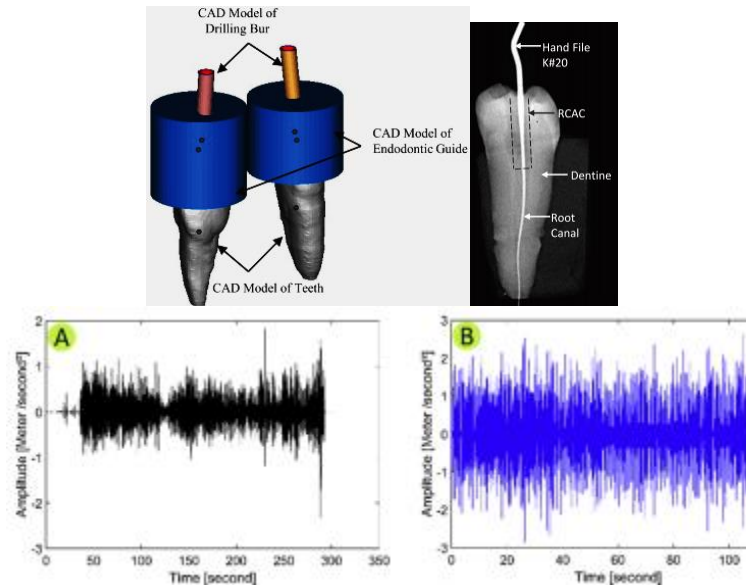TEQIP-III Sponsored Short Term Course on
Programming for Research Applications using MATLAB
(June 29-July 01, 2019)

Course Coordinator
Dr. Pavan Kumar Kankar

Discipline of Mechanical Engineering
INDIAN INSTITUTE OF TECHNOLOGY INDORE

A 3 day short term course has been organized on "Programming for Research Applications using MATLAB". Programming knowledge has become very essential for professionals and researchers to develop simulation models, signal processing, performing analysis, optimization & decision making. Many times, data exchange between different software packages has become necessity to utilize expertise of different software packages and requires a neutral software tool like MATLAB to take the input from software, perform computations and output the results to another software package. MATLAB is excellent tool for visualization and manipulation of engineering data as well as performing various engineering computations.

This short-term course provided the sound fundamental knowledge to the participants on various aspects like programming basics in MATLAB,2D/3D

Plotting visualization Using MATLAB, Data input/output in various format, Frequency and Time-frequency analysis of biomedical signals, Fault Diagnosis of Mechanical components. Participants were given a hand on experience on programming in MATLAB. Total 18 participants attended the course. The participants were from Madhav Institute of Technology and Science Gwalior; SGSITS Indore and IIT Indore.

Prof. Anand Parey, Prof. Rambilas Pachori, Dr. Manish Kumar Goyal and Dr. Pavan Kumar Kankar from IIT Indore, Dr. Prashant Kumar Jain from PDPM IIITDM Jabalpur delivered lectures on various topics related to MATLAB programming and research applications.
The participants feed-back have been collected and they suggested organizing more such courses in future.

Group Photo of Participants