

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous Institute Affiliated to RGPV Bhopal)

Department of CSE & IT

Event	STTP
Name of the event	AICTE Sponsored One Week Online Short Term Training Programme on “ Applied Computing ”
Date	09 - 13 NOVEMBER, 2020
Number of Participants	Total Participants: 30 Internal Participants: 07 External Participants: 23 Assistant Professor:22 Associate Professor: 05 Research Scholar: 03

**AICTE SPONSORED ONE WEEK
ONLINE SHORT TERM TRAINING PROGRAMME**
ON
APPLIED COMPUTING



09 - 13 NOVEMBER, 2020

ORGANIZED BY

**DEPARTMENT OF COMPUTER SCIENCE &
ENGINEERING AND INFORMATION TECHNOLOGY**



MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE

(A GOVT. AIDED UGC AUTONOMOUS & NAAC ACCREDITED INSTITUTE, ESTABLISHED IN 1957) GWALIOR,
M.P. 474005



www.mitsgwalior.in

REGISTRATION LINK

<https://forms.gle/Qx84DEUduzJ2cOxU8>

PATRON

Dr. R.K. Pandit

Director
MITS Gwalior

CONVENER

Dr. Akhilesh Tiwari

Professor & Head,
Department of CSE & IT

PROGRAMME COORDINATOR

Dr. R. S. Jadon

Professor, Dept. of CSE & IT
and

Former Head, Dept. of MCA

ASSOCIATE COORDINATORS

Mr. Mir Shahnawaz Ahmad

Asst. Prof., Dept. of CSE & IT

Mr. Arun Kumar

Asst. Prof., Dept. of CSE & IT

REGISTRATION FEE

There will be no registration fee for the participants from AICTE recognized Institutions

ELIGIBILITY

Only **Faculty members** of relevant discipline of degree level technical Institution/ Universities approved by AICTE are eligible to attend the STTP.

FOR ANY QUERIES PLEASE CONTACT:

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ABOUT STTP

Applied computing uses the practical application of computer principles, concepts and technologies to address real-world complications. It practices features of computer science to solve problems in various disciplines, counting politics, business, education and the environment. Working in the field of applied computing, one can likely use a range of programming, software engineering, graphic applications, networking and operating systems management skills to gather, investigate, store and distribute information that will help resolve issues for individuals, groups and companies. Positions that require applied computing knowledge generally involve maintaining computer systems or developing computer software or applications.

OBJECTIVE OF STTP

The objective of this programme is to apprise the faculty with recent updates in the field with researches and technologies. It aims at providing in-depth knowledge and fields of interest like Android-App development, Applying machine learning, Mobile Technology, Security, Data Integration, Communication, Project Management, etc.

STTP CONTENTS

The STTP will focus on following topics:

- Introduction to applied computing.
- Machine learning linear models.
- Secure Multi-party communication.
- Soft computing to Quantum computing.
- Data Science and Data Analytics.
- Data mining and machine learning.
- Association rule discovery opportunities and challenges

STTP OUTCOMES

- It helps the faculties to open the research areas in the field of Applied Computing. They also acknowledge themselves with skills of critical thinking, analysis, problem solving.
- A working understanding of the characteristics and limitations of applied computing.
- The ability to develop applications that demonstrate current practice in applied computing.
- A comprehension and appreciation of the design and development of context-aware solutions for applied computing.
- An awareness of professional and ethical issues, in particular those relating to security and privacy of user data and user behavior.

RESOURCE PERSONS

- **Prof. Sumantra Dutta Roy**, IIT Delhi
- **Prof. A.K. Singh**, MNIT Allahabad.
- **Dr. Vijendra Singh**, IIIT Allahabad
- **Dr. Gaurav Harit**, IIT Jodhpur.
- **Prof. K. V. Arya**, IIITM Gwalior.
- **Prof. Shekhar Verma**, IIIT Allahabad.
- **Prof. Manu Pratap Singh**, BR Ambedkar University, Agra.
- **Prof. Sanjeev Sharma**, RGPV Bhopal.
- **Prof. Ravindra Patel**, RGPV Bhopal.
- **Prof. Akhilesh Tiwari**, MITS Gwalior.
- **Prof. Anshu Chaturvedi**, MITS Gwalior.
- **Prof. Deepak Tomar**, MANIT Bhopal.

PLEASE NOTE

The number of participants is limited. The interested candidate needs to apply online using registration link (on or before **6th November, 2020**). Shortlisting of participants will be on **First Come First Serve** basis. The shortlisted candidates will be informed via E-mail. E-certificates will be given to all the participants on successful completion of STTP.

ABOUT MITS

Madhav Institute of Technology and Science (MITS), Gwalior was established by His Highness Late Sir Jiwaji Rao Scindia, Maharaja of Erstwhile State of Gwalior, with an aim to create world class quality engineers and technocrats capable of providing leadership in all spheres of life and society. Founded as Madhav Engineering College in 1957 with three UG programmes, this temple of learning is now about 60 years old. Since its inception, the institute has constantly strive for excellence and quality in technical education. Today, the institute offers nine UG programmes along with research programmes leading to Masters and Ph.D. degree in various specializations of engineering and technology. All the departments of the institute have well equipped laboratories and experienced faculties. The institute is a minor QIP centre of AICTE for Ph.D. programme in five disciplines. The institute is also funded by World Bank under TEQIP phase III to strengthen the quality of technical education.

