

## Bidhan Chandra College

[Govt. Sponsored], ESTD: - 1961, NAAC Accredited Recognized by U.G.C. (Govt. of India) and affiliated to Kazi Nazrul University

# 6<sup>th</sup> International Career Outreach Workshop "COMSOL MULTIPHYSICS: FUNDAMENTALS"

Organized by the Microsystem Design-Integration Lab Bidhan Chandra College, Asansol, WB, India 12-13th July 2023, 10:30 AM-4:00 P.M IST

A series of career outreach workshops, by Microsystem Design-Integration Lab, Dept. of Physics, Bidhan Chandra College, Asansol, West Bengal, India, was organized since 2020, intended to help students thrive in a world of constant change, providing exposure, career-readiness and internship opportunities and professional career advisories at domestic and international level. Bidhan Chandra College, Asansol, West Bengal, is proud to enable Advanced Research, Design, Computational Facilities, and Google Workspace for Education, for its all faculties, staffs and above all students, during the trying time of pandemic, facilitating the teaching, and learning with cloud based collaborative tools. We are pleased to take a leap further by inviting the students, scholars, and faculties for two-day 12th -13th July 2023 on "COMSOL Multiphysics: Fundamentals", in blended mode.

## Programme Schedule: 12th July 2023

Online Meeting Details:

July 12, 2023, 10:30 am – 4:00pm IST.

Google Meet joining link: <a href="https://meet.google.com/oxj-iaps-reg">https://meet.google.com/oxj-iaps-reg</a>

Opening Session: 10:45 - 11:00 am

Outline of Career Outreach Initiative at Bidhan Chandra College by Convener, Dr. Amit Banerjee, Physics Dept., Bidhan Chandra College

Technical Session I: 11:00 am - 01:00 pm

Introduction to COMSOL Multiphysics Fundamental of COMSOL Multiphysics, Geometry building, meshing, Study Followed by Q/A.

Lunch Break: 1:00 pm - 01:30 pm

Technical Session II: 1:30 am - 03:00 pm

COMSOL Module:

RF module, Wave Optics Module, Semiconductor Module, MEMS Module Followed by Q/A.

## Programme Schedule: 13th July 2023

Online Meeting Details:

July 13, 2023, 10:30 am – 4:00pm, IST.

Google Meet joining link: https://meet.google.com/oxj-iaps-reg

Technical Session III: 11:00 am - 01:00 pm

COMSOL Module:

Design Module, Heat Transfer Module, Particle Tracing Module, Ray Optics Module, Material Library Followed by Q/A.

Lunch Break: 1:00 pm - 01:30 pm

Technical Session IV: 1:30 am - 03:00 pm

Support Case Creation Learning Resources Followed by Q/A.

#### **Organizing Committee**

Patron: Prof. Falguni Mukhopadhyay, Hon'ble Principal, Bidhan Chandra College

Chair: Dr. Goutam Mukherjee, Convener, NAAC Committee;

HOD, Dept. of Physics, Bidhan Chandra College

Coordinator, IQAC: Dr. Saumen Chakraborty, Dept. of Physics, Bidhan Chandra College

Convener: Dr. Amit Banerjee, Dept. of Physics, Bidhan Chandra College

Organizing Secretaries: Dr. Sudipta Roy, Dr. Ajay Kr. Sharma, Mr. Apurba Paramanik,

Dept. of Physics, Bidhan Chandra College

Organized by Microsystem Design-Integration Lab,
Dept. of Physics, Bidhan Chandra College
Partially supported by the Device Development Programme (DDP),
Department of Science & Technology (DST), Government of India.
For further information on Collaboration, Scope of Research and Internship
Website: www.bccollegeasansol.ac.in || Email: amit@bccollegeasansol.ac.in

#### **Active Research Project Currently:**

Competitive Research Grant under Device Development Programme,

by the Department of Science & Technology (DST), Ministry of Science and Technology, Government of India.

#### Microsystem Design-Integration Lab Resources and Design Capabilities:

COMSOL Multiphysics with following packages: Wave Optics Module, Ray Optics Module, RF Module, AC/DC Module, Semiconductors Module, MEMS Module, Heat Transfer Module, Design Module, Material Library module;

National Instruments Multisim Software; NI Ultiboard Software; NI LabVIEW Software and DAQs; Siemens Solid Edge Software for 3D Design, Simulation;

Advanced Design and Computation Facility;

#### **Active collaboration:**

Advanced Device Research Division, Research Institute of Electronics, Shizuoka University,

National University Corporation, Hamamatsu, Japan;

Dept. of Electrical and Computer Engineering, National University of Singapore;

Organic Electronics Research Center (OERC), Ming Chi University of Technology, Taipei, Taiwan;

