



**JSPM UNIVERSITY PUNE**

Recognized by UGC u/s 2 (f) of UGC Act 1956 and enacted by the  
State Government of Maharashtra - JSPM University Act, 2022 (Mah.IV of 2023)

**JSPM University Pune**  
**Faculty of Science and Technology**  
**School of Computational Sciences**



**NEP aligned Curriculum Structure**

**for**

**M. Tech (Cyber Security)**

**(Effective from AY: 2025-26)**



# JSPM University Pune

FACULTY OF SCIENCE AND TECHNOLOGY

SCHOOL OF COMPUTATIONAL SCIENCES

FIRST YEAR MASTER OF TECHNOLOGY  
(CYBER SECURITY)

## COURSE STRUCTURE (NEP 2020 Aligned)

W. E. F

2025-2026

RELEASE DATE

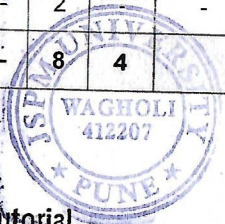
01/07/2025

REVISION NO.

0.0 (NEP)

### SEMESTER I (LEVEL 6.5)

TYPE	CODE	COURSE NAME	TEACHING SCHEME				EXAMINATION SCHEME AND MARKS								TOTAL	CREDITS
			Hours / Week				THEORY (Equal Weightage for CIE and ESE)			PRACTICAL (Equal Weightage for CIE and ESE)		ORAL (Equal Weightage for CIE and ESE)				
			L	T	P	EL	CONTINUOUS INSEMESTER EVALUATION (100 Marks)			END SEMESTER EXAMINATION (100 / 50 Marks)	CONTINUOUS INSEMESTER EVALUATION (50 Marks)	END SEMESTER EXAMINATION (50 Marks)	CONTINUOUS INSEMESTER EVALUATION (50 Marks)	END SEMESTER EXAMINATION (50 Marks)		
							T1 (30 Marks)	T2 (30 Marks)	Assignments (40 Marks)							
PSMC	250GISM01_01	Mathematical Foundations for Information Security	3	-	-	-	30	30	40	100	-	-	-	-	100	3
PCC	250GISM02_01	Modern Cryptographic Algorithms	2	-	-	-	30	30	40	50	-	-	-	-	50	2
PCC	250GISM03_01	Cyber Security and Laws	3	-	-	-	30	30	40	100	-	-	-	-	100	3
PCC	240GCSM04_01	Soft Computing and Optimization Techniques	2	-	-	2	30	30	40	100	-	-	-	-	100	3
MMC	---	Multidisciplinary Minor Course	1	-	2	-	-	-	-	-	-	-	-	-	100	2.5
SEC	250GISM11_01	Python Programming for Cyber Security	2	-	2	-	-	-	-	-	50	50	50	50	100	2
VSC	230IDCB01_01	Design Thinking and Creativity	1	-	-	2	-	-	-	-	50	50	50	50	100	3
AEC (HSMC)	231UENM01_01	Communicative English for Professionals	1	-	2	-	-	-	-	-	-	-	50	50	50	1.5
RMC	230IRMM01_01	Research Methodology	2	-	-	-	30	30	40	50	50	50	-	-	50	2
LC	250GISM04_01	Modern Cryptographic Algorithms Lab	-	-	2	-	-	-	-	-	-	-	-	-	50	2
<b>TOTAL</b>			<b>16</b>	<b>-</b>	<b>8</b>	<b>4</b>									<b>750</b>	<b>22</b>



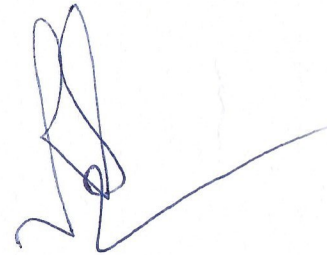
Multidisciplinary Minor Course (MMC)		
Course Code	230GRAM24_01	230GETM17_01
Course Name	Sensors and Automation	Embedded System
Course Code	230GETM16_01	230VOSM26_01
Course Name	IoT Basics and Applications	Project Management



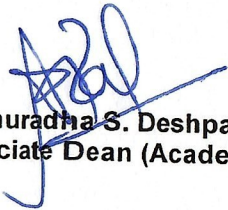
**Dr. Rahul R. Chakre**  
Programme Coordinator, MTech-CS



**Prof. G. A. Patil**  
Director, School of Computational Sciences



**Prof. R. S. Deshpande**  
Dean, Faculty of Science and Technology



**Dr. Anuradha S. Deshpande**  
Associate Dean (Academics)




**Prof. B. B. Ahuja**  
Vice Chancellor, JSPM University Pune  
Vice Chancellor  
JSPM University  
Pune



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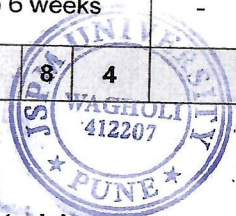
2025-2026  
01/07/2025

REVISION NO.

