



**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 (Biotechnology)**

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



# JSPM University Pune

FACULTY OF SCIENCE AND TECHNOLOGY  
SCHOOL OF BASICS AND APPLIED SCIENCES

## COURSE STRUCTURE (NEP 2020 Aligned)

W. E. F

2025-2026

RELEASE DATE

1/07/2025

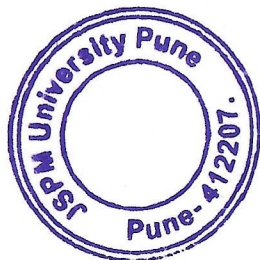
REVISION NO.

0.0 (NEP)

FIRST YEAR BACHELOR OF SCIENCE (BIOTECHNOLOGY)

### 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	250GBTB02_01	Cell and Developmental Biology	3	1	-	-	30	30	40	100	-	-	-	-	100	4		
	250GBTB03_01	Introduction to Biotechnology	2	1	-	-	30	30	40	100	-	-	-	-	100			
IOC	-	Interdisciplinary Open Course	2	-	-	-	30	30	40	100	-	-	-	-	100	3		
SEC	250GCSB201_01	Basic IT Tools	2	-	2	-	-	-	-	-	50	50	50	50	100	2		
VSC	230IDCB01_01	Design Thinking and Creativity	1	-	-	2	-	-	-	-	-	-	50	50	100	3		
AEC (HSMC)	230UENB01_01	Effective Communication Skills	1	-	2	-	30	30	40	50	-	-	50	50	50	1.5		
IKS	250UIKB05_01	Indian Traditional Biology	2	-	-	-	30	30	40	50	-	-	-	-	50	2		
VEC/EEC (HSMC)	230GCEB03_01	Environment Policy and Legislations	2	-	-	-	30	30	40	50	-	-	-	-	50	2		
LC	250GBTB04_01	Introduction to Biotechnology Lab	-	-	2	-	-	-	-	-	-	-	-	-	50	2		
LLC	231UPYB02_01	Mindfulness and Wellbeing	1	-	-	2	-	-	-	-	50	50	-	-	50	1		
<b>TOTAL</b>			<b>16</b>	<b>2</b>	<b>6</b>	<b>4</b>								<b>50</b>	<b>700</b>	<b>22</b>		



Sem.	Interdisciplinary Open Course (IOC)					
I	Course Code	230HFSB93_01	230VBCB04_01	230UPYB34_01	230GCSB151_01	250GCHB51_01
	Course Name	Forensic Biotechnology	Basics of Accounting	Psychology at workplace	AI for Everyone	Fundamentals of Chemistry
II	Course Code	230HFSB85_02	230VBCB11_02	230UPYB09_02	230GCSB154_02	250GMAB02_02
	Course Name	Principles of Human Nutrition	Introduction to Cost Accounting	Emotional Intelligence	Basics of Machine Learning	Introduction to Statistical Methods
III	Course Code	250HPSB01_03	230VBCB15_03	230USYB08_03	250GCHB51_03	230GCEB92_03
	Course Name	Therapeutic Biotechnology	Finance for Non-Finance	Cognitive Sociology	Fundamentals of Data Science	Basics of Bioremediation

*Pratiksha*

**Dr. Pratiksha Jadaun**  
Programme Coordinator (Biotechnology)

*R. S. Deshpande*

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



*A. S. Deshpande*

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

*B. B. Ahuja*

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



# JSPM University Pune

FACULTY OF SCIENCE AND TECHNOLOGY

SCHOOL OF BASIC AND APPLIED SCIENCES

FIRST YEAR BACHELOR OF SCIENCE (BIOTECHNOLOGY)

COURSE STRUCTURE  
(NEP 2020 Aligned)

W. E. F

2025-2026

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0.0 (NEP)

## SEMESTER II (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	250GBTB05_02	Essentials of Microbiology	2	1	-	2	30	30	40	100	-	-	-	-	100	3.5		
	250GBTB06_02	Basics of Biomolecules and Metabolism	2	-	-	-	30	30	40	50	-	-	-	-	50	2		
MDM	-	Multi-Disciplinary Minor Course	3	-	-	-	30	30	40	100	-	-	-	-	100	3		
IOC	-	Interdisciplinary Open Course	2	-	-	-	30	30	40	100	-	-	-	-	100	2		
SEC	240GCHB30_02	Cheminformatics	2	-	2	-	-	-	-	-	50	50	50	50	100	3		
AEC (HSMC)	230UENB02_02	Communicative Proficiency Skills	1	-	2	-	30	30	40	50	-	-	-	-	50	2		
VEC/EEC (HSMC)	230UPYB03_02	Ethics and Moral Values	2	-	-	-	30	30	40	50	-	-	-	-	50	2		
LC	250GBTB07_02	Basics of Biomolecules and Metabolism Lab	-	-	2	-	-	-	-	-	50	50	-	-	50	1		
LLC	231UPYB01_02	Yoga and Fitness	1	-	-	2	-	-	-	-	-	-	50	-	50	1.5		
IITP/FP/CEP	250GBTB08_02	Internship/Field Project/Community Engagement Program	4 to 6 weeks				-	-	-	-	-	-	-	50	50	50	2	
<b>TOTAL</b>			<b>15</b>	<b>1</b>	<b>6</b>	<b>4</b>									<b>700</b>	<b>22</b>		

Note: A Certificate 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.  
 a) An internship / OJT of 8 - 10 weeks (4 credits) over and above semester 2 internship of minimum 4 weeks.  
 b) Additional one Course of 4 credits (Course offered will be Vocational Skill Course (VSC) or Skill Enhancement Course (SEC) or a mini project).

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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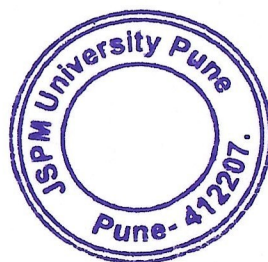
Sem.	Multi-Disciplinary Minor (MDM)			
	Specialization	Chemistry	Mathematics	Web Development
II	Course Code	240GCHB40_02	240GMAB51_02	230GSCB101_02
	Course Name	Atomic Structure and Chemical Bonding	Descriptive Statistics	Internet and Networking
III	Course Code	240GCHB41_03	240GMAB52_03	230GSCB102_03
	Course Name	Introduction to Medicinal Chemistry	Probability Distributions	Basics of HTML and CSS
	Course Code	240GCHB47_03	-	230GSCB103_03
	Course Name	Introduction to Medicinal Chemistry Lab	-	Basics of HTML and CSS Lab
IV	Course Code	240GCHB42_04	240GMAB53_04	230GSCB104_04
	Course Name	Reaction Mechanisms in Organic Chemistry	Introduction to Statistical Hypothesis Testing	Web Technology using PHP
	Course Code	240GCHB43_04	-	230GSCB10_04
	Course Name	Reaction Mechanisms in Organic Chemistry Lab	-	Web Technology using PHP Lab
	Course Code	240GCHB44_05	240GMAB54_05	230GSCB106_05
	Course Name	Fundamentals of Nanomaterials	Operation Research and Time Series Analysis	JAVA Frameworks for Web Development
V	Course Code	240GCHB45_05	-	230GSCB107_05
	Course Name	Fundamentals of Nanomaterials Lab	-	JAVA Frameworks for Web Development Lab
	Course Code	240GCHB46_06	240GMAB55_06	230GSCB108_06
VI	Course Name	Natural Products Chemistry	Regression Analysis	Adv Web Development Technologies
	Course Code	-	-	230GSCB109_06
	Course Name	-	-	Adv Web Development Technologies Lab
	Course Code	-	-	-
Pharmaceutical Sciences	250HPSB12_02	Pharmaceutical Chemistry	250HPSB13_03	Analytical Techniques in Pharmaceutical Biotechnology
	250HPSB15_04	Pharmaceutical Biotechnology	250HPSB14_03	Analytical Techniques in Pharmaceutical Biotechnology
Pharmaceutical Sciences	250HPSB16_04	Analytical Techniques in Pharmaceutical Biotechnology	250HPSB17_05	Herbal and Marine Biotechnology
	250HPSB18_05	Herbal and Marine Biotechnology	250HPSB19_06	Biopharmaceutical Formulations



