Course structure for the Physics PhD/Integrated PhD program

	Int. PhD.	**Int. PhD.**	**PhD.**
Minimum number of credits	100 credits	80 credits	60 credits
Compulsory requirements (number of credits shown in parenthesis)	**5 core (20) +RM (4) +RPE (2); 1 lab (8); 3 projects (24); 7 elective/topical classroom courses (28): total 86 credits**	**5 core (20) +RM (4) +RPE (2); 1 lab (8); 2 projects (16); 2 elective/topical classroom courses (8): total 58 credits**	**5 core (20) +RM (4) +RPE (2); 2 projects (16); 2 elective/topical classroom courses (8): total 50 credits**
Number of credits as per students' choice: any combination of classroom or reading courses or projects	14 credits	22 credits	10 credits
Suggested timeline for choosing advisor (after two projects)	End of Semester III	End of Semester III	End of Summer I
TIFR PhD registration deadline	End of 3rd year	End of 3rd year	End of 2nd year
Here is a suggested plan for completing the credit requirements for PhD registration. Core courses are shown in bold font. **Students have the option to deviate from this plan (in consultation with their faculty mentors) provided they can meet the credit requirements before the registration deadline.**			
Semester I (Aug-Nov)	**Recommended Coursework: 5 Core Courses [Total credits = 18]**	**Recommended Coursework: 5 Core Courses [Total credits = 18]**	**Recommended Coursework: 5 Core Courses [Total credits = 18**
	Classical mechanics (4)	**Classical mechanics (4)**	**Classical mechanics (4)**
	Statistical Mechanics I (4)	**Statistical Mechanics I (4)**	**Statistical Mechanics I (4)**
	Quantum Mechanics I (4)	**Quantum Mechanics I (4)**	**Quantum Mechanics I (4)**
	Mathematical Methods (4)	**Mathematical Methods (4)**	**Mathematical Methods (4)**
	Research methodology I (2)	**Research methodology I (2)**	**Research methodology I (2)**
Semester II (Jan-Apr)	**Recommended Coursework: 1 Core Course + 3 CoOp/ Topical Courses [Total credits = 16]**	**Recommended Coursework: 1 Core Course + 3 CoOp/ Topical Courses [Total credits = 16]**	**Recommended Coursework: 1 Core Course + 2CoOp/ Topical Courses + Project [Total credits = 20]**
	Electrodynamics (4)	**Electrodynamics (4)**	**Electrodynamics (4)**
			Research project (8)
	Numerical Methods(4)	Numerical Methods (4)	Numerical Methods(4)
	Statistical Mechanics II	Statistical Mechanics II	Statistical Mechanics II
	Quantum Field Theory	Quantum Field Theory	Quantum Field Theory
	General Relativity	General Relativity	General Relativity
	Tools of Astrophysics	Tools of Astrophysics	Tools of Astrophysics
	Many Body Physics I	Many Body Physics I	Many Body Physics I

	Topical Course 1	Topical Course 1	Topical Course 1
Summer I May-Jul)	**[Total credits = 8]**	**[Total credits = 8]**	**[Total credits = 8]**
	Research project (8)	**Research project (8)**	**Research project (8)**
Semester III (Aug-Nov)	**Recommended Coursework: RMII+RPE+Lab + 1 CoOp/Topical Course + 1 Project [Total credits = 24]**	**Recommended Coursework: RMII+RPE+Lab + 1 CoOp/Topical Course + 1 Project [Total credits = 24]**	**Recommended Coursework: RMII+RPE + 3 CoOp/ Topical Courses or 1 CoOp/Topical Course + Project [Total credits = 16]**
	Research methodology II (2) **Research & publication ethics (2)**	**Research methodology II (2)** **Research & publication ethics (2)**	**Research methodology II (2)** **Research & publication ethics (2)**
	Research project (8)	**Research project (8)**	
	Lab Course (8)	**Lab Course (8)**	
	Elasticity and Fluid Dynamics	Elasticity and Fluid Dynamics	Elasticity and Fluid Dynamics
	Physics of Living Matter	Physics of Living Matter	Physics of Living Matter
	Many-Body Physics II	Many-Body Physics II	Many-Body Physics II
	Topical Course 2	Topical Course 2	Topical Course 2
	Topical Course 3	Topical Course 3	Topical Course 3
Semester IV (Jan-Apr)	**Recommended Coursework: 3 CoOp/Topical Courses + 1 Project [Total credits = 20]**	**Recommended Coursework: 2 CoOp/Topical Courses or 1 Project [Total credits = 16]**	
	Research project (8)	**Research project or 2 electives (8)**	
	Statistical Mechanics II	Statistical Mechanics II	
	Quantum Mechanics II	Quantum Mechanics II	
	General Relativity	General Relativity	
	Tools for Astrophysics	Tools for Astrophysics	
	Topical Course 4	Topical Course 4	
Summer II (May-Jul)	Research project (8)		**PhD Regn deadline**
Semester V (Aug-Nov)	2 electives/ topical (8)		
	Research project or 2 electives (8)		
Semester VI (Jan-Apr)			
Summer III (May-Jul)	**PhD Regn deadline**	**PhD Regn deadline**	