

Bachelor of Science (BS) in Physics			
Course Title	Course Code	Course Type	Credit Hour
Semester 1			
Calculus - I	MPHY-101	Major	<u>3</u>
Mechanics	MPHY-111	Major	<u>3</u>
Total Credit Hours 6			
Semester 2			
CALCULUS - II	MPHY-102	Major	<u>3</u>
PHYSICS LAB I	MPHY-161	Major	<u>1</u>
WAVES AND OPTICS	MPHY-112	Major	<u>3</u>
Total Credit Hours 7			
Semester 3			
ELECTRICITY AND MAGNETISM	MPHY-221	Major	<u>3</u>
LINEAR ALGEBRA	MPHY-203	Major	<u>3</u>
THERMAL PHYSICS	MPHY-213	Major	<u>3</u>
Physics Lab – II	MPHY-262	Major	<u>1</u>
Total Credit Hours 10			
Semester 4			
MODERN PHYSICS	MPHY-231	Major	<u>3</u>
DIFFERENTIAL EQUATIONS	MPHY-204	Major	<u>3</u>
MATHEMATICAL METHODS	MPHY-251	Major	<u>3</u>
Physics Lab - III	MPHY-263	Major	<u>1</u>
Total Credit Hours 10			
Semester 5			
CLASSICAL MECHANICS	MPHY-314	Major	<u>3</u>
ELECTORNICS-I	MPHY-371	Major	<u>3</u>
SOLID STATE PHYSICS-I	MPHY-341	Major	<u>3</u>
Mathematical Methods of Physics – I	APHY-352	Interdisciplinary	<u>3</u>
Computational Physics – I	APHY-353	Interdisciplinary	<u>3</u>
Physics Lab - IV	MPHY-364	Major	<u>1</u>
Total Credit Hours 16			
Semester 6			
ELECTRONICS-II	MPHY-372	Major	<u>3</u>
QUANTUM MECHANICS-I	MPHY-332	Major	<u>3</u>
SOLID STATE PHYSICS-II	MPHY-342	Major	<u>3</u>
Mathematical Methods of Physics – II	APHY-354	Interdisciplinary	<u>3</u>
Computational Physics – II	APHY-355	Interdisciplinary	<u>3</u>
Physics Lab – V	MPHY-365	Major	<u>1</u>
Total Credit Hours 16			
Semester 7			
CLASSICAL ELECTRODYNAMICS-I	MPHY-422	Major	<u>3</u>
QUANTUM MECHANICS-II	MPHY-433	Major	<u>3</u>
STATISTICAL PHYSICS	MPHY-443	Major	<u>3</u>
Total Credit Hours 9			
Semester 8			
CLASSICAL ELECTRODYNAMICS-II	MPHY-423	Major	<u>3</u>
NUCLEAR PHYSICS	MPHY-434	Major	<u>3</u>
RELATIVITY AND COSMOLOGY	MPHY-415	Major	<u>3</u>
Total Credit Hours 9			
Signature			