The MTech programme with Microelectronics and VLSI

The core theory courses are (6 credits each)

1. Linear Algebra and its applications
2. Embedded systems Design (new course)
3. Probability and applications
4. Multivariable Control Systems

The student has to take at least 3 out of these 4 courses to complete the core theory course requirements.

The core lab courses are (3 credits each)

1. Embedded systems Design lab (new course)
2. VLSI Simulations Lab (new course)

The student has to take at least 1 out of these 2 lab courses to complete the core lab course requirements.

Semester wise credits distribution

Semester 1	Semester 2	Semester 3	Semester 4
18 core theory credits			
3 core lab credits			
4 credits seminar	30 credits of electives	MTech Project I 32 credits	MTech Project II 32 credits
12 credits electives			
P/NP Communications skills course			

List of electives
Autumn (Odd) semester

Basket: VLSI and Microelectronics	● VLSI Design ● Physics of Transistors ● Analog IC design ● Nanoelectronics

Spring (Even) semester

Basket: VLSI and Microelectronics	● Mixed signal VLSI Design ● VLSI Technology ● Power semiconductor devices ● System Design of Electronic Products ● VLSI Testing and testability