

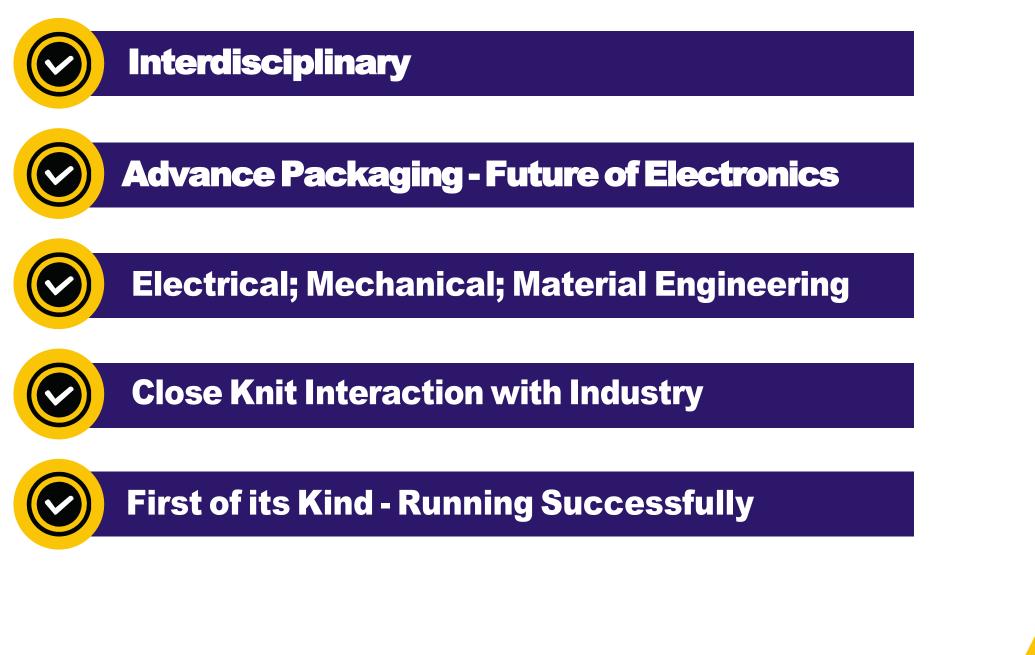
INTEGRATED CIRCUITS AND MICROSYSTEMS PACKAGING

Interdisciplinary MTech Program





About the program





Introduction

Ability to incorporate more functionality with the same area in an Integrated Circuit (IC) is transcending beyond transistor scaling to innovations in packaging. Heterogenous Intergration is the order of the next decade.

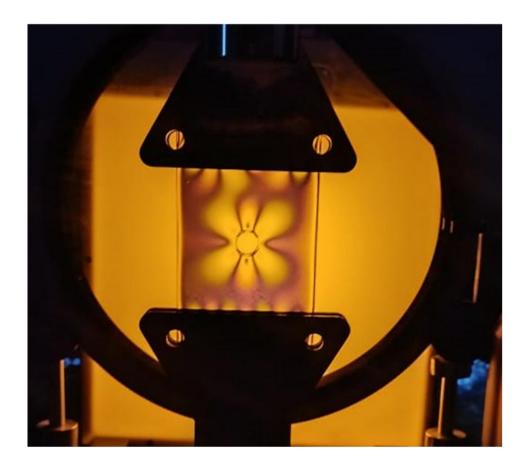
Catch the wave is the success mantra. The next era of scaling through packaging needs an engineer with interdisciplinary knowledge. This ICMP program is designed to mentor enthusiastic students in the nuances of design and manufacturing of present and futuristic ICs

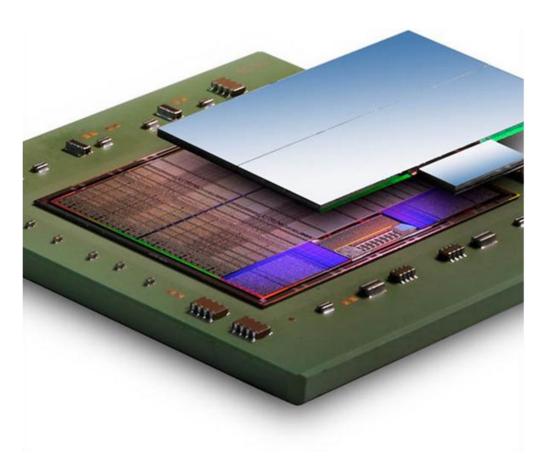
Equal emphasis is given to Electrical, Mechanical and Material aspects of ICs and their packaging

Interdisciplinary is the way forward...



