

**Madhav Institute of Technology and Science,  
Gwalior**

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

<b>Title of the activity:</b>	<b>Online National Workshop on “Computational Intelligence in Data Analytics”</b>
<b>Date</b>	<b>8, 9 February , 2021</b>
<b>Brief description of the activity:</b>	<p>In today's era, data plays a vital role in any field to make critical decisions depending on the patterns and facts deduced from the data which is the idea behind the machine learning, and their related strategies to comprehend and dissect genuine phenomena with data. Here the new term coined i.e. <b>Data analytics</b>, which analyze the data generated while purchasing online, commenting on social network and many more. Purpose of data analytic would be to increase revenue, optimize the cost, and improve the efficiency. This can be accomplished by <b>computation intelligence</b>. Fundamentally computation intelligence uses analytical method, fuzzy logic, neural network, evolutionary computation, learning theory and probability method which has wide range of application like extract critical information form image data to predict a particular type of disease, revenue optimization.</p> <p>In view of all these applications and benefits of data analytics, we propose to organize an online national workshop on <b>“Computational Intelligence in Data Analytics”</b>, which will focus on highlighting various concepts and techniques used in data analytics for the desired analysis of data and the implementation of methods. The workshop will benefit faculty, research scholars as well as students because these days this field is one of the applied research topics and is also used in corporate sectors for business analysis and other applications. Since the field is the interdisciplinary, it brings various experts from multiple fields together for innovation.</p>

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<b>Name and Affiliation of Experts:</b>	<p><b>Dr. P Radha Krishna</b>, Professor &amp; Head, Department of Computer Science and engineering, NIT Warangal.</p> <p><b>V. Vijaya Saradhi</b>, Associate Professor, Department of Computer Science and engineering, IIT Guwahati.</p> <p><b>Dr Sandeep Kumar</b>, Associate Professor, Department of Computer Science and engineering, IIT Roorkee.</p> <p><b>Dr. R. S.Thakur</b>, Professor MNIT Bhopal.</p>
<b>Objectives of the activity:</b>	<ul style="list-style-type: none"><li>● To understand applied data science.</li><li>● To give practical hands-on and exposure of different data sets</li><li>● To learn the application of computational intelligence in data analytics</li></ul>
<b>Outcomes of the activity:</b>	<p>The participants will be able to:</p> <ul style="list-style-type: none"><li>● Understand various concepts regarding Data Analytics.</li><li>● Apply the Data Analysis techniques to intended data.</li><li>● Explain the importance of Data Analysis and computation intelligence</li></ul>
<b>Number of participants:</b>	<p><b>Total = 90 (External Participants = 20, Internal Participants =70)</b></p> <p>Professor = 03 Associate Professor = 01 Assistant Professor = 36 Research Scholar = 35 Students = 15</p>

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Department of IT



## MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE

(A Govt. Aided UGC autonomous & NAAC  
Accredited institute, Established in 1957)  
Gwalior, M.P. 474005

 [www.mitsgwalior.in](http://www.mitsgwalior.in)



### NATIONAL WORKSHOP

In Collaboration with

**DELHI TECHNOLOGICAL  
UNIVERSITY, DELHI**

ON  
**COMPUTATIONAL  
INTELLIGENCE  
IN  
DATA ANALYTICS**

UNDER TEQIP-III

**8 - 9 FEBRUARY, 2021**

### PATRON

**Dr. R.K. Pandit**  
Director  
MITS Gwalior

### CONVENERS

**Dr. Akhilesh Tiwari**      **Dr. Dinesh K. Vishwakarma**  
Professor & Head      Associate Professor  
Department of IT      Department of IT  
MITS, Gwalior      DTU, Delhi

### COORDINATORS

**Mr. Rajeev Kumar Singh**, Asst. Professor  
**Mr. Dheeraj Gurjar**, Asst. Professor

### CO-COORDINATORS

**Ms. Shweta Patel**, Asst. Professor  
**Ms. Namrata Agrawal**, Asst. Professor  
**Mr. Abhishek Dixit**, Asst. Professor



ORGANIZED BY

**DEPARTMENT  
OF  
INFORMATION TECHNOLOGY**

REGISTRATION LINK



<http://bit.ly/3sOad5n>

### 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 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 Information Technology. In December 2020, new program have been included by department i.e. B.Tech Information Technology (Artificial Intelligence and Robotics) and B.Tech Internet of Things (IoT). 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 Information Technology. 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.

