



**Indian Association for the Cultivation of Science**  
(Deemed to be University under *de novo* Category)

**Class Schedule (Spring Semester-2023)**

**Integrated Bachelor's-Master's Program**

(UG-IV of SPS, SCS, SBS)

Day	10.00-11.30	11.30-13.00	14.00-15.00	15.00-16.00	16.00-17.00	17.00-18.00
Monday	CHS 2203 BIS 2203 PHS 2201	PHS 2202 BIS 2201 CHS 2204	CHS 2211/BIS 2211/PHS 2211			
Tuesday	CHS 2201 PHS 2204 BIS 2202	PHS 2203 BIS 2204	CHS 2211/BIS 2211/PHS 2211			
Wednesday	CHS 2202 PHS 2201 BIS 2279	PHS 2202 BIS 2201 CHS 2204	CHS 2211/BIS 2211/PHS 2211			
Thursday	PHS 2204 CHS 2201 BIS 2203	PHS 2203 BIS 2204 CHS 2202	PHS 2201(T) BIS 2202 (T)	CHS 2203(T) (from 15:30)	BIS 2201 (from 15:30)	BIS 2279 (from 17:00) CHS 2204(T) (from 17:00)
Friday	CHS 2203 BIS 2202	PHS 2204(T)	CHS 2201(T) PHS 2202(T) BIS 2204(T)	CHS 2202(T) BIS 2203(T) PHS 2203(T)	CHS 2279 PHS 2279	CHS 2279 PHS 2279

**Courses, Instructors and Venue:**

Code	Course	Type of Course	Instructor
<b>School of Biological Sciences</b>			
<b>Semester-IV (Venue: A11, Academic Building)</b>			
Code	Course Name	Course Type	Instructor
BIS 2201	Proteins and Enzymes	Core Theory(4)	Arindam Banerjee & Somdatta Ghosh Dey
BIS 2202	Molecular Genetics	Core Theory(4)	Biswadip Das (JU)

BIS 2203	Ecology	Core Theory(4)	Manabi Paul (CU)
BIS 2204	Birth, Growth and Death Cycle	Core Theory(4)	Parimal Karmakar (JU), Arunima Sen Gupta(JU)
BIS 2211	Molecular and Cell Biology Laboratory	Core Lab(6)	
BIS 2279	Gene Engineering	SECC(2)	Benu Brata Das
<b>School of Chemical Sciences</b>			
<b>Semester-IV (Venue: Father Lafont Classroom)</b>			
<b>Code</b>	<b>Course Name</b>	<b>Course Type</b>	<b>Instructor</b>
CHS 2201	Reaction Mechanisms	Core Theory(4)	Asit Chakraborti
CHS 2202	Transition Metal and Coordination Chemistry	Core Theory(4)	Tapan K. Paine and Raju Mondal
CHS 2203	Thermodynamics and Electrochemistry	Core Theory(4)	Satrajit Adhikari
CHS 2204	Introduction to Organic Synthesis	Core Theory(4)	Brindaban C Ranu
CHS 2211	Chemistry Laboratory	Core Theory(6)	Rajib K. Goswami, Harapriya Rath, Arun K Nandi
CHS 2279	Reaction Kinetics and Catalysis	Core Theory(2)	Tapas Chakraborty
<b>School of Physical Sciences</b>			
<b>Semester-IV (Venue: A21, Academic Building)</b>			
<b>Code</b>	<b>Course Name</b>	<b>Course Type</b>	<b>Instructor</b>
PHS 2201	Classical Mechanics and Special Relativity	Core Theory(4)	Soumitra Sengupta
PHS 2202	Electrodynamics and Electronics	Core Theory(4)	Soumitra Sengupta and Subhadeep Datta
PHS 2203	Quantum Mechanics	Core Theory(4)	Mintu Mondal
PHS 2204	Thermodynamics and Statistical Mechanics	Core Theory(4)	Satyanarayan Mukhopadhyay
PHS 2211	Digital Electronics and Nuclear Physics Lab	Core Lab(6)	Subham Majumdar and Aswini Ghosh
PHS 2279	Introduction to Mathematical Methods in Physics	SECC(2)	

