

**A Report**

On

**Short-Term Course**

**Optimization Techniques using Nature Inspired Algorithm for**

**Engineering Applications**

(13 Febuary-17 Febuary 2019)

Under

**TEQIP-III**

**Course Organized by: -**

Madhav Institute of Technology and Science,  
Race Course Road, Gole ka Mandir,  
Gwalior - 474005, Madhya Pradesh, India

2. Name of the Activity:
3. **Optimization Techniques using Nature Inspired Algorithm for Engineering Applications**
4. Date & Duration of activity:  
**13-17 Febuary 2019**
5. Approved Note sheet:

**MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR**  
(A Govt. Aided UGC Autonomous & NAAC Accredited Institute, Affiliated to R.G.P.V., Bhopal, M.P.)

No.: 05 Date: 01.01.2019

**ORDER**

With reference to Order No. 1024 dated 07.04.2018 from the office of the Director, regarding submission of proposals for the conduction of QIP Courses in the year 2018-19, proposals were received for further submission of proposals to AICTE for consideration. The AICTE has approved the conduction of following courses in the year 2018-19 under the AICTE-QIP Scheme:

Sr. No.	Department	Broad Area	Title	Dates	Duration	Coordinator(s)
1.	Mechanical Engineering	Thermodynamics and Heat Transfer	Thermodynamics and its applications to solar Energy Systems Design	09.03.2019-18.03.2019	Two Weeks	Dr. M K Gaur, Dr. C S Malvi
2.	CSE/IT	Data Mining and Image Processing	Intelligent Computing Techniques in Data Mining & Image Processing	01.02.2019-05.02.2019	One Week	Dr. Akhilesh Tiwari, Prof. Punit Johri
3.	CSE/IT	Computer Graphics, Multimedia and Image Processing	Trends and Techniques in Image Processing, Multimedia and Security Issues	15.03.2019-19.03.2019	One Week	Dr. Manish Dixit, Prof. Jainala Jha
4.	Institute Level	Sustainable Development	Sustainable Development: Methods and Practices	21.02.2019-25.02.2019	One Week	Dr. Rajeev Kansal, Dr. C S Malvi
5.	Electronics Engineering	Microwave Engineering	RF and Microwave Antennas	05.01.2019-09.01.2019	One Week	Dr. P K Singhal, Dr. V. V. Thakre
6.	Electrical Engineering	Interdisciplinary	Optimization Techniques using Nature Inspired Algorithms for Engineering Applications	13.02.2019-17.02.2019	One Week	Dr. Laxmi Srivastava
7.	Electrical Engineering	Electrical Engineering	Bio Electric Signals & Medical Imaging: Post Processing & Clinical Applications	28.01.2019-08.02.2019	Two Weeks	Dr. Arun Kumar Wadhvani
8.	Applied Science	Nanotechnology	Faculty Development Program (FDP) in Nanotechnology	14.02.2019-18.02.2019	One Week	Dr. Abhay Mishra
9.	MCA	Artificial Intelligence	Artificial Intelligence and Machine Learning	12.02.2019-16.02.2019	One Week	Dr. R S Jodan



All above coordinators are required to conduct the proposed QIP courses, as per specified schedule and QIP/Institute norms, with prior permission from undersigned for administrative/financial matters.

*(Signature)*  
**(Dr. R. K. Pandit)**  
**DIRECTOR**

Copy to:

- (i) Concerning Faculty Members (Coordinators),
- (ii) Concerning Head of the Department,
- (iii) QIP Coordinator

