

### MADHYAPRADESH

(Established by Ritnand Balved Education Foundation)

Date: 06 /03/2023

## **BOARD OF STUDIES (Biotechnology)** MINUTES OF THE MEETING (3 Pages Only)

- 1. A meeting of Board of Studies in Biotechnology, Amity Institute of Biotechnology, Amity University Madhya Pradesh was held on 6<sup>th</sup> March 2023 from 1400 hrs onwards in virtual mode on MS Teams Platform under the Chairmanship of Prof. (Dr.) R.S. Tomar, Director, AIB and Dean (Academics), AUMP. The following members attended the meeting:-
  - (a) Chairman: Prof. (Dr.) R.S. Tomar

Director, AIB and Dean (Academics)

Amity University Madhya Pradesh, Maharajpur, Gwalior

- (b) **Members** 
  - i) Prof. (Dr.) Rajesh Kumar Tiwari (External) Professor, AIB & Dean (Academics) **Amity University Lucknow Campus**
  - ii) Prof (Dr.) G.B.K.S. Prasad (External) Professor Biochemistry, Coordinator, Centre for Studies in Food Technology, Jiwaji University Gwalior
  - iii) Prof (Dr.) Vikas Shrivastava

Professor & Coordinator, Amity Institute of Biotechnology, Amity University Madhya Pradesh, Maharajpur, Gwalior

iv) Prof.(Dr.) Raghvendra Kumar Mishra

Professor, Amity Institute of Biotechnology, Amity University Madhya Pradesh, Maharajpur, Gwalior

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## 2. Agenda for the BoS meeting 2023:

- Review & approval of syllabi of B.Sc. Biotechnology (3 Yrs) for the batch 2023-26 and B.Sc. Biotechnology (Hons with Research) (4 Yrs) for the batch 2023-27.
- 2. Review & approval of syllabi of B.Sc. (Biology) (3 Yrs) for the batch 2023-26 and B.Sc. Biology (Hons with Research) (4 Yrs) for the batch 2023-27.
- 3. Review & approval of syllabi of B.Sc .-M.Sc.(Biotechnology) Dual Degree for the batch 2023-28.
- 4. Review & approval of syllabi of B.Tech Biotechnology for the batch 2023-27.
- 5. Review & approval of syllabi of M.Sc.(Biotechnology) for the batch 2023-25 and M. Tech (Biotechnology) batch 2023-25.
- 6. Review & approval of syllabi of Ph.D. course work of Ph.D. in Biotechnology for the batch 2023-2024.
- 7. Review & approval of syllabi of minor tracks in Biotechnology: Biotechnology Management and Conservation Biology for the batch 2023-2026.
- 8. Any other point with the permission of Chairman of the Board of studies.

### 3. Recommendations.

As per the New Education Policy 2020 and recommendations of UGC Curriculum and Credit Framework 2022, following undergraduate programmes have been redesigned and approved by BoS.

- (i) Syllabus of B.Sc. Biotechnology (3 Yrs) for the batch 2023-26 and B.Sc. Biotechnology (Hons With Research) (4 Yrs) for the batch 2023-27 (Annexure-1)
- (ii) Syllabus of B.Sc. Biology (3 Yrs) for the batch 2023-26 and B.Sc. Biology (Hons With Research) (4 Yrs) for the batch 2023-27 (Annexure-2)
- (iii) Syllabus of B.Sc-M.Sc.(Biotechnology) Dual Degree batch 2023-28 as per modification suggested in point (i) for B.Sc. Biotechnology (3 Yrs)
- (iv) Syllabus of B.Tech Biotechnology being followed in batch 2022-26 is recommended for batch 2023-2027 without any change
- (v) Syllabus of M.Sc. (Biotechnology) being followed in batch 2022-24 is recommended for batch 2023-2025 without any change.
- (vi) Syllabus of M.Tech (Biotechnology) being followed in batch 2022-24 is recommended for batch 2023-2025 without any change.
- (vii) Syllabus of Ph.D. course work of Ph.D. in Biotechnology being followed in batch 2022-23 is recommended for batch 2023-2024 without any change.
- (viii) Syllabi of minor tracks; Biotechnology Management and Conservation Biology for batch 2023-2026 have been redesigned as per Annexure-3

