

**THE COURSES FOR MASTER OF SCIENCE IN APPLIED PHYSICS AND ELECTRONICS
(WEEKEND PROGRAM)**

1 ST TRIMESTER				
All Courses are Mandatory				
COURSE CODE	UNIT	COURSE TITLE	CREDITS	MARKS
APE-5001	1	Mechanics and Electromagnetism	3	100
APE-5002	1	Quantum Physics	3	100
APE-5003	1	Optics and Electronics	3	100
APE-5004	1	Atomic and Nuclear Physics	3	100
Total			3 x 4 =12	4 X 100 = 400

2 ND TRIMESTER				
Each student will have to register 4 courses from the below from which one course should be related with student's choice project work.				
COURSE CODE	UNIT	COURSE TITLE	CREDITS	MARKS
APE-5005	1	Power Electronics and Control System	3	100
APE-5006	1	Digital Electronics and Pulse Technique	3	100
APE-5007	1	Optoelectronics and Optical Integrated Circuit	3	100
APE-5008	1	Digital Signal Processing	3	100
APE-5009	1	Image Processing and Pattern recognition	3	100
APE-5010	1	Data Communication and Computer Networking	3	100
APE-5011	1	Communication Engineering and Satellite Communication	3	100
APE-5012	1	Renewable Energy and Sustainable Development	3	100
APE-5013	1	Radiation Protection and Nuclear Medicine	3	100
APE-5014	1	Quantum Computation and Information	3	100
APE--5015	1	Nano-Physics & Nano-Technology	3	100
APE--5016	1	Condensed Matter Physics	3	100
APE-5017	1	Plasma Science and Technology	3	100
APE-5018	1	Biomedical Physics	3	100
APE-5019	1	Laser Physics	3	100
APE-5020	1	Physics of Data and Data Analysis	3	100
APE-5021	1	Nuclear and Reactor Engineering	3	100
Total			3 x 4=12	4 X 100 = 400

3 RD TRIMESTER				
A student has to take project after successful completion of the first two trimesters.				
COURSE CODE	UNIT	COURSE TITLE	CREDITS	MARKS
Any from above	1	One Course will be offered from the above list	3	100
APE-5022	1	Project/Thesis	3	100
APE-5023	1	Physics Laboratory	3	100
APE-5024	0.5	Viva Voce	2	50
APE-5025	0.5	Project Viva	2	50
Total			13	400

DISTRIBUTION OF CREDITS FOR GENERAL GROUP

COURSE	UNIT	CREDITS PER COURSE	TOTAL CREDITS	GRAND TOTAL
Theoretical Courses	9	3	27	37
Project/Thesis	1	3	3	
Physics Laboratory	1	3	3	
Project Viva-voce	0.5	3	2	
Course Viva-voce	0.5	3	2	