6. Photos of the brochure:

APPLICATION FORM	ABOUT M.I.T.S. GWALIOR	MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE GWALIOR (A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal, MP)
<b>SHORT TERM COURSE (STC)</b> <b>Optimization Techniques Using Nature Inspired Algorithms for Engineering Applications</b> <b>13<sup>th</sup> – 17<sup>th</sup> February, 2019 .</b>	Madhav Institute of Technology and Science (MITS), Gwalior was established by His Highness 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 over 60 years old. Since its inception, the institute has constantly strived for excellence and quality. Today the institute offers admission in eleven UG programmes along with research programmes leading to Masters degree in eighteen specializations and Ph.D. in various technical streams. Various departments of the institute have well equipped laboratories and experienced faculty. The institute is minor QIP centre 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.	<b>QUALITY IMPROVEMENT PROGRAMME CENTRE</b> <b>OFFERS</b> <b>AICTE-QIP SPONSORED</b>
Name (in capital letters): ..... Designation: ..... Department: ..... Organization: ..... Address: ..... Tel/ Fax: ..... Email: ..... Accommodation: Required / Not required Signature with Date: .....	<b>LOCATION</b> Gwalior city has major road and rail connection. The Institute is located on Agra - Bombay Road (NH - 3 ) and is approximately 320 km from Delhi. Gwalior Railway station is halt for most of south bound trains from Delhi. The institute is located in the heart of city and is at a distance of about 3 km from Gwalior Bus Stand/ Gwalior Railway Station.	 <b>ONE WEEK</b> <b>SHORT TERM COURSE</b> On <b>Optimization Techniques Using Nature Inspired Algorithms for Engineering Applications</b> <b>13<sup>th</sup> – 17<sup>th</sup> February, 2019</b>
<b>SPONSORSHIP CERTIFICATE</b> It is certified that our institute is recognized by AICTE. The applicant is hereby sponsored and will be permitted to attend the above short term course, if selected.	<b>ABOUT THE DEPARTMENT</b> The department of Electrical Engineering is one of the oldest departments in the institute with a glorious history of fifty six years of excellence in teaching and research. The department offers one UG and two PG programmes. Since 2012, the department is a minor QIP centre for research programme. The faculty is actively engaged in research, and has published numerous papers in National and International journals. The alumni of the department have secured their places in the higher echelons of the society and technical world.	 <b>Organized by</b> <b>Department of Electrical Engineering</b> website: <a href="http://www.mitsgwalior.in">www.mitsgwalior.in</a>
Date: ..... Signature and Seal of the Sponsoring authority (Photocopy additional copies of this form, if needed) (examined copy of registration form can also be sent by E-mail)		

### 7. List of Participants:

S. No	Name	Designation	Department	Institute
1	Khalid Ahmed	Asst. Prof	EE	Srajan Institute Of Technology, Management And Science, Ratlam, MP
2	Dr. T. Manoranjitham	Asst. Prof	CSE	SRM Institute Of Science And Technology, Chennai
3	Dr. Annapurani.K	Associate. Prof	CSE	
4	Dr. B Amutha	Prof	CSE	
5	Dr. Arjun Deo	Asst. Prof	Renewable energy	Energy Institute Bangalore, Bangalore
6	Ch. Punyasekhar	Asst Prof	EEE	Acharya Nagarjuna Univ. Andhra Pradesh
7	Shimpi Singh Jadon	Asst. Prof	Mathematics	Rajkiya Engg College, Kannauj, UP
8	Sonu Airen	Asst. Prof	IT	RGPV Bhopal

9	Adil Sarwar	Asst.Prof	EE	AMU, Aligarh,UP
10	Mohammad Ayyub	Associate Prof	EE	
11	Lokendra Sharma	Asst. Prof	CSE	Institute of engg.Jiwaji Univ Gwalior,MP
12	Manish Sharma	Asst. Prof	Mechanical engg.	
13	Arun K.S Tomar	Asst Prof	EE	R.J.I.T Tekanpur,Gwalior,MP
14	Krishna Kant Gautam	Asst Prof	EE	R.J.I.T Tekanpur, Gwalior, MP
15	Dr. Vani Agrawal	Asst prof	CSE	Prestige institute of Management, Gwalior, MP
16	Parul Saxena	Asst.Prof	MCA	MITS Gwalior, MP
17	Hemlata Arya	Asst.Prof	MCA	
18	Angad Singh Ojha	Associate. Prof	Applied Science	
19	Dr. D.K Jain	Associate Prof	Applied Science	
20	Tarun Srivastava	Asst.Prof	EE	
21	Himmat Singh	Asst.Prof	EE	
22	Pankaj Agarwal	Asst Prof	EC	
23	Santosh Sharma	Asst Prof	EC	
24	Santosh Sharma	Asst Prof	EC	
25	Manish Ku. Sagar	Prof	Mechanical engg.	
26	Vedansh Chaturvedi	Asst. Prof	Mechanical engg.	
27	Khushboo Agarwal	Asst. Prof	CSE & IT	
28	Abhilash Sonkar	Asst. Prof.	cse & IT	

8. Photos of the short-term course:

# Madhav Institute of Technology & Science, Gwalior (M.P.)

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

**AICTE SPONSORED ONE WEEK SHORT -TERM COURSE**  
On

**'Optimization Techniques Using Nature Inspired Algorithms for Engineering Applications'**

Under

**Quality Improvement Programme**

**(13<sup>th</sup> February – 17<sup>th</sup> February 2019)**

**Organized by : Department of Electrical Engineering**





*Jasmy*

*Srivastava*

Dr. Laxmi Srivastava  
Prof. and Head, EED