MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR (A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)

Department of CSE & IT

Title of the activity:	National workshop on "Recent Trends In AI, Deep Learning And Its Applications"					
Date:	28 – 29 Sept., 2019					
Brief description of the activity:	In today's world, field of Artificial Intelligence is playing an important role in solving wide variety of real world problems. The use of deep learning further enhances the applications of artificial intelligence. So, in this regard a national workshop was conducted by the department of CSE & IT to explore the techniques, tools and applications of AI and deep learning.					
Objectives of the activity:	<ul> <li>Motivate and equip the participants with the basics as well as the recent trends in Artificial Intelligence &amp; Deep Learning, and their applications for solving wide variety of problems in various fields of engineering and technology.</li> <li>To expose the faculty members and students with the newer dimensions of the area with their practical approaches to tackle the real life problems in engineering and technology and other related disciplines.</li> <li>To take up various challenges of the present day to day societal problems for their acceptable logical solutions.</li> </ul>					
Outcomes of the activity:	<ul> <li>After the completion of activities, participants were able to</li> <li>Understand the techniques and tools used in AI and Dee Learning.</li> <li>Analyse real world problems and implement AI and Dee Learning techniques to solve the same.</li> <li>Evaluate the efficiency and efficacy of AI and Deep Learning techniques.</li> </ul>					
Experts	<ol> <li>Dr. Prashant S. Rana (Thapar Institute of Engg. &amp; Tech., Patiala)</li> <li>Dr. Mukesh Saraswat (Jaypee Institute of Info. Tech., Noida)</li> <li>Dr. Tapas Badal (Bennett University, Greater Noida)</li> </ol>					
Number of Participants	Total Participants: 44 Internal Participants: 38 External Participants: 06 Assistant Professor: 16 Associate Professor: 01 Research Scholar: 07 Students: 20					

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(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal) **Department of CSE & IT** 

# APPLICATION FORM

# **National Workshop**

on

## Recent Trends in Al, Deep Learning and its Applications

(28 - 29 September 2019)

Name (in capital letters):
Designation:
Organisation:
Mobile Number:

#### SPONSORSHIP CERTIFICATE

It is certified that our institute is recognised by AICTE. The applicant is hereby sponsored and will be permitted to attend the above workshop, if selected.

Signature and Seal

(Photo copy additional copies of this form, if needed) (scanned copy of registration form can also be sent by

#### PATRON

Dr. R.K. Pandit MITS Gwalion

## **WORKSHOP TEAM**

## Dr. Akhilesh Tiwari

Prof. & Head CSE&IT

Mrs. Neha Bhardwaj (Assistant Professor) Mr. Arun Kumar (Assistant Professor

Ms. Aishwarya (Assistant Professor) Mr. Mir Shahnawaz Ahmad (Assistant Professor)

Mr. Santosh Sahu Ms. Namrata Agrawal Ms. Pooja Agrawal Mr. Mohit Jain

Mr. Sheo Kumar Ms. Sneha Gard Mr. Lav Upadhyay

## REGISTRATION

students in relevant discipline of degree level technical Institution/Universities approved by AICTE are eligible to attend the course. The number of participants is limited to 50. The interes needs to apply online at https://bit.ly/2znMfDz (on or before 21 Sept, 2019) and must bring the original application form duly signed by competent authority

#### TEOIP-III SPONSORED



## NATIONAL WORKSHOP

#### RECENT TRENDS IN AI, DEEP LEARNING AND ITS APPLICATIONS

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING AND INFORMATION TECHNOLOGY





www.mitsgwalior.in

## **PREAMBLE**

The field of engineering and technology is facing unparallel changes and consolidations. As educators, we must be continuously aware of these developments so that we cannot only define a fixed path but also we have to take full advancement in engineering and technology. Keeping view of the current thrust, relevance and importance of the development in engineering and technology, the faculty members of technical institute have to keep a place with its exchanging trends for social and industrial benefits. Researchers and Scientists have applied modeling and computational techniques as a tool to represent the various problems in real word situations. It is because of the wide applicability of Artificial Intelligence and Machine Learning techniques in different domains of Engineering and Technology, this Workshop is being organized with the following objectives.

