

**SPARC Indo-Taiwan/US**  
**Workshop on Semiconductor Manufacturing Technology**

**NANO-X LAB, ELECTRICAL DEPARTMENT**  
**17– 28 November 2025**



భారతీయ సాంకేతిక విజ్ఞాన సంస్థ హైదరాబాద్  
भारतीय प्रौद्योगिकी संस्थान हैदराबाद  
Indian Institute of Technology Hyderabad



Scheme for Promotion of Academic and Research Collaboration

## Schedule - Week 1

### 17th November 2025 - Monday

9 AM TO 10 AM	SPARC program Introduction by Prof. Vanjari Lecture by Prof. Shubhadeep	EEL-O1 (seminar hall)
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10.30 AM - 12.30PM:	Basic Cleanroom & Instrument overview (Group 1 to 4)-Hari/ Saurabh Clewin Software (Group 5 to 8)- Soumya	CLEANROOM EE003
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#### 12.30 PM-1 .30 PM LUNCH BREAK

1.30 PM TO 3.30PM	Basic Cleanroom & Instrument overview (Group 5 to 8)- Hari/ Saurabh Clewin Software (Group 1 to 4)- Soumya	CLEANROOM
4PM TO 5.30	Wet Cleaning and Dry Cleaning (Group 1 to 4)- Sekhar and Naveen B Clewin Software (Group 5 to 8)- Apurv	CLEANROOM

### 18th November 2025 - Tuesday

9 AM TO 10 AM	Lecture by Prof. Naresh Kumar	EE003
10.30 AM - 12.30PM:	Wet Cleaning and Dry Cleaning (Group 5 to 8) - Sekhar and Naveen B Discussion and Study (Group 1 to 4)- Apurv/ Saurabh	CLEANROOM EE003

#### 12.30 PM-1 .30 PM LUNCH BREAK

1.30 PM TO 3.30PM	Spin Coating and Laser Writer (Group 1 to 4)- Sekhar/Soumya Discussion and Study (Group 5 to 8) – Kaushik/ Hari	CLEANROOM EE003
4PM TO 5.30	Spin Coating and Laser Writer (Group 5 to 8)- Sekhar/ Naveen B Clewin Software (Group 5 to 8)- Apurv	CLEANROOM EE003

### 19th November 2025 - Wednesday

9 AM TO 10 AM	Lecture by Prof .Singh	EE003
10.30 AM - 12.30PM:	Mask Aligner (Group 1 to 4)- Sekhar Discussion with TAs and Study (Group 5 to 8)- Ritu/ Nandana	CLEANROOM EE003

#### 12.30 PM-1 .30 PM LUNCH BREAK

1.30 PM TO 3.30PM	Mask Aligner (Group 5 to 8)- Sekhar Discussion and Study – Naveen B/ Saurabh	CLEANROOM EE003
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4PM TO 5.30	Sputtering / Evaporator -Group 1 to 4)-Anup Discussion and Study - Ritu/ Nandana	<b>CLEANROOM EE003</b>
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### 20th November 2025 - Thursday

<b>9 AM TO 10 AM</b>	<b>Lecture by Prof. Shishir Kumar</b>	<b>EE003</b>
10.30 AM - 12.30PM:	Sputtering / Evaporator (Group 5 to 8)-Anup/ Sekhar Discussion and Study (Group 1 to 4)- Hari/ Krishna Kishore	<b>CLEANROOM EE003</b>
<b>12.30 PM-1 .30 PM</b>	<b>LUNCH BREAK</b>	
1.30 PM TO 3.30PM	Dry Etching and Wet Etching -Group 1 to 4-Bipul/Ritu Discussion and Study -Group 5 to 8 in - Naveen K and Sekhar	<b>Cleanroom EE003</b>
4PM TO 5.30	Dry Etching and Wet Etching- Group 5 to 8- Bipul/Nandana Discussion and Study -Group 1 to 4- Soumya/ Sekhar	<b>Cleanroom EE003</b>

### 21st November 2025 - Friday

<b>9 AM - 10.30 PM</b>	<b>Written Assessment 1 – (Abhishek, Hari, Sekhar, Anup, Sourabh, Bipul, Apurv, )</b>	<b>EE003</b>
<b>11 AM – 12:30 PM</b>	Basic of Characterization Tool (Group 1 to 4) and (Group 5 to 8) -Hari/Apurv , Sourabh	<b>EE003</b>
<b>12.30 PM-1 .30 PM</b>	<b>LUNCH BREAK</b>	
1.30 PM TO 3.30PM	Basic of Characterization Tool (Group 5 to 8) and (Group 1 to 4) -Hari/Apurv, Sourabh	<b>EE003</b>
4PM TO 5.30	Module 1-A (Group 3 and 4)-Soumya / Sekhar Module 4-A (Group 7 and 8) -Naveen K/ Bipul Discussion and Study (Group 1,2,5,6)-Kishor/ Nandana	<b>CLEANROOM EE003</b>

