

**J.J. College of Arts and Science (Autonomous)**  
**Department of Biotechnology**

**Proposed Course Structure based on TANSCHÉ and UGC - LOCF**  
**(Choice Based Credit System)**

**(Applicable for the Candidates admitted from academic year 2023-2024 Onwards)**

**B.Sc. Biotechnology - Semester I**

Sl.No.	Course Category	Course Code	Course	Overall Credits	Total Contact Hours/Week	Marks		
						CIA	ESE	Total
<b>Semester I</b>								
1	Part - I	U1R3TL1/ HL1/FL1	Language - I (Tamil/Hindi/French)	3	6	25	75	100
2	Part - II	U1R3EL1	Language - II (English)	3	6	25	75	100
3	Part - III	U1R3BTCC1	Cell and Molecular Developmental Biology	5	5	25	75	100
4		U1R3BTCC2P	Practical I - Cell and Molecular Developmental Biology	5	5	40	60	100
5		U1R3BTDSE 1:1 / 1:2	Anyone from the List	3	4	25	75	100
6	Part - IV	U1R3BTSEC1 (NME)	To be opted from other Department	2	2	25	75	100
7		U1R3BTFC	Foundation Course	2	2	25	75	100
<b>Total</b>				<b>23</b>	<b>30</b>			<b>700</b>

**M.Sc. Biotechnology - Semester I**

Sl.No.	Course Code	Course	Overall Credits	Total Contact Hours/Week	Marks		
					CIA	ESE	Total
<b>Semester I</b>							
1	PIR3BTCC1	Biochemistry	5	7	25	75	100
2	PIR3BTCC2	Microbiology	5	7	25	75	100
3	PIR3BTCC3P	Practical - I Biochemistry and Microbiology	4	6	40	60	100
4	PIR3BTDSE 1:1 / 1:2	Anyone from the List	3	5	25	75	100
5	PIR3BTDSE 2:1 / 2:2	Anyone from the List	3	5	25	75	100
<b>Total</b>			<b>20</b>	<b>30</b>			<b>500</b>

*Dr. G. Manigandan*  
30/6/23

Dr. G. MANIGANDAN, Ph.D., SET, NET  
 Head, Department of Biotechnology  
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 Pudukkottai - 622 422

# J.J. College of Arts and Science (Autonomous)

## Department of Biotechnology

Proposed Course Structure based on TANSCHÉ and UGC - LOCF

(Choice Based Credit System)

(Applicable for the Candidates admitted from academic year 2023-2024 Onwards)

### B.Sc. Biotechnology- Semester II

Sl. No.	Course Category	Course Code	Course	Overall Credits	Total Contact Hours/Week	Marks		
						CIA	ESE	Total
<b>Semester II</b>								
1	Part - I	U2R3TL2/ HL2/FL2	Language - I (Tamil/Hindi/French)	3	6	25	75	100
2	Part - II	U2R3EL2	Language - II (English)	3	6	25	75	100
3	Part - III	U2R3BTCC3	Genetics	5	5	25	75	100
4		U2R3BTCC4P	Practical II - (Covering CC3)	5	5	40	60	100
5		U2R3BTDSE2:1	Microbiology	3	4	25	75	100
6	Part - IV	U2R3BTSEC2 (NME2)	To be opted from other Department	2	2	25	75	100
7		U2R3BTSEC 3:1 / 3:2	Marine Biotechnology / Stem Cell Technology	2	2	25	75	100
<b>Total</b>				<b>23</b>	<b>30</b>			<b>700</b>

### M.Sc. Biotechnology- Semester II

Sl. No.	Course Code	Course	Overall Credits	Total Contact Hours/Week	Marks		
					CIA	ESE	Total
<b>Semester II</b>							
1	P2R3BTCC4	Molecular Genetics	5	6	25	75	100
2	P2R3BTCC5	Plant and Animal Biotechnology	5	6	25	75	100
3	P2R3BTCC6P	Practical II - (Covering CC4, CC5)	4	6	40	60	100
4	P2R3BTDSE 3:1 / 3:2	Virology / Medical Bacteriology	3	4	25	75	100
5	P2R3BTDSE 4:1 / 4:2	Environmental Biotechnology / Pharmaceutical Biotechnology	3	4	25	75	100
6	P2R3BTSEC 1:1 / 1:2	Genetic Engineering / Food Technology	2	4	25	75	100
<b>Total</b>			<b>22</b>	<b>30</b>			<b>600</b>

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**Dr. P. Jeevan**  
Co-ordinator-IQAC

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