

PMI-RAC-2015

NITIE, MUMBAI

Workshop Details

(Faculty: Prof. P. Acharya)

Name of the Workshop: System Dynamics: Real World Modelling and Simulation Applied to Project Management

Target Audience: Research Scholars/Faculty Members/industry participants

Objectives of the Workshop:

To sensitise the participants/audience about the systems concepts and the dynamic simulation modelling tool and its application to project management

Brief Description:

The use of Project management tools such as PERT/CPM (evident in the use of MS PROJECT or PRIMAVERA) have been limited in handling the dynamic uncertainty associated while executing a large real time project. Issues of feedback, error handling, scope change and the influence of human issues of schedule pressure during critical stages of completion of a project are very inter related and can have a cascading effect if not addressed at appropriate times. These issues will be the focus of presentation in the workshop with the help of System dynamics simulation, a real world modelling tool along with the illustration software.

Contents to be covered:

1. Briefing System concepts
2. Causal Loop Diagramming
3. Stocks and Flows
4. Case discussion with an SD model
5. Specific cases related to projects
6. Display of use of software

Workshop Pedagogy:

1. PPT presentation
2. Software use (STELLA, VENSIM)

Resources/Facility Required:

1. LCD Projector
2. White Board and marker



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Dr. P. Acharya is currently working as Associate Professor in the area of Industrial Engineering in NITIE Mumbai. Earlier he has served as Associate Professor in ABV-IIITM Gwalior and Assistant Professor in BPUT Odisha. Basically a B.Tech. (Hon's) in Mechanical Engineering, Dr. Acharya received his M.Tech. and PhD from IIT Kharagpur. He also has more than 35 research papers of international and national level. His published research papers have appeared in reputed International Journals such as *International Journal of Technology Management*, *International Journal of Productivity and Performance Management*, *Global Journal of Flexible Systems Management* etc. He has guided three PhD and about 70 post graduate students. Dr. Acharya has been member of several professional and educational societies such as ISTE, SDSI, POMS, SOM, IIIE etc. He has been a technical expert committee member for project evaluation at NPIU, Noida. He has also served as curricula revision and evaluation committee member at IGNOU, New Delhi. His industry liaison includes NALCO, TCS, JK Tyres, Godrej, HPCL, JSW, DRDO, HEG etc. Dr. Acharya has conducted several Faculty Development programs, MDPs/UBPs as well as organized National conference. His areas of research interest include Industrial Engineering, System Dynamics, Logistic supply chain and Project Management.