



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 “Soft Computing Techniques and its Applications”
Dates:	18 – 19th Jan, 2019
Brief description of the activity:	<p>Soft Computing refers to the science of reasoning, thinking and deduction that recognizes and uses the real world phenomena of grouping, memberships, and classification of various quantities under study. As such, it is an extension of natural heuristics and capable of dealing with complex systems because it does not require strict mathematical definitions and distinctions for the system components. It differs from hard computing in that, unlike hard computing, it is tolerant of imprecision, uncertainty and partial truth. In effect, the role model for soft computing is the human mind. The guiding principle of soft computing is: Exploit the tolerance for imprecision, uncertainty and partial truth to achieve tractability, robustness and low solution cost. The main techniques in soft computing are evolutionary computing, artificial neural networks, and fuzzy logic and Bayesian statistics. Each technique can be used separately, but a powerful advantage of soft computing is the complementary nature of the techniques. Used together they can produce solutions to problems that are too complex or inherently noisy to tackle with conventional mathematical methods. The applications of soft computing have proved two main advantages. First, it made solving nonlinear problems, in which mathematical models are not available, possible. Second, it introduced the human knowledge such as cognition, recognition, understanding, learning, and others into the fields of computing. This resulted in the possibility of constructing intelligent systems such as autonomous self-tuning systems, and automated designed systems. In view of all these applications and benefits of Soft Computing Techniques and its Applications, we propose to organize an national workshop on “Soft Computing Techniques and its Applications”, which will focus on highlighting various concepts and techniques used in Soft Computing Techniques and its Applications, will further enhance the applicability of soft Computing. The workshop will benefit faculty, research scholars as well as students because these days this field is one of the hot research topics and is also used in corporate sectors for business analysis and other applications.</p>
Objectives of the activity:	<ul style="list-style-type: none">• To Understand basics of Soft Computing ng• To acquaint the participants with soft computing techniques and tools useful in solving real life engineering problems.
Outcomes of the activity:	<p>The participants will be able to:</p> <ul style="list-style-type: none">• Implement, evaluate and compare solutions by various soft computing approaches for finding the optimal solutions.• Recognize the feasibility of applying a soft computing methodology for a particular problem• Design the methodology to solve optimization problems using fuzzy logic, genetic algorithms and neural networks.



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Name and affiliation of experts:	<p>1. Dr. T. V. Vijay School of Computer & Systems Sciences Jawaharlal Nehru University, Delhi</p> <p>2. Dr. Ramjeevan Singh Thakur Department of Computer Applications, MANIT, Bhopal, MP</p> <p>3. Dr. Jagdish Chand Bansal South Asian University New Delhi</p> <p>4. Dr. A.K Singh Department of Computer Science & Engineering Motilal Nehru National Institute of Technology ,Allahabad</p> <p>5. Dr. K.R. Pardasani MANIT, Bhopal, MP</p>
Number of Participants:	Total = 105 (External Participants =21, Internal Participants =84)

Dr. Akhilesh Tiwari
Prof. & Head

Workshop Brochure

ABOUT INSTITUTE

Madhav Institute of Technology & Science, Gwalior was established in 1987 by His Highness Late Mr. Jaiji Ram Sahasr Mehta, Member of the erstwhile state of Gwalior. The foundation stone of the Institute was laid by Late Dr. Rajendra Prasad, on 20th October 1988 and the building was inaugurated by Late Dr. S. Radhakrishnan on 11th December, 1988. The President of India, Dr. Pratibha Devi Singh Patil, presided the Golden Jubilee Celebrations of the Institute as Chief Guest on 30th June 2008. The Institute has a campus of around 45 acres. The Institute offers education in all undergraduate programmes and fifteen PG programmes. The prime objective of the Institute is to provide quality education at undergraduate and post graduate levels. Recently the Institute has been ranked by World Bank under TEQIP phase III to strengthen the quality of technical education.

AIM & SCOPE OF THE WORKSHOP

National Workshop on Soft Computing Techniques and Its Applications under TEQIP III is scheduled to be held on 18-19 Jan, 2019. The objective is to exploit the tolerance for imprecision, uncertainty, partial matching and partial truth in order to solve the ability of humans to control machines and their environment. In turn, for decision making, fuzzy logic, rough sets, Artificial Neural Networks and Evolutionary Algorithms are the principal components of soft computing.

