

MARIS STELLA COLLEGE (AUTONOMOUS), VIJAYAWADA

DEPARTMENT: BIOTECHNOLOGY

COURSE TITLES & CODES W.E.F. THE AY 2023-24

S. No.	Sem	Course Title	Course Code	LTP	Credits
1	I	Introduction to Classical Biology	23SCCCCB14	401	4
2		Introduction to Applied Biology	23SCCCAB14	401	4
Core Courses (CC)					
3	II	Biomolecules & Analytical Techniques - Minor	23BYCCBA23	300	3
4		Biomolecules & Analytical Techniques - Practical - Minor	23BYP1BA21	002	1
5		Microbiology & Cell Biology	23BYCCMC23	300	3
6		Microbiology & Cell Biology - Practical	23BYP2MC21	002	1
Community Service Project					
Core Courses (CC)					
7	III	Plant & Animal Biotechnology - Minor	23BYCCPA33	300	3
8		Plant & Animal Biotechnology - Practical - Minor	23BYP3PA31	002	1
9		Molecular Biology	23BYCCMB33	300	3
10		Molecular Biology - Practical	23BYP4MB31	002	1
11		Genetic Engineering	23BYCCGE33	300	3
12		Genetic Engineering - Practical	23BYP5GE31	002	1

13		Metabolism	23BYCCMT33	300	3
14		Metabolism - Practical	23BYP6MT31	002	1
Core Courses (CC)					
15	IV	Immunology - Minor	23BYCCIM43	300	3
16		Immunology - Practical - Minor	23BYP7IM41	002	1
17		Bioinformatics & Biostatistics - Minor	23BYCCBB43	300	3
18		Bioinformatics & Biostatistics - Practical - Minor	23BYP8BB41	002	1
19		Medical Biotechnology	23BYCCMB43	300	3
20		Medical Biotechnology - Practical	23BYP9MB41	002	1
Summer Internship Project					
Core Courses (CC)					
21	V	Industrial Biotechnology - Minor	23BYCCIB53	300	3
22		Industrial Biotechnology - Practical - Minor	23BYP10IB51	002	1
23		Food & Nutritional Biotechnology - Minor	23BYCCFB53	300	3
24		Food & Nutritional Biotechnology - Practical - Minor	23BYP11FB51	002	1
Elective Courses (EC)					
25 26		Gene Biotechnology (OR) Genomics & Proteomics	23BYEC11GB53 23BTEC12GP53	300	3
27 28		Gene Biotechnology - Practical (OR) Genomics &	23BYP12GB51 23BYP12GP51	002	1

	V	Proteomics - Practical			
29 30		Nanotechnology & Pharmaceutical Biotechnology (OR) Applications of Biotechnology	23BYEC21NP53 23BYEC22AB53	300	3
31 32		Nanotechnology & Pharmaceutical Biotechnology - Practical (OR) Applications of Biotechnology - Practical	23BYP13NP51 23BYP13AB51	002	1
Sem VI: Semester-long Internship Project					

COURSE TITLES & CODES W.E.F. THE AY 2020-21

S. No.	Sem	Course Title	Course Code	LTP	Credits
Core Courses (CC)					
1	I	Introduction to Biotechnology, Cell Biology & Genetics	20BYCCCG13	400	3
2		Cell Biology & Genetics - Practical	20BYP1CG12	002	2
3	II	Macromolecules and Enzymology	20BYCCME23	400	3
4		Macromolecules and Enzymology - Practical	20BYP2ME22	002	2
Community Service Project					
7	III	Biophysical Techniques	20BYCCBT33	400	3
8		Biophysical Techniques -Practical	20BYP3BT32	002	2
9	IV	Immunology & Immunotechnology	20BYCCIT43	400	3
10		Immunology & Immunotechnology - Practical	20BYP4CCIT42	002	2
11		Microbial Biotechnology	20BYCCMB43	400	3
12		Microbial Biotechnology - Practical	20BYP5MB42	002	2
Short Term Internship					
Elective Courses (EC)					
13	V/VI	Techniques in Nursery Development	20BYSEC11TN3	400	3
14		Techniques in Nursery Development - Practical	20BYP611TN2	002	2
15		Hydroponics Cultivation	20BYSEC12HC3	400	3
16		Hydroponics cultivation- Practical	20BYP712HC2	002	2
17		Organic Farming	20BYSEC21OF3	400	3
18		Organic Farming - Practical	20BYP621OF2	002	2
19		Biofertilizers & Biopesticides Production	20BYSEC22BB3	400	3
20		Biofertilizers & Biopesticides Production - Practical	20BYP722BB2	002	2
21		Apiculture	20BYSEC31AP3	400	3
22		Apiculture - Practical	20BYP631AP2	002	2
23		Pearl Culture	20BYSEC32PC3	400	3
24		Pearl Culture - Practical	20BYP732PC2	002	2
Sem VI: Semester-long Internship Project					

