

Sample Study Plan for PHME

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, CC0001, CC0003

S2: Electricity & Magnetism, Relativity & Quantum Physics, Physics Lab IB, Calculus for Physics, Digital Electronics, Introduction to DSAI, CC0007

YEAR THREE

S1: Electromagnetism, Quantum Mechanics II, Technological Applications of Quantum Mechanics, Physics Lab IIIA, Fabrication of Micro- and Nanoelectronic Devices, Microprocessors, MLxxxx-ICC PS

S2: Physics of Semiconductor and Devices, Advanced Numerical Methods for Physicists, Integrated Electronics

YEAR TWO

S1: Linear Algebra for Scientists, Thermal Physics, Physics Lab IIA, Circuit Analysis, CC0015, ML0004

S2: Quantum Mechanics 1, Physics Lab IIB, Complex Methods for the Sciences, Physical Optics, Analog Electronics, Communication Across the Sciences, CC0006, CSL

YEAR FOUR

S1: Final Year Project, BDE1

S2: MPE1, MPE2, ME-Elect 1, ME-Elect 2

Exchange Immersion

SPECIAL TERM

Professional Attachment

Sample Study Plan for PHME

Option with PI w/o FYP

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STUDIES**



YEAR ONE

S1: Mechanics, Optics, Vibrations & Waves, Physics Lab IA, Calculus for the Sciences, Introduction to Computational Thinking, CC0001, CC0003

S2: Electricity & Magnetism, Relativity & Quantum Physics, Physics Lab IB, Calculus for Physics, Digital Electronics, Introduction to DSAI, CC0007

YEAR THREE

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S2: Physics of Semiconductor and Devices, Advanced Numerical Methods for Physicists, Integrated Electronics, ME-Elect 1

YEAR TWO

S1: Linear Algebra for Scientists, Thermal Physics, Physics Lab IIA, Circuit Analysis, CC0015, ML0004

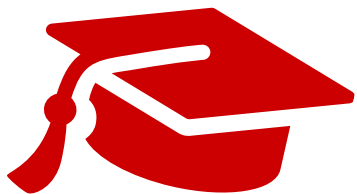
S2: Quantum Mechanics 1, Physics Lab IIB, Complex Methods for the Sciences, Physical Optics, Analog Electronics, Communication Across the Sciences, CC0006, CSL

YEAR FOUR

S1: Professional Internship

S2: MPE1, MPE2, ME-Elect 2, BDE1

Exchange Immersion



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Option with PI & FYP

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YEAR ONE

S1: Mechanics, Optics, Vibrations & Waves, Physics Lab IA, Calculus for the Sciences, Introduction to Computational Thinking, CC0001, CC0003

S2: Electricity & Magnetism, Relativity & Quantum Physics, Physics Lab IB, Calculus for Physics, Digital Electronics, Introduction to DSAI, CC0007

YEAR THREE

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S2: Physics of Semiconductor and Devices, Advanced Numerical Methods for Physicists, Integrated Electronics, ME-Elect 1, MPE1

YEAR TWO

S1: Linear Algebra for Scientists, Thermal Physics, Physics Lab IIA, Circuit Analysis, CC0015, ML0004

S2: Quantum Mechanics 1, Physics Lab IIB, Complex Methods for the Sciences, Physical Optics, Analog Electronics, Communication Across the Sciences, CC0006, CSL

YEAR FOUR

S1: Professional Internship

S2: Final Year Project, MPE2, ME-Elect 2, BDE1