RESOURCE PERSON

Expert from National level Institutes (IITs/NITs), central universities and reputed engineering & higher educational institutes will be invited to deliver lectures. The mode of conduction will be interactive.

ADDRESS OF COMMUNICATION

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 Email: rajeevkumar@mitgwalior.in

Khushboo Agarwal
 Assistant Professor
 Department of CSE & IT
 Contact No. 9981181018
 Email: khushboos@mitgwalior.in

FINANCIAL ASSISTANCE

There will be no registration fee for the participants. No TA/DA will be provided to the participants however, boarding and lodging will be arranged on chargeable basis.

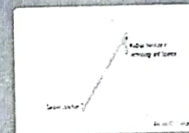
ABOUT DEPARTMENT

The department of CSE & IT has an excellent & rich history and an outstanding record of contributions to the profession and community. The department offers two B.Tech. and three PG programmes. Since 2012, the department is a minor CIP centre for research programme. The faculty is actively engaged in research, and has published numerous papers in national and international journals and conference. The alumni of the department have secured their places in the higher echelons of the society and technical world.

REGISTRATION

The Workshop is open to research scholars, faculty members and industry personnel. The number of participants is limited for the course to participation will be considered on the basis of first come first serve. Last date of receiving completed form is 15 Jan 2019. The candidate will be informed of his/her selection in advance via e-mail. To register online refer to the given link: goo.gl/forms/BFwLpeWgppTAVvD3

ROUTE TO MITS, GWALIOR



Post Course Road, Gola Gas Mandir,
 Gwalior - 474005
www.mitgwalior.in

REGISTRATION FORM

National Workshop
 on
 Soft Computing Techniques and Its Applications
 (Under TEQIP Phase III)
 (18-19 Jan, 2019)

- 1 Name _____
- 2 Gender: M [] F []
- 3 Designation: _____
- 4 Organization: _____
- 5 Correspondence address: _____
- 6 Mobile No: _____
- 7 E-mail: _____
- 8 Qualifications: _____
- 9 Teaching/Research Exp. (Years): _____
- 10 Lodging Requirement (Chargeable)
 Yes [] No []
- 11 Area of Research: _____

(Signature of the Applicant with date)

(Signature & Seal of Head of Department Institute with date)

Note: Photocopy of the form can be used as registration form. For online registration refer to the given link: goo.gl/forms/BFwLpeWgppTAVvD3

ORGANIZING COMMITTEE

Patron:
 Dr. Ramesh Agrawal (E. M. U. and Secretary,
 Sandia Engg. College Society)

Chairman:
 Dr. R.K. Pandey (Director)

Convener:
 Dr. Akhlesh Tripathi (Prof. & Head, CSE & IT)

Coordinators:
 Prof. Khushboo Agarwal
 Prof. Rajeev K. Singh

Organizing Secretary:
 Prof. Arvind Singh
 Prof. Jaywant S. Mishra

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 Dr. Manish Dixit
 Dr. Sanjay Sharma
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 Prof. Akhlesh Tripathi
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 Prof. Mahesh Parmar
 Prof. A. S. Mishra
 Prof. Jyoti Mangrulkar

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 Dr. I. Srivastava

Dr. Prateesh Jayaswal

Dr. Archana Tiwari
 Dr. P. K. Singhal
 Dr. Alak Sharma
 Dr. K. S. Jaiswal
 Dr. Abhijay Mishra
 Prof. S. Prashad
 Dr. Manish Sagar

(Dean Academic)
 (Dean Student Welfare)
 (Head, Electron. Engineering & Coordinator, TEQIP III)
 (Academic Coordinator, TEQIP III)
 (Head, Civil Engineering)
 (Head, Electronics Engineering & Head, Architecture)
 (Head, Computer Application)
 (Head, Applied Sciences)
 (Head, Chemical Engineering)
 (Head, Mechanical Engineering)

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 (Madhav CSE & IT Dept)



NATIONAL WORKSHOP ON SOFT COMPUTING TECHNIQUES AND ITS APPLICATIONS

(18-19 Jan 2019)
 (Under TEQIP Phase III)



ORGANIZED BY:
 DEPARTMENT OF CSE & IT

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National Workshop on "Soft Computing Techniques and Its Applications"

(18th -19th January 2019)