#### **Career Outreach Workshop Supported by**

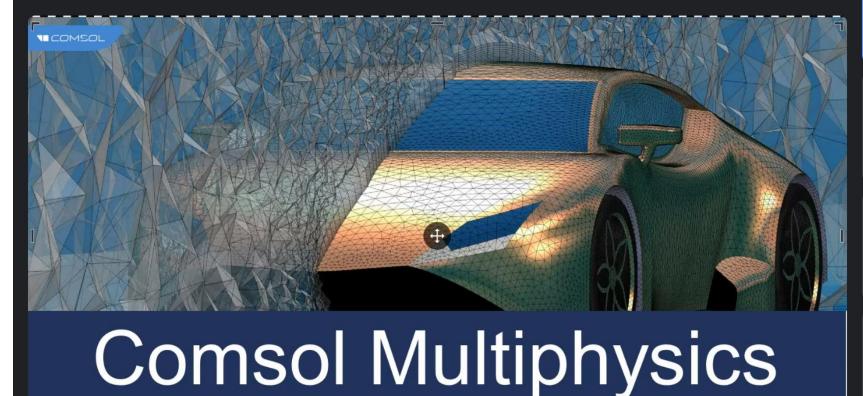


Deals in: COMSOL Multiphysics, Siemens EDA,
National Instruments, PSIM and Embedded Systems
Solutions, SPRUT Technology, Texas Instruments
s.dutta@tridenttechlabs.com |
www.tridenttechlabs.com