Sem.	Interdisciplinary Open Course (IOC)					
I	Course Code	230HFSB93_01	230VBCB04_01	230UPYB34_01	230GCSB151_01	250GCHB51_01
	Course Name	Forensic Biotechnology	Basics of Accounting	Psychology at workplace	AI for Everyone	Fundamentals of Chemistry
II	Course Code	230HFSB85_02	230VBCB11_02	230UPYB09_02	230GCSB154_02	250GMAB02_02
	Course Name	Principles of Human Nutrition	Introduction to Cost Accounting	Emotional Intelligence	Basics of Machine Learning	Introduction to Statistical Methods
III	Course Code	250HPSB01_03	230VBCB15_03	230USYB08_03	250GCSB23_03	230GCEB92_03
	Course Name	Therapeutic Biotechnology	Finance for Non-Finance	Cognitive Sociology	Fundamentals of Data Science	Basics of Bioremediation

*Pratiksha*

**Dr. Pratiksha Jadaun**  
Programme Coordinator (Biotechnology)



*R. S. Deshpande*

**Prof. R. S. Deshpande**  
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*Anuradha S. Deshpande*

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EL-Experiential Learning  
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FACULTY OF SCIENCE AND TECHNOLOGY

SCHOOL OF BASIC AND APPLIED SCIENCES

## COURSE STRUCTURE (NEP 2020 Aligned)

W. E. F

2026-2027

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SECOND YEAR BACHELOR OF SCIENCE (BIOTECHNOLOGY)

REVISION NO.

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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	260GBTB14	Animal Biotechnology	3	-	-	4	30	30	40	100	-	-	-	-	100	4
	260GBTB15	Plant Biotechnology	2	-	-	-	30	30	40	50	-	-	-	-	50	2
	260GBTB16	Principles of Genetics	2	-	-	-	30	30	40	50	-	-	-	-	50	2
AEC (HSMC)	230UENB03	Soft Skill Development	1	-	2	-	30	30	40	50	-	-	-	-	50	2
VSC	230IINB02	Innovation	1	-	-	2	-	-	-	-	-	-	50	50	50	1.5
MDM	-	Multi-Disciplinary Minor	2	-	-	-	30	30	40	50	-	-	-	-	50	2
IOC	-	Interdisciplinary Open Course	2	-	-	-	30	30	40	100	-	-	-	-	100	2
LC	260GBTB17	Animal Biotechnology Lab	-	-	2	-	-	-	-	-	50	50	-	-	50	1
	260GBTB18	Plant Biotechnology Lab	-	-	2	-	-	-	-	-	50	50	-	-	50	1
	260GBTB19	Principle of Genetics Lab	-	-	2	-	-	-	-	-	50	50	-	-	50	1
	-	Multi-Disciplinary Minor Lab	-	-	2	4	-	-	-	-	50	50	-	-	50	2
LLC	230HFSB80_03	Health and Nutrition	1	-	-	2	-	-	-	-	-	-	50	-	50	1.5
<b>TOTAL</b>			<b>14</b>	<b>0</b>	<b>10</b>	<b>12</b>									<b>700</b>	<b>22</b>