0.0 (NEP)

### SEMESTER II (LEVEL 6.5)

TYPE	CODE	COURSE NAME	TEACHING SCHEME				EXAMINATION SCHEME AND MARKS								TOTAL	CREDITS	
			Hours / Week				THEORY (Equal Weightage for CIE and ESE)			PRACTICAL (Equal Weightage for CIE and ESE)		ORAL (Equal Weightage for CIE and ESE)					
			L	T	P	EL	CONTINUOUS INSEMESTER EVALUATION (100 / 25 Marks)			END SEMESTER EXAMINATION (100 / 75 / 50 Marks)	CONTINUOUS INSEMESTER EVALUATION (50 Marks)	END SEMESTER EXAMINATION (50 Marks)	CONTINUOUS INSEMESTER EVALUATION (50 Marks)	END SEMESTER EXAMINATION (50 Marks)			
							T1 (30 Marks)	T2 (30 Marks)	Assignments (40 Marks)								
PSMC	250GISM05_02	Quantum Computing: Algorithms and Limitations Through the Query Model	3	-	-	-	25			75	-	-	-	-	100	3	
PCC	250GISM06_02	Ethical Hacking and Security	3	-	-	-	30	30	40	100	-	-	-	-	100	3	
PCC	250GISM07_02	Security Standards and Practices	2	-	-	2	30	30	40	100	-	-	-	-	100	2.5	
PCC	250GISM08_02	Information Security Audits and Compliance	2	-	-	-	30	30	40	50	-	-	-	-	50	2	
MMC	---	Multidisciplinary Minor Course	1	-	2	-	-	-	-	-	50	50	50	50	100	2	
VSC	230IINB02_02	Innovation	1	-	-	2	-	-	-	-	-	-	50	50	50	1.5	
AEC (SMC)	231UENM02_02	Business Communication	1	-	2	-	-	-	-	-	50	50	-	-	50	2	
RMC	230IRMM02_02	Research Design and Techniques	2	-	-	-	30	30	40	50	-	-	-	-	50	2	
LC	250GISM09_02	Ethical Hacking and Security Lab	-	-	2	-	-	-	-	-	50	50	-	-	50	1	
-C	250GISM10_02	Information Security Audits and Compliance Lab	-	-	2	-	-	-	-	-	50	50	-	-	50	1	
P/FP/EP	250GISM12_02	Internship/Field Project/Community Engagement Programme	4 to 6 weeks				-	-	-	-	-	-	-	50	50	50	2
<b>TOTAL</b>			15	-	8	4									750	22	



L-Lecture  
Format No.: JSPMUni/ACAD/001

T-Tutorial  
Rev. No.:0.0

P-Practical Session (Laboratory)  
Rev. Date:01/07/2025

EL-Experiential Learning  
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Multidisciplinary Minor Course (MMC)		
Course Code	230GRAM24_01	230GETM17_02
Course Name	Sensors and Automation	Embedded System
Course Code	230GETM28_02	230VOSM26_02
Course Name	IoT and Embedded Systems	Project Management

**Note:** A Postgraduate Diploma will be awarded if a student exits after first year.

For "Exit" at the end of "First Year" the student must complete a total of 8 additional credits.

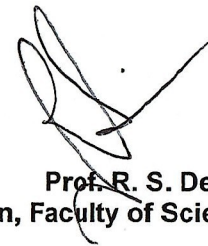
- An internship / OJT of 8 - 10 weeks (4 credits) over and above semester 6 internship of minimum 4 weeks.
- Additional one Course of 4 credits (Course offered will be Vocational Skill Course (VSC) or Skill Enhancement Course (SEC) or a mini project).



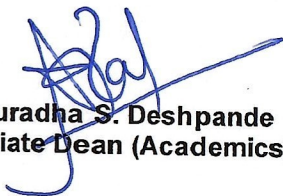
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