- . Motivate and equip the participants with the basics as well as the recent trends in Artificial Intelligence & Deep Learning, and their applications for solving wide variety of problems in various fields of engineering and technology.
- To expose the faculty members and students with the newer dimensions of the area with their practical approaches to tackle the real life problems in engineering and technology and other related disciplines.
- day to day societal problems for their acceptable logical solutions.

This Workshop will be helpful for faculty members and researchers to utilise methods, tools, and computational tech

## COURSE CONTENTS

The following topics will be covered in this Workshop:

- Introduction to Machine Learning & Deep Learning
- · Convolution Networks Basic architecture of CNN
- Applications of Deep Leaning in Computer Vision, Sentiment Analysis, Data Analysis, and Rumor Analysis, Social Behavior, Object Recognition etc.
- Visualization, Data Pre-Processing. Classification and Regression Analysis.
- Hands on Machine Learning using R

## RESOURCE PERSONS

The Resource Persons for the Workshop will be Eminent Professors and experts from IITs, IIITs, NITs, and other esteemed institutions

## **REGISTRATION FEE**

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

### CONTACT US AT:

+91-8826708753

arun.vsrana@mitsgwalior.in

Mr. Mir Shahnawaz Ahmad +91-7006080550

mirshahnawaz888@mitsgwalior.in

Registration Link: https://bit.ly/2znMfDz

#### **ABOUT MITS**

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 TECIP phase III to strengthen the quality of technical education.

# LOCATION

Gwalior city has major road and rail connectivity. The Institute is located on Agra-Bombay Road (NH-3) and is approximately 320 KM from Delhi. The institute is located in the heart of city and is at a distance of about 2 km from Gwalior Bus Stand/Gwalior Railway Station.

## ABOUT THE DEPARTMENT

The department of CSE 8 IT has an excellent 8 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 6 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 a leliv inguisaria.

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

**Department of CSE & IT** 

# **Activity Schedule**

## Madhav Institute of Technology and Science, Gwalior

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

Department of Computer Science & Engineering and Information Technology

Two days National workshop on "**Recent Trends in AI, Deep Learning and its Applications**" under TEQIP – III, held at MITS Gwalior (September 28 – 29, 2019)

#### Workshop Schedule

Day – 1: 28 <sup>th</sup> September, 2019	10:15 to 10:45 AM	10:45 to 11:15 AM	11:15 to 11:30 AM		01:00 to 02:00 PM		03:30 to 03:45 PM	03:45 to 05:15 PM
	Registration	Inauguration	High Tea	Session 1 "Introduction to Machine Learning & Data Mining" By Dr. Prashant S. Rana Thapar Institute of Engg. & Tech., Patiala	Lunch Break	Session 2 "Problem solving in R with Hands-on" By Dr. Prashant S. Rana Thapar Institute of Engg. & Tech., Patiala	High Tea	Session 3 "Research directions in Machine learning" By Dr. Prashant S. Rana Thapar Institute of Engg. & Tech., Patiala

Day – 2: 29th September, 2019	10:00 to 11:30 AM	11:30 to 11:45 AM	11:45 to 01:15 PM	01:15 to 02:00 PM	02:00 to 04:00 PM	04:00 to 04:15 PM	04:15 to 05:00 PM
	Session 1 "Introduction to Deep Learning & Semantic Segmentation" By Dr. Mukesh Saraswat Jaypee Institute of Info. Tech., Noida	High Tea	Session 2 "Hands-on session on Deep Learning" By Dr. Mukesh Saraswat Jaypee Institute of Info. Tech., Noida	Lunch Break	Session 3 "Deep Learning Techniques & Applications And Lab session on Training & Testing of CNN model" By Dr. Tapas Badal Bennett University, Greater Noida	High Tea	Valedictory

Venue: IBM Lab, Department of CSE&IT, MITS Gwalior.

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