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Prof. (Dr.) Vinay Dwivedi Birector, Amity Institute of Biotechnology Amity University Madhya Pradesh

- (i) Summary of changes is given below:
  - a. B.Sc. Biotechnology (3 Yrs) for the batch 2023-26 and B.Sc. Biotechnology (Honswith Research) (4 Yrs) for the batch 2023-27 (Annexure-1)
  - b. Syllabus of B.Sc. Biology (3 Yrs) for the batch 2023-26 and B.Sc. Biology (Hons With Research) (4 Yrs) for the batch 2023-27 (Annexure-2)
  - c. Syllabi of minor tracks in Biotechnology: Biotechnology Management and Conservation Biology for the batch 2023-2026 (Annexure-3).

Signature of Members

Prof. (Dr.) Raghvendra Kumar Mishra

**Professor AIB** 

Prof. (Dr.) Vikas Shrivastava

Coordinator AIB

Prof. (Dr.) Rajesh Kumar Tiwari

Professor-AIB & Dean (Academics)

**Amity University Lucknow** 

Prof. (Dr.) G.B.K.S. Prasad (Absent)

Professor Biochemistry,

Coordinator, Centre for Studies in Food

Technology,

Jiwaji University Gwalior

Prof. (Dr.) R.S. Tomar (Chairman-BoS)

Director-AIB & Dean (Academics)

Amity University Madhya Pradesh

**APPROVED BY** 

Hon'ble Vice Chancellor

**AUMP, Gwalior** 

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Prof. (Dr.) Vinay Dwivedi Birector, Amity Institute of Biotechnology Amity University Madhya Pradesh



## PROGRAMME STRUCTURE: B.Sc. Biotechnology-3YDC/ B.Sc. Biotechnology (Honours with Research)-4YDC FIRST SEMESTER

	SEMIESTER					
Course Code	Course Title	Broad Category of Courses	Lecture (L) Hours Per week	Tutorial (T) Hours Per week	Practical (P) Hours Per week	Total Credit
BSB 101	Cell Biology	Discipline Specific Course (Core 1)	3	-	-	3
BSB 102	Maths & Biostatistics	Inter/ Multi- Disciplinary Course	3	-	-	3
BSB 103/ BSB 104	Plant Sciences – I/ Animal Sciences-I	Discipline Specific (Elective)	3	-	-	3
BSB 105	Chemistry – I	Discipline Specific (Minor 1)	2	<b>-</b> ,	-	2
	Minor Track (CBCS)	Minor 2	2	-	-	2
BSB 120	Biotechnology Lab - I	Discipline Specific Course (Core 1) Lab	· <u>-</u> ,	-	2	1
BSB 121	Chemistry Lab – I	Discipline Specific (Minor 1) Lab	-	-	2	1
BSB 122/ BSB 123	Plant Sciences Lab - I / Animal Sciences Lab-I	Discipline Specific (Elective) Lab	-	-	2	1
BCU 141	Communication Skill – I	Ability Enhancement Course (AEC)	2	-	-	2
EVS 142	Environmental Studies - I	Value Added Course (VAC)	2	-	-	2
FLU 144 FLU 145 FLU 146 FLU 147 FLU 148	Foreign Language - I French - I German Spanish Japanese Chinese	Skill Enhancement Course (SEC)	2	-	-	2
	TOTAL					22

