



## **MADHAV INSTITUTE OF TECHNOLOGY AND SCIENCE, GWALIOR (M.P.)**

**(A Govt. Aided Autonomous & NAAC Accredited Institute, Affiliated to R. G. P. V. Bhopal)**

# **TWO-DAY WORKSHOP ON “RESEARCH METHODOLOGY AND APPLICATION OF MATLAB: THEORY AND PRACTICAL”**

**Date: 14 -15 march 2022**

**organised by**

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**Coordinator**

**Convener**

**Dr. Manish Dixit  
Professor & Head CSE  
MITS, Gwalior**

**Dr. Ranjeet Kumar Singh, Assistant Professor.  
Mr. Mahesh Parmar, Assistant Professor  
Dr. Anshu Chaturvedi, Professor.**

**No Registration Fee**

**Expected Participants are PhD Scholar, MTech Students, B.Tech Final Year and  
Interested Faculty**

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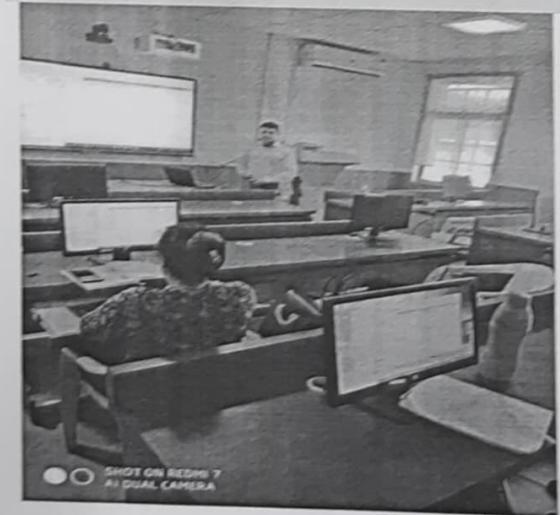
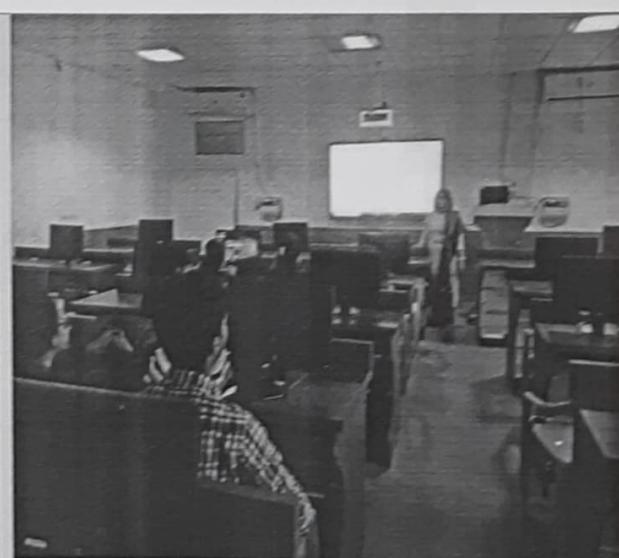
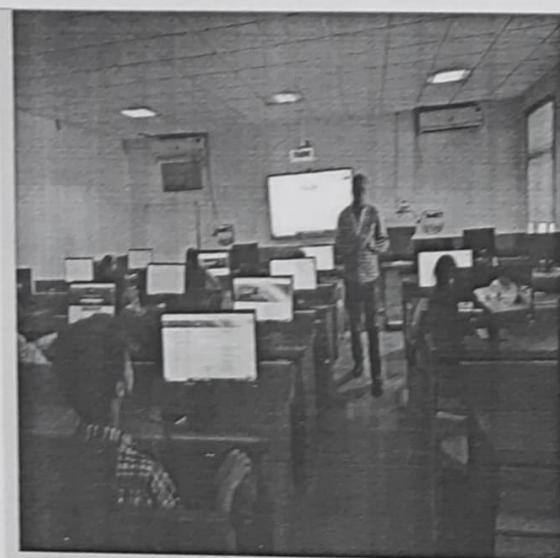
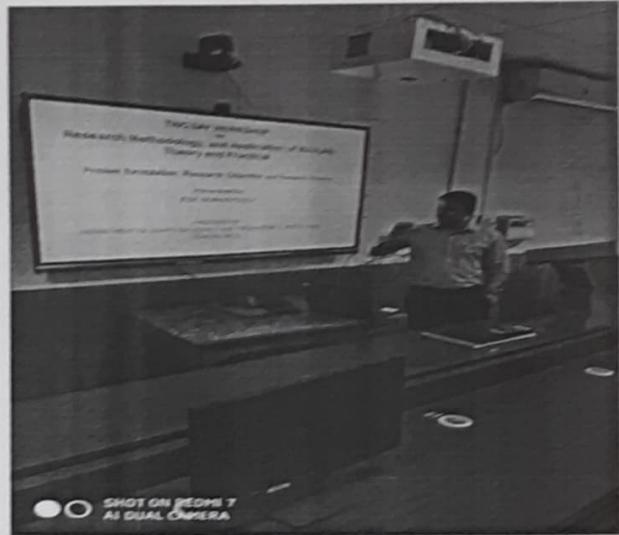
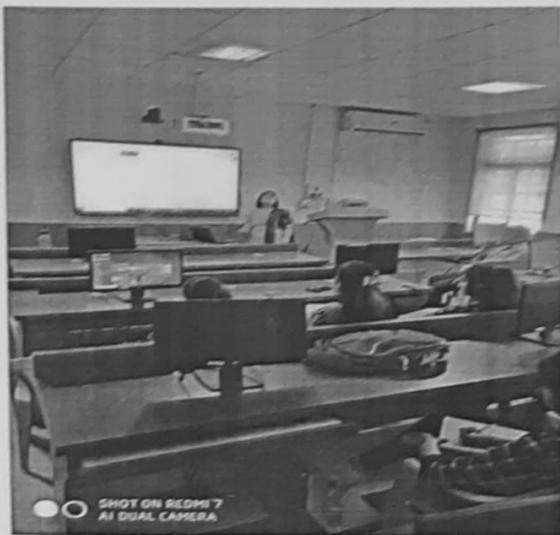
**Department of Computer Science and Engineering****Workshop Report**

