

Dr. Akhilesh Das Gupta Institute of Technology & Management

Report on Faculty Development Program “Electromagnetic field – origin, Advantages, and Risks” by Dr Mukesh Khandelwal

- Dated:** 08/10/2021
- Department:** Electronics and Communication Engineering
- Venue:** Auditorium
- Objective:** This FDP aimed to give an in-depth knowledge about Electromagnetic field
- Activities:** ECE Department of ADGITM organized a faculty development program. The event commenced with welcoming all the attendees, and the guest speaker Dr. Mukesh Khandelwal. The CEO , S.N Garg ji and The director of ADGITM , Dr. Sanjay Kumar welcome the guest speaker with the bouquet of flowers and memento. Our guest speaker Dr. Mukesh Khandelwal is working as deputy director, Research and development and faculty at school of engineering at Jawaharlal Nehru University, New Delhi which is one of the top ranked central university as per the National ranking Framework (NIRF).
- He is a senior member of IEEE and has worked on several Research projects in the field of RF and microwave engineering. He has published more than 40 SCI journals including IEEE transactions, journals of nature, Elsevier, Wiley, springer and more he has worked immensely on several research projects in the field of RF amplifiers, polarizers, nano materials, meta surfaces, couplers, antenna and many more.
- The session has proposed for two hours, to be categorized in three sections. In the first section, introduction of electromagnetic waves will be discussed followed by the discussion about its origin, generation, types, nature, and other related aspects. In the second section he had discussed about the benefits of electromagnetic wave radiations. The power of electromagnetic radiation is not only used for communicating wirelessly but also it can be used constructively for curing the incurable diseases by eradicating the diseases producing pathogens and microorganism like bacteria, virus, and fungi. In the Last section he has discussed about the hazardous behaviour of the electromagnetic waves. The killing and destructive effects of electromagnetic radiation followed by some prevention techniques.

The guest speaker encouraged the teachers about how it is vital to be up to date with the latest technological advancements and keep broadening their knowledge. Teachers interacted and cleared their doubts about the problems that they were facing while implementing the technologies related to electromagnetic field. He furthermore guided the teachers about the use of technology needs rule and new laws. At last The HOD of ECE department Dr. Niranjana Bhattacharya appreciated and thanked the guest speaker for sharing his wisdom and for taking his valuable time.

Aim of the faculty development program:

1. To make teachers realize the origin of electromagnetic field along with their advantages and disadvantages.
2. To aware teachers of the most common devices that radiates electromagnetic waves.
3. To aware teachers about how we can avoid and reduce EMF intake.

Outcomes:

Teachers interacted and cleared their doubts.

Beneficiaries:

Faculty of ECE department and other departments.

Photographs:



