



POORNIMA

COLLEGE OF ENGINEERING

Promoted by Shanti Education Society, Affiliated to Rajasthan Technical University & Approved by AICTE

A REPORT ON THREE DAY NATIONAL WORKSHOP

TITLE AND DURATION: “Recent Advancements in Soft Computing and Optimization Techniques for Smart Engineering Systems” on February 24th -26th, 2020.

SPONSORS & SUPPORTERS: Department of Science and Technology, Rajasthan.

ORGANIZERS: Department of Electrical Engineering, Poornima College of Engineering, Jaipur.

FLYER / POSTER:

DST SPONSORED NATIONAL WORKSHOP ON
Recent Advancements in Soft Computing and Optimization Techniques for Smart Engineering Systems
February 24-26, 2020

HOW TO REACH
Jaipur is one of the popular Golden Triangle circuit. Jaipur is well connected to most parts of India by air, train and road. Poornima College of Engineering is located about 268 km by road & 308 km by train from Delhi. It is situated at the Jaipur, capital of Rajasthan and is enriched by several industries. Jaipur Railway Station and Jaipur Bus Stand are close by and are about 25 km from the conference venue.

REGISTRATION FORM

Name: _____
Designation: _____
Department: _____
Institute: _____
Institute Address: _____
Mailing Address: _____
Mobile No.: _____
E-mail: _____
Accommodation Required: _____
Details of the I.D. No.: _____
Issued by (Bank & Branch): _____
*Demand Draft drawn in favor of "Poornima College of Engineering", payable @ Jaipur.

Declaration of the Candidate
I declare that the details furnished are true to the best of my knowledge and I agree to abide by the rules and regulations governing the conduct of the Program.

Place: _____ Signature of Participant: _____

Sponsorship Certificate
Mr./Ms./Dr. _____ is a faculty of our institution/ Organization and is permitted to attend the National Workshop on Recent Advancements in Soft Computing and Optimization Techniques for Smart Engineering Systems conducted by Poornima College of Engineering, Jaipur from February 24-26, 2020.

Seal & Signature of Director / Principal

For information contact
Dr. Tarun Varshney
☎ : 9412143367
E-mail : tarun.varshney@poornima.org
Dr. Virendra Sangtani
☎ : 9799884938
E-mail : virendra.sangtani@poornima.org

Poornima COLLEGE OF ENGINEERING
Affiliated to RTU, Kota - Approved by AICTE & UGC under 2(F) - Accredited by NBA
ISI-6, PICO Institutional Area, Sitapura, Jaipur Rajasthan 302022
www.pce.poornima.org

DST SPONSORED NATIONAL WORKSHOP ON
Recent Advancements in Soft Computing and Optimization Techniques for Smart Engineering Systems
February 24-26, 2020


Sponsored by
Department of Science & Technology, Government of Rajasthan

Organized by
Department of Electrical Engineering

Poornima COLLEGE OF ENGINEERING
Affiliated to RTU, Kota - Approved by AICTE & UGC under 2(F) - Accredited by NBA

Dr. Mahesh Bunde
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, PICO Institutional Area
Sitapura, JAIPUR

POORNIMA COLLEGE OF ENGINEERING



Poornima College of Engineering (PCE), established as a trail of technical education in the year 2000, has its own glorious legacy of leading the young engineers to the mainstream sky of success. Its accomplishments forecast its journey through the hardships and its triumph over them one after another. PCE left no stone unturned since its establishment in turning the glorious vision into undeniable reality providing the platform for knowledge and research and their practical implementations in different engineering professional aspects. Glorious glimpse of PCE:

Highly recognized and renowned affiliated technical institution all over Rajasthan with built up area more than 3.5 acres square feet.

Affiliated to RTU, Kota & approved by AICTE, New Delhi.

The most preferred NBA Accredited Engineering College with running of six specializations of Engineering at UG Level (CSE, ECE, EE, ME, IT, ON) and two at PG level (CS & VLSI).

The only institution permitted by RTU to admit Ph/PG level students & designated as centre of excellence by BBA.

An excellent institution building its reputation in all sectors of education, research and development.

WORKSHOP AIM AND EXPECTED OUTCOMES

The workshop aims at developing expertise of soft computing and optimization techniques like Fuzzy Logic, Artificial Neural Networks, Particle Swarm Optimization etc. that can be used to solve various complex and smart engineering systems.

