

C. Curriculum:

1. Curriculum Structure:

Program Structure	Required/ Elective	No. of courses	Credit Hours	Percentage
Course	Required	11	33	78%
	Elective	1	3	7%
Graduation Project (if any)		1	6	15%
Thesis (if any)				
Field Experience(if any)				
Others (.....)				
Total		13	42	100%

* Add a separate table for each track (if any).

1.1 Curriculum Structure: Condensed Matter Physics Track

Program Structure	Required/ Elective	No. of courses	Credit Hours	Percentage
Course	Required	11	33	78%
	Elective	1	3	7%
Graduation Project (if any)		1	6	15%
Thesis (if any)				
Field Experience(if any)				
Others (.....)				
Total		13	42	100%

* Add a separate table for each track (if any).

1.2 Curriculum Structure: Nuclear Physics Track

Program Structure	Required/ Elective	No. of courses	Credit Hours	Percentage
Course	Required	11	33	78%
	Elective	1	3	7%
Graduation Project (if any)		1	6	15%
Thesis (if any)				
Field Experience(if any)				
Others (.....)				
Total		13	42	100%

* Add a separate table for each track (if any).

1.3 Curriculum Structure: Medical Physics Track

Program Structure	Required/ Elective	No. of courses	Credit Hours	Percentage
Course	Required	11	33	78%
	Elective	1	3	7%
Graduation Project (if any)		1	6	15%
Thesis (if any)				
Field Experience(if any)				
Others (.....)				
Total		13	42	100%

* Add a separate table for each track (if any).

2. Program Courses:

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College, or Program)
Level 1		Classical Mechanics	Required		3	program
		Electrodynamics	Required		3	program
		Quantum Mechanics I	Required		3	program
		Theoretical tools for Physics	Required		3	program
Level 2		Statistical Physics	Required		3	program
		Quantum Mechanics II	Required	Quantum Mechanics I	3	program
		Physics Simulations and Modelling	Required		3	program
		Research Methodology and ethics	Required		3	program
Level 3		Course title varies by track (see tables below)	Required		3	program

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College, or Program)
		Course title varies by track (see tables below)	Required		3	program
		Course title varies by track (see tables below)	Required		3	program
		Elective Course	Elective		3	program
Level 4						
		Master's Capstone Research Project	Required		6	program

* Include additional levels (for three semesters option or if needed).

** Add a table for the courses of each track (if any)

2.1 Track Courses: Condensed Matter Physics

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College, or Program)
Level 1		Classical Mechanics	Required		3	program
		Electrodynamics	Required		3	program
		Quantum Mechanics I	Required		3	program
		Theoretical tools for Physics	Required		3	program
Level 2		Statistical Physics	Required		3	program
		Quantum Mechanics II	Required	Quantum Mechanics I	3	program
		Physics Simulations and Modelling	Required		3	program
		Research Methodology and ethics	Required		3	program
Level 3						
		Advanced Solid State Physics	Required		3	program

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College, or Program)
		Semiconductor Physics	Required		3	program
		Characterization Techniques	Required		3	program
		Elective Course	Elective		3	program
Level 4		Master's Capstone Research Project	Required		6	program

* Include additional levels (for three semesters option or if needed).

** Add a table for the courses of each track (if any)

Condensed Matter Elective course: Synthesis and Preparation of Materials, Advanced Nanoscience and Advanced optics

2.2 Track Courses: Nuclear Physics

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College, or Program)
Level 1		Classical Mechanics	Required		3	program
		Electrodynamics	Required		3	program
		Quantum Mechanics I	Required		3	program
		Theoretical tools for Physics	Required		3	program
Level 2		Statistical Physics	Required		3	program
		Quantum Mechanics II	Required	Quantum Mechanics I	3	program
		Physics Simulations and Modelling	Required		3	program
		Research Methodology and ethics	Required		3	program
Level 3		Nuclear and High Energy Physics	Required		3	program

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College, or Program)
		Elementary Particle Physics	Required		3	program
		Quantum Field Theory	Required		3	program
		Elective Course	Elective		3	program
Level 4						
		Master's Capstone Research Project	Required		6	program

* Include additional levels (for three semesters option or if needed).

** Add a table for the courses of each track (if any)

2.3 Track Courses: Medical Physics

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College, or Program)
Level 1		Classical Mechanics	Required		3	program
		Electrodynamics	Required		3	program
		Quantum Mechanics I	Required		3	program
		Theoretical tools for Physics	Required		3	program
Level 2		Statistical Physics	Required		3	program
		Quantum Mechanics II	Required	Quantum Mechanics I	3	program
		Physics Simulations and Modelling	Required		3	program
		Research Methodology and ethics	Required		3	program
Level 3						
		Advanced Nuclear Medicine	Required		3	program

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College, or Program)
		Advanced Radiotherapy Physics	Required		3	program
		Advanced Medical Radiation Physics	Required		3	program
		Elective Course	Elective		3	program
Level 4		Master's Capstone Research Project	Required		6	program

* Include additional levels (for three semesters option or if needed).

** Add a table for the courses of each track (if any)

Medical Physics Elective course: Advanced Medical Imaging, Applications in Medical Physics and

Medical radiation protection .