Short term online course on

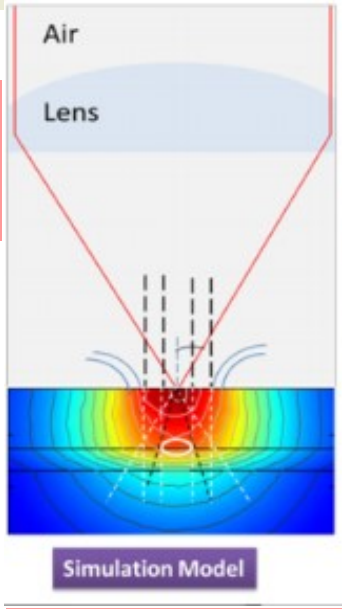
LASER MICRO MANUFACTURING, SURFACE & MATERIAL PROCESSING

15th -17th July 2020

For Faculties, Engineers, Scientist and Students

Coordinators

Dr. Yuvraj K Madhukar & Dr. I.A. Palani



Objective of this course

Laser based surface Micro- and Nano- fabrication is consider to be a route toward next-generation mass production for various applications ranging from consumer electronics to wide variety of bio-medical devices. Conventional Laser's are well known for their extensive application in industries, to carry out marking, drilling, annealing, and surface modification etc. However owing to the demand in fabricating feature size devices down to submicron

Course contents:

- Fundamentals of light sources & the Lasers
- Laser material interaction with metal, semiconductor and insulator
- Ultra-short laser pulse interaction
- Laser Additive Manufacturing
- Laser Assisted micro manufacturing
- Laser assisted surface processing
- Laser Annealing
- Laser Texturing
- Laser Nitriding
- Laser Shock peening

Resource experts

Lectures will be handled by the following experts

Dr. Yuvraj Madhukar

Assistant Professor, Mechanical Engineering Discipline, IIT Indore

Expertise: Laser Material Processing, Additive Manufacturing, Manufacturing automation and control

Dr.I. A. Palani,

Associate Professor, Mechanical Engineering Discipline, IIT Indore

Expertise: Laser Micro-Manufacturing and surface processing.

Dr. C.P. Paul

Head, Laser Addtive manufacturing lab,

Raja Ramanna Centre for Advance Technology (RRCAT)

Under Department of Atomic Energy

Expertise: Laser Additive Manufacturing

Dr. M, Gopinath

Assistant Professor, Department of Mechanical and Aerospace Engineering

Expertise: Laser welding and Additive Manufacturing

Course Fee & Details

Rs 750 (STUDENTS)
Rs 1250 (ACADEMIC INSTITUTIONS)
Rs 2000 (INDUSTRY & RESEARCH ORGANIZATION)

The Registration fee is merely for the participation, interaction with the experts and a participation certificate.
An email with online transfer receipt should be mailed to the coordinator by 10th July 2020.
(yuvrajmadhukar@iiti.ac.in / palaniia@iiti.ac.in)(e certificate will be provided)

MODE OF PAYMENT:

Name of the Beneficiary : Registrar, Indian Institute of Technology Indore
Name of Bank : Canara Bank
Branch Code : IIT Indore, Simrol Campus
Account No. : 1476101027440
Bank MICR Code : 452015003
Bank IFS Code : CNRB0006223

LASER MICRO MANUFACTURING, SURFACE & MATERIAL PROCESSING , 15th TO 17th July 2020, IITIDORE