

**ACADEMIC AFFAIRS OFFICE
INDIAN INSTITUTE OF TECHNOLOGY ROORKEE**

No. Acad./10874 /IAPC-160

Dated: September 07, 2026

Head, Department of Electronics and Communication Engineering

The IAPC, in its 160th meeting held on 12.08.2026 vide Item No. 160.3.2, has approved the proposal for change in PCC from ECN-573 to ECC-531 for M. Tech. Semiconductor Technology.

Status	Course Code	Course Title	Subject Area	Credits	L	T	P
Existing	ECN-573	Digital VLSI Circuit Design	PCC	4	3	1	0
Revised	ECC-531	Digital VLSI Circuit Design	PCC	4	3	0	2


**Assistant Registrar
(Curriculum)**

Copy to (through e mail):-

1. All faculty
2. Chairperson, DAPC of Department of ECE
3. Dean, Academic Affairs
4. Associate Dean of Academic Affairs (Curriculum)
5. Deputy Registrar, Academic Affairs Office
6. Channel i/ Academic webpage of iitr.ac.in

Program Code: **XXX M.Tech. (Semiconductor Technology)**
 Department: **EC Department of Electronics and Communication Engineering**
 Year: **I**

Teaching Scheme					Contact Hours/Week			Exam Duration		Relative Weight(%)				
S. No.	Subject Code	Course Title	Subject Area	Credits	L	T	P	Theory	Practical	CWS	PRS	MTE	ETE	PRE
Semester-I (Autumn): @ IIT Roorkee														
1.	PHN-709	Semiconductor Device Physics	PCC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
2.	ECN-573	Digital VLSI Circuit Design	PCC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
3.	ECN-580	High Frequency Analog Integrated Circuits	PCC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
4.	PHN-716	Semiconductor Characterization Lab	PCC	2	0	0	6	0	6	-	50	-	-	50
5.	ECN-599	Microelectronics Fabrication Lab-1	PCC	2	0	0	3	0	3	-	100	-	-	-
6.	PHN-724	Semiconductor Micro-electronic Technology	PCC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
		Total		20										
Semester-II (Spring): Partner University student → @ IIT R / IIT-R student → @ Partner University														
1.	ECN-700	Seminar	SEM	2	-	-	-	-	-	-	-	-	100	-
2.		Program Elective-I	PEC	4	-	-	-	-	-	-	-	-	-	-
3.		Program Elective-II	PEC	4	-	-	-	-	-	-	-	-	-	-
4.		Program Elective-III	PEC	4	-	-	-	-	-	-	-	-	-	-
5.		Program Elective-IV	PEC	4	-	-	-	-	-	-	-	-	-	-
6.		Program Elective-V	PEC	2	-	-	-	-	-	-	-	-	-	-
		Total		20										
Courses to be chosen from partner university with total credits 20														

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

Program Code: **XXX M.Tech. (Semiconductor Technology)**
 Department: **EC Department of Electronics and Communication Engineering**
 Year: **II**

Teaching Scheme					Contact Hours/Week			Exam Duration		Relative Weight(%)				
S. No.	Subject Code	Course Title	Subject Area	Credits	L	T	P	Theory	Practical	CWS	PRS	MTE	ETE	PRE
Semester-I (Autumn): Partner University student → @ IIT R / IIT-R student → @ Partner University														
1.	ECN-701A	Thesis Stage-I (to be continued next semester)	DIS	12	-	-	-	-	-	-	-	-	100	-
		Total		12										
Note: Students can take 1 or 2 audit courses as advised by the supervisor, if required.														
Semester-II (Spring): @ IIT Roorkee														
1.	ECN-701B	Thesis Stage-II (continued from III semester)	DIS	18	-	-	-	-	-	-	-	-	100	-
		Total		18										

Summary				
Semester	1	2	3	4
Semester-wise Total Credits	20	20	12	18
Total Credits	70			