



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 Basic and Applied Sciences



NEP aligned Curriculum Structure

for

M.Sc (Physics)

(Effective from AY: 2025-26)



JSPM University Pune

FACULTY OF SCIENCE AND TECHNOLOGY

SCHOOL OF BASIC AND APPLIED SCIENCES

FIRST-YEAR MASTER OF SCIENCE
(Physics)

COURSE STRUCTURE
(NEP 2020 Aligned)

W. E. F

2025-2026

RELEASE DATE

01/07/2025

REVISION NO.

0.0

SEMESTER I (LEVEL 6.5)

COURSE			TEACHING SCHEME				EXAMINATION SCHEME AND MARKS									
TYPE	CODE	COURSE NAME	Hours / Week				THEORY (Equal Weightage for CIE and ESE)				PRACTICAL (Equal Weightage for CIE and ESE)		ORAL (Equal Weightage for CIE and ESE)		TOTAL	CREDITS
			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	250GMAM01_01	Mathematical Methods for Physics	2	1	-		30	30	40	100	-	-	-	-	100	3
PCC	250GPHM01_01	Quantum Mechanics	3	-	-		30	30	40	100	-	-	-	-	100	3
PCC	250GPHM02_01	Condensed Matter Physics	3	-	-	2	30	30	40	100	-	-	-	-	100	3
MMC	-	Multidisciplinary Minor Course	1	-	2	-	-	-	-	-	50	50	50	50	100	3.5
SEC	250GPHM03_01	Programming for Physicists	2	-	2	-	-	-	-	-	50	50	50	50	100	2
VSC (HSMC)	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	2
LC	250GPHM04_01	Modern Physics Lab	-	-	2	-	-	-	-	-	50	50	-	-	50	2
LC	250GPHM05_01	Computational Physics Lab	-	-	2	-	-	-	-	-	50	50	-	-	50	1
TOTAL			15	1	10	4					50	50	-	-	50	1
															750	22

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

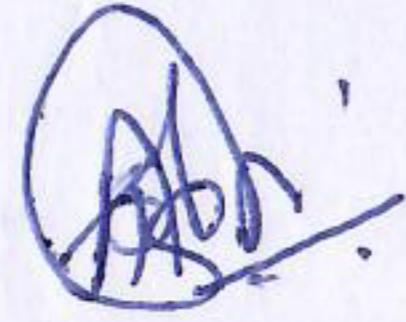
T-Tutorial
Rev. No.:0.0

P-Practical Session (Laboratory)
Rev. Date:



EL-Experiential Learning
Page 1 of 2

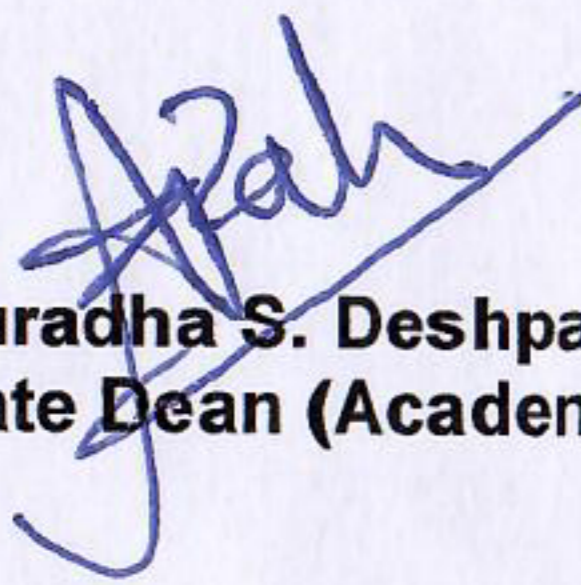
Sem.	Multidisciplinary Minor Course (MMC)				
I	Course Code	230GMEB88_01	230GRAB91_01	240VMGB01_01	230GSCM28_01
	Course Name	Materials Science with Applications	Basics of Robotics	Current Trends in Marketing	Introduction to Data Science
II	Course Code	230GMEB90_01	230GRAB94_02	240VFMB01_02	230GCSM29_02
	Course Name	Computer Aided Design (CAD)	Industrial Robots	Current Trends in Finance	Introduction to Artificial Intelligence



Dr. Anand Joshi
Programme Coordinator (Physics), SBAS



Dr. 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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SEMESTER II (LEVEL 6.5)

