The Course Structure of the M. Sc. (Physics) Program to be implemented from <u>June 15, 2010</u> is as follows:

Semester I	Course	No. of hrs/wk	Credits	Marks
	Core Theory Courses - 1 - 4	(Theory 03 Tutorial & Assignement -01) 16	16	400
	Practical Course - 1	12	06	150
	Foundation Course - 1	02	02	050
	Total	**30**	**24**	**600**

Semester II	Course	No. of hrs/wk	Credits	Marks
	Core Theory Courses - 5 - 8	16	16	400
	Practical Course - 2	12	06	150
	Foundation Course - 2	02	02	050
	Total	**30**	**24**	**600**

Semester III	Course	No. of hrs/wk	Credits	Marks
	Core Theory Course - 9	04	04	100
	Elective Courses 1 - 2	08	08	200
	Interdisciplinary Course - 1	04	04	100
	Practical Course - 3	12	06	200
	Project Practical	04	02	--
	Total	**32**	**24**	**600**

Semester IV	Course	No. of hrs/wk	Credits	Marks
	Core Theory Course 10	04	04	100
	Elective Courses 3 - 4	08	08	200
	Interdisciplinary Course - 2	04	04	100
	Practical Course - 4	12	06	100
	Project Dissertation	04	02	100
	Total	**32**	**24**	**600**
		Total	**96**	**2400**

Titles of Core Theory Courses 1 - 10

CT1 Mathematical Physics and Classical Mechanics
CT2 Solid State Electronic Devices and Circuits
CT3 Quantum Mechanics - 1
CT4 Electrodynamics and Plasma Physics
CT5 Quantum Mechanics - 2 and Statistical Mechanics
CT6 Atomic and Molecular Physics
CT7 Space Physics
CT8 Solid State Physics
CT9 Nuclear and Particle Physics
CT10 Numerical Analysis and Computer Programming

Titles of Elective Theory Courses 1 - 12 (Students Have to Select Any Four)

ET1 Synthesis of Materials
ET2 Properties of Materials
ET3 Functional Materials
ET4 Physics of Ionosphere - Magnetosphere System and Radio Wave Propagation
ET5 Remote Sensing and its Applications
ET6 Experimental Techniques in Space Research
ET7 Analog and Digital Systems
ET8 Microwave Electronics
ET9 Electronic Communication
ET10 Nuclear Radiation Detectors and Accelerators
ET11 Neutron Physics and Nuclear Reactor Theory
ET12 Nuclear Reactions, Nuclear Energy and Nuclear Models

Titles of Interdisciplinary Courses Offered by Physics Department

No.	Title	Course in Charge	User Departments
1	Electronic Gadgets and Appliances	Prof. H.H. Joshi	All Departments
2	Physics and Chemistry of Nanomaterials	Prof. D.G. Kuberkar	All Science Departments
3	Experimental Techniques with Interdisciplinary Applications	Dr. G.J. Baldha	All Science Departments
4	Treatment of Experimental Data	Dr. H.P. Joshi	All Departments

Titles of Skill Development in Physics Papers (one each semester)

1. Foundation Course in Physics - 1 Computer and Laboratory Fundamentals
2. Foundation Course in Physics - 2 Theory of Errors