Type of activity:	Workshop (Institute level)
Title of the activity:	Two-day workshop on “Research Methodology and Application of MATLAB: Theory and Practical”
Number of participants:	14
Organized by:	Department of CSE and IEEE student chapter, MITS Gwalior
Convener:	Dr. Manish Dixit, Professor & Head
Coordinators:	Dr. Ranjeet Kumar Singh, Assistant Professor. Mr. Mahesh Parmar, Assistant Professor Dr. Anshu Chaturvedi, Professor
Brief description of the activity:	This Workshop is pinioned towards generating and enhancing awareness about how one can do the research and role of MATLAB Simulation in research era. This event is geared to provide understanding and eliminate any bias from your research. The most important theme of this workshop is that students will go through the MATLAB working structure and their importance in research.
Objectives of the activity:	1. To provide understanding fundamentals of research methodology. 2. To analyse various Image processing algorithm with the help of MATLAB Tool.
Outcomes of the activity:	The participants will be able to: 1. Identifying the research area. 2. They are able to implement and test their algorithms easily. 3. Role of MATLAB in Image processing and other applications.
Mode of delivery:	Offline
Platform for conducting the activity:	PPT, Whiteboard, MATLAB Software 7.5

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Professor & HOD  
Department of CSE  
M.I.T.S. Gwalior