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Page 1 of 3

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2025-26  
2026-27  
6/10/26  
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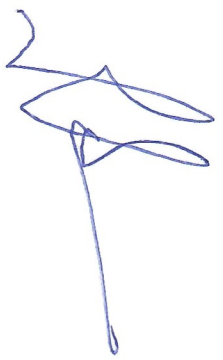
Sem.	Specialization	Multi-Disciplinary Minor (MDM)			
		Chemistry	Mathematics	Web Development	Pharmaceutical Sciences
II	Course Code	240GCHB40_02	240GMAB51_02	230GSCB101_02	250HPSB12_02
	Course Name	Atomic Structure and Chemical Bonding	Descriptive Statistics	Internet and Networking	Pharmaceutical Chemistry
III	Course Code	240GCHB41_03	240GMAB52_03	230GSCB102_03	250HPSB13_03
	Course Name	Introduction to Medicinal Chemistry	Probability Distributions	Basics of HTML and CSS	Analytical Techniques in Pharmaceutical Biotechnology
	Course Code	240GCHB47_03	-	230GSCB103_03	250HPSB14_03
	Course Name	Introduction to Medicinal Chemistry Lab	-	Basics of HTML and CSS Lab	Analytical Techniques in Pharmaceutical Biotechnology Lab
IV	Course Code	240GCHB42_04	240GMAB53_04	230GSCB104_04	250HPSB15_04
	Course Name	Reaction Mechanisms in Organic Chemistry	Introduction to Statistical Hypothesis Testing	Web Technology using PHP	Advanced Instrumental Analysis
	Course Code	240GCHB43_04	-	230GSCB10_04	250HPSB16_04
	Course Name	Reaction Mechanisms in Organic Chemistry Lab	-	Web Technology using PHP Lab	Advanced Instrumental Analysis Lab
V	Course Code	240GCHB44_05	240GMAB54_05	230GSCB106_05	250HPSB17_05
	Course Name	Fundamentals of Nanomaterials	Operation Research and Time Series Analysis	JAVA Frameworks for Web Development	Herbal and Marine Biotechnology
	Course Code	240GCHB45_05	-	230GSCB107_05	250HPSB18_05
	Course Name	Fundamentals of Nanomaterials Lab	-	JAVA Frameworks for Web Development Lab	Herbal and Marine Biotechnology Lab
VI	Course Code	240GCHB46_06	240GMAB55_06	230GSCB108_06	250HPSB19_06
	Course Name	Natural Products Chemistry	Regression Analysis	Adv Web Development Technologies	Biopharmaceutical Formulations
	Course Code	-	-	230GSCB109_06	-
	Course Name	-	-	Adv Web Development Technologies Lab	-

Interdisciplinary Open Course (IOC)							
Sem.	Course Code	Course Name	Course Code	Course Name	Course Code	Course Name	Course Code
I	230HFSB93_01	Forensic Biotechnology	230VBCB04_01	Basics of Accounting	230UPYB34_01	Psychology at workplace	230GCSEB151_01
	230HFSB85_02	Principles of Human Nutrition	230VBCB11_02	Introduction to Cost Accounting	230UPYB09_02	Emotional Intelligence	230GCSEB154_02
II	250HPSB01_03	Therapeutic Biotechnology	230VBCB15_03	Finance for Non-Finance	230USYB08_03	Cognitive Sociology	250GCSEB23_03
							230GCSEB92_03
III							Basics of Bioremediation


Programme Coordinator (Biotechnology)



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



Dr. Anuradha S. Deshpande  
Dean (Academics)



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Vice Chancellor, JSPM University Pune





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## COURSE STRUCTURE (NEP 2020 Aligned)

FACULTY OF SCIENCE AND TECHNOLOGY

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TYPE	CODE	COURSE NAME	TEACHING SCHEME				THEORY				PRACTICAL		ORAL		TOTAL	CREDITS
			Hours / Week				(Equal Weightage for CIE and ESE)				(Equal Weightage for CIE and ESE)		(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)			
	260GBTB20	Introduction to Biostatistics	2	1	-	-	30	30	40	100	-	-	-	-	100	3
PCC	260GBTB21	Bioanalytical Tools	2	-	-	2	30	30	40	100	-	-	-	-	100	2.5
	260GBTB22	Basics of Molecular Biology	2	-	-	-	30	30	40	50	-	-	-	-	50	2
AEC (HSMC)	230UENB04	Verbal Aptitude through Literature	1	-	2	-	30	30	40	50	-	-	-	-	50	2
MDM	-	Multi-Disciplinary Minor	2	-	-	-	30	30	40	50	-	-	-	-	50	2
SEC	230GCAB14	Programming with Python	2	-	2	-	-	-	-	-	-	-	-	-	50	2
	260GBTB23	Bioanalytical Tools Lab	-	-	2	-	-	-	-	-	50	50	50	50	100	3
LC	260GBTB24	Molecular Biology Lab	-	-	2	-	-	-	-	-	50	50	50	50	50	1
	-	Multi-Disciplinary Minor Lab	-	-	2	-	-	-	-	-	50	50	50	50	50	1
LLC	240V/BBB02	Theater and Performing Arts	-	-	2	4	-	-	-	-	50	50	50	50	50	2
LITP/FP/CEP	260GBTB25	Internship/Field Project/Community Engagement Programme	4 to 6 weeks				-	-	-	-	-	-	-	-	50	1.5
MLC#	-	Audit Course 1	11	1	12	8	-	-	-	50	-	-	-	-	700	22
			1	-	-	-	-	-	-	-	-	-	-	-	50	1