**Integrated Bachelor's-Master's Program**  
(UG-IV of SMCS)

**School of Mathematical and Computational Sciences**

Day	10.00 -11.30	11.30 - 13.00	13.00 - 14.00	14.00 - 15.30	15.30 - 17.00	17.00 – 18:30
Monday	COM 2211			MAT 2279 (L) (2 h)	MAT 2202(L+T)	
Tuesday	MAT 2203 (L+T)	COM 2201 (L)		MAT 2201 (L+T) (2 h)	COM 2211	
Wednesday	COM 2211			COM 2211	COM 2202 (L)	
Thursday						
Friday	COM 2211			MAT 2201 (L+T) (2 h)	MAT 2202(L+T)	
Saturday	COM 2201 (L+T)			COM 2202 (L+T)		

<b>Semester-IV (Venue: K.S. Krishnan Classroom)</b>			
<b>Code</b>	<b>Course Name</b>	<b>Course Type</b>	<b>Instructor</b>
MAT 2201	Algebra-I	Core Theory(4)	S. M. Srivastava
MAT 2202	Vector Calculus	Core Theory(4)	Shubhabrata Das ( Presidency University)
MAT 2203	Number Theory	Core Theory(2)	TBA
COM 2201	Digital Logic and Computer Organization	Core Theory(4)	Chintan Mandal, Mridul Sankar Barik
COM 2202	Numerical Methods	Core Theory(4)	Debapriyay Mukhopadhyay

COM 2211	Data Structures and Algorithms	Core Lab(4)	Debarshi Sanyal, Partha Basuchowdhuri
MAT 2279	Course Presentation	SECC(2)	



**Indian Association for the Cultivation of Science**  
(Deemed to be University under *de novo* Category)

**Class Schedule (Spring Semester-2023)**

**Integrated Master's-PhD Program**

*(UG-VI (SBS)/PG-II of SAIS (Biol))*

Day	10.00 -11.30	11.30 - 13.00	13.00 - 14.00	14.00 - 15.00	15.00-18:00	
Monday	BIS 4204	AIS 4206	BREAK	BIS 4211/AIS 4205		
Tuesday	AIS 4208/ BIS 4201	AIS 4202 BIS 4203		BIS 4211/AIS 4205		
Wednesday	AIS 4209/ BIS 4202	AIS 4206		BIS 4211/AIS 4205		
Thursday	BIS 4204	AIS 4208/ BIS 4201		AIS 4202 (T) BIS 4203 (T)	AIS 4206(T) (from 15:30) BIS 4204(T) (from 17:00)	
Friday	AIS 4209/ BIS 4202	AIS 4202 BIS 4203		AIS 4208 (T)/ BIS 4201	AIS 4209/ BIS 4202 (T)	

Course Code	Course Name	Course Type	Instructor(s)	Venue
BIS 4201	Defense Mechanism	Core Theory(4)	Syamol Roy(IICB)	A31
BIS 4202/AIS 4209	Molecular Microbiology	Core Theory(4)	Ritesh R Pal	A31
BIS 4203	Advanced Evolutionary Biology	Core Theory(4)	Silanjan Bhattacharyya(WBSU)	A31
BIS 4204	Stem Cell Biology and Therapy	DSE(4)	Rupashri Ain (IICB)	A31
BIS 4211	Project Based Biology Lab	Core Lab(6)		
AIS 4202/PHD 209	Macromolecules-I	Core Theory(4)	Anindita Das	Sadhan Basu Hall (C-227)

AIS 4206	Chemistry of Biological Systems	Core Theory(4)	Geetanjali Sundaram & Alok Ghosh (Cal Univ.)	A31
AIS 4208	Infection and Immunity	Core Theory(4)	Shamol Roy, IICB, NIPER	A31
AIS 4205B	Laboratory-II	Core Lab(6)	Coordinator: Dr. Anindita Das	



