IISER KOLKATA Major: **Physical Sciences** — 5 Year BS-MS Dual Degree Programme — Medium of Instructions: **English**

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Semester: I — Session: 2016-17

Code	Course Title	Type	Credit	Grade
CH1101	Elements of Chemistry	T	3.0	B+
CH1102	Chemistry Lab I	L	3.0	A
CS1101	Introduction to Computer Programming I	L	3.0	A
ES1101	Earth and Planetary Sciences	T	3.0	A
HU1101	Communicative English and Sociology I	T	2.0	B+
LS1101	Introduction to Biology I	T	3.0	B+
LS1102	Biology Laboratory I	L	3.0	B+
MA1101	Mathematics I	T	3.0	A+
PH1101	Physics I	T	3.0	A
PH1102	Physics Laboratory I	L	3.0	A

Total semester credit: 29.0 — **SGPA: 8.72** — **CGPA: 8.72**

Semester: II — Session: 2016-17

Code	Course Title	Type	Credit	Grade
CH1201	General Physical Chemistry	T	3.0	B+
CH1202	Physical Chemistry Laboratory	L	3.0	B
CS1201	Introduction to Computer Programming	L	3.0	A
ES1201	Earth System Processes	T	3.0	B
HU1201	Communicative English and Sociology II	T	2.0	B+
LS1201	Introduction to Biology II	T	3.0	B+
LS1202	Biology Laboratory II	L	3.0	A
MA1201	Mathematics II	T	3.0	A
PH1201	Physics II	T	3.0	A+
PH1202	Physics Laboratory II	L	3.0	B+

Total semester credit: 29.0 — **SGPA: 8.31** — **CGPA: 8.52**

Semester: III — Session: 2017-18

Code	Course Title	Type	Credit	Grade
ES2101	Biogeochemical Cycles and Surface Processes	T	4.0	B+
ES2102	Hydrology and Geomorphology	T	4.0	A
MA2101	Analysis I	T	3.0	C
MA2102	Linear Algebra I	T	3.0	C
MA2103	Mathematics III	T	2.0	D
PH2101	Physics III	T	3.0	B
PH2102	Electricity and Electronics	T	2.0	B
PH2103	Physics Laboratory III	L	3.0	A

Total semester credit: 24.0 — **SGPA: 7.33** — **CGPA: 8.17**

Semester: IV — Session: 2017-18

Code	Course Title	Type	Credit	Grade
ES2201	Geophysics	T	4.0	C
ES2202	Basic Structural Geology and Tectonics	T	4.0	C
MA2201	Analysis II	T	3.0	D
MA2202	Probability I	T	3.0	B
MA2203	Mathematics IV	T	2.0	B
PH2201	Physics IV	T	3.0	B+
PH2202	Thermal Physics	T	2.0	B
PH2203	Physics Laboratory IV	L	3.0	A

Total semester credit: 24.0 — **SGPA: 6.79** — **CGPA: 7.86**

Semester: V — Session: 2018-19

Code	Course Title	Type	Credit	Grade
MA3103	Introduction to Graph Theory	T	4.0	B
PH3101	Intermediate Classical Mechanics	T	4.0	B
PH3102	Intermediate Quantum Mechanics	T	4.0	A
PH3103	Mathematical Methods of Physics	T	4.0	B
PH3104	Electronics Laboratory	L	4.0	B+
PH3105	Computational Physics	L	4.0	A

Total semester credit: 24.0 — **SGPA: 7.83** — **CGPA: 7.85**

Semester: VI — Session: 2018-19

Code	Course Title	Type	Credit	Grade
MA3202	Geometry of Curves and Surfaces	T	4.0	C
PH3201	Basic Statistical Mechanics	T	4.0	B
PH3202	Intermediate Electricity and Magnetism	T	4.0	A
PH3203	Advanced Quantum Mechanics	T	4.0	B+
PH3204	Advanced Optics Laboratory	L	4.0	B
PH3205	Basic Nuclear Physics - Theory and Laboratory	L	4.0	A

Total semester credit: 24.0 — **SGPA: 7.67** — **CGPA: 7.82**

Semester: VII — Session: 2019-20

Code	Course Title	Type	Credit	Grade
PH4101	Basic Condensed Matter Physics	T	4.0	A
PH4102	Introductory Astrophysics	T	4.0	A
PH4103	Condensed Matter Laboratory	L	4.0	A
PH4104	Nonlinear Dynamics	T	4.0	A+
PH4106	Basics of Field Theory and Relativistic Quantum Mechanics	T	4.0	A+
SS4101	Space Astronomy	T	4.0	A

Total semester credit: 24.0 — **SGPA: 9.33** — **CGPA: 8.03**

Semester: VIII — Session: 2019-20

Code	Course Title	Type	Credit	Grade
MA4207	Machine Learning and Network Analysis	T	4.0	A
PH4204	High Energy Physics	T	4.0	A
PH4205	General Theory of Relativity and Cosmology	T	4.0	B+
PH4207	Quantum Information Processing	T	4.0	B+
PH4209	Quantum Field Theory II	T	4.0	A+
PH4210	Evolutionary Dynamics	T	4.0	A+

Total semester credit: 24.0 — **SGPA: 9.0** — **CGPA: 8.14**

Semester: IX — Session: 2020-21

Code	Course Title	Type	Credit	Grade
CS3101	Programming and Data Structures I	L	4.0	A+
PH5101	BS-MS Project	P	16.0	A+
PH5102	Independent Study	P	4.0	A

Total semester credit: 24.0 — **SGPA: 9.83** — **CGPA: 8.32**

Semester: X — Session: 2020-21

Code	Course Title	Type	Credit	Grade
PH5201	MS Project	P	24.0	A+

Total semester credit: 24.0 — **SGPA: 10.0** — **CGPA: 8.48**

Verified by

Date: August 2, 2021

Assistant Registrar (Academic)

Dean of Academic Affairs

Course details: **CH**: Chemical Sciences, **CS**: Computer Sciences, **ES**: Earth Sciences, **HU**: Humanities, **ID**: Interdisciplinary, **LS**: Biological Sciences, **MA**: Mathematical Sciences, **PH**: Physical Sciences, **SS**: Space Sciences

Course types: T: Theory, L: Laboratory, P: Project

Grading System

Grade	Grade Point
A+	10
A	9
B+	8
B	7
C	6
D	5
F	0

Semester Grade Point Average (SGPA) $= \sum_{i=1}^{m} C_i.G_i / \sum_{i=1}^{m} C_i$,

where m is the total number of courses the student has registered in a particular semester, C_i is the number of credits allotted to i^{th} course and G_i is the grade point corresponding to the letter grade (as per the adjacent table) awarded to the student for the ith course. The SGPA is rounded off to the second place of decimal. This SGPA reflects the student's performance for the semester.

Cumulative Grade Point Average (CGPA) $= \sum_{i=1}^{n} C_i.G_i / \sum_{i=1}^{n} C_i$,

where n is the total number of courses the student has registered from the first semester onwards up to and including the student's last completed semester, C_i is the number of credits allotted to i^{th} course and G_i is the grade point corresponding to the letter grade awarded to the student for the ith course. The CGPA is rounded off to the second place of decimal. The CGPA would indicate the cumulative performance of the student from the first semester up to the end of the semester to which it refers.