SAIRAM
COLLEGE OF ENGINEERING
Anekal, Bengaluru

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

REPORT ON "SEMCHIP – SAND TO CHIP"

Lecture Series

Introduction

The Department of Electronics and Communication Engineering organized a lecture series session titled "SemChip – Sand to Chip" for second year engineering students on 04.09.2026 from 11:15 AM to 01:15 PM. The session was delivered by Prof. Raja GV, Assistant Professor, Department of ECE. The primary objective of the session was to provide students with a clear understanding of the semiconductor ecosystem, from the basic material level to semiconductor devices, integrated circuits and chip integration, while also creating awareness about career opportunities and the skills expected by the semiconductor industry.

Topics and Knowledge Shared

- Introduction to semiconductors and their significance in modern electronic systems.
- Overview of semiconductor devices and their applications.
- Basic classification and applications of analog and digital devices.
- Introduction to IC fabrication and the major stages involved in converting semiconductor material into integrated circuits.
- Understanding chip integration and the increasing complexity of modern semiconductor systems.
- Industry-oriented skill sets required for semiconductor and electronics-related job roles.
- Career scope and opportunities in the semiconductor industry in India.
- Guidance on how engineering students can prepare for semiconductor-related jobs, including technical knowledge, practical skills and continuous learning.
- Awareness of semiconductor and electronics companies operating in India and the broad categories of roles available.
- General discussion on job roles, career progression and indicative industry compensation/package structures.

Benefits to the Audience

The session helped students connect the fundamentals learned in engineering with the real-world semiconductor industry. Students gained a broader understanding of how semiconductor materials, devices, IC fabrication and chip integration are connected across the electronics value chain. The session also highlighted the importance of developing strong fundamentals, practical exposure and industry-relevant skills from the early stages of their engineering education.

The career-oriented discussion helped students understand the different pathways available in semiconductor and electronics industries in India. The students were encouraged to identify the technical areas of their interest, strengthen their core ECE knowledge, develop practical and problem-solving skills, follow industry developments, and prepare systematically for internships, placements and higher studies.

Outcome and Conclusion

The "SemChip – Sand to Chip" lecture series session served as an industry-awareness and career-guidance platform for second year engineering students. The session provided a structured overview of semiconductors, devices, analog and digital electronics, IC fabrication and chip integration, followed by a focused discussion on skills, career scope, job preparation and opportunities in India.

Overall, the session motivated students to look beyond textbook concepts and understand the wider semiconductor ecosystem and its career possibilities. It encouraged them to build strong fundamentals, acquire practical and industry-relevant skills, and prepare progressively for future internships, placements and professional roles.

Resource Person	Prof. Raja GV, Assistant Professor, Department of ECE Sri Sairam College of Engineering
Date	04.09.2026
Time	11:15 AM – 01:15 PM
Target Audience	Second Year ECE
Session Theme	SemChip – Sand to Chip
Venue	Sir. M.V. AV Hall

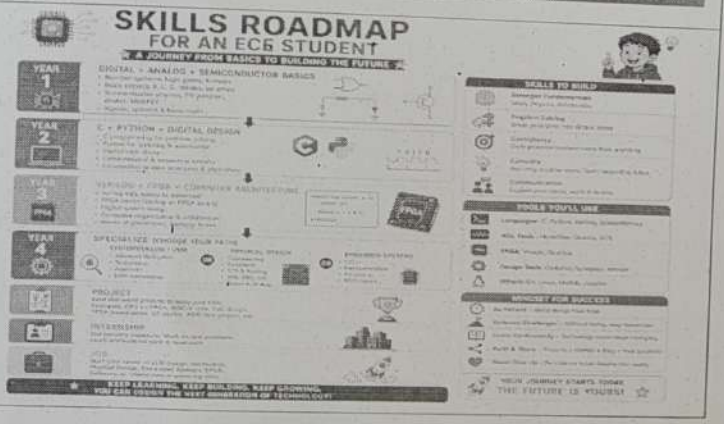












Yours Faithfully
(Prof. RAJA.G. V)

18/9/26

HOD/ECE
(Dr. POONGUZHALI. A)

19/09/2026


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ELECTRONICS AND COMMUNICATION ENGINEERING
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NBA
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Sairam RAISE
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ORGANIZES
EXPERT TALK ON
SemChips
CONCEPTS AND APPLICATIONS
ML
AN INSIGHTFUL SESSION
FOR STUDENTS & FACULTY
RESOURCE PERSON
Prof. Raja GV
Assistant Professor
Department of ECE
Sri Sairam College of Engineering
DATE
04 SEPTEMBER 2026
(Friday)
TIME
11:00 AM – 1:15 PM
VENUE
Sir MV AV Hall,
Sri Sairam College of Engineering
SESSION HIGHLIGHTS
Introduction to Semiconductor Chips (SemChips)
Evolution of Chip Technology
Types of Semiconductor Chips
Chip Design and Fabrication Overview
Real-world Applications of SemChips
Tools and Platforms for Chip Design
Future Trends and Career Opportunities
LEARNING OUTCOMES
Understand fundamental concepts of SemChips
Differentiate between various types of semiconductor chips
Explore chip architecture and their applications
Apply semiconductor concepts to solve real-world problems
Identify tools and resources for chip design and development
Appreciate the impact of SemChips in various domains
TARGET AUDIENCE
Students (All Years)
Faculty Members
Dr. A. Poonguzhali
HOD, ECE
Dr. B. Shadaksharappa
Principal
Dr. Sai Prakash LeoMuthu
Chairman & CEO
Sairam Institutions
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