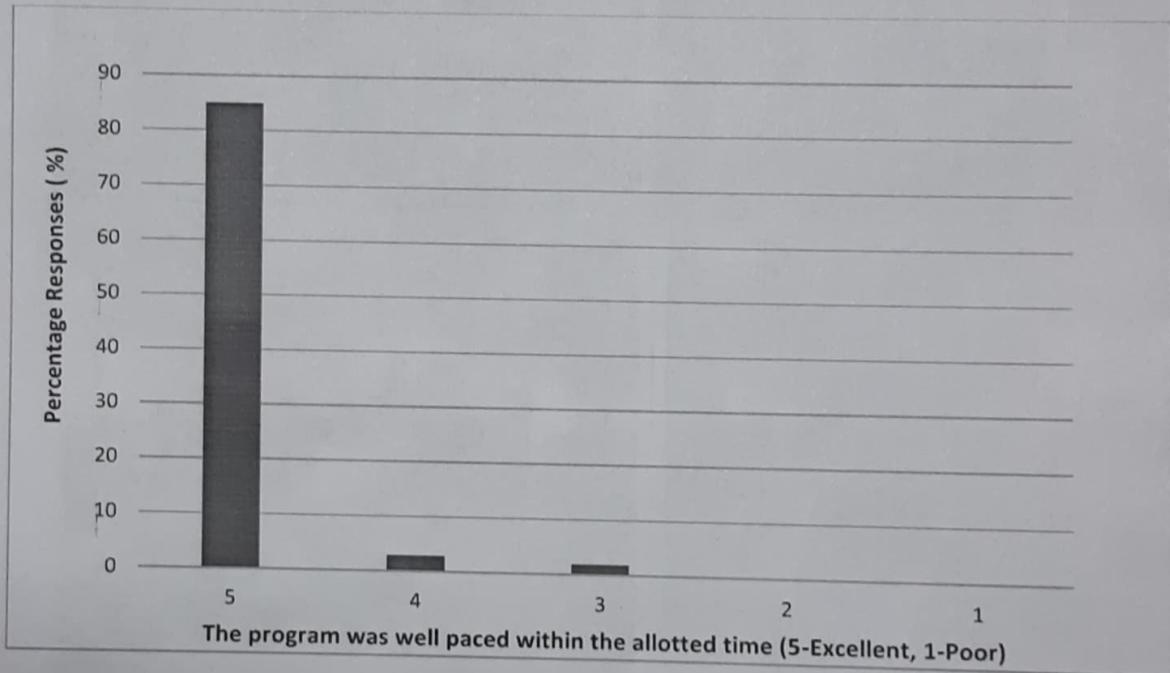
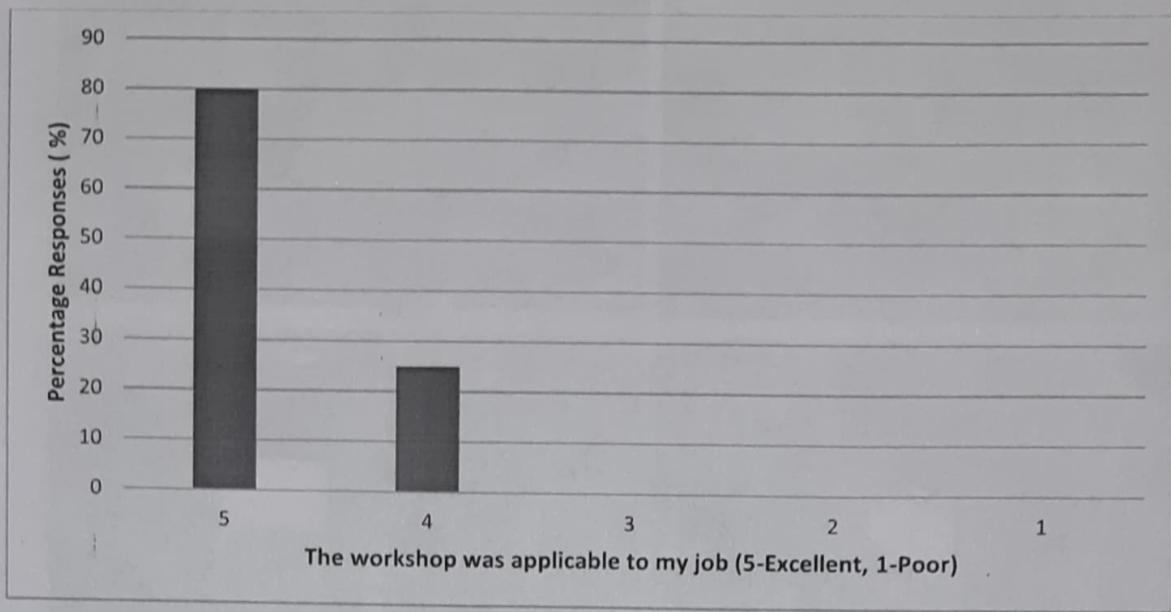
<b>Name of the Experts and Description of delivered work:</b>	<p>Dr. Manish Dixit  Dr. Anshu Chaturvedi  Prof.. Mahesh Parmar  Dr. Ranjeet Kumar Singh</p> <p>First day, Dr Manish Dixit, represented the department of computer science and engineering &amp; IEEE students chapter Gwalior, He explained role of research in our country and how students can participate in the development of our country with the help of updated research and technology. He also explained how to start the research work in our institute. He discussed role of different types of technologies i.e. machine learning, Artificial intelligence, and big data analysis in our society and country.</p> <p>Dr. Anshu chaturvedi, explained the impact and importance of literature survey in conducting research. She also illustrated the ways a problem formulation of a particular specific research area is to be conducted. She also explained the significance of objective formulation, and paper writing techniques in research work.</p> <p>Prof. Mahesh Parmar, Explain the research methodology, objective formulation, research process and paper writing techniques. The important of references and citation of paper is also explained by them.</p> <p>Dr. Ranjeet Kumar Singh, show the importance of research and how can do the research in efficient way. They also show searching a paper, technique to identify the problem based on number of publication in a referred journal.</p> <p>Now, Second day, Prof. Mahesh Parmar and Dr. Ranjeet kumar singh show the different type of technique in image processing with the help of MATLAB Simulation Tool. Here, they also take a technical section, and solve different type of problem in image processing. Information read, how can check the quality of image by using peak signal to noise ratio, signal to noise ratio, and correlation coefficient also are deeply explained in this technical section.</p>
<b>Duration:</b>	Two day
<b>Date:</b>	14.03.2022 to 15.03.2022
<b>Participants:</b>	PhD Scholar, MTech Students, B.Tech Final Year and Interested Faculty