Expected outcomes: participants will be able to:

- Gain expertise of Soft Computing and Optimization Techniques like Fuzzy Logic, Artificial Neural Networks, Particle Swarm Optimization etc. that can be used to solve various Complex and Smart Engineering Systems.
- Apply suitable Soft Computing/Optimization Technique for linear, non-linear, complex and multi-dimensional engineering systems to reach to the solution of complex problems in various engineering domains.
- Understand features of Smart Grid in the context of Indian Grid and address various issues related to the Generation, Transmission, Distribution, Utilization, Optimization and Scheduling of electrical power in Smart Grids.
- Apply Evolutionary Algorithms to the Smart Grids and Distributed Generation systems.

COURSE CONTENTS

The topic will include:

- Optimization of power drives up there by using soft computing
- Concept of Grey wolf optimization algorithm
- Application of Grey wolf optimization algorithm with fuzzy logic
- Concept of Neuro-fuzzy
- Application of Neuro-fuzzy systems
- Modeling and simulation of wddy current feeding system using various soft computing techniques

REGISTRATION

Candidates should complete the enclosed registration form and send scanned copy by mail to the coordinator: babita.jain@poornima.org. Confirmation of eligible candidates will be on PWS (COAE-FRIST-SCOE) basis. The complete registration form should be received to the coordinator till **February 21, 2020**.

HOW TO APPLY

No registration fee for participant from AICTE approved institutions. The interested participants are requested to complete the online registration form <https://forms.gle/7PHe1P6SFLw0W8B>. A registration fee for participants from industries is ₹ 1500/- which can be paid through Demand Draft.

ACCOMMODATION

Accommodation will be provided to the participants on prior request based on availability in hostel/accommodation.

TARGET AUDIENCE

Faculty, researchers and students from Academic, Industry and Research & Development sector.

RESOURCE PERSON

Experts from IITs, IITs and other reputed institutions and industries will handle the session.

COURSE MATERIAL

Each registered participant will be provided with a set of comprehensive lecture notes.

IMPORTANT DATES

Last date of receipt of applicant	February 21, 2020
Intimation of selection by mail	February 22, 2020
Workshop duration	February 24-26, 2020

DATE AND VENUE

National Workshop will be held during February 24-26, 2020 at Poornima College of Engineering, Jaipur.

PATRON

Dr. S. N. Sethi Chairman (Emeritus) Poornima Group	Ac. Shashikant Singh Chairman, Poornima Group
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ADVISORS

Mr. M. K. M. Shah Director (Admin & Finance) Poornima Group	Mr. Hari Singh Shekhawat Director (Infrastructure) Poornima Group
Ac. Rakesh Singh Director, Poornima Group	
Dr. Mahesh H. Bundale Principal & Director Poornima College of Engineering	Dr. Pankaj Chandra Vice-Principal Poornima College of Engineering

COORDINATORS

Dr. Babita Jain Dr. Vinod Kumar Sanghvi Dr. Tarun Varshney	Professor, EE, PCE Professor, EE, PCE Professor, EE, PCE
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PCE ACADEMIC COMMITTEE

Dr. Anil Chivastava Dr. Deepika Chaudhari Dr. Himanshu Goyal Sharma Dr. Neeraj Thakur Dr. Pravin Machhindra Sawans Dr. Sandeep Gupta Dr. Harjeet Kumar Dr. Vijay Kumar Gali Mr. Brijraj Singh Solanki Muhammad Azeem Mr. Pankaj Gahar Mr. Arpit Khundawad Mr. Devendra Kumar Sada Mr. Saurav Jain Mr. Saurav Srivastava Mr. Mahesh Kumar Sharma Mr. Manish Sharma Mr. Mayank Sharma	Professor, PCE Professor, PCE Professor, PCE Professor, PCE Professor, PCE Professor, PCE Associate Professor, PCE Associate Professor, PCE Associate Professor, PCE Assistant Professor, PCE Assistant Professor, PCE Assistant Professor, PCE Assistant Professor, PCE Assistant Professor, PCE Assistant Professor, PCE Assistant Professor, PCE Assistant Professor, PCE Assistant Professor, PCE
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PROGRAM SCHEDULE:

Program Outline	
Monday, Day 1: 24 th February, 2020	
8.00 AM – 09.00 AM	Welcome Reception and Registration Opens
9.00 AM – 9.30 AM	Inaugural Function, Venue: CG-05
9.30 AM – 10.00 AM	High Tea / Coffee Break
10.00 AM -11.30 AM	Session-1 Keynote Address: Resource Person: Prof. (Dr.) Prof. Rahul Banerjee, Director, LMNIT, Jaipur. Venue: CG-05
11.30 AM - 1.15PM	Session-2 Title: Self-tuning Fuzzy controller for sun-tracker system using Grey Wolf optimization technique Resource Person: Dr. Ashish Srivastava, Professor, EED, Manipal University, Jaipur Venue: CG-05
1.15PM - 1.45PM	Lunch Break
1.45PM –3.45 PM	Session-3 Hands on Resource Person: Dr. Ashish Srivastava, Professor, EED, Manipal University, Jaipur Venue: WL01

Tuesday, Day2: 25 th February, 2020	
8.30 AM - 10.30 AM	Session-4 Topic: Optimization of power drives systems by using soft computing Resource Person: Dr. Nitin Gupta, Assistant Professor, EED, MNIT Jaipur Venue: CG-05
10.30 AM – 11.00 AM	High Tea / Coffee Break
11.00 AM - 1.15 PM	Session-5 Hands on Resource Person: Dr. Nitin Gupta, Assistant Professor, EED, MNIT Jaipur Venue: WL 01
1.15PM - 1.45PM	Lunch Break
1.45PM – 3.45 PM	Session-6 Topic: Implementation of Fuzzy logic tool in MATLAB with a real time example Resource Person: Dr. Babita K Jain, Professor, EED, PCE Jaipur Venue: WL 01

Wednesday, Day3: 26 th February, 2020	
8.30 AM - 10.30 AM	Session-7 Topic: Modelling and simulation of eddy current braking system using soft computing techniques Resource Person: Dr. Arunesh K Singh, Assistant Professor, EED, JMI, New Delhi Venue: WL 01
10.30 AM – 11.00 AM	High Tea / Coffee Break
11.00 AM - 1.15PM	Session-8 Topic: Fuzzy logic for MPTT in PV systems Resource Person: Dr. Bhavesh Kumar, Assistant professor, EED, NSIT, New Delhi Venue: WL 01
1.15PM–2.00PM	Lunch Break
2.00PM – 3.00 PM	Valedictory Function & Feedback Session Venue: CG-05

WORKSHOP INTRODUCTION:

Department of Electrical Engineering, Poornima College of Engineering, Jaipur has organized **DST (Rajasthan) SPONSORED NATIONAL WORKSHOP ON “Recent Advancements in Soft Computing and Optimization Techniques for Smart Engineering Systems”** on **February 24-26, 2020**.

The workshop aimed at developing expertise of soft computing and optimization techniques like Fuzzy Logic, Artificial Neural Networks, Particle Swarm Optimization etc. that can be used to solve various complex and smart engineering systems.

The main expected outcomes was to enable the participants gain expertise of Soft Computing and Optimization Techniques like Fuzzy Logic, Artificial Neural Networks, Particle Swarm Optimization etc. that can be used to solve various Complex and Smart Engineering Systems. Also it is expected that the participants will be able to apply suitable Soft Computing/Optimization Technique for linear, non-linear, complex and multi-dimensional engineering systems to reach to the solution of complex problems in various engineering domains. Participants are also expected to understand features of Smart Grid in the context of Indian Grid and address various issues related to the Generation, Transmission, Distribution, Utilization, Optimization and Scheduling of electrical power in Smart Grids. They are also expected to apply Evolutionary Algorithms to the Smart Grids and Distributed Generation systems.

The Certificate of participation were awarded to all the participants on successful completion of the program.

Registration link : <https://forms.gle/7FHe1P6tSPLwVtBW9>



**Three Day Workshop
on**

Govt. of Rajasthan

**"Recent Advancements in Soft Computing and Optimization Techniques for
Smart Engineering Systems"
February 24th-26th, 2020**

Organized by:

Department of Electrical Engineering, **Poornima College of Engineering, Jaipur**

Sponsored by:

Department of Science and Technology, Rajasthan

Inaugural Session Q- Sheet

Friday, 24th February, 2020

Venue: CG 05, PCE, Jaipur

S. No	Activity	Duration	Time
1.	Reporting and Registration of Delegates	30 Min	08:30 AM-09:00AM
2.	Welcome of Dignitaries by the anchors	5 Min	09:00 AM -09:05 AM
3.	Request the dignitaries for lightning of lamp A. Chief Guest Prof. (Dr.) Rahul Banerjee, Director LNMIIT, Jaipur B. Dr. Mahesh M Bundele, Principal & Director, Poornima College of Engineering C. Mr. Pankaj Dhemia, Vice Principal, Poornima College of Engineering D. Dr Virendra Sangtani, HOD, EE E. Dr. Babita Jain, Organizing Secretary F. Dr Tarun Varshney, Coordinator	5 Min	09:05 AM -09:10 AM
4.	Felicitation of Chief Guest Prof. (Dr.) Rahul Banerjee by Dr. Mahesh M Bundele, Principal & Director, Poornima College of Engineering	5 Min	09:10 AM -09:15 AM
5.	Welcome Address by Dr. Babita Jain, Professor EE, PCE	5 Min	09:15 AM -09:20 AM
6.	Words of Wisdom by Dr. Mahesh M Bundele, Director, Poornima College of Engineering	5 Min	09:20 AM -09:25 AM
7.	Address by Prof. (Dr.) Rahul Banerjee	5 Min	09:25 AM -09:30 AM
8.	Vote of Thanks by Dr. Virendra Sangtani, HOD, EE	2 Min	09:30 AM -09:32 AM
9.	Group Photograph	3 Min	09:32 AM -09:35 AM
10.	High Tea	25 Min	9.35 AM -10.00 AM


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EVENT PHOTOGRAPHS:




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Poornima College of Engineering - Activity Report



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SUMMARY OF SESSION:

Prof. (Dr.) Ashish Shrivastava spoke on Self-tuning fuzzy controller for sun-tracker system using gray wolf optimization (GWO) technique. He said the design and implementation of TSK fuzzy with variable membership functions has been used to test different objective functions, i.e., MSE, IAE, ISE, ITAE, ITAE & ITAU, ISE & ISU and IAE & IAU, in optimization process. The obtained results authenticate that GWO based optimization technique is a good choice to find optimal solution of fuzzy tuning parameter and error minimization on different constrain set for Sun-Tracker System.

Dr. Babita Jain discussed on the topic fuzzy logic. She covered what is Fuzzy Logic, Fuzzy sets, Membership function, Difference between Fuzzy and Probability, Fuzzy Inference, Why Fuzzy Logic.

Dr. S. DasMahapatra spoke on Game Theory and Optimization. He said a game is a competitive activity in which multiple agents contest or compete to maximize their profit according to a set of 16 rules. He discussed some Examples Market- {Between firms for setting prices, adjusting quantities and finally to maximize profit} Politics- {Contesting election, campaigning strategy, vote share} Wireless Communication- {Maximize spectrum bandwidth, throughput, avoid packet collision} Auction of Art, Coal Blocks, Spectrum etc.

Dr. P. M. Sonwane discussed on Soft Computing through Particle Swarm Optimization. He covered Why Optimization is required, When to use PSO, How to use PSO, What do you mean by PSO parameter tuning, Practice with one example of your own.

Dr. Rahul Banerjee, discussed on Bio-Inspired Routing in VANETs & Intelligent Transportations Systems. He covered Fuzziness in thoughts and many human expressions, Neural Information Processing, Genetic evolution, Creatures' Behaviour like Ants, Bee, Firefly, Cuckoo, Particle Swarm

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LIST OF PARTICIPANTS:

S N o.	Applicant name	Are you faculty?	Designation	Are you student?	Category	Department	Institute	Mobile number	Is institute AICTE approved?	Academic /Industry	Accommodation required
1	Vikas Verma	Yes	Assistant Professor	Faculty - Outside	1	CSE	Jalpur National University	8560892484	Yes	Academic	No
2	Dr. Sandeep Gupta	Yes	Assistant Professor	Faculty - Outside	1	EE	JEC RC University	8769065042	Yes	Academic	No
3	Amit Sharma	No		PG - Outside	1	CMI	MNI T	7791041266	Yes	Academic	No
4	Sohit Agarwal	Yes	Assistant Professor	Faculty - Outside	1	CE & IT	Suresh Gyan Vihar University, Jalpur	9251836030	Yes	Academic	No
5	Nagendra Kumar Swarnkar	Yes	Professor	Faculty - Outside	1	EE	Suresh Gyan Vihar University, Jalpur	9828229045	No	Academic	No
6	Priyank Agarwal			Faculty - Poornima Group	2	CSE	PGI	8949512266	Yes	Academic	No
7	Dr. Sushindra Kumar Gupta		Assistant Professor	Faculty - Poornima Group	2	CMI	PIET	9461239358	Yes	Academic	No
8	Udit Mamodya		Assistant Professor	Faculty - Poornima Group	2	EE	PIET	9694802324	Yes	Academic	No
9	Priyanka sharma		Assistant Professor	Faculty - Poornima Group	2	ECE	PIET	9983175627	Yes	Academic	No