Note: A Diploma will be awarded if a student exits after second year. For Exit at the end of second 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))

Sem.	Specialization	Multi-Disciplinary Minor (MDM)					
		Chemistry	Mathematics	Web Development	Pharmaceutical Sciences	Pharmaceutical Sciences	Pharmaceutical Sciences
II	Course Code	240GCHB40_02	240GMAB51_02	230GSCB101_02	250HPSB12_02	250HPSB12_02	250HPSB12_02
	Course Name	Atomic Structure and Chemical Bonding	Descriptive Statistics	Internet and Networking	Pharmaceutical Chemistry	Pharmaceutical Chemistry	Pharmaceutical Chemistry
	Course Code	240GCHB41_03	240GMAB52_03	230GSCB102_03	250HPSB13_03	250HPSB13_03	250HPSB13_03
III	Course Name	Introduction to Medicinal Chemistry	Probability Distributions	Basics of HTML and CSS	Analytical Techniques in Pharmaceutical Biotechnology	Analytical Techniques in Pharmaceutical Biotechnology	Analytical Techniques in Pharmaceutical Biotechnology
	Course Code	240GCHB47_03	-	230GSCB103_03	250HPSB14_03	250HPSB14_03	250HPSB14_03
	Course Name	Introduction to Medicinal Chemistry Lab	-	Basics of HTML and CSS Lab	Analytical Techniques in Pharmaceutical Biotechnology Lab	Analytical Techniques in Pharmaceutical Biotechnology Lab	Analytical Techniques in Pharmaceutical Biotechnology Lab
IV	Course Code	240GCHB42_04	240GMAB53_04	230GSCB104_04	250HPSB15_04	250HPSB15_04	250HPSB15_04
	Course Name	Reaction Mechanisms in Organic Chemistry	Introduction to Statistical Hypothesis Testing	Web Technology using PHP	Advanced Instrumental Analysis	Advanced Instrumental Analysis	Advanced Instrumental Analysis
	Course Code	240GCHB43_04	-	230GSCB110_04	250HPSB16_04	250HPSB16_04	250HPSB16_04
V	Course Name	Reaction Mechanisms in Organic Chemistry Lab	-	Web Technology using PHP Lab	Advanced Instrumental Analysis Lab	Advanced Instrumental Analysis Lab	Advanced Instrumental Analysis Lab
	Course Code	240GCHB44_05	240GMAB54_05	230GSCB106_05	250HPSB17_05	250HPSB17_05	250HPSB17_05
	Course Name	Fundamentals of Nanomaterials	Operation Research and Time Series Analysis	JAVA Frameworks for Web Development	Herbal and Marine Biotechnology	Herbal and Marine Biotechnology	Herbal and Marine Biotechnology
VI	Course Code	240GCHB45_05	-	230GSCB107_05	250HPSB18_05	250HPSB18_05	250HPSB18_05
	Course Name	Fundamentals of Nanomaterials Lab	-	JAVA Frameworks for Web Development Lab	Herbal and Marine Biotechnology Lab	Herbal and Marine Biotechnology Lab	Herbal and Marine Biotechnology Lab
	Course Code	240GCHB46_06	240GMAB55_06	230GSCB108_06	250HPSB19_06	250HPSB19_06	250HPSB19_06
VII	Course Name	Natural Products Chemistry	Regression Analysis	Adv Web Development Technologies	Biopharmaceutical Formulations	Biopharmaceutical Formulations	Biopharmaceutical Formulations
	Course Code	-	-	230GSCB109_06	-	-	-
	Course Name	-	-	Adv Web Development Technologies Lab	-	-	-

Mandatory Learning Course (MLC*) Audit Course			
Sem	Course Code	Course Name	Course Name
IV	230UPOB02	Introduction to Indian Constitution	Disaster Risk Management and Safety Planning
V	260GBTB26	Ethics and Intellectual Property in Life Sciences	Nanomedicine

Programme Coordinator (Biotechnology)

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