## SECOND SEMESTER

Course Code	Course Title  Bioanalytical Techniques	Broad Category of Courses	Lecture (L) Hours Per week	Tutorial (T) Hours Per week	Practical (P) Hours Per week	Total Credit
BSB 202		Discipline Specific Course (core 1)	3	-	-	3
BSB 203/	Introductory Biochemistry & Biophysics	Inter/ Multi- Disciplinary Course	3	-	-	3
BSB 204 BSB 205	Plant Sciences – II/ Animal Sciences-II	Discipline Specific (Elective)	3	-	-	3
	Chemistry – II  Minor Track (CBCS)	Discipline Specific (Minor 1)	2	-	-	2
BSB 221		Minor 2	2	-	-	2
BSB 222/2:	Biotechnology Lab - II	Discipline Specific Course (Core 1) Lab	-	-	2	1 .
BSB 223	Chemistry Lab – II	Discipline Specific (Minor 1) Lab	-	-	2	1
	Plant Sciences Lab - II / Animal Sciences Lab-II	Discipline Specific (Elective) Lab	-	-	2	1
BCU 241	Communication Skill – II	Ability Enhancement Course (AEC)	2	-	-	2
EVS 242	Environmental Studies - II	Value Added Course (VAC)	2	-	-	2
FLU 244 FLU 245 FLU 246 FLU 247 FLU 248	Foreign Language - II French - II German Spanish Japanese Chinese	Skill Enhancement Course (SEC)	2	-	-	2
	TOTAL /					22

Vocational training for Certificate in bio-Instrumentation (04 Credit) as NTCC.



### THIRD SEMESTER

	MESTER					
Course Code	Course Title	Broad Category of Courses	Lecture (L) Hours Per week	Tutorial (T) Hours Per week	Practical (P) Hours Per week	Total Credit
BSB 301	Genetics	Discipline Specific Course (core 1)	3	-	-	3
BSB 302	Microbiology	Discipline Specific Course (core 2)	3	-	_	3
BSB 303/	Anatomy & Plant	Course (core 2)				
BSB 304	Physiology/ Animal Physiology-I	Discipline Specific (Elective)	3	-	-	3
BSB 305	Chemistry – III	Discipline Specific (Minor 1)	2	-	-	2
Don see	Minor Track (CBCS)	Minor 2	2	-	-	2
BSB 320	Biotechnology Lab - I	Discipline Specific Course (Core 1) Lab	-	-	2	1
BSB 321 BB322	Anatomy & Plant Physiology Lab/ Animal Physiology Lab-I	Discipline Specific (Elective) Lab	-	-	2	1
BSB 323	Chemistry Lab – I	Discipline Specific (Minor 1) Lab	-	-	2	1
BCU 341	Communication Skill – III	Ability Enhancement Course (AEC)	2	-	-	2
BSU343	Behavioural Science – III	Value Added Course (VAC)	2	-	-	2
FLU 344 FLU 345 FLU 346 FLU 347 FLU 348	Foreign Language – III French - III German Spanish Japanese Chinese	Skill Enhancement Course (SEC)	2		-	2
	TOTAL					22



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### FOURTH SEMESTER

Course Code	Course Title	Broad Category of Courses	Lecture (L) Hours Per week	Tutorial (T) Hours Per week	Practical (P) Hours Per week	Total Credit
BSB 401	Molecular Cell Biology	Discipline Specific Course (core 1)	3	-	-	3
BSB 402	Bioinformatics	Inter/ Multi- Disciplinary Course	3	-	-	3
BSB 403/ BSB 404	Plant Breeding, Embryology, Pathology & Economic Botany/ Animal Physiology-II	Discipline Specific (Elective)	3	-	-	3
BSB 405	Chemistry – IV	Discipline Specific (Minor 1)	3	-	-	3
	Minor Track (CBCS)	Minor 2	2	-	-	2
BSB 420	Biotechnology Lab - IV	Discipline Specific Course (Core 1) Lab	-	-	2	1
BSB 421/ BSB 422	Plant Breeding, Embryology, Pathology & Economic Botany Lab/ Animal Physiology Lab-II	Discipline Specific (Elective) Lab	-	-	2	1
BSB 450	Term Paper (Review Article)	AEC	-		-	2
BSB-4407		VAC	2	-	-	2
FLU 444 FLU 445 FLU 446 FLU 447 FLU 448	Foreign Language – IV French - IV German Spanish Japanese Chinese	Skill Enhancement Course (SEC)	3	-	-	3 .
	TOTAL					23

Vocational training for diploma in clinical biochemistry (4 credit) as NTCC.