### PREAMBLE

Data has been the buzzword for ages now. Either the data being generated from large-scale enterprises or the data generated from an individual, each and every aspect of data needs to be analyzed to benefit yourself from it. But how do we do it? Well, that's where the term 'Data Analytics' comes in. Data Analytics has a key role in improving your business as it is used to gather hidden insights, generate reports, perform market analysis, and improve business requirements. Data Analytics refers to the techniques used to analyze data to enhance productivity and business gain. Computationally intelligent data handling algorithms are crucial in a wide range of sectors that require fast and automated decision-making. These industries typically include financial, manufacturing, aerospace, automotive and defence.

Workshop is being organized with the following objectives

1. It is intended for the participants who aspire to excel in data analytics. It provides an opportunity to explore the intersection of Statistics and Data Analytics and enables sophisticated ways in learning the emerging trends.

2. 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.

This Workshop will be helpful for faculty members and researchers to utilize methods, tools, and computational techniques for real life problems solving.



### WORKSHOP CONTENTS

The workshop will focus on following topics.

1. Significance of Data Analytics in Digitization and Automation
2. Visualization of Unstructured Sports Data - An Example of Cricket Text Commentary.
3. Social Network Analytics.

### ELIGIBILITY

Faculty members, Research scholars and UG/PG students in relevant discipline of degree level technical institution/ Universities approved by AICTE are eligible to attend the workshop.

### RESOURCE PERSONS

- **Dr. P Radha Krishna**, Former Principal Research Scientist at Infosys Labs, Infosys Limited, Hyderabad and Professor & Head, Department of Computer Science and Engineering, NIT Warangal
- **Dr. V. Vijaya Saradhi**, Associate Professor, Department of Computer Science and Engineering IIT Guwahati
- **Dr. Sandeep Kumar Garg**, Associate Professor, Department of Computer Science and Engineering, IIT Roorkee
- **Dr. R. S. Thakur**, Professor, MANIT Bhopal

### REGISTRATION FEE

There will be no registration fee for the participants.

### PLEASE NOTE

The number of participants is limited. The interested candidate needs to apply online using registration link. Last Date for registration is **February 5, 2021(5:00 PM)**. 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 workshop.

For any queries please contact:  
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**Department of Information Technology**



**ONLINE NATIONAL WORKSHOP  
IN COLLABORATION WITH  
DELHI TECHNOLOGICAL UNIVERSITY, DELHI  
ON**

**COMPUTATIONAL INTELLIGENCE IN DATA ANALYTICS**  
UNDER TEQIP-III  
8 – 9 February, 2021

**WORKSHOP SCHEDULE**

<b>8<sup>th</sup> Feb. , 2021 (Monday)</b>	<b>Session – 1 (11:00 AM to 01:00PM):</b> <b>Dr. Sandeep Kumar Garg</b> <i>Associate Professor, Department of Computer Science and Engineering, IIT Roorkee</i>  (Session Topic: Significance of Data Analytics in Digitization and Automation)	<b>Session – 2 (02:00 PM to 04:00 PM):</b> <b>Dr. P Radha Krishna</b> <i>Former Principal Research Scientist at Infosys Labs, Infosys Limited, Hyderabad and Professor &amp; Head, Department of Computer Science and Engineering, NIT Warangal</i> (Session Topic: Social Network Analytics.)
	<b>9<sup>th</sup> Feb. , 2021 (Tuesday)</b>	<b>Session – 3 (11:00 AM to 01:00PM):</b> <b>Dr. R. S. Thakur</b> <i>Professor, MANIT Bhopal</i>  (Session Topic: Data Science for healthcare )

**Please Note:**

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

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S.No.	Symptoms	Range level	a	b	c	
1.	DB	Normal	50	0.0	0.2	0.4
		High		0.2	0.5	0.5
2.	TB	Normal		0.3	1.1	1.9
		High		0.8	1.5	1.5
3.	SGPT	Low		0.0	0.0	0.0
		High		22	45	45
4.	SGOT	Low		0.0	4.0	8.0
		High		16.0	45.0	45.0
5.	AHP	Low		0.0	15.0	25.0
		Normal		20	67	140
6.	A...	High		80	160	160
		Low		0.0	2.0	3.5
					5.0	5.5

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