



Report of Industrial Visit organized by ECE department of JUIT to 'SCL Mohali' on 26 April 2024

The department of Electronics & Communication Engineering (ECE), JUIT Waknaghat organized an industrial visit to Semiconductors Limited (SCL) Laboratory situated at Mohali (Punjab) for UG/PG/Phd students of ECE discipline on 26-04-2024. This activity has been coordinated by Prof. Rajiv Kumar (HoD, ECE), and Dr. Pardeep Garg (Assistant Professor, ECE). 30 students studying in UG/PG/Phd programmes of ECE department got the opportunity for this industrial visit accompanied by the faculty members: Dr. Harsh Sohal (Associate Professor, ECE), Dr. Vikas Baghel (Assistant Professor, ECE), Dr. Nishant Jain (Assistant Professor, ECE), Dr. Alok Kumar (Assistant Professor, ECE), and Mr. Munish Sood (Assistant Professor, ECE). Also, Mr. Kamlesh Srivastava (Lab staff member of ECE department) became the part of this useful industrial visit.

The visit was started by the SCL officials with welcoming of the JUIT team and showcasing a presentation of SCL in their auditorium in which they discussed the whole functioning of SCL, the plant layout etc. Also, they told that SCL is an autonomous society under the Ministry of Electronics and Information Technology (MeitY) with more than 40 years of experience as a semiconductor Integrated Device Manufacturer (IDM). SCL currently operates 2 wafer fabrication lines – 8” CMOS at 180 nm node and 6” MEMS with a combined capacity of approximate 750 Wafer Starts per Month (WSPM). Over 200 of types of CMOS devices can be made by SCL's wafer fabrication facilities. SCL undertakes activities pertaining to design, fabrication, assembly & packaging, testing and quality assurance of silicon CMOS and MEMS devices for various applications. In addition, it also has a compound semiconductor research facility. SCL also houses design capabilities spanning across Analog, Logic, Power Management, Opto-Electronics, Data Converters, Sensors, Radiation Hardening and other devices. It also has a fully functioning ceramic line Testing, Assembly & Packaging unit, adhering to MIL standards, and includes capabilities such as multi-chip packaging, MEMS packaging and fine pitch bonding. SCL is India's only integrated device manufacturing facility. It makes products for ISRO, DRDO, BAL etc.

Then, SCL officials took JUIT team to the plant visit and showed the functioning of Dicing unit, Testing unit, and Fabrication unit for VLSI chips & MEMS devices. The JUIT team discussed the probable Internships, placement opportunity for their ECE students. This visit gave a wonderful exposure to JUIT team in the emerging area of Semiconductors/VLSI field. The JUIT team thanked the company officials, their HR Manager for the visit.

A few glimpses of the visit are as follows:



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The list of students who attended this industrial visit is as follows:

S. No.	Enrolment Number	Name of the Student	Degree	Stream
1	201006	Himanshi Sood	UG	ECE
2	201010	Rishita Kumari	UG	ECE
3	201012	Arsh Aryan Tiwari	UG	ECE
4	201017	Manas Jain	UG	ECE
5	211001	Navya Sharma	UG	ECE
6	211003	Utkarsh Sharma	UG	ECE
7	211005	Ayush Khachi	UG	ECE
8	211007	Ayush Gupta	UG	ECE
9	211010	Aneesh Tiku	UG	ECE
10	211011	Abhishek Kumar	UG	ECE
11	211061	Bhoomika Kandpal	UG	ECM
12	211067	Sukant	UG	ECM
13	211069	Adrita kar	UG	ECM
14	211070	Harshita	UG	ECM
15	211074	Arpan	UG	ECM
16	211079	Siddharth	UG	ECM
17	211080	Deepanshu	UG	ECM
18	221040001	Sambhav Thakur	UG	ECE
19	221040004	Rishabh Thakur	UG	ECE
20	221040005	Parth Gupta	UG	ECE
21	231042001	Prakhar Kulshrestha	UG	ECE
22	231040001	Aaryan Sharma	UG	ECE
23	235042001	Tanishk Thakur	PG	ECE
24	235042002	Naresh Rana	PG	ECE
25	235042003	Rishika Goel	PG	ECE
26	225042001	Shubham	PG	ECE
27	225042002	Amit Roy	PG	ECE
28	236001	Shalini Bhickta	PG	ECE
29	236002	Ritika Rattan	PG	ECE
30	216005	Shalini Sharma	PG	ECE