

For Immediate Release: December 23, 2024

## **Press Release**

### **Valedictory Session of AICTE ATAL Faculty Development Program on Crystal Growth and Semiconductor Technologies Held at IIT-ISM**

The six-day AICTE ATAL Faculty Development Program (FDP) on “Crystal Growth, Semiconductor Processing, and Manufacturing Technologies” concluded recently with a valedictory session.

This program aimed to enhance educators' knowledge and teaching efficiency in these pivotal technological domains and attracted nearly 210 participants in its online format.

Professor R. Thangavel, Associate Professor in the Department of Physics at IIT-ISM and the program coordinator, warmly welcomed the participants to the valedictory session. He provided a detailed summary of the sessions conducted during the program, underscoring the contributions of several eminent experts. The FDP offered valuable insights and hands-on knowledge across topics such as Crystal Growth Techniques, Semiconductor Processing, and Manufacturing Technologies.

The program commenced with an expert lecture by Prof. J. Kumar from Anna University, Chennai, who elaborated on "Crystal Growth Techniques II: Epitaxial Growth." Prof. R.R. Sumathi from the Leibniz-Institut für Kristallzüchtung, Germany, followed with a session on "Crystal Growth Techniques I: Bulk Growth Methods." Other notable sessions included:

- **Semiconductor Technology** by Dr. Pratap Kumar Das, Principal Member of Technical Staff, AMD Bangalore, providing an in-depth view of semiconductor manufacturing and advanced fabrication techniques.
- **Process Integration in Semiconductor Manufacturing** by Dr. Akhilish Pandey.
- **Wafer Processing and Fabrication Techniques** by Dr. C.V. Kannan.
- **Photolithography in Semiconductor Processing** by Prof. Suresh Sundaram.
- **Using Data Science in Semiconductor Fabs** by Shri Siddareddy Kurakula.
- **DFM in Semiconductor Manufacturing** by Ms. Deepti Sainil.
- **Advanced VLSI Circuits** by Dr. Pratap Kumar Das.
- **Introduction to Crystals and Crystal Growth** by Dr. R. Sankar.
- **Advanced Technologies and Future Trends in Semiconductor Processing** by Dr. Akhilish Pandey.

In his address, Professor Thangavel emphasized the importance of such initiatives in equipping educators with critical skills to enhance their teaching and research in these rapidly advancing fields.

The session concluded with a vote of thanks by Dr. Manodipan Sahoo, Co-coordinator of the program from the Department of Electronics Engineering, IIT-ISM. Dr. Sahoo expressed his gratitude to ATAL AICTE, the Departments of Physics and Electronics Engineering, the resource persons, Professor Thangavel and his team of PhD scholars, and all participants for their active involvement in the program.

The FDP served as a valuable platform for participants to gain updated knowledge in semiconductor processing, crystal growth, and related technologies. It is expected to contribute significantly to the advancement of both teaching and research in these critical areas.

Rajni Singh

**Dean (Corporate Communications)**