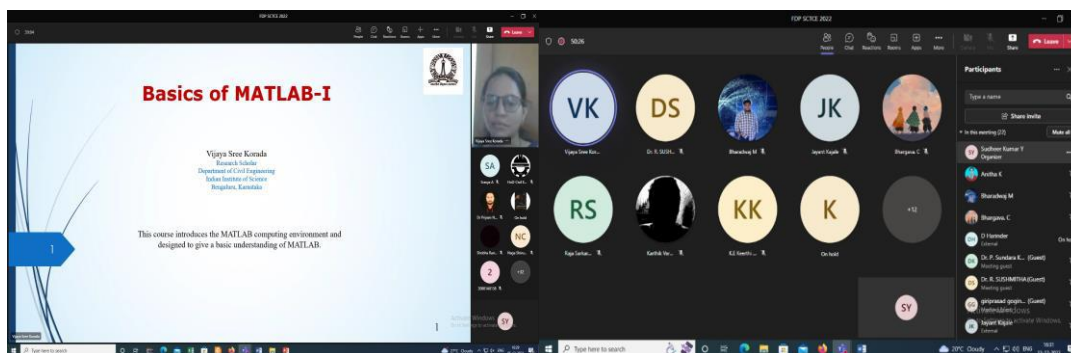**Report on**
Faculty Development Program
on
"Soft Computing Techniques for Civil Engineers"
Organized by
Department of Civil EngineeringDuring 05st
and 12nd December, 2022

Submitted by: Dr. Sudheerkumar Y, Sr. Assistant Professor, Department of Civil Engineering

Attendance: 120 participants (internal & external)

The Department of Civil Engineering organized a Faculty Development Program on Soft Computing Techniques for Civil Engineers through Virtual mode. The inaugural program started at 4:00 PM in Virtual mode with a welcome address to all the audience by Dr. Priyam Nath Bhowmik, Assistant Professor, CE, MITS, Madanapalle. The program was successfully forwarded with encouraging words by Dr. Ramanathan, Vice Principal Academics, MITS and Dr. Dipankar Roy, Head, Dept. of CE.

The resource persons:

Mrs. Vijayashree, PM research Fellow, Dept. of Civil Engineering, IISC Bangalore,
Dr. PV Koteswararao, Asso. Dean IQAC, Vardhaman Engineering College, Hyderabad
Dr. Pranav RT Peddinti, UNIST, South Korea.

The broad objective of this FDP was to introduce different problem-solving computing techniques (MATLAB, Optium G2) for Civil Engineering. These techniques are widely used for many civil engineering applications.
This course will give the basics of MATLAB and Optum G2 concepts with applications. It will help to upgrade the expertise and capabilities of the students and faculty members of various departments of MITS and will generate a climate for research and enthusiasm for academic excellence. The objective of the FDP was to provide the theoretical fundamentals coupled with practical knowledge of MATLAB and Optum G2. The resource persons started the session by extending their hearty thanks to the participants, organizing members, HoD, Principal and Management of MITS Madanapalle for giving them the opportunity to share her knowledge and experience in" MATLAB and Optum G2 for Civil Engineering".

From day one to day eight, **Mrs. Vijayashree** resource person delivered a very informative session on statistical methods used in MATLAB and Optum G2. **Dr. PV Koteswararao** is the second resource person focused on the problem solving techniques by using Ansys and covered the basics of Ansys software. **Dr. Pranav RT Peddinti** from south Korea focused on reliability aspects of pavement design.

The **Eight-day** session was concluded followed by a vote of thanks, given by Convener of the FDP Dr. Sudheerkumar. Y, Sr. Asst. Professor, Department of CE,MITS, Madanapalle.