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	Suraj Kumar Prasad	No		UG - Poornima Group	3	CSE	PIET	9955947106	Yes	 विज्ञान एवं प्रौद्योगिकी विभाग DEPARTMENT OF SCIENCE & TECHNOLOGY	Academic	Yes
11	Talmini	No		UG - Poornima Group	3	CSE	PIET	7014844324	Yes	Academic	Yes	
12	Yuvraj Dagur	No		UG - Poornima Group	3	CSE	PIET	8949090660	Yes	Academic	No	
13	Atishey Jain	No		UG - Poornima Group	3	CSE	PIET	9799415822	Yes	Academic	No	
14	Shubham Singh dagur	No		UG - Poornima Group	3	CSE	PIET	9511559076	Yes	Academic	Yes	
15	Yuvraj Saxena	No		UG - Poornima Group	3	CSE	PIET	9116123915	Yes	Academic	No	
16	Kunal Kumar	No		UG - Poornima Group	3	CSE	PIET	7033279724	Yes	Academic	Yes	
17	Kunwar Abhishek	No		UG - Poornima Group	3	BCA	PU	8368024694	Yes	Academic	No	
18	Chetna Bhurani	No		UG - Poornima Group	3	BCA	PU	9983245564				
19	Naman Dixit	No		UG - Poornima Group	3	CSE	PU	9461981920	Yes	Academic	No	
20	Shashank Singh	No		UG - Poornima Group	3	CSE	PU	9694631058	Yes	Academic	No	
21	Anind Kumar Gupta	No		UG - Poornima Group	3	EE	PU	9877967479	No	Academic	No	
22	Nayan Kumar	No		UG - EE, PCE	4	EE	PCE	9507898557	Yes	Academic	No	
23	Dr Himani Goyal Sharma		Professor	Faculty - EE, PCE	5	EE	PCE	9676974176	Yes	Academic	No	
24	Arpit khandelwal		Assistant Professor	Faculty - EE, PCE	5	EE	PCE	8058227694	Yes	Academic	No	
25	Amit Shrivastava	Yes	Professor	Faculty - EE, PCE	5	EE	PCE	9314860660	Yes	Academic	No	
26	Dr. Deepika chauhan	Yes	Professor	Faculty - EE, PCE	5	EE	PCE	9252605292	Yes	Academic	No	



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27	Devendra Kumar Doda	Yes	Assistant Professor	Faculty - EE, PCE	5	EE	PCE	9352260373	Yes	Academic	No
28	Mohammad Asadul Iqbal	Yes	Associate Professor	Faculty - EE, PCE	5	EE	PCE	9602022384	Yes	Academic	No
29	Pankaj Ghakkar	Yes	Assistant Professor	Faculty - EE, PCE	5	EE	PCE	7737764255	Yes	Academic	No
30	Dr. Pravin Machhindra sonwane	Yes	Professor	Faculty - EE, PCE	5	EE	PCE	8805868462	Yes	Academic	No
31	Trimesh Kumar		Assistant Professor	Faculty - EE, PCE	5	EE	PCE	9413056699	Yes	Academic	No
32	Dr. Payal Bansal	Yes	Associate Professor	Faculty - Non - EE, PCE	6	ECE	PCE	9785487195	Yes	Academic	No
33	Arpit Singh Bhadoria		Assistant Professor	Faculty - Non - EE, PCE	6	Civil Engineering	PCE	8770918450	Yes	Academic	No
34	Amit Kumar Jain	Yes	Assistant Professor	Faculty - Non - EE, PCE	6	ECE	PCE	9509677599	Yes	Academic	No
35	Tarun Mishra	Yes	Assistant Professor	Faculty - Non - EE, PCE	6	ECE	PCE	9982013388	Yes	Academic	No
36	Manisha Kumawat	Yes	Assistant Professor	Faculty - Non - EE, PCE	6	ECE	PCE	8209399842	Yes	Academic	No
37	mukesh chand		Assistant Professor	Faculty - Non - EE, PCE	6	ECE	PCE	9461779584	Yes	Academic	No
38	Brijraj Singh Solanki	Yes	Assistant Professor	Faculty - Non - EE, PCE	6	ECE	PCE	9829533943	Yes	Academic	No


