Development Program (FDP)
Accomplishment of Curriculum Objectives using Free and Open Source Software
(FOSS)”**

09-13 March, 2026

A One Week Faculty Development Program (FDP) on “Accomplishment of Curriculum Objectives using Free and Open Source Software (FOSS)” was successfully organized by Department of Electronics & Communications Engineering, MSIT (Maharaja Surajmal Institute of Technology) from 09-13 March, 2026. The FDP was facilitated by NITTTR, Chandigarh, with MSIT serving as one of the remote centres. 29 faculty members from MSIT registered for FDP

The program was designed with the objective of enhancing the knowledge and technical skills of faculty members in the effective use of Free and Open Source Software (FOSS) for achieving curriculum objectives, improving teaching methodologies, and strengthening research capabilities. In the rapidly evolving academic and technological landscape, the use of open-source tools has become increasingly important for educators to ensure innovative and cost-effective teaching practices.



The FDP brought together academicians and experts who shared their valuable insights on modern technological tools and their application in education. The sessions conducted during the program were highly informative, interactive, and practical in nature. Participants were introduced to various tools, techniques, and concepts that can help in improving the quality of teaching–learning processes and in achieving desired curriculum outcomes.

A special acknowledgement is due to Prof. Rajesh Mehra, NITTTR Chandigarh, who served as the main organizer of the FDP. His dedicated efforts in planning and executing the program ensured that the FDP was well structured and meaningful for all participants. Prof. Mehra also delivered an insightful lecture on “Automation – Overview”, where he explained the significance of automation in modern technological environments. The session included a practical demonstration of the laddemo.exe tool, which helped participants understand how automation concepts can be implemented using suitable software tools. The session was extremely useful in providing a clear understanding of automation techniques and their applications.

Another important session was delivered by Er. Vipin Gupta from U-Net Solutions on the topic of Cybersecurity. In the present digital era, cybersecurity has become a major concern for individuals as well as organizations. During the session, Er. Vipin Gupta discussed various aspects of cybersecurity, including common cyber threats, data protection issues, and safe digital practices. The participants gained valuable awareness about the importance of maintaining security in online systems and safeguarding digital information. The session was highly relevant for faculty members who are increasingly using digital platforms for teaching, research, and academic administration.



In addition to these sessions, the FDP benefited greatly from the valuable contributions of several distinguished resource persons. Er. Ajay Kumar Godara shared his expertise and provided practical insights into the application of technological tools in academic settings. His session added further depth to the understanding of how FOSS tools can be used effectively in teaching and learning processes.

Prof. Meenakshi Sood from NITTTR Chandigarh also delivered an informative session in which she explained various aspects related to curriculum implementation and the effective use of open-source software. Her discussion highlighted the importance of aligning teaching strategies with curriculum objectives and adopting modern tools that support innovative learning environments.

Another important contribution was made by Prof. P. K. Singla from NITTTR Chandigarh, whose session provided valuable perspectives on the integration of FOSS tools in technical education. His insights helped participants appreciate the broader role of open-source technologies in enhancing educational quality and promoting collaborative learning.

Throughout the FDP, the sessions were conducted in an interactive manner that encouraged active participation from the attendees. Faculty members were able to discuss their queries, share their experiences, and explore practical solutions to academic challenges. The demonstrations and hands-on explanations made the sessions more engaging and helped participants develop a deeper understanding of the tools being introduced.

Overall, the One Week FDP proved to be a highly enriching learning experience for all participants. The program successfully achieved its objective of promoting the effective use of Free and Open Source Software (FOSS) in teaching, research, and curriculum development. The knowledge gained during the FDP will certainly help faculty members adopt innovative teaching practices, improve their research work, and enhance the overall quality of education in their institutions.

In conclusion, the FDP organized by NITTTR Chandigarh served as an excellent platform for faculty members to learn about modern technological tools and their applications in education. The insights, skills, and practical knowledge gained during this program will undoubtedly contribute to improving teaching methodologies, curriculum delivery, and research productivity among faculty members.

The participants express their heartfelt gratitude to NITTTR Chandigarh and all the distinguished resource persons for their valuable guidance, inspiring sessions, and continuous support throughout the program.

Dr Shaifali M. Arora
Convenor, FDP

Prof. Neeru Rathee
HOD, ECE