Prof. (Dr.) Vinay Dwivedi Birector, Amity Institute of Biotechnology Amity University Hadhya Pradesh Maharajpura, Gwalier 474006



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### FIFTH SEMESTER

Course Code	Course Title	Broad Category of Courses	Lecture (L) Hours Per week	Tutorial (T) Hours Per week	Practical (P) Hours Per week	Total Credit
BSB 501	Plant Biotechnology	Discipline Specific Course (core 1)	3	-	-	3
BSB 502	Animal Biotechnology	Discipline Specific Course (core 2)	3	-	-	3
BSB 503	Biochemistry and Metabolic Regulation	Discipline Specific Course (core 3)	3	-	-	3
BSB 504	Recombinant DNA Technology	Discipline Specific Course (core 4)	3	-	-	3
BSB-505	Enzyme Technology	Inter/ Multi- Disciplinary Course	2	-	-,	2
	Minor Track (CBCS)	Minor 2	3	-	-	3
BSB- 52	Plant Biotechnology Lab	Discipline Specific Course (core 1) Lab	-	-	2	1
BSB-522	Animal Biotechnology lab	Discipline Specific Course (core 2) Lab	-	-	2	1
BSB- 523	Biochemistry and Metabolic Regulation Lab	Discipline Specific Course (core 3) Lab	-	-	2	1
BSB-5243	Recombinant DNA Technology Lab	Discipline Specific Course (core 4) Lab	-	-	2	1
	TOTAL					21



### SIXTH SEMESTER

Course Code	Course Title	Broad Category of Courses	Lecture (L) Hours Per week	Tutorial (T) Hours Per week	Practical (P) Hours Per week	Total Credit
BSB 601	Environmental Biotechnology	Discipline Specific Course (core 1)	3	-	-	3
BSB 602	Industrial Biology	Discipline Specific Course (core 2)	3	•	-	3
BSB 603	Immunology & Immunotechnology	Discipline Specific Course (core 3)	3	-	-	3
	Minor Track (CBCS)	Minor 2 (Project)	-	-	-	1
BSB 620	Environmental Biotechnology Lab	Discipline Specific Course (core 1) Lab	-	-	2	1
BSB 621	Industrial Biology lab	Discipline Specific Course (core 2) Lab	-	-	2	1
BSB 623	Immunology and immunology lab	Discipline Specific Course (core 3) Lab	-	-	2	1
BSB 660*	Project (6-8 Week)	Field Project/ Summer Internship Project	-	-	-	6
	TOTAL	2.3,000				19

\*Summer Internship Program of 6-8 Weeks duration to be conducted during 6th Semester in conjunction with Institute/Industry. This is Non-Teaching Credit Course (NTCC).



## SEVENTH SEMESTER

Course Code	Course Title	Broad Category of Courses	Lecture (L) Hours Per week	Tutorial (T) Hours Per week	Practical (P) Hours Per week	Total Credit
BSB 701	Advanced Microbial Technology	Discipline Specific Course (core 1)	3	1	-	4
BSB 702	Advanced Cell Biology and Genetics	Discipline Specific Course (core 2)	3	1	-	4
BSB 703	Advanced Biophysics & Bioanalytical Techniques	Discipline Specific Course (core 3)	3	1	-	4
BSB 704	Advanced Biostatistics for Biologist	Discipline Specific Course (core 4)	3	1	-	4
BSB 720	Advanced Microbial Technology Lab	Discipline Specific Course (core 1) Lab	-	-	2	1
BSB 721	Advanced Cell Biology and Genetics Lab	Discipline Specific Course (core 2) Lab	-	-	2	1
BSB 722	Advanced Biophysics & Bioanalytical Techniques lab	Discipline Specific Course (core 3) Lab	-	-	2	1
	TOTAL					19



