### 3.4.2.6 Second Major in Physics

Host Department: Physics

To be awarded a second major in Physics, candidates must satisfy the following:

<table>
<thead>
<tr>
<th>MODULE LEVEL</th>
<th>SECOND MAJOR REQUIREMENTS</th>
<th>CUMULATIVE MAJOR MCS</th>
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</thead>
</table>
| Level-1000    | Pass  
PC1141  Introduction to Classical Mechanics  
PC1142  Introduction to Thermodynamics and Optics  
PC1143  Introduction to Electricity & Magnetism  
PC1144  Introduction to Modern Physics | 16                   |
| Level-2000    | Pass  
PC2130  Quantum Mechanics I  
PC2131  Electricity and Magnetism I  
PC2193  Experimental Physics I  
Any one from the following:  
• PC2132 Classical Mechanics  
• PC2134 Mathematical Methods in Physics I  
• PC2230 Thermodynamics and Statistical Mechanics | 32                   |
| Level-3000    | Pass  
Any four from the following  
• PC3130 Quantum Mechanics II  
• PC3193 Experimental Physics II  
• ALL PC32XX and PC42XX modules that can be used to fulfil the requirements for the Major Programme in Physics. | 48                   |

This second major is not offered with a primary major in Physics and minor in Optical & Semiconductor Technology or Physics.
Note:
Level-4000 PC prefixed modules may be taken to replace up to 8 MCs of the Level-3000 PC elective modules above.