

## DEGREE OF BACHELOR OF SCIENCE IN PHYSICS WITH PHILOSOPHY (04F3V770)

### DESIGNATED DEGREE OF BACHELOR OF SCIENCE IN PHYSICS WITH PHILOSOPHY (04F3V789)

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			
PH 1023	Experience, Knowledge and Reality	15	PX 1513	The Physical Universe B	15
PX 1015	The Physical Universe A	15			
MA 1005	Calculus I	15	MA 1508	Calculus II	15
MA 1006	Algebra	15			
Plus 15 credit points from a Level 1 Philosophy course. 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
PH 201B	What We Are: Mind in a Physical World	15	PX 2505	Practical Optics and Electronics	15
PX 2013	Light Science	15	PX 2510	Relativity and Quantum Mechanics	15
PX 2015	Dynamical Phenomena	15			
Plus 30 further credit Points of Level 1 or 2 Philosophy (PH/HS) courses. Plus 15 credit points from courses of choice.					

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 Skills in Physics	15	Plus one of the courses listed below:		
			PX 3510	Advanced Practical Physics	15
			PX 4510	*Structure of Matter and the Universe	15
			OR		
			PX 4516	*Nuclear and Semiconductor Physics	15
Plus 30 credit points of choice from Level 3 Philosophy (PH) courses. *These courses alternate on a two year cycle. PX4510 will run in 2019-2020.					

**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 4013	Project				45
PX 4007	Case Studies In Physics	15	PX 4510 OR PX 4516	*Structure Of Matter And The Universe	15
				*Nuclear and Semiconductor Physics	15
PX 4012	Statistical Physics & Stochastic Systems	15			
Plus 30 credit points of choice from Philosophy courses (PH Course Code) (see Notes 2 & 3).					
*These courses alternate on a two year cycle. PX4510 will run in 2019-2020					
A graduating curriculum for the Honours programme must include 90 credit points from Level 4 courses.					

Notes	
1.	A Philosophy dissertation may be chosen provided the subject chosen is in the Philosophy of Science or a cognate area.
2.	This course may be chosen in Philosophy of Science or in a relevant area or any other course judged by the Undergraduate Programme Coordinator in Philosophy as suitable to this major-minor programme.
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.