### EIGHT SEMESTER

Course Code	Course Title	Broad Category of Courses	Lecture (L) Hours Per week	Tutorial (T) Hours Per week	Practical (P) Hours Per week	Total Credit
BSB 801	Genomics and Proteomics	Discipline Specific Course (core 1)	3	-	-	3
BSB 802	Drug Delivery System	Discipline Specific Course (core 2)	3	-	-	3
BCH 621	Management Accounting and Cost Control	Inter/ Multi- Disciplinary Course 1	1	-	-	1
BCH 622	Project Management	Inter/ Multi- Disciplinary Course 2	1	-	-	1
BCH 623	Principle of management and Entrepreneurship Development	SEC	1	-	-	1
BSB 860*	Project (10-12 Week)	Dissertation	-	-	-	15
	TOTAL					24

\*Summer Internship Program of 10-12 Weeks duration to be conducted during 8th Semester in conjunction with Institute/Industry. This is Non-Teaching Credit Course (NTCC).



### PROGRAMME STRUCTURE: B.Sc. Biology-3YDC/ **B.Sc. Biology (Honours with Research)-4YDC**

FIRST SEMESTER

Course Code	Course Title	Broad Category of Courses	Lecture (L) Hours Per week	Tutorial (T) Hours Per week	Practical (P) Hours Per week	Total Credit
BSC101	Plant Sciences – I	Discipline Specific Course (Core 1)	3	-	-	3
BSC102	Animal Sciences-I	Discipline Specific Course (Core 2)	3	-	-	3
BSC103	Chemistry – I	Discipline Specific Course (Core 3)	3	- ,	-	3
	Minor Track (CBCS)	Minor 2	2	-	-	2
BSC120	Plant Sciences Lab - I	Discipline Specific Course (Core 1) Lab	-	-	2	1
BSC121	Animal Sciences Lab-I	Discipline Specific Course (Core 2) Lab		-	2	1
BSC122	Chemistry Lab – I	Discipline Specific Course (Core 3) Lab	-	-	2	1
BCU141	Communication Skill - I	AEC	2	-	-	2
EVS142	Environmental Studies - I	VAC	2	-	-	2
FLU 144 FLU 145 FLU 146 FLU 147 FLU 148	Foreign Language - I French - I German Spanish Japanese Chinese	SEC	2	-	-	2
TEC 1.0	TOTAL		<b>4</b>			20



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SECOND SEMESTER

Course Code	Course Title	Broad Category of Courses	Lecture (L) Hours Per week	Tutorial (T) Hours Per week	Practical (P) Hours Per week	Total Credit
BSC201	Plant Sciences – II	Discipline Specific Course (Core 1)	3	-	-	3
BSC202	Animal Sciences-II	Discipline Specific Course (Core 2)	3	-	-	3
BSC203	Chemistry - II	Discipline Specific Course (Core 3)	3	-	-	3
BSC204	Introductory Biochemistry & Biophysics	Inter/ Multi- Disciplinary Course	3	-	-	3
	Minor Track (CBCS)	Minor 2	2	-	-	2
BSC220	Plant Sciences Lab - I	Discipline Specific Course (Core 1) Lab	-	-	2	1
BSC221	Animal Sciences Lab-I	Discipline Specific Course (Core 2) Lab	-	-	2	1
BSC222	Chemistry Lab – I	Discipline Specific Course (Core 3) Lab	-	-	2	1
BCU241	Communication Skill - I	AEC	2	-	-	2
EVS242	Environmental Studies - I	VAC	2	_	-	2
EL LI 244	Foreign Language - I		-			
FLU 244	French - I		-	-	- ,	
FLU 245	German	SEC	2	_		2
FLU 246	Spanish		2	7	-	2
FLU 247	Japanese	1				
FLU 248	Chinese					
	TOTAL					23

Vocational training for Certificate in bio-instrumentation (04 Credit) as NTCC.