**Indian Association for the Cultivation of Science**  
(Deemed to be University under *de novo* Category)

**Class Schedule (Spring Semester-2023)**

**Integrated Master's-PhD Program**  
(UG-VI/PG-II (SCS) and SAIS/SMS (Chem))

Day	10.00 -11.30	11.30 - 13.00	13.00 - 14.00	14.00 - 15.00	15.00-18:00
Monday	CHS 4201				CHS 4211/MAS 4205/AIS 4205
Tuesday	MAS 4201 CHS 4203	AIS 4202 CHS 4202			CHS 4211/MAS 4205/AIS 4205
Wednesday	MAS 4202	CHS 4204			CHS 4211/MAS 4205/AIS 4205
Thursday	MAS 4201 CHS 4203	CHS 4201		AIS 4202 CHS 4202	CHS 4204 <b>MAS 4202 (from 17:00)</b>
Friday	MAS 4202	AIS 4202 CHS 4202		CHS 4204 (14:00 – 15:30)	CHS 4201 CHS 4203 MAS 4201

**Courses, Instructors and Venue:**

Course Code	Course Name	Course Type	Instructor(s)	Venue
CHS 4201/ AIS 4203	Statistical Thermodynamics and Reaction Rate Theories	Core Theory(4)	Biman Jana, Avisek Das	S N Bose Hall
CHS 4202	Main Group and Organometallic Chemistry	Core Theory(4)	Amit Majumdar	S N Bose Hall
CHS 4203/ AIS 4201/PHD 208	Organic Synthesis-I	Core Theory(4)	Surajit Sinha and Subrata Ghosh	S N Bose Hall

CHS 4204/ AIS 4204	Chemical Applications of Group Theory	DSE(4)/ Core Theory(4)	Ankan Paul	S N Bose Hall
CHS 4211	Advanced Chemistry Laboratory-II	Core Lab(6)	Raju Mondal, Jyoti Dash And Tapas Chakraborty	
AIS 4202/PHD 209	Macromolecules-I	Core Theory(4)	Anindita Das	Sadhan Basu Hall (C-227)
AIS 4205C	Laboratory-II	Core Lab(6)	Coordinator: S. Varghese	
MAS 4201	Symmetry, Structure and Diffraction	Core Theory(4)	Sugata Ray	Sadhan Basu Hall (C-227)
MAS 4202	Electronic and Magnetic Properties of Solids	Core Theory(4)	Shyamal K Saha & Subodh K De	Sadhan Basu Hall (C-227)
MAS 4211	Materials Laboratory-II	Core Lab(6)	AB, NP, PK, UM and SKS	





**Indian Association for the Cultivation of Science**  
(Deemed to be University under *de novo* Category)

**Class Schedule (Spring Semester-2023)**

**Integrated Master's-PhD Program**  
(UG-VI/PG-II (SPS), SAIS (P) and SMS (P))

Day	10.00 -11.30	11.30 - 13.00	13.00 -14.00	14.00 - 15.00	15.00 – 16:00	16.00-18.00
Monday	AIS 4213 PHS 4202	PHS 4204	<b>BREAK</b>	PHS 4211/AIS 4205/MAS 4211		
Tuesday	PHS 4203 MAS 4201	PHS 4201 AIS 4212		PHS 4211/AIS 4205/MAS 4211		
Wednesday	MAS 4202	PHS 4204		PHS 4211/AIS 4205/MAS 4211		
Thursday	PHS 4203 MAS 4201	AIS 4213 PHS 4202		PHS 4201 (T) AIS 4212 (T)	PHS 4204(T)	MAS 4202 (T) (from 17:00)
Friday	MAS 4202	PHS 4201 AIS 4212		PHS 4203 (T) MAS 4201(T)	AIS 4213 (T) PHS 4202 (T)	

Course Code	Course Name	Course Type	Instructor(s)	Venue
PHS 4201	Advanced Quantum Mechanics-II	Core Theory(4)	Krishnendu Sengupta	TRC 504
PHS 4202	Mathematical Methods-II	Core Theory(4)	Sourav Roy	<b>TRC 504</b>
PHS 4203/AIS 4211	Electromagnetic Theory	Core Theory(4)	Partha Majumdar	<b>TRC 504</b>
PHS 4204/AIS 4210	Statistical Mechanics	DSE(4)	Soumen Kumar Roy	<b>TRC 504</b>

