



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

B.Sc (Mathematics)

(Effective from AY: 2024-25)



JSPM University Pune

FACULTY OF SCIENCE & TECHNOLOGY

SCHOOL OF COMPUTATIONAL SCIENCES

FIRST YEAR BACHELOR OF SCIENCE
(MATHEMATICS)

COURSE STRUCTURE
(NEP 2020 Aligned)

W. E. F

2024-2025

RELEASE DATE

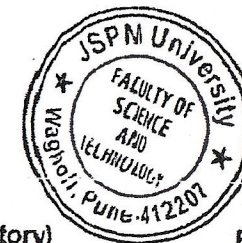
01/07/2024

REVISION NO.

0.0 (NEP)

SEMESTER I (LEVEL 4.5)

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)									
PCC	240GMAB01_01	Introduction to Discrete Mathematics	2	1	-	-	30	30	40	100	-	-	-	-	100	3		
PCC	240GMAB02_01	Differential and Integral Calculus	3	1	-	-	30	30	40	100	-	-	-	-	100	4		
IOC		Interdisciplinary Open Course	2	-	-	-	30	30	40	100	-	-	-	-	100	2		
SEC	240GSCB02_01	Problem Solving using C Programming	2	-	2	-	-	-	-	-	50	50	50	50	100	3		
VSC	230IDCB01_01	Design Thinking and Creativity	1	-	-	2	-	-	-	-	-	-	50	50	50	1.5		
AEC (HSMC)	230UENB01_01	Effective Communication Skills	1	-	2	-	30	30	40	50	-	-	-	50	50	2		
IKS (HSMC)	230UHIB02_01	Wisdom Through Ancient India	2	-	-	-	30	30	40	50	-	-	-	-	50	2		
VEC/EEC (HSMC)	230GCEB02_01	Environment and Sustainability	2	-	-	-	30	30	40	50	-	-	-	-	50	2		
LC	240GMAB21_01	Introduction to Scilab	-	-	2	-	-	-	-	-	50	50	-	-	50	1		
LLC	230UPYB01_01	Mindfulness and Well-being	1	-	-	2	-	-	-	-	-	-	50	-	50	1		
TOTAL			16	2	6	4							50		50	1.5		
															700	22		



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

T-Tutorial
Rev. No.:0.0

P-Practical Session (Laboratory)
Rev. Date:01/07/2024

EL-Experiential Learning
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FACULTY OF SCIENCE & TECHNOLOGY

SCHOOL OF COMPUTATIONAL SCIENCES

BACHELOR OF SCIENCE
(MATHEMATICS)

COURSE STRUCTURE (NEP 2020 Aligned)

W. E. F

2025-2026

RELEASE DATE

01/07/2025

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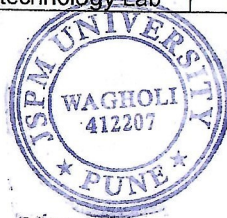
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SEMESTER III (LEVEL 5)

COURSE			TEACHING SCHEME				EXAMINATION SCHEME AND MARKS									TOTAL	CREDITS
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)				
			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)								
PCC	240GMAB07_03	Analytical Solid Geometry	3	1	-	-	30	30	40	100	-	-	-	-	100	4	
PCC	240GMAB08_03	Fundamentals of Ring Theory	2	1	-	-	30	30	40	100	-	-	-	-	100	3	
PCC	240GMAB09_03	Matrices and Boolean Algebra	2	1	-	-	30	30	40	100	-	-	-	-	100	3	
MDM	-	Multi-Disciplinary.Minor	3	1	-	-	30	30	40	100	-	-	-	-	100	4	
IOC	-	Interdisciplinary Open Course	2	-	-	-	30	30	40	100	-	-	-	-	100	2	
VSC	230IINB02_03	Innovation	1	-	-	2	-	-	-	-	-	-	50	50	50	1.5	
AEC (HSMC)	230UENB03_03	Soft Skill Development	1	-	2	-	30	30	40	50	-	-	-	-	50	2	
LC	240GMAB22_03	Latex Typesetting	-	-	2	-	-	-	-	-	50	50	-	-	50	1	
LLC	230HFSB80_03	Health and Nutrition	1	-	2	2	-	-	-	-	-	-	50	-	50	1.5	
TOTAL			15	4	6	4									700	22	



