

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>
Fundamentals of Philosophy	GAH-101	Interdisciplinary	<u>2</u>
Functional English	GENG-101	Interdisciplinary	<u>3</u>
Quantitative Reasoning - I	GQR-101	Interdisciplinary	<u>3</u>
Islamic Studies	GISL-101	Interdisciplinary	<u>2</u>
Ethics in lieu of Islamic Studies only for non-Muslim students	GETH-101	Interdisciplinary	<u>2</u>
Ethics in lieu of Islamic Studies only for non-Muslim students	GETH-101	General	<u>2</u>
Total Credit Hours 20			
Semester 2			
Calculus-II	MPHY-102	Major	<u>3</u>
Waves and Optics	MPHY-112	Major	<u>3</u>
Physics Lab – I	MPHY-161	Major	<u>1</u>
Introduction to Social Sciences	GSS-101	Interdisciplinary	<u>2</u>
Quantitative Reasoning - II	GQR-102	Interdisciplinary	<u>3</u>
Ideology and Constitution of Pakistan	GICP-101	Interdisciplinary	<u>2</u>
Total Credit Hours 14			
Semester 3			
Electricity and Magnetism	MPHY-221	Major	<u>3</u>
Thermal Physics	MPHY-213	Major	<u>3</u>
Linear Algebra	MPHY-203	Major	<u>3</u>
Physics Lab – II	MPHY-262	Major	<u>1</u>
Applications of Information and Communication Technologies (ICT)	GICT-201	Interdisciplinary	<u>3</u>
Expository Writing	GENG-201	Interdisciplinary	<u>3</u>
Entrepreneurship	GENT-201	Interdisciplinary	<u>2</u>
Total Credit Hours 18			
Semester 4			
Differential Equations	MPHY-204	Major	<u>3</u>
Mathematical Methods	MPHY-251	Major	<u>3</u>
Modern Physics	MPHY-231	Major	<u>3</u>
Physics Lab - III	MPHY-263	Major	<u>1</u>
Basic Electronics	GNAT-201	Interdisciplinary	<u>3</u>
Civics and community Engagement	GCCE-201	Interdisciplinary	<u>2</u>

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