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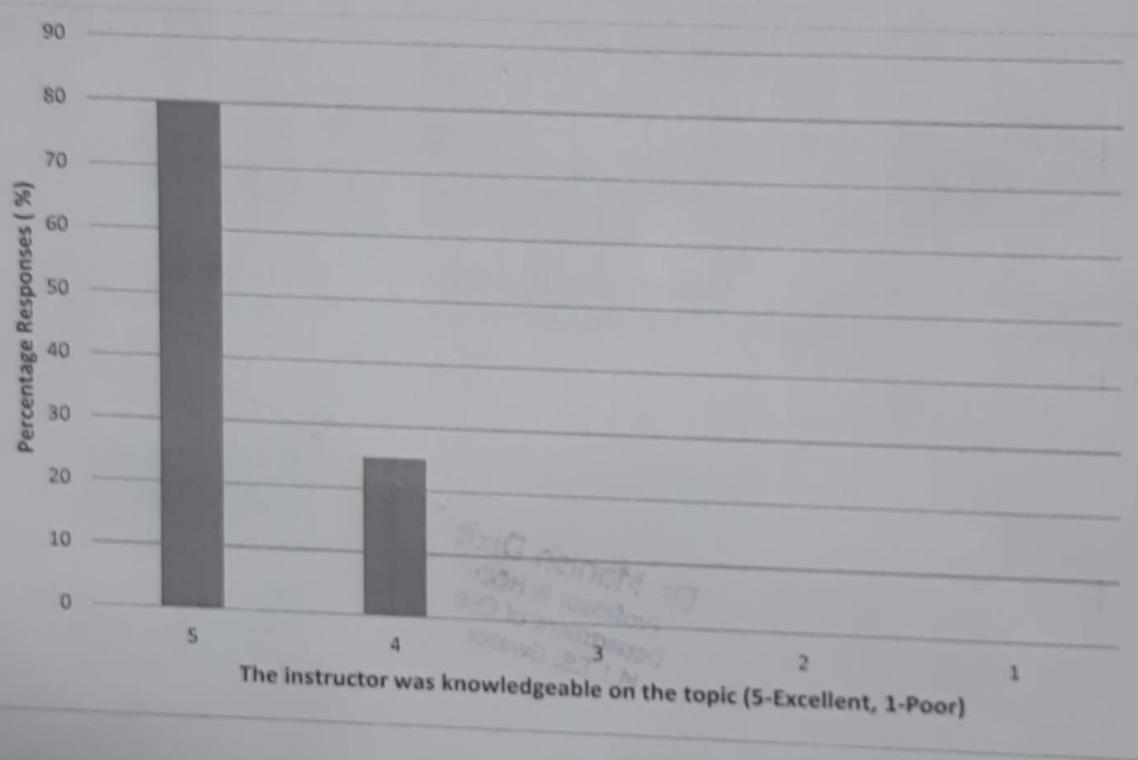
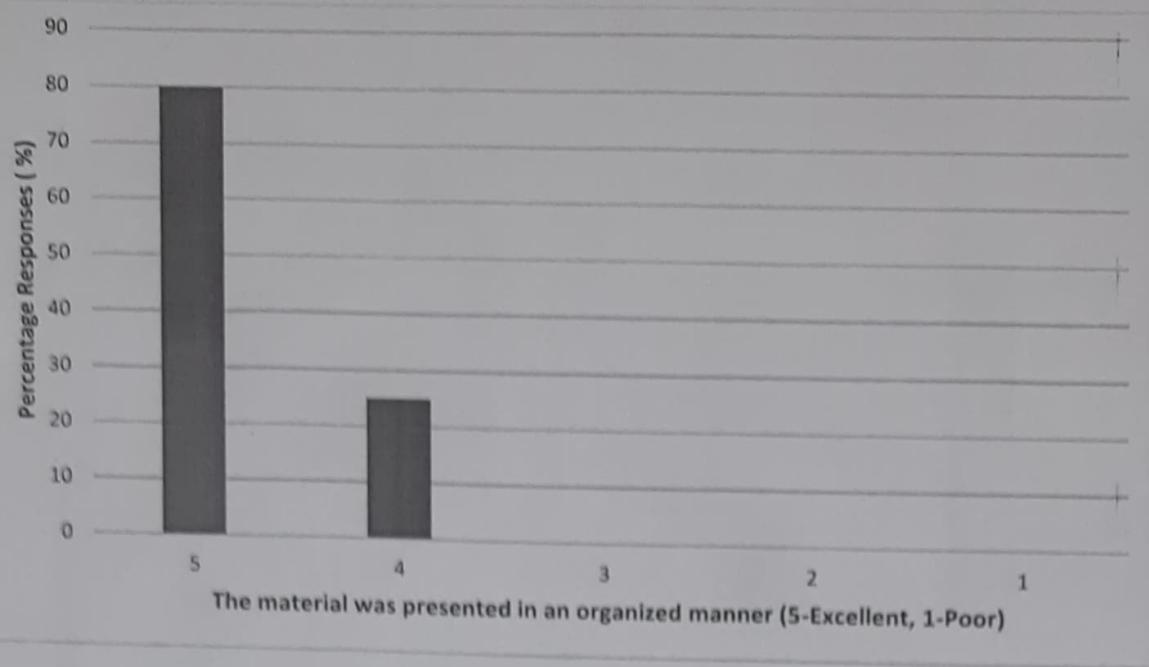


