

## Teaching-Learning Centre of NIT Warangal:

The Teaching-Learning Centre (TLC) is being established at NIT Warangal with grants from the Ministry of Human Resource Development, Government of India under the scheme, 'Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching' (PMMMNTT). Under this scheme a separate building for TLC with the state-of-art training facilities which include a studio for video recording of lectures is going to come up. Many senior and young faculty members across various departments of the Institute are associated with this center as members of the Core-Team.

One of the important objectives of the center is to conduct short term and medium term training programs for Newly Inducted Teachers, In-Service Teachers and Teacher-Aspirants in Science and Engineering disciplines, so as to enhance their skills.

Other activities of the TLC include preparation of e-learning materials, offering courses on-line, curriculum development, carrying out research in pedagogy and integrating ICT into teaching-learning process.

## About NIT Warangal and Warangal

National Institute of Technology Warangal, formerly known as Regional Engineering College was established in 1959. Over the years it has developed into a premier institute of higher learning and is ranked among the top technical education institutions in India. There are 14 Departments offering eight undergraduate and 31 post-graduate programmes besides doctoral programmes. About 5000 students across the country and about 500 international students study in the campus. It is a fully residential campus sprawling over 250 acres with excellent infrastructure in the form of state of the art library, seminar halls, guest houses and laboratories.

Warangal is the second largest city of the new state of Telangana. It is situated at a distance of 140 km from the state capital Hyderabad (Nearest Airport). It is well connected by Rail (Kazipet Junction is two km away and Warangal Station is 12 km away) and by Road (NH 202). Warangal is renowned for its rich historical and cultural heritage. It was the seat of erstwhile 5<sup>th</sup> Kakatiya dynasty. It is a place of tourist attraction with a number of historical monuments like Thousand Pillars Temple, Warangal Fort, Bhadrakali Temple, Ramappa Temple and Laknavaram Lake.

## How to Apply:

Eligible candidates may apply by submitting the scanned copy of the filled in registration form to [korla.nitw@gmail.com](mailto:korla.nitw@gmail.com) by 10<sup>th</sup> June 2017

## Intimation of selection:

As the programme is conducted in a workshop mode with hands-on sessions, the number of participants in the workshop is limited to **40**. On receipt of the registration form, participants will be sent selection of their participation through Email by **15<sup>th</sup> June 2017**. See the following link for updates.

<https://sites.google.com/site/drsrikanthkorla/mspdpe-2017>

**Payment of Registration fees:** After receiving selection intimation only, the participants will send the required registration fee as per the details and mode of payment given in the table under registration fee and send the scanned copy of evidence of payment so as to reach the coordinator before **25<sup>th</sup> June 2017**.

After the receipt of registration fees only, **confirmation of participation** will be sent through e-mail immediately.

*Candidates are advised to register early to avoid disappointment. For any queries regarding this workshop, please contact the Coordinators.*

### Coordinators:

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**PMMMNTT  
Scheme**



*One Week Skill Development Programme for  
Faculty on*

**Modelling, Simulation and  
Product Design Practices in  
Engineering (MSPDPE 2017)**

**03<sup>rd</sup> - 08<sup>th</sup>, July 2017**

**Call for Registration and Participation**

**Coordinators**

**Dr. Srikanth Korla**  
**Dr. V. Vasu**

**Organized by**

**Mechanical Engineering Department**

*in association with*

**Teaching Learning Centre  
National Institute of Technology  
WARANGAL – 506 004  
Telangana State, INDIA**

## Overview of the Programme:

New Product Development (NPD) is of crucial importance for competitiveness, survival and prosperity of any company. NPD contains a set of subjects and skills and this requires integration work that goes beyond teaching of concepts within the compartmentalized subjects. NPD needs to be addressed within a practical context surrounded by problems that must move beyond the theoretical knowledge.

There is a gap between theory and practice, and the problem-solving learning can help in closing such a gap as it motivates the students to apply concepts; software, modelling and simulation techniques in order to design and develop a new prototype/ working model rather than memorizing certain theories and facts. In this background, this faculty development workshop is planned to teach modelling, Simulation and Product Design and Development Practices with an integrated approach.

The first part of the course content is based on teaching methods developed by renowned psychologists and modern Designers for Engineering Product Development Process (EPDP). The second part is planned to address the supporting soft skills required to fulfill the realization of this process; learning the modelling and simulation techniques with the help of hands on experience provided by the experts in each of the skill areas including CAD modelling, programming, and by experiencing mechatronics. During the third part of the course, the participants will be trained to design and develop innovative products using the knowledge learned during the first two parts of the course.

### Objectives of the Programme:

- To enable the participants to learn innovative methods of product design and development, which include 'SYNECTIES' and 'TRIZ'.
- To enable the participants to acquire modeling and simulation skills with hands on experience by using software packages like 'CREO' 'MATLAB' and PLC/Microcontroller Programming.'
- To provide hands on experience in developing mechatronics components for product development.
- To empower the participants with the knowledge and skills of engineering product development practices (EPDP) and prepare them to teach PDP course at respective institutions.

### Topics in the Workshop:

- ❖ Essential Modelling and Simulation techniques for Engineering Product Development Process
- ❖ Product development using concept generation and embodiment Principles
- ❖ Development of graphic user interfaces using MATLAB, LabVIEW/NI DAQ
- ❖ CAD modeling using CREO Parametric 2.0
- ❖ Building and Control of Electro Pneumatic Circuits for different Automation systems using PLC and microcontroller programming
- ❖ Design of innovative products under the guidance of experts from industry

### Resource Persons:

Faculty from NIT Warangal and reputed industries, who are working/teaching in the product design and development area will deliver lectures and hands-on sessions. Partial list of the resource persons is as follows:

- Dr. K Balassubramanyam, Director, NFTTC, Hyderabad
- Mr. Sudheer Posireddy, Chairman, Jay Robotix, Hyderabad
- Dr. Srikanth Korla, Assistant Professor, NIT Warangal
- Dr. V Vasu, Assistant Professor, NIT Warangal
- Mr. Suneel Kumar Palavalasa, DGM, Control Division, NTPC Ramagundam

### Registration is open to:

- Faculty Members and Research Scholars working in Engineering & Technology, and National Institutes of Designs
- Persons from Training Organizations / Research & Development Organizations / Consultancy firms / Industries, who are interested in practicing new training, teaching / learning techniques
- Research Scholars aspiring to be in teaching or training profession and are interested in employing product design and development strategies in their respective streams.

### Registration fee:

Category of Participant	Local/ NIT Warangal Participants	Participants requiring accommodation
Faculty	Rs.800	Rs. 1500
Students	Rs.400	Rs. 600
Participants from Industry/ Training organizations/ Consultancy firms		Rs. 2500
Note: Fee for faculty and students of SC/ST category is half of the amounts mentioned as applicable		

Registration fee may be sent in the form of a DD or remitted through On-line / NEFT as per the Bank details given below. Local participants may also pay the registration fee in cash to the coordinator of the workshop. Scanned copy of the DD of the requisite registration fee shall be sent as attachment to the Email ([korla.nitw@gmail.com](mailto:korla.nitw@gmail.com)).

Account Name	DIRECTOR, NIT WARANGAL
Account Number	52109375198
Bank	State Bank of Hyderabad
Branch	REC Warangal (NIT Campus)
Branch Code	20149
IFSC code	SBHY0020149

The registration fee includes instructional materials, free internet facility, working lunch, mid-sessions tea & snacks. Participants with accommodation will be provided breakfast and dinner also.