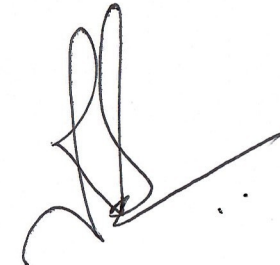
Sem.	Multi-Disciplinary Minor (MDM) Course				
	Specialization	Web Development	Biology	3D Printing	Statistics
II	Course Code	231GSCB101_02	240GBEB01_02	230GMEB86_02	240GMAB51_02
	Course Name	Internet and Networking	Biochemistry	Fundamentals of Mechanical Engineering	Descriptive Statistics
III	Course Code	230GSCB102_03	240GBEB02_03	230GMEB91_03	240GMAB52_03
	Course Name	Basics of HTML and CSS	Molecular Biology	Computer Aided Design (CAD)	Introduction to Probability and Distributions
	Course Code	230GSCB103_03	240GBEB03_03	230GMEB92_03	-
	Course Name	Basics of HTML and CSS Lab	Molecular Biology Lab	Computer Aided Design (CAD) Lab	-
IV	Course Code	230GSCB104_04	240GBEB04_04	230GRAB86_04	240GMAB53_04
	Course Name	Web Technology using PHP	Human Biological Sciences	3D Printing: Introduction & Processes	Introduction to statistical Hypothesis testing
	Course Code	230GSCB105_04	240GBEB05_04	230GRAB87_04	-
	Course Name	Web Technology using PHP Lab	Human Biological Sciences Lab	3D Printing: Introduction & Processes Lab	-
V	Course Code	230GSCB106_05	240GBEB06_05	230GRAB88_05	240GMAB54_05
	Course Name	JAVA Frameworks for Web Development	Applied Biology	Application of 3D Printing	Operation Research and Time Series Analysis
	Course Code	230GSCB107_05	240GBEB07_05	-	-
	Course Name	JAVA Frameworks for Web Development Lab	Applied Biology Lab	-	-
VI	Course Code	231GSCB108_06	240GBEB08_06	230GRAB89_06	240GMAB56_06
	Course Name	Adv Web Development Technologies	Bioinformatics and Biotechnology	Product Design and Development	Regression Analysis
	Course Code	-	240GBEB09_06	-	-
	Course Name	-	Bioinformatics and Biotechnology Lab	-	-



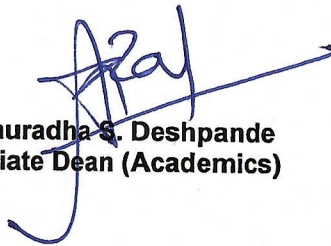
Sem.	Interdisciplinary Open Course	
	Specialization	Physics
I	Course Code	240GPHB11_01
	Course Name	Mechanics
II	Course Code	240GPHB12_02
	Course Name	Thermodynamics
III	Course Code	240GPHB13_03
	Course Name	Waves Oscillation and Acoustics



Dr. M. G. Shrigan
Program Coordinator, B. Sc. (Mathematics)



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 IV (LEVEL 5)

COURSE		TEACHING SCHEME	EXAMINATION SCHEME AND MARKS												TOTAL	CREDITS
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)				
			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)							
PCC	240GMAB10_04	Introduction to Ordinary Differential Equations	2	-	-	2	30	30	40	100	-	-	-	-	100	2.5
PCC	240GMAB11_04	Contemporary Linear Algebra	2	1	-	-	30	30	40	100	-	-	-	-	100	3
PCC	240GMAB12_04	Vector Analysis	2	1	-	-	30	30	40	100	-	-	-	-	100	3
MDM	-	Multi-Disciplinary Minor	3	1	-	-	30	30	40	100	-	-	-	-	100	4
SEC	230VBCB10_04	Advanced Excel	2	-	2	-	-	-	-	-	50	50	50	50	100	3
AEC (HSMC)	230UENB04_04	Verbal Ability through Literature	1	-	2	-	30	30	40	50	-	-	-	-	50	2
LC	240GMAB57_04	Ordinary Differential Equations Using Python	-	-	2	-	-	-	-	-	50	50	-	-	50	1
LLC	240VBBB02_04	Theater and Performing Arts	-	-	2	2	-	-	-	-	-	-	50	-	50	1.5
IITP/FP/CEP	240GMAB92_04	Internship / Field Project / Community Engagement Program	4 to 6 weeks				-	-	-	-	-	-	50	50	50	2
TOTAL			12	3	8	4									700	22
MLC#	-	Audit Course	1	-	-	-	-	-	-	50	-	-	-	-	50	1



Sem.	Multi-Disciplinary Minor (MDM) Course				
	Specialization	Web Development	Biology	3D Printing	Statistics
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	Course Name	Internet and Networking	Biochemistry	Fundamentals of Mechanical Engineering	Descriptive Statistics
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	Course Name	Basics of HTML and CSS Lab	Molecular Biology Lab	Computer Aided Design (CAD) Lab	-
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	Course Name	Web Technology using PHP	Human Biological Sciences	3D Printing: Introduction & Processes	Introduction to statistical Hypothesis testing
V	Course Code	230GSCB106_05	240GBEB06_05	230GRAB88_05	240GMAB54_05
	Course Name	JAVA Frameworks for Web Development	Applied Biology	Application of 3D Printing	Operation Research and Time Series Analysis
	Course Code	230GSCB107_05	240GBEB07_05	-	-
	Course Name	JAVA Frameworks for Web Development Lab	Applied Biology Lab	-	-
VI	Course Code	231GSCB108_06	240GBEB08_06	230GRAB89_06	240GMAB56_06
	Course Name	Adv Web Development Technologies	Bioinformatics and Biotechnology	Product Design and Development	Regression Analysis
	Course Code	-	240GBEB09_06	-	-
	Course Name	-	Bioinformatics and Biotechnology Lab	-	-



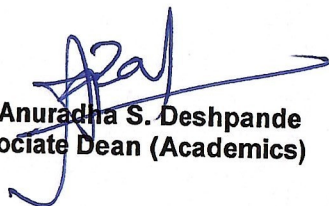
Sem.	Mandatory Learning Course (MLC)* Audit Course	
IV	Course Code	230UPOB02_04
	Course Name	Introduction to Indian Constitution
V	Course Code	240GCAB92_05
	Course Name	German Language
VI	Course Code	240GSCB131_06
	Course Name	Salesforce Admin 201



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