



PANDIT DEENDAYAL
PETROLEUM UNIVERSITY

TWO DAY NATIONAL WORKSHOP ON

SOFT COMPUTING TECHNIQUES IN OPTIMIZATION USING MATLAB



27-28th MARCH 2015

ORGANIZED

BY

DEPARTMENT OF MATHEMATICS &
COMPUTER SCIENCE,
SCHOOL OF TECHNOLOGY
PANDIT DEENDAYAL PETROLEUM UNIVERSITY,
GANDHINAGAR

CO-ORDINATORS

DR. POONAM MISHRA
DR. SHOBHIT NIGAM



ABOUT THE UNIVERSITY

Pandit Deendayal Petroleum University (PDPU) located in Gandhinagar, Gujarat is recognized by UGC under section 2(7). It also has been accorded recognition as SIRO by DSIR. PDPU is a world-class institution, modelled on the IITs & IIMs and creates a vibrant brigade of knowledge leaders in the energy, engineering and technology sector. The University offers programs to address the need for trained human resources in the domains of Science, Technology, Management and Humanities.

It is a matter of pride that the University has enlarged its scope by offering courses in diversified areas like core engineering, nuclear engineering, petroleum technology and management, solar energy and liberal arts in a very short span of time since its establishment in 2007.

It intends to broaden the opportunities for students and professionals to develop core subject knowledge which are duly complemented by leadership training interventions, thereby helping the students to make a mark in the global arena. This objective is being further addressed through a number of specialized and well-planned undergraduate, post-graduate and doctoral programs as well as intensive research projects.

In addition to this, PDPU offers multiple courses ranging from engineering, arts and management along with maximum exposure and opportunities to its students through various National and International exchange programs with best University worldwide. For development of its faculties and staff the University endeavors for various Joint Exchange and Research programs.

ABOUT THE DEPARTMENT

The Department of Mathematics and Computer Science is formed in the year 2011. Since then, the Department is serving all five schools of the University and its members are actively involved in teaching and research activities. They have published many research papers in peer reviewed National and International Journals and presented papers in National and International conferences in India and abroad. Some of the major thrust areas in which the Departmental members are actively involved comprise Mathematical Modeling, Optimization, Solid Mechanics, Computational Neuroscience, Computational Biology, Empirical Orthogonal Function Analysis, Computational Seismology, Software Reliability, Theory of Relativity, etc. As a recent progress the department has initiated M. Sc. (Mathematics) and Ph.D. programmes. Further Department has also proposed Integrated M.Sc. and M.Phil. programmes in Mathematics.

OBJECTIVE OF WORKSHOP

Soft computing techniques play an important role in science and engineering and the implementation of such techniques is computationally a hard task. The proposed workshop will have talks on broad areas of soft computing techniques which have wide applications in the real life problems. The session will include a formulation and implementation of such problems using MATLAB. Also, couple of sessions will be conducted for the use of MATLAB to demonstrate its applications to specific topics such as Neural Networks and Genetic Algorithms.

The total number of participants is limited to 40.

REGISTRATION FEES

Research Scholars – 600/-

Faculty Members – 1000/-

No TA/DA will be provided to participants

Registration fees include registration kit, lunch and high tea.

HOW TO REGISTER

Registration can be done by clicking on link given below.

To register online please click here

<https://docs.google.com/forms/d/1z8GY0Uw3eUO3qnpazpSHUIMZkq9ynZQWVN6tproyeY/viewform?c=0&w=1>

Registration fees need to be paid by on-line payment mode within two days after receiving confirmation from the co-ordinators

poonam.mishra@sot.pdpu.ac.in - 079 – 232-75479

shobhit.nigam@sot.pdpu.ac.in - 079 – 232-75462

Fax - 079 – 232-75030

Details for on-line payment are as below:

Name of the account(Beneficiary) :

Pandit Deendayal Petroleum University

Name and Address of Bank :

State Bank of India, PDP Branch, Raisan, Gandhinagar.

Current Account no: **31803338764**

IFSC code: **SBIN0014937**

COURSE CONTENT

- Introduction to MATLAB and its toolboxes
- Solving ODE and IVP
- Genetic Algorithms
- Neural Networks
- Optimization Techniques

SCHEDULE

		TASK
27.03.2015		
8:30	9:00	Registration
9:00	9:30	Inauguration
9:30	9:45	Refreshment
9:45	11:15	I – Session
11:15	11:30	Tea Break
11:30	1:00	II – Session
1:00	2:00	Lunch
2:30	3:30	III- Session
3:30	3:45	Tea Break
3:45	5:15	IV- Session
28.03.2015		
8:30	09:00	Refreshment
09:00	10:30	I-Session
10:30	10:45	Tea Break
10:45	11:45	II- Session
11:45	12:00	Tea Break
12:00	01:00	III-Session
01:00	02:00	Lunch
02:00	03:30	IV- Session
03:30	03:45	Tea Break
03:45	04:15	Valedictory

ORGANIZING COMMITTEE

PATRON

Prof. H. B. Raghavendra
Director General, PDP

CHAIRMAN

Prof. T. P. Singh
Head, Dept. of Maths & Comp. Science

MEMBERS

Dr. Md. Ansari
Dr. Manoj Sahni
Dr. Brajesh Jha
Dr. Bhasha Vachharajani
Mr. Jwngsar Brahma
Mr. Dishant Pandya

