

# Sample Study Plan for PHDA (P)

## Option with PA & FYP

Plan your studies

### YEAR ONE

S1: Mechanics, Optics, Vibrations & Waves, Physics Lab IA, Calculus for the Sciences, Introduction to Computational Thinking, CC0002  
S2: Electricity & Magnetism, Relativity & Quantum Physics, Physics Lab IB, Calculus for Physics, Algorithms and Computing, CC0001, CC0003, CC0005

### YEAR TWO

S1: Linear Algebra for Scientists, Thermal Physics, Analytical Mechanics, Physics Lab IIA, Probability and Introduction to Statistics, ML0004  
S2: Quantum Mechanics 1, Physics Lab IIB, Complex Methods for the Sciences, Introduction to DSAI, CC0006, CC0007, BDE1

### SPECIAL TERM

*Professional Attachment*

### YEAR THREE

S1: Electromagnetism, Quantum Mechanics II, Technological Applications of Quantum Mechanics, Communication Across the Sciences, MPE1  
S2: Physics Lab IIIA, Data Analysis with Computer, DA-Req 1, DA-Req 2, DA-Elect 1

### YEAR FOUR

S1: DA-Req 3, DA-Elect 2, BDE2, BDE3, BDE4  
S2: Final Year Project, MPE2, DA-Elect 3  
*Exchange Immersion*



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## Option with PI w/o FYP

Plan your studies

### YEAR ONE

S1: Mechanics, Optics, Vibrations & Waves, Physics Lab IA, Calculus for the Sciences, Introduction to Computational Thinking, CC0002  
S2: Electricity & Magnetism, Relativity & Quantum Physics, Physics Lab IB, Calculus for Physics, Algorithms and Computing, CC0001, CC0003, CC0005



### YEAR TWO

S1: Linear Algebra for Scientists, Thermal Physics, Analytical Mechanics, Physics Lab IIA, Probability and Introduction to Statistics, ML0004  
S2: Quantum Mechanics 1, Physics Lab IIB, Complex Methods for the Sciences, Introduction to DSAI, CC0006, CC0007, BDE1



### YEAR THREE

S1: Electromagnetism, Quantum Mechanics II, Technological Applications of Quantum Mechanics, Communication Across the Sciences, MPE1  
S2: Physics Lab IIIA, Data Analysis with Computer, DA-Req 1, DA-Req 2, DA-Elect 1, MPE2



### YEAR FOUR

S1: DA-Req 3, DA-Elect 2, DA-Elect 3, BDE2, BDE3, BDE4  
S2: Professional Internship

*Exchange Immersion*

# Sample Study Plan for PHDA (P)

## Option with PI & FYP

Plan your studies

### YEAR ONE

S1: Mechanics, Optics, Vibrations & Waves, Physics Lab IA, Calculus for the Sciences, Introduction to Computational Thinking, CC0002

S2: Electricity & Magnetism, Relativity & Quantum Physics, Physics Lab IB, Calculus for Physics, Algorithms and Computing, CC0001, CC0003, CC0005



### YEAR TWO

S1: Linear Algebra for Scientists, Thermal Physics, Analytical Mechanics, Physics Lab IIA, Probability and Introduction to Statistics, ML0004

S2: Quantum Mechanics 1, Physics Lab IIB, Complex Methods for the Sciences, Introduction to DSAI, CC0006, CC0007, BDE1



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### YEAR THREE

S1: Electromagnetism, Quantum Mechanics II, Technological Applications of Quantum Mechanics, Communication Across the Sciences, MPE1, DA-Req

S2: Physics Lab IIIA, Data Analysis with Computer, MPE2, DA-Req 2, DA-Elect 1

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### YEAR FOUR

S1: Final Year Project, DA-Req 3, DA-Elect 2, DA-Elect 3

S2: Professional Internship

*Exchange Immersion*