

DEGREE OF BACHELOR OF SCIENCE IN PHYSICS WITH GEOLOGY (04F3F670)

**DESIGNATED DEGREE OF BACHELOR OF SCIENCE IN PHYSICS WITH GEOLOGY
(04F3F689)**

Students must also comply with the University General Regulations and the Supplementary Regulations for the Degree of Bachelor of Science

All the courses listed below are prescribed for this degree

PROGRAMME YEAR 1 – 120 Credit Points					
First Half Session			Second Half Session		
Course Code	Course Title	Credit Points	Course Code	Course Title	Credit Points
PD 1001	Professional Skills Part 1	0			
PX 1015	The Physical Universe A	15	PX 1513	The Physical Universe B	15
GL 1005	The Earth Through Geological Time	15	GL 1505	Earth's Materials	15
MA 1005	Calculus I	15	MA 1508	Calculus II	15
MA 1006	Algebra	15			
Plus 15 credit points from courses of choice.					

PROGRAMME YEAR 2 – 120 Credit Points					
First Half-Session			Second Half-Session		
Course Code	Course Title	Credit Points	Course Code	Course Title	Credit Points
<i>EITHER</i> GL 2014	Stratigraphical Principles	15	GL 2510	An Introduction to Field Geology	15
<i>OR</i> MA 2008	Linear Algebra	15	GL 2511	Geophysics	15
<i>OR</i> MA 2009	Analysis I	15	PX 2505	Practical Optics And Electronics	15
GL 2015	Petrology & Mineralogy	15	PX 2510	Relativity And Quantum Mechanics	15
PX 2013	Light Science	15			
PX 2015	Dynamical Phenomena	15			

PROGRAMME YEAR 3 – 120 Credit Points					
First Half-Session			Second Half-Session		
Course Code	Course Title	Credit Points	Course Code	Course Title	Credit Points
PX 3014	Energy and Matter	15	PX 3511	Quantum Mechanics	15
PX 3016	Introduction to the Solid State	15	PX 3512	Electricity and Magnetism	15
PX 3017	Research and Computing Skills in Physics	15			
30 credit point from the four courses listed below:					
GL 3018	Principles of Petroleum Geology	15	GL 3520	Igneous & Metamorphic Petrology	15
GL 3027	Structural Geology & Tectonics	15	GL 3521	Sedimentology	15
Plus one of the courses listed below					
			PX 3510	Advanced Practical Physics	15
			PX 4510 OR PX 4516	*Structure of Matter and the Universe *Nuclear and Semiconductor Physics	15 15
*These courses alternate on a two year cycle. PX4510 will run in 2017-2018.					

PLEASE SEE OVER →

PROGRAMME YEAR 4 – 120 Credit Points					
First Half-Session			Second Half-Session		
Course Code	Course Title	Credit points	Course Code	Course Title	Credit points
PX 4011	Project A				30
PX 4007	Case Studies In Physics	15	Plus 30 credit points from the courses listed below:		
PX 4012	Statistical Physics and Stochastic Systems	15	PX 4510	*Structure Of Matter And The Universe	15
			OR PX 4516	*Nuclear and Semiconductor Physics	15
			PX 4514	Modelling Theory	15
			PX 4517	Analytical Mechanics and Elements of General Relativity	15
<p>*These courses alternate on a two year cycle. PX4510 will run in 2017-2018. Plus 30 credit points of choice from Geology courses (GL Course Code).</p> <p>A graduating curriculum for the Honours programme must include 90 credit points from Level 4 courses.</p>					

Notes	
1.	
2.	Designated Programme: See Supplementary Regulation 1
3.	Candidates seeking entry to the Junior Honours programme must have accumulated, by award or recognition, or been exempted from, at least 240 credit points at levels 1 and 2, including those compulsory courses required to enter programme year 3.