COURSE		TEACHING SCHEME	EXAMINATION SCHEME AND MARKS												C R E D I T S		
TYPE	CODE	COURSE NAME	Hours / Week				THEORY (Equal Weightage for CIE and ESE)				PRACTICAL (Equal Weightage for CIE and ESE)		ORAL (Equal Weightage for CIE and ESE)			T O T A L	
			L	T	P	E L	CONTINUOUS INSEMESTER EVALUATION (100 Marks)			END SEMESTER EXAMINATI ON (100 / 50 Marks)	CONTINUO US INSEMEST ER EVALUATI ON (50 Marks)	END SEMESTER EXAMINATI ON (50 Marks)	CONTINUO US INSEMEST ER EVALUATI ON (50 Marks)	END SEMESTER EXAMINATI ON (50 Marks)			
							T1 (30 Marks)	T2 (30 Marks)	Assign- ments (40 Marks)								
PSMC	250GMAM02_02	Computational Methods for Physics	2	1	-	-	30	30	40	100	-	-	-	-	100	3	
PCC	250GPHM06_02	Statistical Mechanics	2	-	-	-	30	30	40	100	-	-	-	-	50	2	
PCC	250GPHM07_02	Semiconductor Devices	2	-	-	2	30	30	40	100	-	-	-	-	100	2.5	
MMC	-	Multidisciplinary Minor Course	1	-	2	-	-	-	-	-	50	50	50	50	100	2	
SEC	250GPHM08_02	Informatics in Physics	2	-	2	-	-	-	-	-	50	50	50	50	100	3	
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	250GPHM09_02	Applied Computational Physics Lab	-	-	2	-	-	-	-	-	50	50	-	-	50	1	
LC	250GPHM10_02	Semiconductor Devices Lab	-	-	2	-	-	-	-	-	50	50	-	-	50	1	
IITP/FP/ CEP	250GPHM11_02	Internship/Field Project/Community Engagement Program	4 to 6 weeks				-	-	-	-	-	-	-	50	50	50	2
TOTAL			13	1	10	4									750	22	



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: (Total credits = 8)

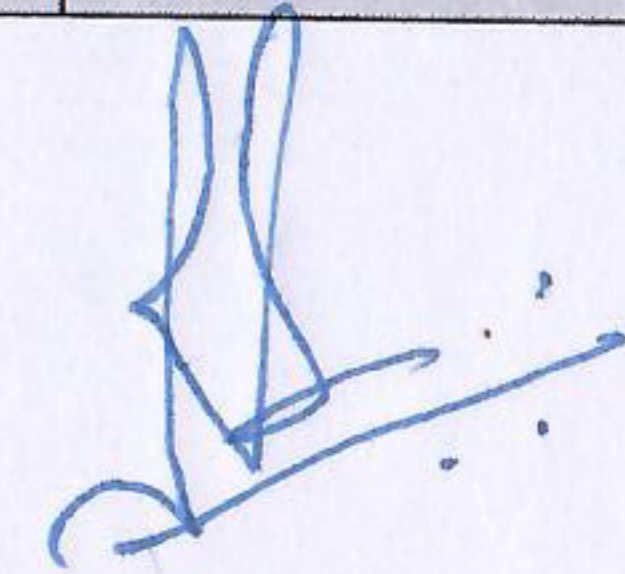
a) An internship / OJT of 8 - 10 weeks (4 credits)

b) Additional Course 1 (4 credits) (Vocational Skill Course (VSC) / Skill Enhancement Course (SEC))

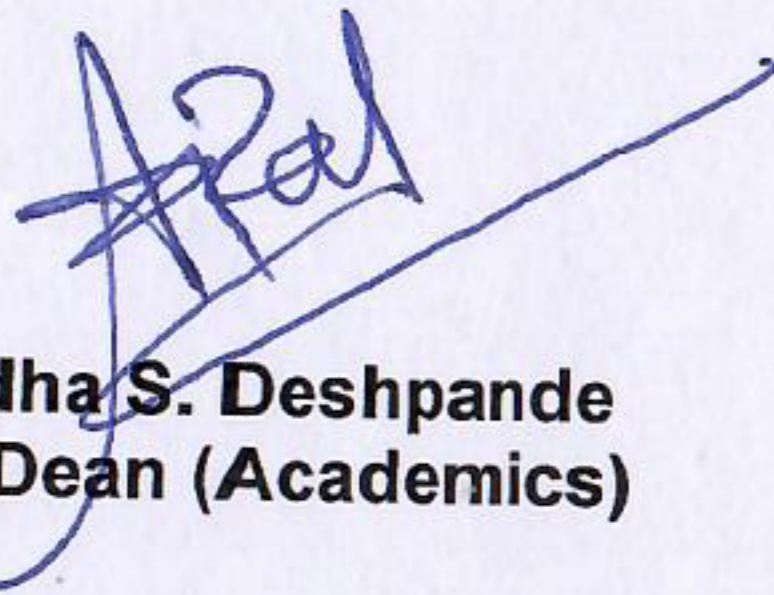
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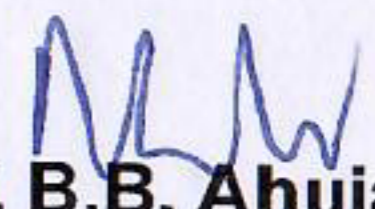


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