



ANDHRA UNIVERSITY
SCHOOL OF DISTANCE EDUCATION

VISAKHAPATNAM 530 003 : ANDHRA PRADESH

Phone: 7702257813, 0891-2844161, 2550223, 2575745, Fax No. 0891-2575752

Website: www.andhrauniversity.edu.in/sde

M.Sc PHYSICS

Medium of Instruction	: English only
Eligibility for Admission	: B.Sc Physics (as main wherever applicable) Mathematics and any other subject
Duration	: Two years
Course of study	: At the end of first year the candidate has to appear for M.Sc Physics previous examinations and final examination with a gap of one year thereafter.

COURSE STRUCTURE
First Year

Paper	Title	Internal Assessment	Year – end Examination	
			Marks	Time
I	Mathematical Methods of Physics	15*	85	3 hrs
II	Classical Mechanics	15*	85	3 hrs
III	Introductory Quantum Mechanics	15*	85	3 hrs
IV	Electronic Devices and Circuits	15*	85	3 hrs
V	Atomic and Molecular Physics	15*	85	3 hrs
VI	Statistical Mechanics	15*	85	3 hrs
VII	Electrodynamics	15*	85	3 hrs
VIII	Solid State Physics	15*	85	3 hrs
Practical- I	Modern Physics Lab – I	--	100	
Practical-II	Electronics Lab – I	--	100	
Record (Practical – I-50 Marks & Practical –II-50 Marks)			100	
Viva-Voce			50	
Assignment			50	
		Total	1200	

* Internal Assessment consists of half-yearly examination which will be held during contact classes



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Final Year

Paper	Title	Internal Assessment	Year – end Examination	
			Marks	Time
I	Advanced Quantum Mechanics	15*	85	3 hrs
II	Molecular Spectroscopy and Lasers	15*	85	3 hrs
III	Fermi Surfaces and Order-Disorder Transformations	15*	85	3 hrs
IV	Digital Electronics & Microprocessors	15*	85	3 hrs
V	Computational Methods and Programming “C”	15*	85	3 hrs
VI	Nuclear and Particle Physics	15*	85	3 hrs
VII	Magnetic Materials, Resonance Techniques and Semiconductor Devices	15*	85	3 hrs
VIII	Communication Electronics	15*	85	3 hrs
Practical- I	Modern Physics Lab – II	--	100	
Practical-II	Special Electronics Lab – II	--	100	
Record (Practical – I-50 Marks & Practical –II-50 Marks)			100	
	Viva-Voce		50	
	Assignment		50	
		Total	1200	

* Internal Assessment consists of half-yearly examination which will be held during contact classes

Note: Detailed syllabus will be sent to the candidates after admission along with course material.

Special Note: Attendance at the Personal Contact Programme for Theory and Practicals is compulsory. Candidates who fail to put in 75 percent attendance are not eligible to appear for year-end theory and practical examinations