



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 (Computer Science & Engineering)

(Effective from AY: 2025-26)



JSPM University Pune

FACULTY OF SCIENCE AND TECHNOLOGY

SCHOOL OF COMPUTATIONAL SCIENCES

FIRST YEAR MASTER OF TECHNOLOGY

(COMPUTER SCIENCE AND ENGINEERING)

COURSE STRUCTURE
(NEP 2020 Aligned)

W. E. F

RELEASE DATE

REVISION NO.

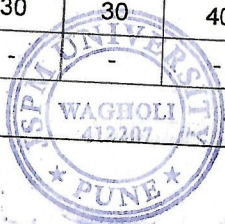
2024-2025

01/07/2025

1.0 (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	240GCSM01_01	Foundations of Computational Mathematics	3	-	-	-	30	30	40	100	-	-	-	-	100	3
PCC	240GCSM02_01	Advanced Algorithms	2	-	-	-	30	30	40	50	-	-	-	-	50	2
PCC	240GCSM03_01	Distributed and Cloud Computing	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	240GCSM05_01	Advanced Python Programming	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	2	
LC	240GCSM06_01	Advanced Algorithms Lab	-	-	2	-	-	-	-	-	-	-	-	50	2	
TOTAL			16	-	8	4					50	50	-	-	50	1
															750	22



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

T-Tutorial
Rev. No.:1.0

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

EL-Experiential Learning
Page 1 of 1

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



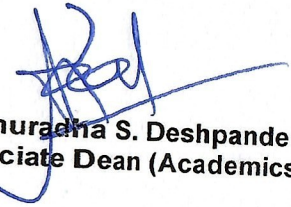
Dr. Rahul R. Chakre
Programme Coordinator, MTech-CSE



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. Anuja
Vice Chancellor, JSPM University Pune



Vice Chancellor
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Pune



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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	240GCSM07_02	Probability and Statistics (MOOC)	3	-	-	-	25			75	-	-	-	-	100	3	
PCC	230GCSM13_02	High Performance Computing	3	-	-	-	30	30	40	100	-	-	-	-	100	3	
PCC	240GCSM09_02	Cloud Security and Risk Management	2	-	-	2	30	30	40	100	-	-	-	-	100	2.5	
PCC	240GCSM10_02	Big Data Analytics	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 (HSMC)	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	240GCSM11_02	High Performance Computing Lab	-	-	2	-	-	-	-	-	50	50	-	-	50	1	
LC	240GCSM12_02	Big Data Analytics Lab	-	-	2	-	-	-	-	-	50	50	-	-	50	1	
ITP/FP/CEP	230GCSM22_02	Internship/Field Project/Community Engagement Programme	4 to 6 weeks				-	-	-	-	-	-	-	50	50	50	2
TOTAL			15	-	8	4								750	22		



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).



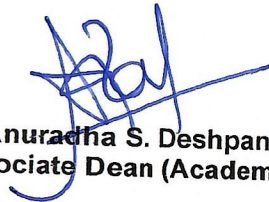
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