## Schedule - Week 2

### 24th November 2025 - Monday

09 AM- 11.00 AM	Module 2-A (Group 7 and 8)//Ritu, Bipul	<b>CLEANROOM</b>
	Module 3-A (Group 3 and 4)// Kishor, Sekhar	
	Discussion and Study (Group 1,2,5,6) Apurv, Hari	<b>LH-6, C BLOCK</b>

11.15 AM - 01.15 PM

Module 3-A (Group 1 and 2) -Kishor/ Naveen B	<b>CLEANROOM</b>
Module 2-A (Group 5 and 6)- Nandana/ Hari	
Discussion and Study (Group 3,4,7,8) Saurabh/ Bipul	<b>LH 6, C -BLOCK</b>

### LUNCH BREAK

2 PM TO 3.30PM	Module 4-A (Group 7 and 8) Naveen K, Sekhar	<b>CLEANROOM</b>
	Module 1-A (Group 3 and 4) Soumya	
	Discussion and Study (Group 1,2,5,6) - Ritu/ Kaushik	<b>LH6 -C BLOCK</b>

04.15 to 06.15 PM	Module 1-A (Group 1 and 2) (Soumya, Apurv)	<b>CLEANROOM</b>
	Module 4-A (Group 5 and 6) (Naveen K, Sekhar)	
	Discussion and Study (Group 3,4,7,8)- C Block Ritu/ Nandana, Hari	<b>LH-6, C BLOCK</b>

### 25th November 2025 - Tuesday

09 AM- 11.00 AM	Module 2-A (Group 7 and 8) Ritu , Bipul	<b>CLEANROOM</b>
	Module 3-A (Group 3 and 4) (Naveen B, Sekhar)	
		<b>LH6 -CBLOCK</b>

	Discussion and Study (Group 1,2,5,6) Naven K	
11.15 AM - 01.15 PM	Module 3-A (Group 1 and 2) Naveen B and Kishor	<b>CLEANROOM</b>
	Module 2-A (Group 3 and 4) Ritu	

Discussion and Study (Group 3,4,7,8) Hari/ Kaushik

**LH6 in C Block**

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**LUNCH BREAK**

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02.00 to 04.00 PM    Module 4-A (Group 7 and 8)-Naveen K, Sekhar

**CLEANROOM**

Module 1-A (Group 3 and 4)-Apurv and Soumya.

Discussion and Study (Group 1,2,5,6)-Ritu/ Nandana

**LH6 in C Block**

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04.15 to 06.15 PM    Module 1-B (Group 5 and 6)- Apurv, Sekhar

**CLEANROOM**

Module 4-B (Group 1 and 2)- Naveen K

Discussion and Study (Group 3,4,7,8)-Bipul/ Hari

**LH6 in C Block**

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**26th November 2025 - Wednesday**

09 AM- 11.00 AM    Module 2-B (Group 7 and 8) Bipul/ Nandana

**CLEANROOM**

Module 3-B (Group 3 and 4) Naveen K, Sekhar

Discussion and Study (Group 1,2,5,6)-Anup/ Ritu

**EE003**

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11.15 AM - 01.15 PM    Module 3-B (Group 1 and 2) Kishor and Naveen B

**CLEANROOM**

Module 2-B (Group 5 and 6) Ritu and /Anup

Discussion and Study (Group 3,4,7,8)- Kaushik/ Hari

**EE003**

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**LUNCH BREAK**

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02.00 to 04.00 PM    Module 4-B (Group 7 and 8)-Naveen K

**CLEANROOM**

Module 1-B (Group 3 and 4) Apurv and Sekhar

Discussion and Study (Group 1,2,5,6)--Hari

**EE003**

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04.15 to 06.15 PM	Module 1-B (Group 1 and 2) Apurv and Sekhar Module 4-B (Group 5 and 6) Naveen K Discussion and Study (Group 3,4,7,8) - Hari/ Sekhar	<b>CLEANROOM</b>  <b>EE003</b>
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### 27th November 2025 - Thursday

09 AM- 11.00 AM	Module 2-B (Group 7 and 8)-Ritu/ Bipul Module 3-B (Group 3 and 4) -Kishor/ Sekhar. Discussion and Study (Group 1,2,5,6) inEE003- Hari/Sekhar	<b>CLEANROOM</b>  <b>EE003</b>
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11.15 AM - 01.15 PM	Module 3-B (Group 1 and 2)- Kishore/ Anup Module 2-B (Group 5 and 6) - Nandana/ Sekhar Discussion and Study (Group 3,4,7,8) Naveen. B / Hari	<b>CLEANROOM</b>  <b>EE003</b>
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### LUNCH BREAK

02.00 to 04.00 PM	Module 4-B (Group 7 and 8)-Naveen K Module 1-B (Group 3 and 4)-Apurv Discussion and Study (Group 1,2,5,6)- SekharHari	<b>CLEANROOM</b>  <b>EE003</b>
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04.15 to 06.15 PM	<b>Doubt clearing session</b> <b>EE003</b> Bipul/ Hari/ Apurv/ Ritu/ Naveen K/Naveen/Nandhana/Kishore	<b>EE003</b>
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28 November	Evaluation <b>EE03</b> Prof. Vanjari		Evaluation <b>EE03</b> Prof. Vanjari	Certificate Distribution EEL-01 SEMINAR HALL
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