Organized By

Department of Computer Science & Engineering and Information Technology

Under

Technical Education Quality Improvement Programme (TEQIP)-III

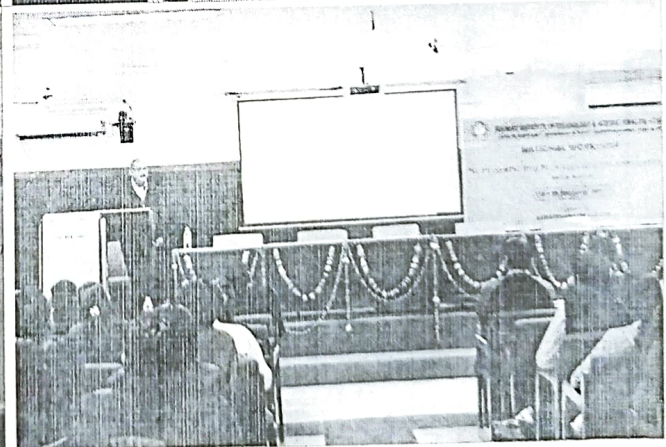
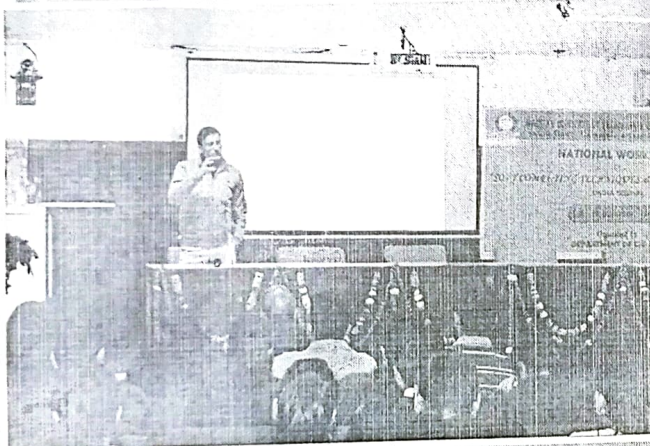
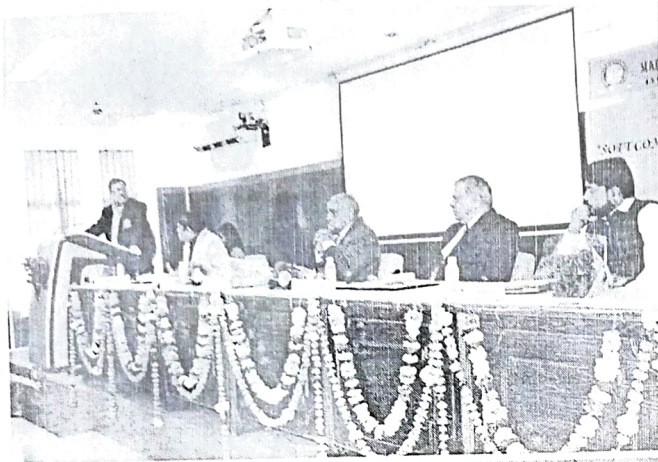
WORKSHOP SCHEDULE

Date & Day	Time	Event
18-01-2019 (Friday)	9:30 am-10:00 am	Registration
	10:00 am-11:00 am	Inaugural
	11:00 am-11:30 am	High Tea
	11:30 am-1:00 pm	Expert Talk-1 Dr. K. R. Pardasani MANIT, Bhopal
	1:00 pm-2:00 pm	Lunch
	2:00 pm-3:30 pm	Expert Talk-2 Dr. K. R. Pardasani MANIT, Bhopal
	3:30 pm-3:45 pm	Tea Break
	3:45pm-5:15pm	Expert Talk-3 Dr. R. S. Thakur MANIT, Bhopal
19-01-2019 (Saturday)	10:00 am -11:30 am	Expert Talk-1 Dr. J. C. Bansal South Asian University New Delhi
	11:30 am-11:45am	Tea Break
	11:45 am-1:15 pm	Expert Talk-2 Dr. T. V. Vijay Kumar Jawaharlal Nehru University
	1:15pm-2:15pm	Lunch
	2:15pm-3:45pm	Expert Talk-3 Dr. A.K Singh MNNIT, Allahabad
3:45 pm-5:00 pm	Feedback & Valedictory	

VA

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Some pics of the event:



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