

SIKKIM SKILL UNIVERSITY SIKKIM



**SIKKIM SKILL
UNIVERSITY**
— SIKKIM —

MASTER OF SCIENCE (PHYSICS)
(FOUR SEMESTERS)

www.sikkimskilluniversity.ac.in

SYLLABUS

SEMESTER- I

SUBJECT CODE	SUBJECT TITLE	SEE MARKS	CIA MARKS	CREDITS
MSCPHY0101	MATHEMATICAL PHYSICS	70	30	5
MSCPHY0102	CLASSICAL MECHANICS	70	30	5
MSCPHY0103	ELECTRODYNAMICS	70	30	5
MSCPHY0104	QUANTUM MECHANICS – I	70	30	5
MSCPHY0105	PHYSICS LAB-I	70	30	2

SEMESTER- II

SUBJECT CODE	SUBJECT TITLE	SEE MARKS	CIA MARKS	CREDITS
MSCPHY0201	QUANTUM MECHANICS -II	70	30	5
MSCPHY0202	STATISTICAL MECHANICS	70	30	5
MSCPHY0203	ATOMIC AND MOLECULAR SPECTROSCOPY	70	30	5
MSCPHY0204	NUCLEAR AND PARTICLE PHYSICS	70	30	5
MSCPHY0205	PHYSICS LAB-II	70	30	2

SEMESTER- III

SUBJECT CODE	SUBJECT TITLE	SEE MARKS	CIA MARKS	CREDITS
MSCPHY0301	ADVANCED ELECTRONICS	70	30	5
MSCPHY0302	ADVANCED SOLID STATE PHYSICS	70	30	5
MSCPHY0303	GROUPS AND TENSORS IN PHYSICS	70	30	5
MSCPHY0304A	GENERAL RELATIVITY AND RELATIVISTIC COSMOLOGY	70	30	4
MSCPHY0304B	BIOPHYSICS			
MSCPHY0305A	MODERN OPTICS	70	30	4
MSCPHY0305B	QUANTUM OPTICS			
MSCPHY0306	PHYSICS LAB-III	70	30	2

SEMESTER- IV

SUBJECT CODE	SUBJECT TITLE	SEE MARKS	CIA MARKS	CREDITS
MSCPHY0401	ADVANCED CONDENSED MATTER PHYSICS	70	30	5
MSCPHY0402A	PHYSICS OF NANOMATERIALS	70	30	4
MSCPHY0402B	SUPERCONDUCTIVITY AND LOW TEMPERATURE PHYSICS			
MSCPHY0403A	RADIATION PHYSICS	70	30	4
MSCPHY0403B	SCIENCE OF RENEWABLE SOURCE OF ENERGY			
MSCPHY0404A	ENVIRONMENT PHYSICS	70	30	4
MSCPHY0404B	PLASMA PHYSICS			
MSCPHY0405	PHYSICS LAB-IV	70	30	2
MSCPHY0406	PROJECT	70	30	6