PHS 4211	General Physics and Optics Lab	Core Lab(6)	Devajyoti Mukherjee and Durga Basak	
AIS 4212	Soft Matter Physics	Core Theory(4)	Raja Paul	Father Lafont Classroom
AIS 4213/PHD 236	Advanced Device Physics	Core Theory(4)	KDM Rao	Sadhan Basu Hall (C-227)
AIS 4205P	Laboratory-II	Core Lab(6)	Coordinator: Dr. KDM Rao	
MAS 4201	Symmetry, Structure, and Diffraction	Core Theory(4)	Sugata Ray	Sadhan Basu Hall (C-227)
MAS 4202	Electronic and Magnetic Properties of Solids	Core Theory(4)	Shyamal K Saha & Subodh K De	Sadhan Basu Hall (C-227)
MAS 4211	Materials Laboratory-II	Core Lab(6)	AB, NP, PK, UM and SKS	



**Indian Association for the Cultivation of Science**  
(Deemed to be University under *de novo* Category)

**Class Schedule (Spring Semester-2023)**

**Integrated Master's-PhD Program**  
**School of Mathematical and Computational Sciences**

**UG-VI/Semester-II (Master's)-MSU**

Day	10.00 -11.30	11.30 - 13.00	13.00 - 14.00	14.00 - 15.30	15.30 - 17.00	17.00 – 18:00
Monday		MAT 4203(L)		MAT 4201 (L+T)	MAT 4201 (L+T)	
Tuesday		MAT 4202 (L+T)				
Wednesday	MAT 4203(L)	MAT 4204		MAT4201(L+T)	MAT 4211 (L)	MAT 4211 (L)
Thursday		MAT 4204		MAT 4204 (T)	MAT 4202 (L+T)	
Friday	MAT 4203 (T)	SEC 4200/ MAT 4279		MAT 4211 (Lab)		

**UG-VI/Semester-II (Master's)-CSU**

Day	10.00 -11.30	11.30 - 13.00	13.00 - 14.00	14.00 - 15.30	15.30 - 17.00	17.00 – 18:30
Monday	COM 4202 (L)	COM 4202 (T)		COM 4203 (L)	COM 4203 (T)	COM 4201 (L)
Tuesday	COM 4211 (Lab)	COM 4211 (Lab)			COM 4211 (Lab)	
Wednesday	COM 4201 (L)	MAT 4204 (L)		COM 4203 (L)	COM 4201 (T)	
Thursday	COM 4202 (L)	MAT 4204 (L)		MAT 4204 (T)		
Friday	COM 4211 (Lab)	SEC 4200/ MAT 4279 13:30-15:30		COM 4211 (Lab)		
Saturday						

**Courses, Instructors and Venue:**

Code	Course	Type of Course	Instructor
<b>Semester-II (MSU) (Venue: A12, Academic Building)</b>			
MAT 4201	Complex Analysis	Core Theory(4)	S.M. Srivastava
MAT 4202	Measure Theory and Probability	Core Theory(4)	Alok Goswami
MAT 4203	Curves and Surfaces	Core Theory(4)	Sayani Bera
MAT 4204	Ordinary Differential Equations	DSE(4)	Koushik Ray
MAT 4211	Statistics with R	Core Lab(6)	Soumita Modak
SEC 4200	Research Methods	SECC (Non-CGPA)	
<b>Semester-II (CSU) (Venue: A22, Academic Building)</b>			
COM 4201	Design and Analysis of Algorithms	Core Theory(4)	Prosenjit Gupta
COM 4202	Software Engineering	Core Theory(4)	Sumit Misra, Debasis Bandyopadhyay

COM 4203/PHD 226	Introduction to Machine Learning	Core Theory(4)	Debapriyay Mukhopadhyay
MAT 4204	Ordinary Differential Equations	DSE(4)	Koushik Ray
COM 4211	Artificial Intelligence Lab	Core Lab(6)	Rajarshi Ray
SEC 4200	Research Methods	SECC (Non- CGPA)	