ABOUT THE DEPARTMENT

The department of CSE & IT has an excellent & rich history and an outstanding record of contributions to the profession and community. The department is well recognized for excellence in facilities and teaching. The Department offers UG, PG and Ph.D. Programmes in Computer Science & Engineering and Information Technology. The Department has a comprehensive curriculum on topics related to all aspects of Computer Hardware and Software with an emphasis on practical learning. The course structure is up-to-date and includes courses on emerging topics to equip our students with the latest developments in Computer Science and Engineering. The Department has state-of-the-art infrastructure and computing equipment supported by high speed Ethernet and wireless networks. Our faculty members aim at delivering top class education blending their rich research experience with classroom teaching.



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Department of Computer Science & Engineering and Information Technology

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<< STTP SCHEDULE >>

	10:30 AM-12:00 PM	12:00 PM to 12:30 PM	12:30 PM to 2:00 PM	2:00 PM to 3:00 PM	3.00 PM to 4.30 PM
Day – 1: 9 th Nov, 2020 (Monday)	Inauguration & Expert Lecture by Dr. Sumantra Dutta Roy (IITD) <u>Session Topic: Computer Vision and Image Processing</u>	Break	Dr. Vrijendra Singh (IIIT Allahabad) <u>Session Topic: Time Series Analytics on IOT</u>	Break	Dr. Gaurav Harit (IITJ) <u>Session Topic: Machine Learning</u>
Day – 2: 10 th Nov., 2020 (Tuesday)	Dr. Shekhar Verma (IIIT Allahabad) <u>Session Topic: Secure Multiparty Communication</u>		Dr. R.S. Jadon (MITS Gwalior) <u>Session Topic: Multimedia Computing</u>		Dr. Vivek Tiwari (IIIT Raipur) <u>Session Topic: Descriptive data analysis with clustering using R</u>
Day – 3: 11 th Nov., 2020 (Wednesday)	Dr. A.K. Singh (MNIT Allahabad) <u>Session Topic: Big Data Computing</u>		Dr. Brijesh Chaurasia (IIIT Lucknow) <u>Session Topic: Block Chain Computing</u>		Dr. P. K. Singh (IIITM Gwalior) <u>Session Topic: Nature Inspired Computing</u>
Day – 4: 12 th Nov., 2020 (Thursday)	Dr. M.P. Singh (BR Ambedkar Univ. Agra) <u>Session Topic: Soft Computing to Quantum Computing</u>		Dr. Deepak Tomar (MANIT Bhopal) <u>Session Topic: Security and Safe Computing</u>		Dr. Anshu Chaturvedi (MITS Gwalior) <u>Session Topic: Applying IOT</u>
Day – 5: 13 th Nov., 2020 (Friday)	Dr. K.V. Arya (IIITM Gwalior) <u>Session Topic: Applied Mobile Computing</u>		Dr. Sanjeev Sharma (RGPV Bhopal) <u>Session Topic: Data Science and Machine Learning</u>		Quiz and Valedictory

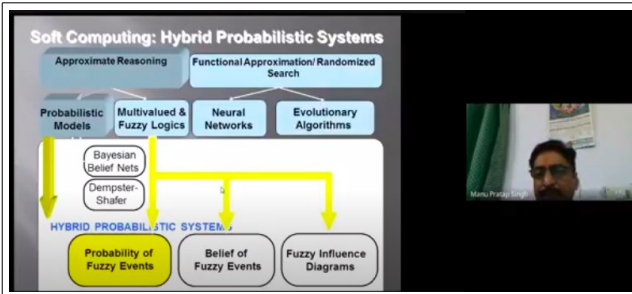
Please Note:

- The link to join each online session will be provided to all the participants via registered E-mail by STTP organizing team members in due course of time.
- Kindly put your microphone and video to mute when joining any STTP session to avoid any disturbance.
- You can ask questions and queries during the STTP sessions in chat window.
- E-certificates will be given to all the participants on the basis of attendance in each session and score in online quiz (that will be conducted at the end of STTP).

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Stack (top to bottom):

address	stored data
1000 to 997	3
996 to 993	2
992 to 989	1
988 to 985	return address
984 to 981	Temp (stored frame pointer)
(Temp)980 to 976	buffer1
975 to 968	buffer2
(Temp) 964	

Labels on the left: Parameters for function, Return Address, frame pointer, frame pointer, locals of function, stack pointer.

DR. ANSHU CHATURVEDI is presenting

3:31 PM

DR. ANSHU C.

DEFINITIONS CONTD.

- Data Analytics**

Data analysis is a process of inspecting, cleansing, transforming, and modeling data with the goal of discovering useful information, suggesting conclusions, and supporting decision-making.

The Pillars Of Data Science

While data scientists often come from many different educational and work experience backgrounds, most should be strong in, or in an ideal case be experts in four fundamental areas. In no particular order of priority or importance, these are:

- Business Domain
- Mathematics
- Comp Sci
- Communication

You are presenting

3:16 PM

Dr Manjaree Pandit

You are presenting

3:17 PM

You're presenting to everyone

Stop presenting

3:32 PM

STTP on 'Applied Computing', 9

Turn on captions Present now