# 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**

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| **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 1024 | Reason and Argument  | 15 | PX 1513 | The Physical Universe B | 15 |
| PX 1015 | The Physical Universe A | 15 | Plus 15 credit points from a Level 1 Philosophy course. |
| **OPTION A** |
| MA 1005 | Calculus I | 15 | MA 1508 | Calculus II | 15 |
| MA 1006 | Algebra | 15 |
| Plus 15 credit points from courses of choice. |
| **OPTION B** |
| MA 1007 | Introductory Mathematics I | 15 | MA 1507 | Introductory Mathematics II | 15 |
| Plus 30 credit points from courses of choice. |

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| **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) courses.Plus 15 credit points from courses of choice. |

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| **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 (see Note 1) | 15 |
| PX 4516 | Nuclear and Semiconductor Physics (see Note 1) | 15 |
| Plus 30 credit points of choice from Level 3 Philosophy (PH) courses. |

PLEASE SEE OVER →

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| **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 | ***EITHER***PX 4510 | Structure Of Matter And The Universe (see Note 1) | 15 |
| PX 4012 | Statistical Physics & Stochastic Systems | 15 | ***OR***PX 4516 | Nuclear and Semiconductor Physics (see Note 1) | 15 |
| Further 15 credit points from Level 4 PX courses.Plus 30 credit points of choice from Philosophy courses (PH Course Code) (see Notes 2 & 3).**A graduating curriculum for the Honours programme must include 90 credit points from Level 4 courses.** |

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| Notes |
| 1. | These courses alternate on a two year cycle. |
| 2. | A Philosophy dissertation may be chosen provided the subject chosen is in the Philosophy of Science or a cognate area. |
| 3. | 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. |
| 4. | 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. |