# Indian Association for the Cultivation of Science

(Deemed to be University under *de novo* Category)

## Class Schedule (Spring Semester-2023) Integrated Master's-PhD Program

Day	10.00 -11.30	11.30 - 13.00	13.00 - 14.00	14.00 - 15.30	15.30-17:00	17.00-18.30
Monday	PHD 243 /AIS 5209, PHD 212/ AIS 5201, <b>PHD 226/ COM 4203</b> , PHD 221/ PHS 5202, PHS 4202, AIS 5207	PHD 205/ CHS 5202E, PHD 206/ CHS 5203C, MAS 5404, PHD 237/CHS 5203B, MAT 4203, AIS 5217/ BIS 5212/PHD 216, PHD 214/ AIS 5204	BREAK	<b>COM 4203</b>	<b>COM 4203</b>	PHD 241/BIS 5203, PHD 201/ CHS 5202A, PHD 239/ COM 5203, PHD 233/PHS 5206, PHS 5210, MAS 5201
Tuesday	PHD 230/BIS 5201/AIS 5202, PHD 203/ CHS 5202C, CHS 5203A/PHD 204, PHS 5203/PHD 222, MAT 5203, PHD 223/ PHS 5214, MAS 5403/PHD 231,	PHD 241/BIS 5203, PHD 201/ CHS 5202A, PHD 239/ COM 5203, PHD 233/PHS 5206, PHS 5210, MAS 5201		PHD 242/ CHS 5201, PHS 5201, PHD 213/ AIS 5203	PHS 5207, COM 5202/PHD 238, PHD 235/BIS 5204, MAT 5222	MAS 5402/PHD 240, COM 5201, MAT 5201
Wednesday	PHD 205/ CHS 5202E, PHD 206/ CHS 5203C, MAS 5404, PHD 237/CHS 5203B, MAT 4203, AIS 5217/ BIS 5212/PHD 216, PHD 214/ AIS 5204, BIS 4202			<b>COM 4203</b>	PHS 5207, COM 5202/PHD 238, PHD 235/BIS 5204, MAT 5222	PHD 230/BIS 5201/AIS 5202, PHD 203/ CHS 5202C, CHS 5203A/PHD 204, PHS 5203/PHD 222, MAT 5203, PHD 223/ PHS 5214, MAS 5403/PHD 231,
Thursday	PHD 242/ CHS 5201, PHS 5201, PHD 213/ AIS 5203	PHD 243 /AIS 5209, PHD 212/ AIS 5201, <b>PHD 226/ COM 4203</b> , PHD 221/ PHS 5202, PHS 4202, AIS 5207		PHD 241/BIS 5203, PHD 201/ CHS 5202A, PHD 239/ COM 5203, PHD 233/PHS 5206, PHS 5210, MAS 5201	PHS 5207, COM 5202/PHD 238, PHD 235/BIS 5204, MAT 5222	MAS 5402/PHD 240, COM 5201, MAT 5201
Friday	PHD 205/ CHS 5202E, PHD 206/ CHS 5203C, MAS 5404, PHD 237/CHS 5203B, MAT 4203, AIS 5217/ BIS 5212/PHD 216, PHD 214/ AIS 5204, BIS 4202	MAS 5402/PHD 240, COM 5201, MAT 5201		PHD 230/BIS 5201/AIS 5202, PHD 203/ CHS 5202C, CHS 5203A/PHD 204, PHS 5203/PHD 222, MAT 5203, PHD 223/ PHS 5214, MAS 5403/PHD 231,	PHD 243 /AIS 5209, PHD 212/ AIS 5201, <b>PHD 226/ COM 4203</b> , PHD 221/ PHS 5202, PHS 4202, AIS 5207	PHD 242/ CHS 5201, PHS 5201, PHD 213/ AIS 5203, BIS 4202

