

Registration Form

Summer Training Program/Summer Internship Program
on

Engineering Systems: Application of Optimization Algorithms

Malaviya National Institute of Technology
Jaipur

1st June to 15th July 2020

Full Name (Block Letter):

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Name of College/Institution/Organization:

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Qualification:

Address:

.....

.....

Pin code:

Phone No.:

Mobile No.:

E-mail:

Do you need accommodation: (Yes/ No):

Details of registration fee:

Mode of payment (NEFT/IMPS):

Transaction No:

Reference No:

Amount paid:

The above information is accurate to the best of my knowledge at the time of completion of the form. Also, I agree to abide by the rules and regulations of the program and MNIT Jaipur.

It is also required to fill the Google form (available at <https://forms.gle/XkB5W1h1Y62Ne6paA>) for registration in program.

Date:

Signature of the candidate

Organizing Committee

Patron

Prof. Udaykumar R. Yaragatti
Director, MNIT Jaipur

Coordinators

Dr. Rajesh Kumar
Professor

Department of Electrical Engg., MNIT Jaipur

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Assistant Professor

Department of Electrical Engg., MNIT Jaipur

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Dr. Ravita Lamba
Assistant Professor

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Address for Communication

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Self-Financed Summer Training Program/Summer Internship Program

with motto
“Design & Implementation”
on

Engineering Systems: Application of Optimization Algorithms

1st June to 15th July 2020



Organized by:
Department of Electrical Engineering
Malaviya National Institute of Technology
Jaipur Rajasthan, 302017, India

www.mnit.ac.in



About Program

This summer training program/summer internship program is interdisciplinary which will cover case studies and applications from different disciplines of engineering. The program is aimed at providing essential knowledge as well as training to engineering students, industrial practitioners, and faculty of engineering. Since, the control is essential part of design of any engineering system; program will cover basics of control systems and applications to different areas. The program is designed in such a manner so that it will be helpful in (i) understanding of various systems, (ii) final year projects of undergraduate students, (iii) dissertation of postgraduate students, (iv) finding research problems and publications of research articles in the area of design and applications of optimization, and (v) simulation of control of various engineering systems using MATLAB/ Simulink.

Target Audience

Since, the program is interdisciplinary in nature and will be covering the applications from various fields of engineering; students, faculty and industry experts from all fields of engineering e.g. Electrical Engineering, mechanical engineering, Chemical Engineering, Computer Science, Information Technology, Civil Engineering, Mining Engineering, Metallurgical Engineering, etc. are encouraged to participate in this program.

Key Benefits of the Program

The interns will be provided

- Individual as well as batch wise guidance.
- Theory as well as lab sessions.
- Certification through MNIT and TEQIP office.
- The ID card will also be provided to all students during their tenure at MNIT.

The interns will also be encouraged to

- Extend the work done in internship to project.
- Write research paper on the topic of internship.

Further implement the results on hardware setup.

Contents of the Program

The main contents of the program are

- The analysis of various engineering systems.
- Different optimization algorithms
 - Classical methods.

- Heuristics based methods.
- Metaheuristic based methods.
- Design and control of various engineering systems.
- Design and control for SISO and MIMO systems.
- Design and control for interacting MIMO systems.
- Simulation of controller design for various systems using MATLAB/Simulink.
- Design and implementation of controller in hardware.

Registration fee

The details of registration fee are as under

Category	Fee* (INR)
UG student	10,000
PG/PhD student	11,000
Faculty	12,000
Participant from industry	15,000

*18% GST shall also be included in addition to above fee while paying the fee. It is also required to fill the Google form (available at <https://forms.gle/XkB5W1h1Y62Ne6paA>) for registration in program.

Mode of Payment

Demand Draft: Demand draft (DD) payable at Jaipur, in name of: Registrar (Industrial Consultancy Cell), MNIT Jaipur.

NEFT/IMPS: Registrar (ICC) MNIT Jaipur.

Account No. 676801081625, IFSC CODE: ICIC0006768 (ICICI Bank, MNIT).

The selection of interns will be on first-come-first-served basis. Registration fee is non-refundable. The applicant should mail the scanned copy of filled registration form to ravita.ee@mnit.ac.in. However, the last date of receiving the filled in application form is **May 20th, 2020**.

Accommodation

Accommodation is available in the hostel of MNIT for outstation participants on nominal charges. Charges for hostel accommodation are approximately Rs. 50/- for common room and Rs. 200/- for guest room per day. The participants will not be paid any TA/DA for attending the program. Accommodation charges are tentative and

all right reserved by the hostel administration of MNIT Jaipur.

About MNIT

Malaviya National Institute of Technology (MNIT), Jaipur is one of the NITs established by Ministry of Human Resource Development, Government of India. The Institute, earlier known as MREC, was established in 1963 as a joint venture of the state and central Governments. Later in 2002, the college was given the status of National Institute of Technology and on August 15, 2007, proclaimed Institute of National Importance through Act of Parliament. MNIT campus spreads over 325 acres of lush green area in the prime location of Jaipur city. The Institute has completed its Golden Jubilee year 2012-13 and as apart of year-long celebrations of its 50 years of teaching and excellence, various academic activities were organized. At present, in addition to research, consultancy and developmental activities, the Institute offers UG and PG (M. Tech./M.Sc. & Ph.D.) level courses to about 5000 students in almost all leading fields of engineering, technology, management and sciences.

Department of Electrical Engineering

The Electrical Engineering Department is one of the oldest departments at MNIT Jaipur. Currently, the department offers undergraduate courses in Electrical Engineering along with three postgraduate courses. The research domains of the department span over various areas of Electrical Engineering. The department continually provides collaborative opportunities with National/International Universities, resulting in a global exposure in research.

About Jaipur

Jaipur which is the capital of Rajasthan is also known as Pink City. Jaipur is a popular tourist destination in India and forms a part of the Golden Triangle tourist circuit along with Delhi and Agra. The famous tourist attractions of Jaipur are Albert Hall, Hawa Mahal, Jantar Mantar, Jal Mahal, Amber Fort, Jaigarh Fort, Nahargarh Fort, City Palace, Sisodia Rani Garden, Birla Temple, etc.

Other tourist places which are near to Jaipur are Udaipur, Jodhpur, Ajmer, Bikaner, Sikar, etc. which are famous tourist destination.