Prof. (Dr.) Vinay Dwivedi Director, Amity Institute of Biotechnology Amity University Hashba Pradesh



### THIRD SEMESTER

THIRD SI	ENESTER					
Course Code	Course Title	Broad Category of Courses	Lecture (L) Hours Per week	Tutorial (T) Hours Per week	Practical (P) Hours Per week	Total Credit
BSC301	Anatomy & Plant Physiology	Discipline Specific Course (Core 1)	3	-	- WEEK	3
BSC302	Animal Physiology-I	Discipline Specific Course (Core 2)	3	-	-	3
BSC303	Chemistry – III	Discipline Specific Course (Core 3)	3	-	-	3
BSC304	Microbiology	Discipline Specific Minor 1	3	-	-	3
- Dagger	Minor Track (CBCS)	Minor 2	2	-	_	2
BSC320	Anatomy & Plant Physiology Lab	Discipline Specific Course (Core 1)	-	-	2	1
BSC321	Animal Physiology Lab-I	Lab Discipline Specific Course (Core 2) Lab		-	2	1
BSC322	Chemistry Lab – III	Discipline Specific Course (Core 3) Lab	-	-	2	1
BSC323	Micrbiology Lab	Discipline Specific Minor 1 Lab	-	-	2	1
BCU341	Communication Skill - III	AEC	2	-	-	2
BSU343	Behavioural Science - III	VAC	2	-	-	2
FLU 344	Foreign Language - III French - III					4
FLU 345 FLU 346	German Spanish	SEC	2	-	-	2
FLU 347 FLU 348	Japanese Chinese TOTAL					
	IOIAL					24



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### FOURTH SEMESTER

Course Code	Course Title	Broad Category of Courses	Lecture (L) Hours Per week	Tutorial (T) Hours Per week	Practical (P) Hours Per week	Total Credit
BSC401	Plant Breeding, Embryology, Pathology & Economic Botany	Discipline Specific Course (Core 1)	3	-	-	3
BSC402	Animal Physiology-II	Discipline Specific Course (Core 2)	3	-	-	3
BSC403	Chemistry – IV	Discipline Specific Course (Core 3)	3		-	3
BSC404	Bioinformatics	Discipline Specific Minor 1	3	-	-	3
	Minor Track (CBCS)	Minor 2	2	-	-	2
BSC420	Plant Breeding, Embryology, Pathology & Economic Botany Lab	Discipline Specific Course (Core 1) Lab	-	-	2	1
BSC421	Animal Physiology Lab-II	Discipline Specific Course (Core 2) Lab	-	-	2	1
BSC422	Chemistry Lab-IV	Discipline Specific Course (Core 3) Lab	-	-	2	1
BSC 450	Term Paper/ (Review Article)	AEC	-	-	-	2
BSU443	Behavioral Science - IV	VAC	2	-	-	2
	Foreign Language - IV					
FLU 444	French - IV	2	20			
FLU 445	German	SEC	3	- ,		2
FLU 446	Spanish	SLC	,	-	-	3
FLU 447	Japanese	,				
FLU 448	Chinese					
	TOTAL					24

Vocational training for diploma in clinical biochemistry (4 credit) as NTCC.

Prof. (Dr.) Vinay Dwivedi Director, Amity Institute of Biotechnology



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FIFTH SEMESTER

Course Code	Course Title	Broad Category of Courses	Lecture (L) Hours Per week	Tutorial (T) Hours Per week	Practical (P) Hours Per week	Total Credit
BSC501	Plant Biotechnology	Discipline Specific Course (Core 1)	3	-	-	3
BSC502	Genetics & Animal Biotechnology	Discipline Specific Course (Core 2)	3	-	-	3
BSC503	Chemistry – V	Discipline Specific Course (Core 3)	3	-	-	3
BSC504	Recombinant DNA Technology	Discipline Specific Minor 1	3	-	-	3
BSC505	Methods & Instrumentation in Biotechnology	Inter/ Multi- Disciplinary Course	3	-	-	3
Dogge	Minor Track (CBCS)	Minor 2	2	-	-	2
BSC520	Biotechnology Lab	Discipline Specific Minor 1 Lab	-	-	4	2
BSC521	Chemistry Lab V	Discipline Specific Course (Core 3) Lab	<u>-</u>	-	2	1
	TOTAL					20



