

**STUDY & EVALUATION SCHEME**  
**M.SC. (BIOTECHNOLOGY)**  
**I YEAR: I SEMESTER**

S. NO.	SUBJECT CODE	SUBJECT	L	T	P	CIE	ESE	TOTAL	C
<b>THEORY</b>									
1	PBS1001	Biochemistry and Biophysics	4	0	-	40	60	100	4
2	PBS1002	Microbial Technology	4	0	-	40	60	100	4
3	PBS1003	Cell Biology	4	0	-	40	60	100	4
4	PBS1005	Analytical Techniques in Biotechnology	4	0	-	40	60	100	4
5	PBS1006	Genetics	4	0	-	40	60	100	4
<b>PRACTICAL/TRAINING/PROJECT</b>									
6	PBS1201	Biochemistry and Analytical Techniques Lab	-	-	2	80	20	100	1
7	PBS1202	Cell and Microbial Technology Lab	-	-	2	80	20	100	1
8	PBS1701PJ	Literature review and mini-project-Phase I	-	-	1	100	0	100	1
<b>TOTAL</b>			<b>20</b>	<b>0</b>	<b>5</b>	<b>460</b>	<b>340</b>	<b>800</b>	<b>23</b>

L - Lecture

T - Tutorial

P - Practical

CIE - Continuous Internal Evaluation

ESE-End Semester Exam

C - Credit

**STUDY & EVALUATION SCHEME**  
**M.SC. (BIOTECHNOLOGY)**  
**I YEAR: II SEMESTER**

S. NO.	SUBJECT CODE	SUBJECT	L	T	P	CIE	ESE	TOTAL	C
<b>THEORY</b>									
1	PBS2001	Molecular Biology	4	0	-	40	60	100	4
2	PBS2002	Immunotechnology	4	0	-	40	60	100	4
3	PBS2003	Enzyme Technology	4	0	-	40	60	100	4
4	PBS2004	Computational and System Biology	4	0	-	40	60	100	4
5	PBS2005	Biostatistics	3	0	-	40	60	100	3
6	Departmental Elective-I		4	0		40	60	100	4
7	PSS2401	Soft skill	2	0	-	100	-	100	2
<b>PRACTICAL/TRAINING/PROJECT</b>									
8	PBS2201	Molecular Biology and Bioinformatics Lab	0	0	2	80	20	100	1
9	PBS2202	Immunotechnology and Enzyme Technology Lab	0	0	2	80	20	100	1
10	PBS2203	Biostatistics Lab	0	0	1	100	20	100	1
11	PBS2701PS	Literature review and mini-project-Phase II	-	-	1	100	0	100	1
12	PAP2501SE	Aptitude and Reasoning	-	-	1	-	-	-	1
<b>TOTAL</b>			<b>25</b>	<b>0</b>	<b>7</b>	<b>680</b>	<b>420</b>	<b>1100</b>	<b>30</b>

L - Lecture

T - Tutorial

P - Practical

CIE - Continuous Internal Evaluation

ESE-End Semester Exam

C - Credit

**STUDY & EVALUATION SCHEME**  
**M.SC. (BIOTECHNOLOGY)**  
**II YEAR: III SEMESTER**

S. NO.	SUBJECT CODE	SUBJECT	L	T	P	CIE	ESE	TOTAL	C
<b>THEORY</b>									
1	PBS3001	Genetic Engineering	4	0	-	40	60	100	4
2	PBS3002	Genomics and Proteomics	4	0	-	40	60	100	4
3	PBS3003	Bioprocess Engineering and Technology	3	0	-	40	60	100	3
4	PBS3004	IPR, Bioethics and Biosafety	3	0	-	40	60	100	3
5	PBS3005	Research Methodology	3	0	-	20	30	50	3
6		Department Elective- II	4	0	-	40	60	100	4
<b>PRACTICAL/TRAINING/PROJECT</b>									
7	PBS3201	Genetic Engineering Lab	0	0	2	80	20	100	1
8	PBS3202	Bioprocess Engineering and Technology Lab	0	0	2	80	20	100	1
9	PBS3701PJ	Literature review and mini-project-Final Phase	0	0	1	80	20	100	1
10	PBS3601ST	Summer Training Project Work Review	0	0	2	100	100	100	1
<b>TOTAL</b>			<b>21</b>	<b>0</b>	<b>7</b>	<b>560</b>	<b>490</b>	<b>950</b>	<b>25</b>

L - Lecture

T - Tutorial

P - Practical

CIE - Continuous Internal Evaluation

ESE-End Semester Exam

C - Credit

**STUDY & EVALUATION SCHEME**  
**M.SC. (BIOTECHNOLOGY)**  
**II YEAR: IV SEMESTER**

<b>S. NO.</b>	<b>SUBJECT CODE</b>	<b>SUBJECT</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>CIE</b>	<b>ESE</b>	<b>TOTAL</b>	<b>C</b>
<b>PRACTICAL/TRAINING/PROJECT</b>									
<b>1</b>	PBS4701PJ	Major Project	-	-	20	50	50	100	20
<b>TOTAL</b>			<b>-</b>	<b>-</b>	<b>20</b>	<b>50</b>	<b>50</b>	<b>100</b>	<b>20</b>

L - Lecture

T - Tutorial

P - Practical

CIE - Continuous Internal Evaluation

ESE-End Semester Exam

C - Credit

**DEPARTMENTAL ELECTIVES-I(DE-I)**

<b>S. NO.</b>	<b>SUBJECT CODE</b>	<b>NAME OF SUBJECT (ELECTIVES)</b>
<b>1</b>	PBS2101	MOOCS courses from SWAYAM Biotech-I
<b>2</b>	PBS2102	Medical Microbiology
<b>3</b>	PBS2103	Vaccine Technology
<b>4</b>	PBS2104	Pharmaceuticals Biotechnology and Drug Designing.

**DEPARTMENTAL ELECTIVES-II (DE-II)**

<b>S. NO.</b>	<b>SUBJECT CODE</b>	<b>NAME OF SUBJECT (ELECTIVES)</b>
<b>1</b>	PBS3101	MOOCS courses from SWAYAM Biotech-II
<b>2</b>	PBS3102	Nanotechnology
<b>3</b>	PBS3103	Environmental Biotechnology
<b>4</b>	PBS3104	Cell Tissue Culture and Technology