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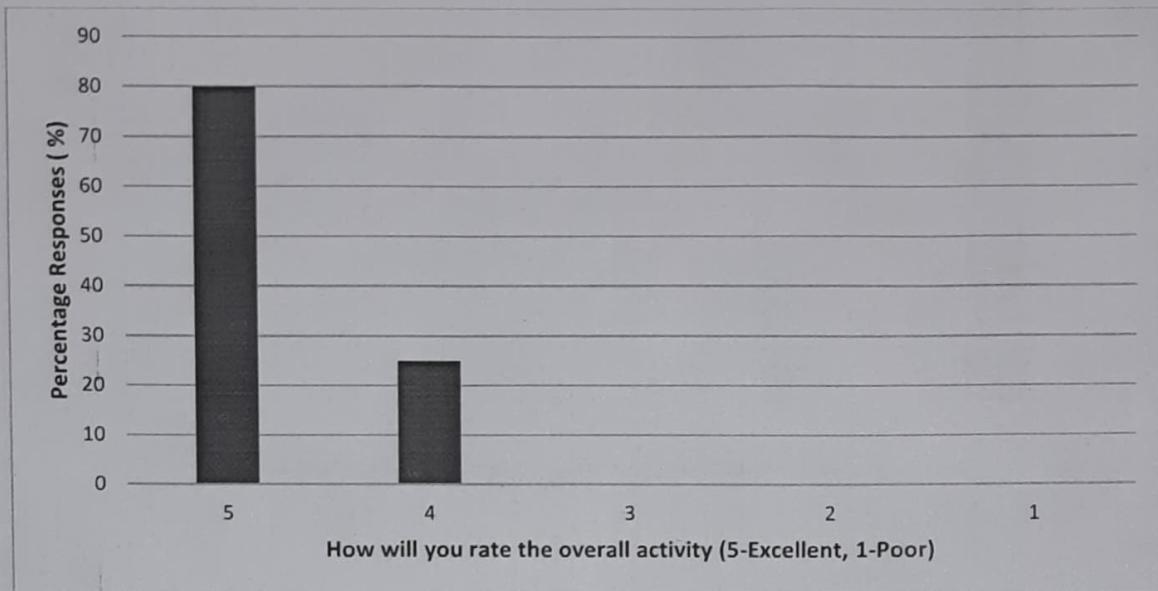
## Workshop Feedback Analysis



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**(Dr. Ranjeet Kumar Singh)**  
Workshop Coordinator

**(Mr. Mahesh Parmar)**  
Workshop Coordinator

**(Dr. Anshu Chaturvedi )**  
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