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Rahul Rajak





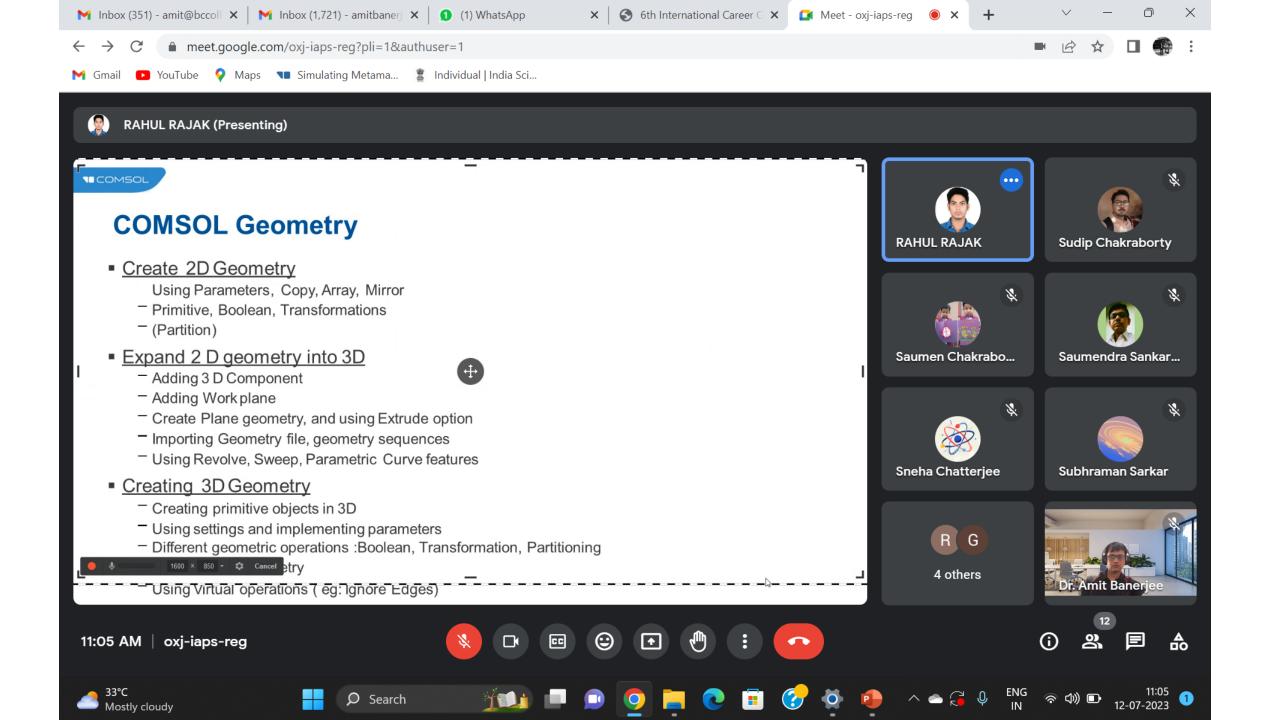




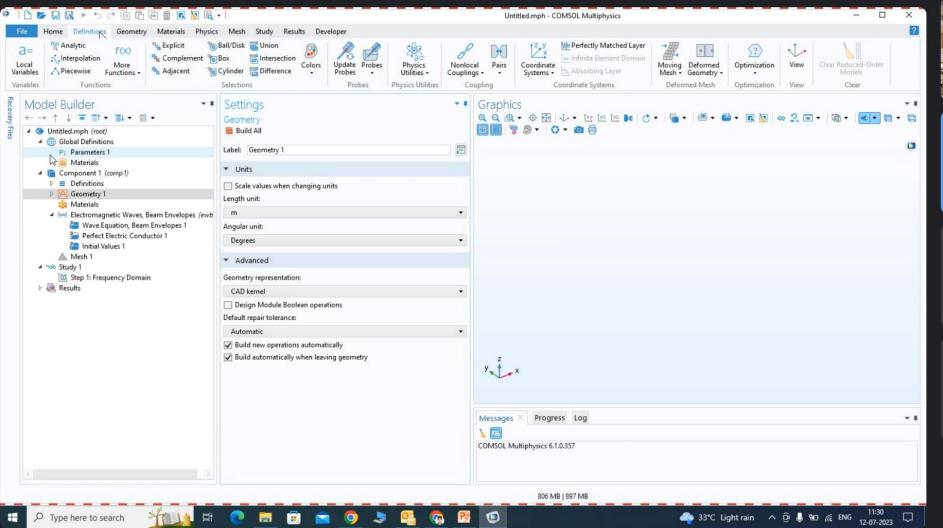




























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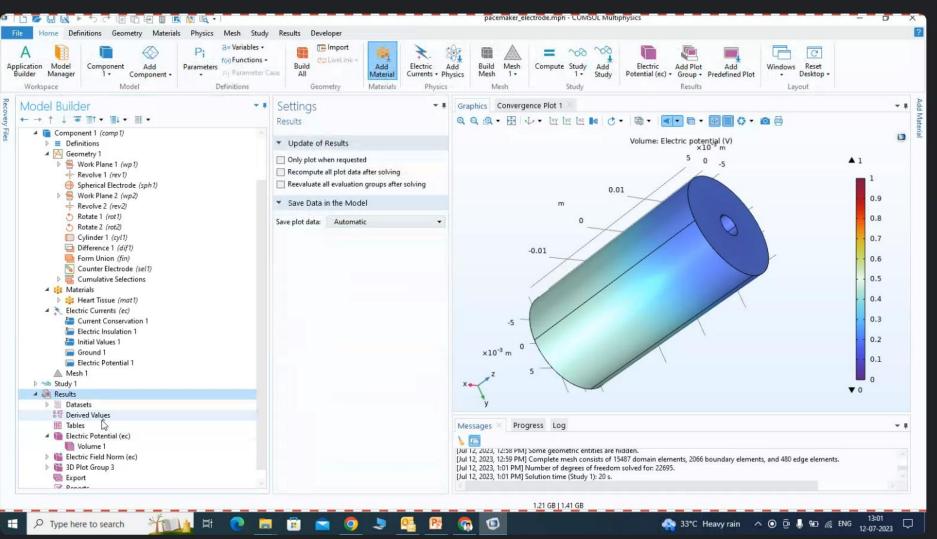


























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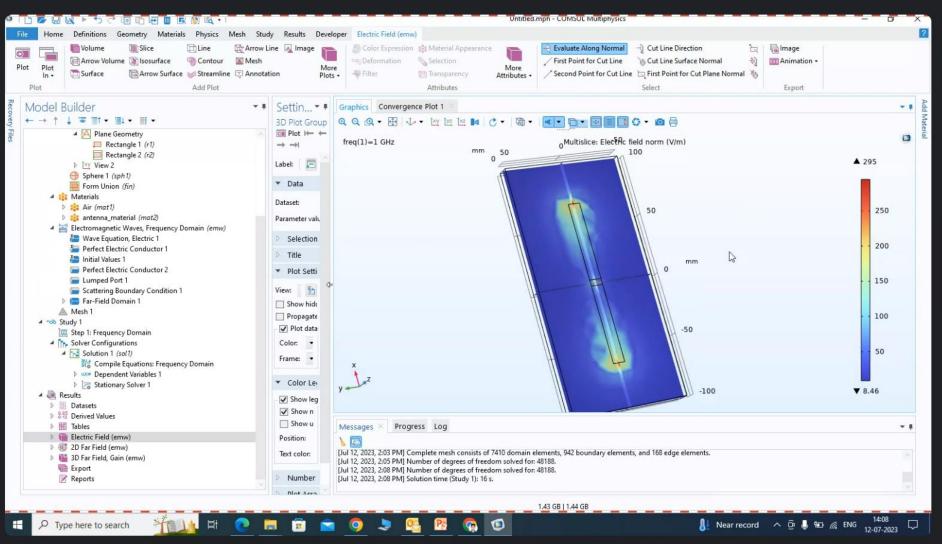








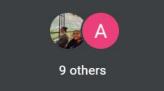
















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