

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

<b>Level 5.5</b>																
<b>Third Year B. Tech Information Technology</b>																
<b>Semester V</b>																
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		
							25	25	50	UT	FA					
1	IT25PCC-301	Programme Core Course	Automata Theory and Computation	2			2			25	25	50				
2	IT25PCC-302	Programme Core Course	Software Engineering and Validation Techniques	2			2			25	25	50				
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				
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				
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				
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	
<b>TOTAL</b>				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**

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

**Basket: List of Courses - Open Elective Course-III**

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

## CURRICULUM STRUCTURE

### Third Year B. Tech. (Information Technology) Semester - VI

<b>Level 5.5</b>																
<b>Third Year B. Tech Information Technology</b>																
<b>Semester VI</b>																
Sl. No.	Course Code	Course Type	Course Name	Credit Scheme			Teaching Scheme (Hours/Week)			Examination Scheme and Marks			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	25
10	IT25VSE-360	Vocational & Skill Enhancement Course	Vocational & Skill Enhancement Course -II	1		2			4					25	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	