B.Tech. (New Scheme) for Academic Year 2024-25 onwards
Semester-Wise Structure of Curriculum

1st Year: Semester-I

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 (for CSE, IT, ECE, AI&ML, IIoT, AI&DS, and M&C) OR	HSIC101	2	0	2	3#
		Financial Education (for CSE, IT, ECE, AI&ML, IIoT, AI&DS, and M&C)	HSIC103	3	0	0	
		Economics for Engineers (for EE, CE, ME, PIE, SET, R&A, and M&V) OR	HSIC102	3	0	0	
		Business Studies (for EE, CE, ME, PIE, SET, R&A, and M&V)	HSIC104	3	0	0	
2.		Differential Calculus and Differential Equations (for all)	MAIC101	3	0	0	3
3.		Engineering Physics (for all)	PHIC101	3	0	2	4
4.		Engineering Graphics (for EE, CE, and SET)	CEIC101	1	0	3	2
		Engineering Graphics (for ME, PIE, and R&A)	MEIC101	1	0	3	
		Engineering Practice (for CSE, IT, ECE, AI&ML, IIoT, AI&DS, M&C, and M&V)	MEIC102	1	0	3	
5.		Problems Solving and Programming Using C (for CSE, IT, AI&ML, IIoT, AI&DS, and M&C)	CSIC101	3	0	2	4
		Problems Solving and Programming Using C (for EE, CE, ECE, ME, PIE, R&A, SET, and M&V)	CSIC103				
6.		Energy and Environmental Science (for all)	CHIC101	2	0	2	3
7.	NC	Any one subject from Group-I (for CSE, IT, ECE, AI&ML, IIoT, AI&DS, and M&C)	**NC###	2	0	0	2#
		Any one subject from Group-II (for EE, CE, ME, PIE, SET, R&A, and M&V)	**NC###	2	0	0	
8.		NCC/ Sports/ Yoga	SWNC101	0	0	4	2*
9.		NSS/ Clubs/ Technical Societies	SWNC102	0	0	4	
Total Credits (for all)							**21**

*   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.

**   Two letters signifying the Department offering the course.

\#\#\#   Three digits indicating course number.

B.Tech. (New Scheme) for Academic Year 2024-25 onwards
Semester-Wise Structure of Curriculum

1st Year: 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 (for EE, CE, ME, PIE, SET, R&A, and M&V)	HSIC101	2	0	2	3#
		OR Financial Education (for EE, CE, ME, PIE, SET, R&A, and M&V)	HSIC103	3	0	0	
		Economics for Engineers (for CSE, IT, ECE, AI&ML, IIoT, AI&DS, and M&C)	HSIC102	3	0	0	
		OR Business Studies (for CSE, IT, ECE, AI&ML, IIoT, AI&DS, and M&C)	HSIC104	3	0	0	
2.		Integral Calculus and Difference Equations (for all)	MAIC102	3	0	0	3
3.		Advanced Engineering Physics (for CE, ME, and PIE)	PHIC102	3	0	2	4
		Advanced Engineering Physics (for ECE, and M&V)	PHIC103	3	0	2	
		Advanced Engineering Physics (for EE)	PHIC104	3	0	2	
		Advanced Engineering Physics (for IIoT)	PHIC105	3	0	2	
		Semiconductors for Energy Systems (for SET)	PHIC106	3	0	2	
		Digital System Design (for CSE, IT, AI&ML, AI&DS, R&A, and M&C)	CSIC100	3	0	0	3
4.		Engineering Practice (for CE, EE, ME, PIE, SET, and R&A)	MEIC102	1	0	3	2
		Engineering Graphics (Web Design) (For CSE, IT, ECE, AI&ML, IIoT, AI&DS, M&V, and M&C)	CSIC102	1	0	3	
5.		Chemistry (for CE, ME, and PIE)	CHIC102	3	0	2	4
		Chemistry (for EE, ECE and M&V)	CHIC103	3	0	2	
		Electrochemistry & Fuel Cell Technology (SET)	CHIC104	3	0	2	
		Programming using Python (for CSE, IT, AI&ML, IIoT, AI&DS, R&A, and M&C)	CSIC104	2	0	2	3
6.	NC	Any one subject from Group-I (for EE, CE, ME, PIE, SET, R&A, and M&V)	**NC###	2	0	0	2#
		Any one subject from Group-II (for CSE, IT, ECE, AI&ML, IIoT, AI&DS, and M&C)	**NC###	2	0	0	
7.		NCC/ Sports/ Yoga	SWNC101	0	0	4	2*
8.		NSS/ Clubs/ Technical Societies	SWNC102	0	0	4	
9.	PC	Programme Core Course (Theory) **EE, SET, ME, PIE, and R&A**	**PC###	4	0	0	4
		Programme Core Course (Theory & Lab.) **CE, ECE, M&V, SET CSE, IT, AI&ML, AI&DS, M&C, and IIoT**		3	0	2	
Total Credits (for CSE, IT, AI&ML, AI&DS, R&A, and M&C)							**20**
Total Credits (for IIoT)							**21**
Total Credits (for CE, EE, ECE, ME, PIE, M&Vand SET)							**22**

* 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.

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