Code	Course	Instructor	Venue
AIS 5201/PHD 212	Supramolecular and Macromolecular Biomaterial	Suhrit Ghosh	C-230
AIS 5202/ BIS 5201/PHD 230	Disease Biology	Partha Chakraborty (IICB) & Siddhartha S Jana	TRC 502
AIS 5203/PHD 213	Liquid Crystals and Display	Somobrata. Acharya	TRC 502
AIS 5204/PHD 214	Advanced Energy Systems and Applications	Anuja Datta	C-404
AIS 5207	Physics and Chemistry of Fluids	KDM Rao	TRC 503
AIS 5209/PHD 243	Neurophysiology	Sanjit Dey (CU) and Tushar kanti Ghosh (CU)	Raychaudhuri Hall
BIS 4202	Molecular Microbiology	Dr. Ritesh Ranjan Pal	A31
BIS 5203/PHD 241	Imaging: In Vivo & In Vitro	Deepak K Sinha	Raychaudhuri Hall
BIS 5204/PHD 235	Delivery of Bioactives	Prasanta K Das	Raychaudhuri Hall
BIS 5212/AIS 5217/PHD 216	Epigenetics	Chandrima Das (SINP) & Benu Brata Das	Raychaudhuri Hall
CHS 5201/PHD 242	Physical Methods in Chemistry-II	Abhishek Dey	C-230
CHS 5202A/PHD 201	Bioinorganic Chemistry	Somdatta Ghosh Dey	C-230
CHS 5202C/PHD 203	Colloids, Interfaces and Macromolecules	Tarun Kumar Mandal	Raychaudhuri Hall
CHS 5202E/PHD 205	Advanced Statistical Mechanics	Avisek Das	Room No. 95 (Main Building)
CHS 5203A/PHD 204	Advanced Quantum Chemistry	Sankar P Bhattacharyya & Satrajit Adhikari	C-230
CHS 5203B/PHD 237	Chemical Crystallography - Basic Theory to Structure Solution and Refinement	Parthasarathi Dastidar	C-230
CHS 5203C/PHD 206	Asymmetric Catalysis and Synthesis	Joyram Guin	TRC 502
COM 4203/PHD 226	Introduction to Machine Learning	Debapriyay Mukhopadhyay	A22
COM 5201	Cryptography and Information Security	Pratap Chandra Mandal	TRC 503
COM 5202/PHD 238	Compiler Construction	Goutam Biswas	TRC 502

COM 5203/PHD 239	Social & Complex Networks	Partha Basuchowdhuri	Room No. 95 (Main Building)
MAS 5201	Characterization of Materials	Narayan Pradhan & PK	TRC 503
MAS 5402/PHD 240	Optoelectronic Materials and Devices	Shyamal K Saha & PK	TRC 502
MAS 5403/PHD 231	Vacuum Science, Thin Films and Solar Cell Technology	Subodh K De	Room No. 95 (Main Building)
MAS 5404	Materials for Energy	Shyamal K Saha & Urmimala Maitra	TRC 503
MAT 4203	Curves and Surfaces	Dr. Sayani Bera	A12
MAT 5201	Partial Differential Equations	J. Sengupta	C-230
MAT 5203	Operator Theory	Mithun Mukherjee	TRC 503
MAT 5222	Representation theory on locally compact groups	Dr. Sayan Chakraborty (Guest faculty, ISI)	TRC 503
PHS 4202	Mathematical Methods-II	Prof. Sourav Roy	TRC 504
PHS 5201	Nuclear and Particle Physics	Debades Bandyopadhyay	C-404
PHS 5202/PHD 221	Quantum Field Theory -II	Utpal Chattopadhyay	C-404
PHS 5203/PHD 222	Advanced Condensed Matter Physics	Indra Dasgupta	C-404
PHS 5206/ PHD 233	Light-Matter Interactions	Bimalendu Deb	C-404
PHS 5207	Physics of Black Holes and Gravitational Waves	Soumira Sengupta & Sumanta Chakraborty	C-404
PHS 5210	Statistical Field Theory	Arnab Sen	C-406
PHS 5214/PHD 223	Particle Physics	Dilip Kumar Ghosh	C-406