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39		Yes	Assistant Professor	Faculty - Non - EE, PCE	6	IT	PCE	7062247280	Yes	Academic	No
				UG - Non - EE, PCE	7	ECE	PCE	7014383427	Yes	Academic	No
40	Aman Jain	No		UG - Non - EE, PCE	7	ECE	PCE	7737821823	Yes	Academic	No
41	Rahul Rathl	No		UG - Non - EE, PCE	7	ECE	PCE	6377163048	Yes	Academic	No
42	Vansh Gupta	No		UG - Non - EE, PCE	7	ECE	PCE	9262225777	Yes	Academic	No
43	Manish Kumar	No		UG - Non - EE, PCE	7	ECE	PCE	7488103127	Yes	Academic	No
44	Vikash kumar	No		UG - Non - EE, PCE	7	ECE	PCE	8094611961	Yes	Academic	No
45	Ananya katara	No		UG - Non - EE, PCE	7	ECE	PCE	8619920374	Yes	Academic	No
46	Harsh saini	No		UG - Non - EE, PCE	7	ECE	PCE	9.19057E+11	Yes	Academic	No
47	Ishita chauhan	No		UG - Non - EE, PCE	7	ECE	PCE				


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FEEDBACK ANALYSIS:

DST (Rajasthan) SPONSORED NATIONAL WORKSHOP ON "Recent Advancements in Soft Computing and Optimization Techniques for Smart Engineering Systems" on February 24-26, 2020.			
	Attributes	Comments	No. Of Comments
Program	Organizing level	Excellent	8
		Very Good	7
		Good	6
		Poor	2
	Guests/ Dignitaries	Excellent	16
		Very Good	2
		Good	3
		Poor	2
		Excellent	5

The Talk Contents	Reception & publicity	Very Good	7	 विज्ञान एवं प्रौद्योगिकी विभाग DEPARTMENT OF SCIENCE GOVERNMENT OF RAJASTHAN
		Good	9	
		Poor	2	
	Relevance	Excellent	8	
		Very Good	7	
		Good	8	
		Poor	0	
	Depth	Excellent	8	
		Very Good	8	
		Good	5	
		Poor	2	
	Interest	Excellent	8	
		Very Good	9	
		Good	5	
		Poor	1	
	Importance	Excellent	10	
		Very Good	7	
		Good	5	
		Poor	1	
	Understandsding	Excellent	5	
		Very Good	8	
		Good	7	


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VOTE OF THANKS:



Dr Babita Jain thanked all the participants for wholeheartedly take active participation in the National Level Three days workshop sponsored by De Department of Science and Technology, Rajasthan. Out of the overwhelming reponse of 85 participants, 47 participants were shortlisted. The main objective though very comprehensive highlighted on various techniques used for smart Engineering Systems and their recent advancement. After a theory session of almost four hours of theory Interactive Session, at least two hours of hands on practice was given to 29 the participants . The workshop aimed at developing expertise of soft computing and optimization techniques like Fuzzy Logic, Artificial Neural Networks, Particle Swarm Optimization etc. that can be used to solve various complex and smart engineering systems.

The participants gained expertise in various techniques of Soft Computing and Optimization like Fuzzy Logic, Artificial Neural Networks, Particle Swarm Optimization etc. They were also able to solve various Complex and Smart Engineering Systems. The participants were able to apply suitable Soft Computing/Optimization Technique for linear, non-linear, complex and multi-dimensional engineering systems to reach to the solution of complex problems in various engineering domains. Participants also understood features of Smart Grid in the context of Indian Grid and address various issues related to the Generation, Transmission, Distribution, Utilization, Optimization and Scheduling of electrical power in Smart Grids. They are also expected to apply Evolutionary Algorithms to the Smart Grids and Distributed Generation systems.

FINALLY, An INSPIRING QUOTE BY MARTIN LUTHER KING, “AN INDIVIDUAL HAS NOT STARTED LIVING UNTIL HE RISES ABOVE THE CONFINES OF HIS INDIVIDUALISTIC CONCERNS TO THE BROADER CONCERNS OF ALL HUMANITY