

BS 04 Years & Associate Degree in Physics

Course Title	Course Code	Course Type	Credit Hour
Semester 1			
Functional English	GENG-101	General	<u>3</u>
Islamic Studies / Ethics (for Non-Muslims)	GISL-101 / GETH-101	General	<u>2</u>
Fehm-e-Quran	HQ-001N	Compulsory	<u>0</u>
Fundamentals of Philosophy (AH)	APHL-122	General	<u>2</u>
Quantitative Reasoning (I)	GQR-101	General	<u>3</u>
Calculus-I	MPHY-101	Major	<u>3</u>
Mechanics	MPHY-111	Major	<u>3</u>
Total Credit Hours			16
Semester 2			
Introduction to Social Sciences (SS)	GSS-101	General	<u>3</u>
Quantitative Reasoning (II)	GQR-201	General	<u>3</u>
Ideology and Constitution of Pakistan	GICP-101	General	<u>2</u>
WAVES AND OPTICS	MPHY-112	Major	<u>3</u>
CALCULUS - II	MPHY-102	Major	<u>3</u>
Fehm-e-Quran	HQ-002N	Compulsory	<u>1</u>
PHYSICS LAB-I	MPHY-161	Major	<u>1</u>
Total Credit Hours			16
Semester 3			
Applications of Information and Communication Technologies	GICT-201	General	<u>3</u>
Expository Writing	GENG-201	General	<u>3</u>
Tarjuma-e-Quran	HQ-003	Compulsory	<u>0</u>
Pakistan Studies.	GPST-201	General	<u>2</u>
PHYSICS LAB II	MPHY-262	Major	<u>1</u>
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>
Total Credit Hours			18
Semester 4			
<u>GEN(NS)</u>		General	<u>3</u>
Civics and Community Engagement	GCCE-201	General	<u>2</u>
Basic Electronics	GNAT-201	General	<u>3</u>
Differential Equations	MPHY-204	Major	<u>3</u>
Modern Physics	MPHY-231	Major	<u>3</u>
Mathematical Methods	MPHY-251	Major	<u>3</u>
Physics Lab III	MPHY-263	Major	<u>1</u>
Tarjuma-e-Quran	HQ-004	Compulsory	<u>1</u>
Total Credit Hours			19
Semester 5			
Mathematical Methods of Physics-I	APHY-352	Major	<u>3</u>
Computational Physics-I	APHY-353	Major	<u>3</u>
Classical Mechanics	MPHY-314	Major	<u>3</u>
Solid State Physics-I	MPHY-341	Major	<u>3</u>
Physics Lab-IV	MPHY-364	Major	<u>1</u>
Electornics-I	MPHY-371	Major	<u>3</u>
Tarjuma-e-Quran	HQ-005	Compulsory	<u>0</u>
Total Credit Hours			16
Semester 6			
Interdisciplinary		Interdisciplinary	<u>3</u>
Interdisciplinary		Interdisciplinary	<u>3</u>
major		Major	<u>3</u>
major		Major	<u>3</u>
major		Major	<u>3</u>
Tarjuma-e-Quran	HQ-006	Compulsory	<u>1</u>
Total Credit Hours			16
Semester 7			
Fieldwork / Intership		Major	<u>3</u>
major		Major	<u>3</u>
major		Major	<u>3</u>
major		Major	<u>3</u>
major		Major	<u>3</u>
Tarjuma-e-Quran	HQ-007	Compulsory	<u>0</u>
Total Credit Hours			15
Semester 8			
Capstone Project		Major	<u>3</u>
major		Major	<u>3</u>
major		Major	<u>3</u>
major		Major	<u>3</u>
major		Major	<u>3</u>
Tarjuma-e-Quran	HQ-008	Compulsory	<u>1</u>
Total Credit Hours			16

