

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR (M.P.)

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)

Department of Computer Science and Engineering

Date: 12/12/2020

**Report of AICTE Sponsored STTP
On
"Applied Computing"**

Type of activity:	National Level
Title of the activity:	AICTE Sponsored One week Short Term Training Programme on Applied Computing
Date and duration of activity:	09/11/2020 to 13/11/2020
Number of Participants:	30
Resource Person:	<ol style="list-style-type: none">1. Dr. Sumantra Dutta Roy, Professor, IIT Delhi2. Dr. Gaurav Harit, Associate Prof. IIT Jodhpur3. Dr. A.K. Singh, Professor, MNIT Allahabad4. Dr. K.V. Arya, Professor, IIITM Gwalior5. Dr. P.K. Singh, Professor, IIITM Gwalior6. Dr. Shekhar Verma, Professor, IIIT Allahabad7. Dr. Vijendra Singh, IIIT Allahabad8. Dr. Manu Pratap Singh, Professor, B.R. Ambedkar University, Agra9. Dr. Sanjeev Sharma, Professor, RGPV Bhopal10. Dr. R.S. Jadon, Professor, MITS Gwalior11. Dr. Anshu Chaturvedi, MITS Gwalior12. Dr. Deepak Tomar, Professor, MANIT, Bhopal13. Dr. Manish Dixit, Professor, MITS Gwalior14. Dr. Vivek Tiwari, Assistant Prof., IIIT Raipur15. Dr. Brijesh Chaurasia, Assistant Prof., IIIT Lucknow
Objectives of the STTP	<ol style="list-style-type: none">1. Enhance their teaching and other skills2. Make them aware about modern teaching tools and methodologies3. Acquire knowledge about current technological developments in relevant fields.4. Impart professional practices relevant to technical education5. Achieve competitive teaching and learning environment6. Channelize development with respect to academic qualifications and personal matter

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Outcome of the STTP

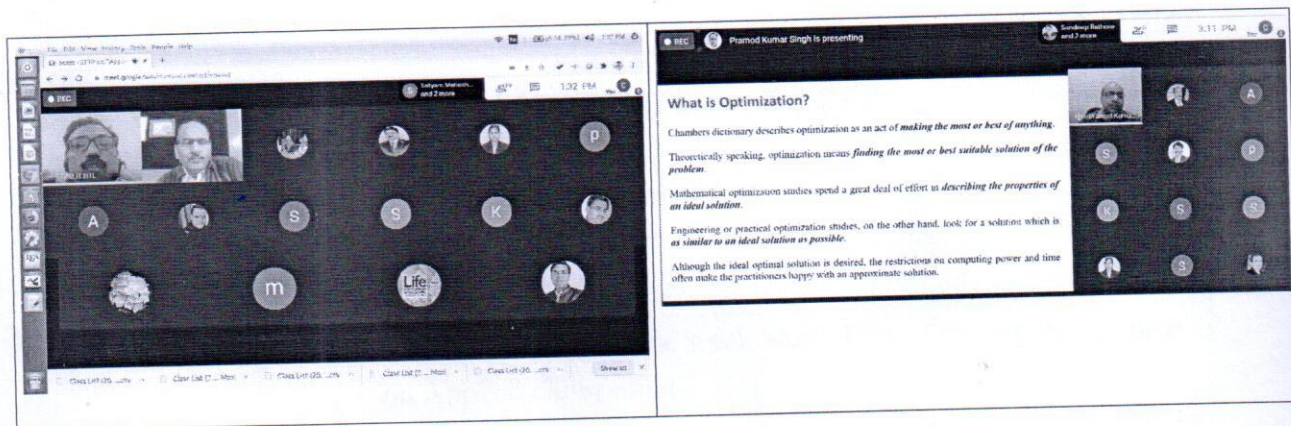
1. The participants successfully able enhance their knowledge in applied computing and related areas.
2. The participants learned programming aspects using hands on sessions.
3. Faculty members interacted and exchanged their ideas.
4. Faculty members successfully acquired teaching and learning skills in most advance topics like machine learning, soft computing, network security, multimedia computing.

Glimpses of Activity

The collage consists of six screenshots from a Zoom meeting, arranged in a 3x2 grid. Each screenshot shows a different presentation slide or a Zoom interface element.

- Top Left:** A title slide for "APPLIED COMPUTING" presented by the Department of Computer Science & Engineering and Information Technology at Madhav Institute of Technology & Science. The date is 09/11/2020.
- Top Right:** A slide titled "The Optical Flow Equation" discussing the Brightness Constancy Assumption. It includes the equation $I(x+p, y+q, t+1) = I(x, y, t)$ and a first-order Taylor series approximation: $I(x+p, y+q, t+1) = I(x, y, t) + pI_x + qI_y + I_t$. It compares $pI_x + qI_y + I_t = 0$ (Horn and Schunck).
- Middle Left:** A slide titled "REAL - LIFE SCENARIO: PANNA NATIONAL PARK- PANNA, MADHYA PRADESH" showing a diagram of a forest with various sensors (Microphone, Acoustic Event, Extended Fiber sensor) and a village. The title is "ML/IOT Applications in Forest".
- Middle Right:** A screenshot of a Zoom meeting interface showing a list of participants and a video feed of a participant.
- Bottom Left:** A slide titled "Overall Trend" showing "Raw Representation" and "Semantic Interpretation".
- Bottom Right:** A slide titled "Types of Data Analytics" with a circular diagram showing the relationship between different types of data analytics.

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(Dr. R.S. Jadon)

Prof. And Coordinator STTP

(Dr. Manish Dixit)

Prof. & Head