

NUTAN MAHARASHTRA VIDYA PRASARAK MANDAL'S

**NUTAN MAHARASHTRA INSTITUTE OF ENGINEERING
AND TECHNOLOGY**

AN AUTONOMOUS INSTITUTE | UNDER ADMINISTRATIVE SUPPORT OF PCET



**Curriculum Structure
Of
Third Year B. Tech.
Information Technology (2025 Pattern)**



CURRICULUM STRUCTURE

Third Year B. Tech. (Information Technology) Semester – V

Level 5.5																
Third Year B. Tech Information Technology																
Semester V																
Sl. No.	Course Code	Course Type	Course Name	Credit Scheme			Teaching Scheme (Hours/Week)			Examination Scheme and Marks						
				TH	TUT	PR	L	T	P	CCE		ESE	PR	OR	TW	TOTAL
										UT	FA	SA				
										25	25	50				
1	IT25PCC-301	Programme Core Course	Automata Theory and Computation	2			2			25	25	50				100
2	IT25PCC-302	Programme Core Course	Software Engineering and Validation Techniques	2			2			25	25	50				100
3	IT25PCC-303	Programme Core Course	Software Engineering and Validation Techniques LAB			2			4				50		25	50
4	IT25PCC-304	Programme Core Course	Big Data Analytics	2			2			25	25	50				100
5	IT25PCC-305	Programme Core Course	Big Data Analytics LAB			2			4				25		25	50
6	IT25PEC-306	Programme Elective Course	Programme Elective Course -I	3			3			25	25	50				100
7	IT25PEC-307	Programme Elective Course	Programme Elective Course Lab-I			1			2					50		50
8	IT25MDM-308	Multi-disciplinary Minor	Internet of Things (IoT) Architecture & Protocols	3			3			25	25	50				100
9	IT25MDM-309	Multi-disciplinary Minor	Internet of Things (IoT) Architecture & Protocols LAB			1			2						25	25
10	-	Open Elective Course	Open Elective Course - III		1	1		1	2						25	25
11	IT25ELC-311	Experiential Learning Course	Research Methodology-I			2			4						25	50
TOTAL				12	1	9	12	1	18	125	125	250	75	50	125	750
				22			31									

CCE- Comprehensive Continuous Evaluation, **ESE-** End Semester Evaluation, **TW-**Term Work, **OR-**Oral, **PR-**Practical, **TH-**Theory, **L-**Lecture, **T/TUT-**Tutorial, **UT-** Unit Test, **FA-**Formative Assessment, **SA** – Summative Assessment

Basket: List of Courses - Programme Elective Course -I

Course Code	Course Name	Choose Any One
IT25PEC-306-A	Fundamentals of Game Design	
IT25PEC-306-B	Network Security	
IT25PEC-306-C	Human Computer Interaction	

Basket: List of Courses - Open Elective Course-III

Course Code	Course Name	Choose Any One
CE25OEC-310	Fundamentals of Fintech	
ME25OEC-310	Supply Chain Management	
ETC25OEC-310	Industrial Organization and Management	

CURRICULUM STRUCTURE

Third Year B. Tech. (Information Technology) Semester – VI

Level 5.5																
Third Year B. Tech Information Technology																
Semester VI																
Sl. No.	Course Code	Course Type	Course Name	Credit Scheme			Teaching Scheme (Hours/Week)			Examination Scheme and Marks						
										CCE		ESE	PR	OR	TW	TOTAL
				TH	TUT	PR	L	T	P	UT	FA	SA				
				25	25	50										
1	IT25PCC-351	Programme Core Course	Machine Learning	2			2			25	25	50				100
2	IT25PCC-352	Programme Core Course	Machine Learning LAB			1			2				25		25	50
3	IT25PCC-353	Programme Core Course	Cloud Computing	2			2			25	25	50				100
4	IT25PCC-354	Programme Core Course	Cloud Computing LAB			1			2				25		25	50
5	IT25PCC-355	Programme Core Course	Information Security	2			2			25	25	50				100
6	IT25PEC-356	Programme Elective Course	Programme Elective Course -II	3			3			25	25	50				100
7	IT25PEC-357	Programme Elective Course	Programme Elective Course Lab-II			2			4					50		50
8	IT25PEC-358	Programme Elective Course	Programme Elective Course-III	3			3			25	25	50				100
9	IT25MDM-359	Multi-disciplinary Minor	Communication Protocols and Standards		1	1		1	2						25	25
10	IT25VSE-360	Vocational & Skill Enhancement Course	Vocational & Skill Enhancement Course -II			2			4						25	25
11	IT25ELC-361	Experiential Learning Course	Internship			2			4					25	25	50
Total				12	1	9	12	1	18	125	125	250	50	75	125	750
				22			31									

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Basket: List of Courses - Programme Elective Course-II

Course Code	Course Name	Choose Any One
IT25PEC-356-A	Game Programming	
IT25PEC-356-B	Cyber Security	
IT25PEC-356-C	UI/UX Design	

Basket: List of Courses - Programme Elective Course-III

Course Code	Course Name	Choose Any One
IT25PEC-358-A	Natural language Processing	
IT25PEC-358-B	Software Project Management	
IT25PEC-358-C	Image Processing	

Basket: List of Courses - Vocational & Skill Enhancement Course-I

Course Code	Course Name	Choose Any One
IT25VSE-360-A	Web and Digital Media Technology	
IT25VSE-360-B	Java programming	
IT25VSE-360-C	Platform Development using DevOps	