B.TECH. ECE (MV) PROGRAMME SCHEME

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
NATIONAL INSTITUTE OF TECHNOLOGY KURUKSHETRA
B.Tech. in ECE (Microelectronics & VLSI) Programme Scheme

For Academic Year 2024-25 onwards

The Course Structure for B. Tech. Programme shall have the following categories of courses:

Sr. No.	Category
1	Institute Core (IC)
2	Non-Conventional Institute Core (NC)
3	Program Core (PC)
4	Program Elective (PE)
5	Open Elective (OE)

Course category explanation

Course category	Explanation
IC	Basic Sciences
	Engineering Arts and Sciences
	Humanities and Social Sciences
PC	Courses specific to the relevant discipline
PE	Elective Courses specific to the relevant discipline
OE	Elective Courses from any domain
NC	Courses only qualifying in nature

Course category summery sheet:

Course Category	SEMESTER								Total Courses
	I	II	III	IV	V	VI	VII	VIII	
IC	06	05	01	01	-	-	01	01	15
PC	00	01	04	04	04	03	01	01	18
PE	-	-	-	-	-	2	2	-	04
OE	-	-	-	-	01	01	01	01	04
NC	01	01	-	-	-	-	-	-	02
Total Credits	20	20	19	18	20	21	22	20	43/160

B.TECH. ECE (MV) PROGRAMME SCHEME

DEPARTMENT ELECTRONICS AND COMMUNICATION ENGINEERING

NATIONAL INSTITUTE OF TECHNOLOGY KURUKSHETRA

B.Tech. in ECE (Microelectronics & VLSI) A.Y. 2024-25

SEMESTER —I (BATCH 2024 onwards)

Sr. No	Course Category	Course Title	Course Code	Lecture(L)/ Tutorial(T)/ Practical(P) per week			Credits
				L	T@	P	
1	IC	Economics for Engineers	HSIC 102	3	0	0	3#
		Business Studies	HSIC 104	3	0	0	
2		Differential Calculus and Differential Equations	MAIC 101	3	0	0	3
3		Engineering Physics	PHIC 101	2	0	2	3
4		Engineering Practice	MEIC 102	1	0	3	2
5		Problems Solving and Programming using C	CSIC 103	3	0	2	4
6		Energy and Environment Science	CHIC 101	2	0	2	3
7	NC	Indian Knowledge Systems	HSNC 106	2	0	0	2#
		Teachings of Gita	HSNC 107				
		French Language Skills	HSNC 108				
		German Language Skills	HSNC 109				
		Japanese Language Skills	HSNC 110				
		Thought Lab and Practices	HSNC 111				
8		NCC/ Sports /Yoga	SWNC 101	0	0	4	2*
9		NSS/Club/Technical Societies	SWNC 102	0	0	4	
Total							**20**

*Continuous Evaluation Model as per guidelines and the credit to be awarded at the end of 6th semester based on Cumulative performance up to 6th semester.

Minimum number of students required to register for the subject to be offered is 50 and maximum number is 80 in one lecture group, limited to only 2 lecture groups for any subject.

@ In lieu of tutorial, wherever necessary, assignments and interactions with the students may be conducted at their own convenience by the faculty concerned.

B.TECH. ECE (MV) PROGRAMME SCHEME

DEPARTMENT ELECTRONICS AND COMMUNICATION ENGINEERING

NATIONAL INSTITUTE OF TECHNOLOGY KURUKSHETRA

B.Tech. in ECE (Microelectronics & VLSI) A.Y. 2024-25

SEMESTER —II

Sr.No	Course Category	Course Title	Course Code	Lecture(L)/ Tutorial(T)/ Practical(P) per week			Credits
				L	T	P	
1.	IC	Communication Skills in English	HSIC 101	2	0	2	3#
		Financial Education	HSIC 103	3	0	0	
2.		Integral Calculus and Difference Equations	MAIC 102	3	0	0	3
3.		Advanced Engineering Physics	PHIC 103	2	0	2	3
4.		Engineering Graphics (Web Design)	CSIC 102	1	0	3	2
5.		Chemistry	CHIC 103	2	0	2	3
6.	NC	Human Values and Social Responsibility	HSNC 101	2	0	0	2#
		Sanskrit Language Skills	HSNC 102				
		Hindi Language Skills	HSNC 103				
		Telugu Language Skills	HSNC 104				
		Constitution of India	HSNC 105				
		Vedic Mathematics	MANC 101				
7.		NCC/ Sports /Yoga	SWNC 101	0	0	4	2*
8.		NSS/Club/Technical Societies	SWNC 102	0	0	4	
9.	PC	Circuit Theory (Theory & Lab)	MVPC 101	3	0	2	4
		Total					**20**

*Continuous Evaluation Model as per guidelines and the credit to be awarded at the end of 6th semester based on Cumulative performance up to 6th semester.

Minimum number of students required to register for the subject to be offered is 50 and maximum number is 80 in one lecture group, limited to only 2 lecture groups for any subject.

@ In lieu of tutorial, wherever necessary, assignments and interactions with the students may be conducted at their own convenience by the faculty concerned.