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### SIXTH SEMESTER

Course Code	Course Title	Broad Category of Courses	Lecture (L) Hours Per week	Tutorial (T) Hours Per week	Practical (P) Hours Per week	Total Credit
BSC601	Plant Ecology	Discipline Specific Course (Core 1)	3	-	-	3
BSC602	Applied Zoology	Inter/ Multi- Disciplinary Course	3	-	-	3
BSC603	Chemistry – VI	Discipline Specific Course (Core 2)	3	-		3
	Minor Track (CBCS)	Minor 2	2	-	-	2
BSC620	Plant Ecology and Applied Zoology Lab	Discipline Specific Course Core 1 Lab	-	-	4	2
BSC621	Chemistry Lab VI	Discipline Specific Course (Core 2) Lab	-	-	2	1
BSC 660*	Project (6-8 Week)	Field Project/ Summer Internship Project	-	- *	-	6
	TOTAL					20

\*Summer Internship Program of 6-8 Weeks duration to be conducted during 6th Semester in conjunction with Institute/Industry. This is Non-Teaching Credit Course (NTCC).



### SEVENTH SEMESTER

Course Code	Course Title	Broad Category of Courses	Lecture (L) Hours Per week	Tutorial (T) Hours Per week	Practical (P) Hours Per week	Total Credit
BSC 701	Advanced Microbial Technology	Discipline Specific Course (core 1)	3	1	-	4
BSC 702	Advanced Cell Biology and Genetics	Discipline Specific Course (core 2)	3	1.	-	4
BSC 703	Advanced Biophysics & Bioanalytical Techniques	Discipline Specific Minor	3	1	-	4
BSC 704	Advanced Biostatistics for Biologist	Discipline Specific Course (core 4)	3	1	-	4
BSC 720	Advanced Microbial Technology Lab	Discipline Specific Course (core 1) Lab	-	-	2	1
BSC 721	Advanced Cell Biology and Genetics Lab	Discipline Specific Course (core 2) Lab	-	-	2	1
BSC 722	Advanced Biophysics & Bioanalytical Techniques lab	Discipline Specific Minor Lab	-	-	2	1
10-1	TOTAL					19



### EIGHT SEMESTER

Course Code	Course Title	Broad Category of Courses	Lecture (L) Hours Per week	Tutorial (T) Hours Per week	Practical (P) Hours Per week	Total Credit
BSC 801	Genomics and Proteomics	Discipline Specific Course (core 1)	3	-	-	3
BSC 802	Drug Delivery System	Discipline Specific Minor	3	-	-	3
BCH 621	Management Accounting and Cost Control	Inter/ Multi- Disciplinary Course 1	1	-	-	1
BCH 622	Project Management	Inter/ Multi- Disciplinary Course 2	1	-	-	1
BCH 623	Principle of management and Entrepreneurship Development	SEC	1	-	-	1
BSC 860*	Project (10-12 Week) TOTAL	Dissertation	-	-	-	15 <b>24</b>

\*Summer Internship Program of 10-12 Weeks duration to be conducted during 8th Semester in conjunction with Institute/Industry. This is Non-Teaching Credit Course (NTCC).



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# Amity Institute of Biotechnology

(CBCS	Minor	Track)
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		CDCD		110011	
Semester	Course Name	Vacancies Available	Course Code	Subject	Credit
1			CBA 101	Life Sciences-I	2
II			CBA 201	Life Sciences- II	2
III	Biotechnology		CBA 301	Cell Biology	2
IV	Management	30	CBA 401	Structural Biology	2
V		\ \(\frac{1}{2}\)	CBA 501	Management of Biotech Industry, Biotech Regulations and Compliance	3
VI			CBA 601	Project Work (NTCC)	1
I			CBB 101	Plant taxonomy and Diversity	2
II			CBB 201	Animal Taxonomy and Diversity	2
III	Conservation Biology	30	CBB 301	Microbial Taxonomy and Diversity	2
IV		1 30	CBB 401	Ecology and Evolutionary Biology	2
V			CBB 501	Methods of Conservation	2-6
VI			CBB 601	Project Work (NTCC)	2 (

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Prof. (Dr.) Vinay Dwivedi Director, Anity Institute of Biotechnology Amity University Hadhya Pradesh Maharajpura, Gwalior 474005