

MARIS STELLA COLLEGE (AUTONOMOUS), VIJAYAWADA
DEPARTMENT: PHYSICS

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

S.No.	Sem	Course Title	Course Code	LTP	Credits
1	I	Essentials and Applications of Mathematical, Physical & Chemical Sciences	23SCCCEA14	401	4
2		Advances in Mathematical, Physical & Chemical Sciences	23SCCCAS14	401	4
Core Courses (CC)					
3	II	Mechanics & Properties of Matter - Minor	23PHCCMM23	300	3
4		Mechanics & Properties of Matter- Practical - Minor	23PHP1MM21	002	1
5		Waves & Oscillations	23PHCCWO23	300	3
6		Waves & Oscillations - Practical	23PHP2WO21	002	1
Community Service Project					
Core Courses (CC)					
7	III	Optics – Minor	23PHCCOP33	300	3
8		Optics - Practical – Minor	23PHP3OP31	002	1
9		Heat & Thermodynamics	23PHCCHT33	300	3
10		Heat &Thermodynamics - Practical	23PHP4HT31	002	1
11		Electronic Devices & Circuits	23PHCCED33	300	3
12		Electronic Devices & Circuits - Practical	23PHP5ED31	002	1
13		Analog & Digital Electronics	23PHCCAD33	300	3
14		Analog & Digital Electronics - Practical	23PHP6AD31	002	1
Core Courses (CC)					
15	IV	Electricity & Magnetism - Minor	23PHCCEM43	300	3
16		Electricity & Magnetism - Practical - Minor	23PHP7EM41	002	1
17		Modern Physics – Minor	23PHCCMP43	300	3
18		Modern Physics - Practical - Minor	23PHP8MP41	002	1
19		Introduction to Nuclear & Particle Physics	23PHCCNP43	300	3
20		Introduction to Nuclear & Particle Physics - Practical	23PHP9NP41	002	1
Summer Internship Project					
Core Courses (CC)					
21	V	Applications of Electricity & Electronics - Minor	23PHCCAE53	300	3
22		Applications of Electricity & Electronics – Practical - Minor	23PHP10AE51	002	1
23		Electronic Instrumentation - Minor	23PHCCEI53	300	3
24		Electronic Instrumentation - Practical - Minor	23PHP11EI51	002	1
Elective Courses (EC)					
25		Optical Instruments & Optometry (OR)	23PHEC11OI53	300	3
26		Optical Imaging & Photography	23PHEC12OP53		

27	V	Optical Instruments & Optometry - Practical (OR)	23PHP1211OI51	002	1
28		Optical Imaging & Photography - Practical	23PHP1312OP51		
29		Low Temperature Physics & Refrigeration (OR)	23PHEC21LT53	300	3
30		Solar Energy & Applications	23MTEC22SE53		
31		Low Temperature Physics & Refrigeration- Practical (OR)	23PHP1421LT51	002	1
32		Solar Energy & Applications - Practical	23PHP1522SE51		
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	Mechanics, Waves & Oscillations	20PHCCMW13	400	3
2		Mechanics, Waves & Oscillations-Practical	20PHP1MW12	002	2
3	II	Wave Optics	20PHCCWO23	400	3
4		Wave Optics-Practical	20PHP2WO22	002	2
Community Service Project					
Core Courses (CC)					
5	III	Heat & Thermodynamics	20PHCCHT33	400	3
6		Heat & Thermodynamics-Practical	20PHP3HT32	002	2
7	IV	Electricity, Magnetism & Electronics	20PHCCEM43	400	3
8		Electricity, Magnetism & Electronics-Practical	20PHP4EM42	002	2
9		Modern Physics	20PHCCMP43	400	3
10		Modern Physics-Practical	20PHP5MP42	002	2
Summer Internship Project					
Skill Enhancement Elective Courses (SEC)					
11	V	Optical Instruments & Optometry	20PHSEC11OI3	300	3
12		Optical Instruments & Optometry-Practical	20PHP611OI2	003	2
13		Optical Imaging & Photography	20PHSEC12OP3	300	3
14		Optical Imaging & Photography-Practical	20PHP712OP2	003	2
		(OR)			
15		Low Temperature Physics & Applications	20PHSEC21LT3	300	3
16		Low Temperature Physics & Applications-Practical	20PHP621LT2	003	2
17		Solar Energy & Applications	20PHSEC22SE3	300	3
18		Solar Energy & Applications-Practical	20PHP722SE2	003	2
		(OR)			
19		Applications of Electricity & Electronics	20PHSEC31AE3	300	3
20		Applications of Electricity & Electronics-Practical	20PHP631AE2	003	2
21		Electronic Instrumentation	20PHSEC32EI3	300	3
22		Electronic Instrumentation-Practical	20PHP732EI2	003	2
		(OR)			
23		Analog & Digital Electronics	20PHSEC41AD3	300	3
24		Analog & Digital Electronics-Practical	20PHP641AD2	003	2
25		Electrical & Electronic Instrumentation	20PHSEC42EE3	300	3
26		Electrical & Electronic Instrumentation-Practical	20PHP742EE2	003	2
Sem VI: Semester-long Internship Project					

