The Short Term Training Program on "Advances In Optical Communication and Technologies" had been successfully organized by Electronics and Communication Engineering Department of Maulana Azad National Institute of Technology from 21st - 25th June 2016. The self financing course had been organized by three faculties of ECE department : Dr. Aditya Goel (Chief Coordinator), Dr. Laxmi Kumre (Coordinator) and Dr. Vijayshri Chaurasia (Coordinator).

The course is designed to draw the attention of young researchers, academicians and industry fraternity towards the latest research & development trends in the field of Advance Optical Communication Technologies. Optical Communication Technologies is swiftly budding as an prominent research domain for realization of future generation high speed optical networks. The 5-days long program has been meticulously designed to endow with a balanced exposure of the major aspects of Fiber optics through theory classes with special emphasis on hands on training and Practical experience on laboratories equipments. The training module also encompasses the demonstration on advance Simulation tools, so as to give exposure to the participants who are interested in pursuing their research work in this area.

The course enlightened the Optical Networks with detailed emphasis on SONET, Burst, Packet Networks and DWDM Optical networks. Subsequently other topics like Photonic devices, Optical fiber sensors and Optical fiber link design had also been given the due coverage. Hands on Practical Experience had also been provided to the participants through Digital and Analog Optical Link, WDM Optical Link, EDFA, Video Link through Optical Communication. The resource person of the course were from industry and academia both. Technical experts from two renowned companies of optical fiber communication had enriched the knowledge of participants Mr. Sushank Chaudhary from Gigasoft Pvt. Ltd., India, and Ms. Kavya and Mr. Keerthi Prasad from *Fiber Optika Pvt. Ltd.,* India. The resource person from academia were Prof (Dr.) Aditya Goel, Professor ECE Department, MANIT, Dr. Anjali Potnis Assistant Professor, National Institute of Technical Teachers and Research (NITTR), Bhopal, Dr. Vijayshri Chaurasia, Assistant Professor, ECE Department of MANIT and Mr. Gaurav Pandey, Researcher in the concerned field. Participants in the course were faculties, research scholars and students from various engineering institutes. Total 32 participants had registered and participated the course. Being self financing course, all the expenditure for conduction of the course was met from the collected registration fee. There was no financial responsibilities on part of the Institute for conduction of program.

The course commenced with Inaugural Function with the benign presence of Head of ECE Department. Technical experts from Gigasoft Pvt. Ltd., along with faculties of various departments of MANIT. The ceremony started with a welcome address of Chief coordinator of the course Dr. Aditya Goel followed by speech of Mr. Sushank Chaudhary and concluded with the speech of



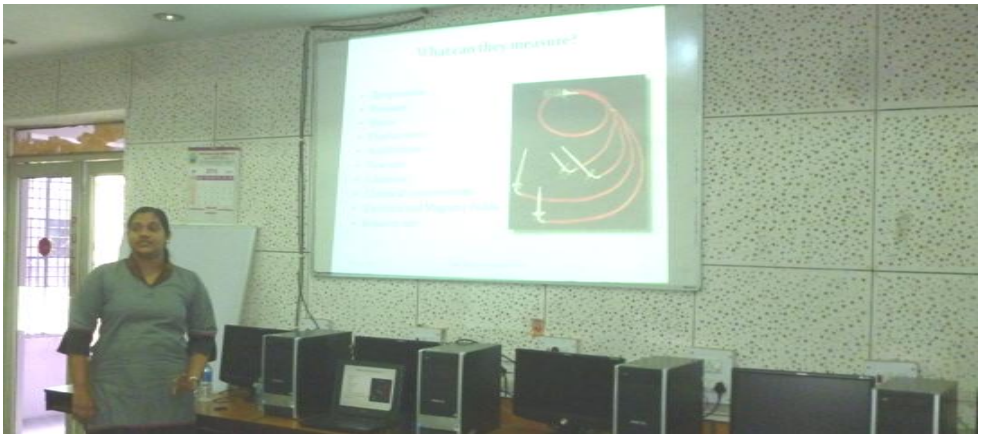
In first session of the course, a key note Expert Lecture entitled 'Optical Networks' was delivered by Prof. (Dr.) Aditya Goel. The lecture has covered all the aspects related to the concerned with due emphasis to Optical, WDM Optical Communication technologies, SONET. The Hands on training in afternoon session of day one was given by Technical expert form Gigasoft Pvt. Ltd. with focus on optical system simulation using Opti-systems.



The day two of STTP was stated with session on 'Optical fiber and network design using Opti-wave' by Mr. Gaurav Pandey. Second session of the day on 'Photonic Devices' was presented by Dr. Vijayshri Chaurasia. In Second half of the day participants were taken out for visit of few places of Bhopal city.

Entire day three and four were delivered and demonstrated by the technical experts from *Fiber Optika Pvt. Ltd.* The Resource person Mr. Keerthi Prasad and Ms. Kavya have provided the hands-on of simulation software 'Light Sim' along with high-end equipment 'Light-Runner' through interleaved lectures and lab sessions.





First two session of the last day were delivered by Dr. Anjali Potnis from NITTR, Bhopal on 'Optical LAN' and 'Optical Sensors'. Both the sessions were very informatory and useful for researchers of the field.



Finally the course was formally wrapped up with Valedictory ceremony, in the presences of distinguished faculty members of ECE department. The chief guest of the function was the Head of ECE department, MANIT, Dr. R.K. Baghel. Valedictory ceremony started with the concluding remarks of Prof. Aditya Goel followed by speech of chief guest. Further, participants have shared their experiences and views about the course. The certificate of participation were distributed to the participants by the chief guest, Dr. R.K. Baghel & Dr. Aditya Goel. The anchoring was done by Dr Laxmi Kumre for the Five day long training session. The Short Term Training Program on 'Advances In Optical Communication and Technologies' was conducted successfully with abundant knowledge transfer and ample facilities. The course content, its delivery and other facilities were rated adequate through verbal as well as written feedback of participants. In concluding part of the ceremony, vote-of-thanks was given by Dr. Laxmi Kumre and the entire course ended in the exquisite evening of 25th June 2017 with Hi-Tea.



Dr. Vijayshri Chaurasia
Coordinator

Dr. Laxmi Kumre
Coordinator

Dr. Aditya Goel
Chief Coordinator