Course Coordinator

- **Dr. G. D. Agrawal**

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Course Co-Coordinators

- **Dr. Nand Kumar**

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- **Dr. Ashwani Kumar**

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Registration Fees

Students from MNIT	:INR 1000/-
Students and Research Fellows	: INR 2000/-
Institutional Participants/ Faculty Members	: INR 3000/-
Professionals	: INR 5000/-

Overview of the Course

System Dynamics is a theory of structure and behavior of system; and presents a very easy to use intuitively appealing approach and yet uses mathematically sophisticated methodologies while undertaking practical systems enquiry. It is widely applicable in industrial, engineering and management systems. It is a powerful method to gain useful insight into situations of dynamic complexity and policy resistance. System dynamics theory has been employed to address practically every sort of feedback system. It includes works in Corporate Planning and Policy Design, economic behavior, public management and policy, biological and medical modeling, theory development in natural and social sciences, dynamic decision modeling, complex nonlinear dynamics, software engineering, supply chain management, tourism system dynamic model, business systems, political decision making, ecological systems, socio-economic systems, agricultural systems, environmental systems and Integrated City Development plans.

This course on System dynamic modeling holds the potential to help the engineers, managers and policy planners to meet the challenges of decision making and policy formulation for the development through modelling of a system. Besides helping in decision making, system dynamics models also help managers communicate information about the structure of the system and show stakeholders, visually and with minimum of technical jargon, the consequences of different actions.

About MNIT

Malaviya National Institute of Technology is one of the premier NITs of India, fully funded by Ministry of Human Resource Development (MHRD), Government of India. The Institute was established in 1963 as a joint venture of the Government of India and the Government of Rajasthan, with the name as Malaviya Regional Engineering College, Jaipur. Its campus spreads over 325 acres of area in the central location of Jaipur city. It imaginatively presents a spectacle of harmony in modern architecture, and natural beauty which enthralls and inspires. The institute was given the status of a National Institute of Technology and Deemed University on June 26, 2002, and proclaimed the Institute of National Importance through Act of Parliament on August 15, 2007. The campus of the institute consists of the institute buildings, halls of residence and staff colony. The Institute offers undergraduate and post graduate (B.Tech., B.Arch., M.Tech., M. Plan., M.Sc., MBA and PhD) programmes to about 4500 students in leading field of Engineering, Technology, Architecture, Management and Sciences. The institute is actively engaged in research, consultancy and developmental activities, beside imparting regular teaching. More than 12,000 students have already been graduated since its establishment.

How to reach MNIT

Jaipur is well connected by road, rail and air services. MNIT is situated on Jawaharlal Lal Nehru (JLN) Marg and is about 9 kms from main-railway station as well as Central Bus Stand (Sindhi Camp) of Jaipur. Airport (located at Sanganer) is about 5 kms away from the institute.

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR

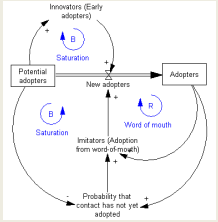
ANNOUNCES

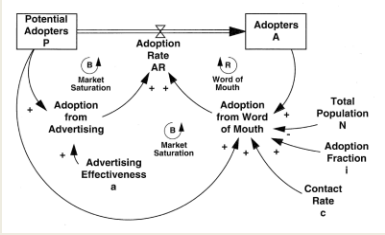
SHORT TERM TRAINING PROGRAMME

ON

Application of System Dynamics Modeling & Research Methodology

4TH –8TH SEPTEMBER 2018





Course Outline

The course shall intend to provide insights on the following topics:

- Research Methodology
- Modelling & Validation
- Statistical Tools & Techniques
- System Dynamics & Modelling
- Optimization Techniques
- Policy Planning
- Survey Methods

About Mechanical Engineering Department

Mechanical Engineering Department started functioning in 1963 at the start of the institute. The department offers a four-year course leading to the Bachelor's Degree in Mechanical Engineering. It also offers four full-time and/or part-time postgraduate programs in Industrial Engineering, Energy Engineering, Design Engineering & Production Engineering. Department also offers Ph.D programme in various specializations of the Mechanical Engineering.

About Architecture & Planning Department

The Department of Architecture was founded in 1988 and the Bachelor of Architecture course was started in 1989 and M Planning, Post graduate course in Urban Planning started in 2008, and the Department also started the Doctoral Programme in 2014. The department is one of the top institutes imparting education in Architecture & Planning in the country.

Experts

The course content will be delivered from a pool of experts on the subject mostly from MNIT, Jaipur and other academic institutes i.e., IIT's/NIT's & industry like

- Dr. V. Devadas, Professor, IIT Roorkee
- Dr. Virupaxi Bagodi, Professor, Government Engineering College, Haveri
- Prof. D. K. Jain, MNIT Jaipur (Retd.)
- Prof. G. D. Agrawal, MNIT Jaipur
- Prof. M. L. Mittal, MNIT Jaipur
- Dr. Satish Kumar, MNIT Jaipur
- Dr. Deepak Verma, MNIT Jaipur
- Dr. Nand Kumar, MNIT Jaipur
- Dr. Satish Pipralia, MNIT Jaipur
- Dr. Ashwani Kumar, MNIT Jaipur

Who Should attend?

This course is aimed at engineers, managers and policy planners, faculties of Degree / Diploma levels, PG students, Research Scholars, practicing professionals in government & industry of various disciplines, shall benefit and are eligible to attend the course.

Important Dates

Last date of Registration with Fees: 18th August, 2018
Intimation of confirmation: 20th August, 2018
Course duration: 4TH - 8th September, 2018

Address for Correspondence

Dr. Nand Kumar and Dr. Ashwani Kumar

Department of Architecture & Planning,

MNIT Jaipur, JLN Marg, Jaipur 302017

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E.mail: nkumar.arch@mnit.ac.in, akumar.arch@mnit.ac.in

REGISTRATION FORM

STTP on Application of System Dynamics Modeling & Research Methodology

Full Name:_____

Designation:_____

Department:_____

Organization:_____

Experience (in years) Teaching:_____ Industry:_____

Address of Correspondence:_____

_____

Pin Code:_____ Phone:_____

Mobile No.:_____ E-Mail:_____

Registration Category: (Please tick one)

- ❑ Student/ Research Scholar
- ❑ Institutional Participants/ Faculty Members
- ❑ Professionals/ Participants from Industry

Details of Registration Fee:_____

Name of Bank & Branch:_____

_____

NEFT Tr./ DD No.: _____ Dated:_____

Amount:_____

Note: DD should be drawn in favor of " **Registrar, MNIT Jaipur**" payable at Jaipur OR NEFT transfer. **A/C No.: 676801700388, Bank: ICICI Bank, Branch: MNIT Jaipur, IFSC Code: ICIC0006768**

Date:_____ Signature of Participant:_____

The applicant is hereby sponsored and will be permitted to attend this STTP.

Signature and stamp of the Sponsoring Authority

(Please post/email your completely filled registration form along with DD/NEFT details)