Focus Areas





MECHANICAL

- Thermal Management
- Fracture & Fatigue Analysis
- Predicting Reliability

ELECTRICAL

- Heterogeneous Integration
- Signal & Power Integrity
- 3D IC, MEMS, TSV
- Optical Interconnects



MATERIALS

- Semiconductor Fabrication
- Thin Film Synthesis
- Materials for packaging

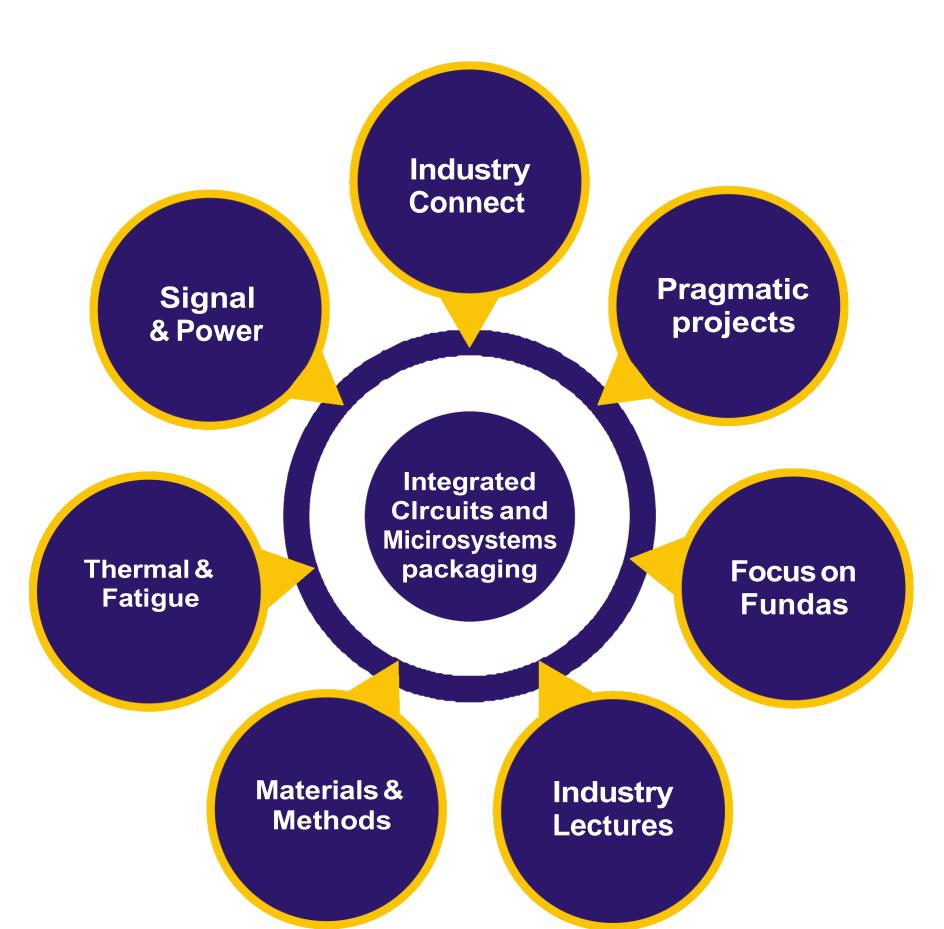
Who Can Apply

Gate: EE, EC, ME, IN, XE-C, PHY

Engg Branches: Electrical & allied Mechanical & allied, Materials & allied, Physics & allied

We Encourage all branches

RELEVANT TO IC MANUFACTURING AND PACKAGING



Industry taught courses RENESAS

- Embedded Systems and microcontrollers
- Embedded Systems and microcontrollers lab



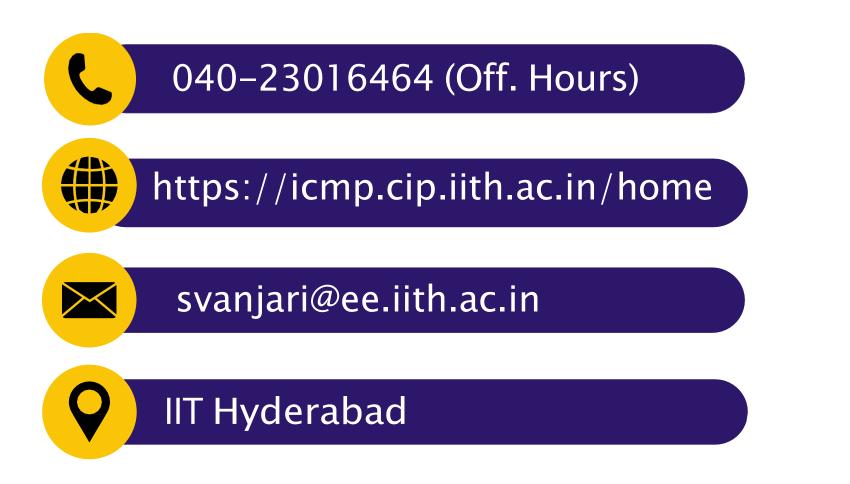
- Fundamentals of Semiconductor Package Manufacturing and Test
- Fundamentals of IC Packaging Assembly and Manufacturing





Contact Us

For any queries:





THANK YOU

