



One Week Training Program

On

"Hands on Training on Microwave & Photonics Related Sophisticated Equipment and Components"

Under

Synergistic Training program Utilizing the Scientific & Technological Infrastructure
An initiative of Department of Science & Technology (DST), Govt. Of India

Organized by

Department of Electronics & Communication Engineering, MNNIT Allahabad, Prayagraj-211004



IIT (ISM) Dhanbad



Department of Science and Techno-
logy
Ministry of Science and Technology
Government of India
DST, Govt of India

One-Week Training Program on "Hands on Training on Microwave & Photonics Related Sophisticated Equipment and Components" (06th June - 12th June, 2022)

The Department of Science and Technology, Government of India, has given the responsibility to IIT (ISM) Dhanbad to build human resources and its knowledge capacity using open access science and technology infrastructure through the scheme "Synergistic Training Program Utilizing the Scientific and Technological Infrastructure (STUTI)". Thus, under DST-STUTI programme of IIT (ISM) Dhanbad, a one-week training program on "Hands on Training on Microwave & Photonics Related Sophisticated Equipment and Components" is organized from 06th June to 12th June, 2022 at MNNIT Allahabad, Prayagraj.

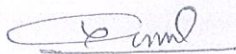
This training program was coordinated by Prof. Yogendra Kumar Prajapati, Prof. Anand Sharma and Prof. Rajendra Kumar Nagaria, MNNIT Allahabad. This program includes thirty participants (Faculty/Research Scholar) from various universities/colleges in India, with no more than three from the same university/college.

Highlights of the Day-1 (Dated: 06th June, 2022)

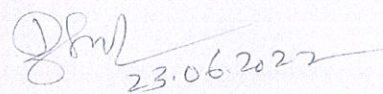
The first day of the training program began with a brief introduction to the program's purpose and significance. The introduction energized the participants' interest in science and engineering. The participants were then given a welcome kit that included a bag, a note pad, a power kit (pen, pencil, eraser, sharpener), and a program pamphlet.

Following that, two consecutive lectures were scheduled, with a relatively short tea break in between. The emphasis of these lectures was on antenna characterization training. The first lecture (from 10:00 AM to 11:15 AM) was delivered by Dr. Ravi Kumar Gangwar, Department of Electronics Engineering, IIT (ISM) Dhanbad and the second lecture (from 11:30 AM to 12:45 PM) was delivered by Dr. Anand Sharma, Department of Electronics and Communication Engineering, MNNIT Allahabad.

Next, after the lunch break, a practical demonstration (from 2:00 PM to 5:00 PM) on antenna characterization was provided by Dr. Anand Sharma, Department of Electronics and Communication Engineering, MNNIT Allahabad.

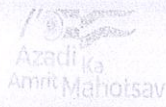


Anand Sharma
23.06.2022


23.06.2022


23/06

Sagar
23/6/22



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Highlights of the Day-2 (Dated: 07th June, 2022)

On the second day, two lectures were given based on HFSS/CST software for antenna design. The first lecture (from 10:00 AM to 11:15 AM) was delivered by Dr. Ravi Kumar Gangwar, Department of Electronics Engineering, IIT (ISM) Dhanbad and the second lecture (from 11:30 AM to 12:45 PM) was delivered by Dr. Pinku Ranjan, IIT Gwalior.

Next, after the lunch break, a lab demonstration (from 2:00 PM to 5:00 PM) on antenna designing was provided by Dr. Anand Sharma, Department of Electronics and Communication Engineering, MNNIT Allahabad.

Highlights of the Day-3 (Dated: 08th June, 2022)

On the third day, two lectures were conducted based on the RF components. These two lectures (the first one from 10:00 AM to 11:15 AM and the second one from 11:30 AM to 12:45 PM) were delivered by Dr. Mukesh Kumar, IIT Indore.

Following the lunch break, a practical demonstration (from 2:00 PM to 5:00 PM) on RF components was provided by Er. Aroop Sagar, Anritsu India Pvt. Ltd.

Highlights of the Day-4 (Dated: 09th June, 2022)

On the fourth day, two lectures were given based on OSA/OTDR. The first lecture (from 10:00 AM to 11:15 AM) was delivered by Dr. Y. K. Prajapati, MNNIT Allahabad and the second lecture (from 11:30 AM to 12:45 PM) was delivered by Dr. Anand Sharma, MNNIT Allahabad.

Next, after the lunch break, a practical demonstration (from 2:00 PM to 5:00 PM) on OSA/OTDR was provided by Dr. Y. K. Prajapati, MNNIT Allahabad.

Highlights of the Day-5 (Dated: 10th June, 2022)

On the fifth day, two lectures were given based on PCB for antenna design. The first lecture (from 10:00 AM to 11:15 AM) was delivered by Dr. Anand Sharma, MNNIT Allahabad and the second lecture (from 11:30 AM to 12:45 PM) was delivered by Dr. Y. K. Prajapati, MNNIT Allahabad.

Next, after the lunch break, a practical demonstration (from 2:00 PM to 5:00 PM) on PCB design was provided by Dr. Anand Sharma, MNNIT Allahabad.

Sagar 23/6/22

RK 23/06

Anand

Anamisham 23.06.2022

23.06.2022



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Highlights of the Day-6 (Dated: 11th June, 2022)

Similarly, on the sixth day, two lectures were given based on AWG (12.5) and tunable laser source. The first lecture (from 10:00 AM to 11:15 AM) was delivered by Dr. Santosh Kumar, Liaocheng University, China and the second lecture (from 11:30 AM to 12:45 PM) was delivered by Dr. Y. K. Prajapati, MNNIT Allahabad.

Next, after the lunch break, a practical demonstration (from 2:00 PM to 5:00 PM) of the tunable laser source was provided by Dr. Y. K. Prajapati, MNNIT Allahabad.

Highlights of the Day-7 (Dated: 12th June, 2022)

Similarly, two lectures based on the experimental setup of SPR sensing were given on the seventh day (the last day of the training program). These two lectures (the first one from 10:00 AM to 11:15 AM and the second one from 11:30 AM to 12:45 PM) were delivered by Dr. R. K. Nagaria, MNNIT Allahabad.

Next, after the lunch break, a practical demonstration (from 2:00 PM to 5:00 PM) on SPR sensing was provided by Dr. R. K. Nagaria, MNNIT Allahabad.

Following that, the certificate distribution took place, followed by a closing speech. Throughout the training programme, a formal discussion environment was established for the exchange of scientific and technological knowledge.

Prof. Sagar Pal
Coordinator (DST-STUT)

Prof. Ravi Kumar Gangwar
Co-Coordinator (DST-STUT)

Dr. Y. K. Prajapati
Program Coordinator

Dr. Anand Sharma
Program Coordinator

Prof. R. K. Nagaria
Chairman & Program Coordinator