



ONE WEEK NATIONAL LEVEL SHORT TERM COURSE

On

**SYSTEM MODELING, SIMULATION AND  
ADVANCED OPTIMIZATION TOOLS FOR  
NANOTECHNOLOGY APPLICATIONS - 2016**

(SYSTA - 2016)

19<sup>th</sup> to 24<sup>th</sup> September 2016

Organized by Centre for Nanotechnology, AUCE (A)

Supported by TEQIP Phase - II, CoE



**Program Schedule**

TIME/ DATE	09:00 TO 10:30	10:30 TO 11:00	11:00 TO 11:15	11:15 TO 12:45	12:45 TO 13:15	13:15 TO 14:30	14:30 TO 15:45	15:45 TO 16:00	16:00 TO 17:00
19-09-2016	Inaugural function	Keynote Lecture by Prof. M. Chidambaram, IIT Madras	INTERACTION SESSION	BREAK	Guest lecture by Mr Manish Kumar Prajapati, T - CAD	INTERACTION SESSION	LUNCH	BREAK	Training session of T - CAD by Mr Manish Kumar Prajapati, T - CAD
20-09-2016	Guest lecture by Prof. M. Chidambaram, IIT Madras	INTERACTION SESSION	BREAK	Guest lecture by Dr Hari Kumar Voruganti, NIT Warangal	INTERACTION SESSION	LUNCH	Training session by Dr Hari Kumar Voruganti, NIT Warangal	BREAK	Training session by Dr Hari Kumar Voruganti, NIT Warangal
21-09-2016	Guest lecture by Prof. Ch. Ratnam, AUCE (A)			Guest lecture by Dr. K Venkata Subbaiah, AUCE (A)			Guest lecture by Prof. K.Vaisakh, AUCE (A)		Guest lecture by Dr. K. Narayana Rao, Govt Polytechnic College
22-09-2016	Guest lecture by Dr. K. Srikanth, NIT Warangal			Guest lecture by Dr. K. Srikanth, NIT Warangal			Training session by Dr. K. Srikanth, NIT Warangal		Training session by Dr. K. Srikanth, NIT Warangal
23-09-2016	Guest lecture by Mr. R. K. Mohanti, AIMIL			Guest lecture by Mr. R. K. Mohanti, AIMIL			Guest lecture by Mr. R. K. Mohanti, AIMIL		Guest lecture by Mr. R. K. Mohanti, AIMIL
24-09-2016	Guest lecture by Prof. V R K Murthy, IIT Madras			Guest lecture by Prof. Ch. Panduranga Reddy, AUCE (A)			Guest lecture by Prof. K. Ramji, AUCE (A)		Valedictory

**Topics Covered**

19-09-2016	<ul style="list-style-type: none"> <li>➤ Applications of Simulation Tools in latest Technologies</li> <li>➤ Introduction to T-CAD</li> <li>➤ Design Modeling Simulation &amp; Mixed mode Simulation of Diode, MOS-CAP, N-MOSFET using T-CAD.</li> </ul>
20-09-2016	<ul style="list-style-type: none"> <li>➤ Single objective, Multi Objective Optimization</li> <li>➤ Optimization Methods and Computing with MATLAB</li> <li>➤ Constrained, Unconstrained optimization using MATLAB</li> </ul>
21-09-2016	<ul style="list-style-type: none"> <li>➤ Advanced Optimization techniques for Engineering applications.</li> <li>➤ Optimization problem solving using Genetic Algorithm and PSO in MATLAB</li> </ul>
22-09-2016	<ul style="list-style-type: none"> <li>➤ Introduction to MATLAB SIMLINK and operators, Control statements in MATLAB</li> <li>➤ Modeling and Simulation using MATLAB SIMLINK</li> <li>➤ Problem Solving using MATLAB SIMLINK</li> </ul>
23-09-2016	<ul style="list-style-type: none"> <li>➤ Modal analysis condition monitoring on structural analysis</li> </ul>
24-09-2016	<ul style="list-style-type: none"> <li>➤ Research Methodology</li> <li>➤ Guidelines on how to publish research papers in reputed international journals</li> </ul>

