## **APPENDIX L**

# Time Table Department of Physics

for

B.S (2<sup>nd</sup> Year Onwards)
M.Sc. / MS
Ph.D

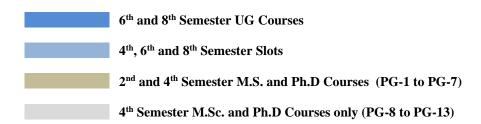
### **PHY Department**

### 4th / 6th / 8th and PG (including M.Sc.) Even Semester Time Table

Section for 4<sup>th</sup> Semester Courses PHY: D19(13), D20(30)

			2001		Semester C	0021505111		=== (==);	<b>D</b> 20(0)	,,		
Day	Semester	8:00-8:50	9:00-9:50	10:00-10:50	11:00-11:50	12:00-12:50		14:00-14:50	15:00 -	15:50	16:00 – 16:50	17:10-18:00
	4 <sup>th</sup>	HSS-1 (L)	MSO201			PSO201 (L)						ESC201 (L)
M	6 <sup>th</sup>	DE-4 OE-4	OE-1	PHY412 (L)  HSS-II (1)  OE (T)  DE (T)	PHY473 (L)  HSS-II (2)  OE-10  DE-10  PHY205M	DE-1 (L) [12:00 – 13 :1 5] PHY690J		DE-' OE-' [14:00 – 1 PHY69 PHY7	7 15:15] 00 <b>Z</b>		DE-8 OE-8 5:35 – 16:50] PHY690M PHY622	OE-2 [17:10 – 18:25] PHY406 PHY307
	10 <sup>th</sup> / PG	PG-15 PHY692	PG-7 PG (T) PHY600 PHY526 (T)		PG-2 PHY649	PG-4 PHY524 12:00-13:15]		PG-10a PG-1		PG-12a 62 LAB. [14:00 – 17:50]		PG-8 [17:10 – 18:25] PHY665 PHY624
	4 <sup>th</sup>	HSS-1 (T)			PHY210M (L) PHY226M (L)			ESC201 LAB. [D19(13), D20] [14:00 – 16:50]				ESC201 (T)
Т	6 <sup>th</sup>		DE-1 (L) [9:00 – 10:15] PHY690J	DE-2 (L) [10:35 – 11:50]		DE-3 (L) [12:00 – 13 :1 5]		DE-5 OE-5 [14:00 – 15:15]		[1	DE-6 OE-6 5:35 – 16:50]	OE-3 [17:10 – 18:25]
		DC 44				ng (			PHY462 LAB. [14:00 – 17:50] PHY692 LAB [14:00-16:50]			
	10 <sup>th</sup> / PG	PG-14 PHY422 PHY552	PG-4 PHY524 [9:00 – 10:15]	PG-5 PHY526 [10:35 – 11:50]		PG-6 PHY432 [12:00 – 13:15]		PG-10a PG-13a PG-11a PHY602 (T)		PG-9 [17:10 – 18:25] PHY676 PHY680 PHY661		
	4 <sup>th</sup>	HSS-1 (L)	MSO201 (T)		PHY210M (T) PHY226M (T)	PSO201 (T)						ESC201 (L)
	6 <sup>th</sup>			PHY412(L)	USS II (2)	HSS-II (3) DE-3 (L)		DE-			DE-8	OE-2
W	8 <sup>th</sup>	DE-4 OE-4	OE-1	HSS-II (1)  OE (T)  DE (T)	OE (T) DE (T)	[12:00 – 13 :1 5]		OE-7 [14:00 – 15:15] PHY690Z PHY781			OE-8 5:35 – 16:50] PHY690M PHY622	[17:10 – 18:25] PHY406 PHY307
		20.45	PG-7			PG-6			PHY462 LAB. [14:00 – 17:50]			
	10 <sup>th</sup> / PG	PG-15 PHY692 PHY552(T)	PHY678 PHY607	PG (T)	PG (T) PHY422 (T)	PHY432 [12:00 – 13:15]		PG-12a	PG-1	3a	PG-11a <del>PHY602 (T)</del>	PG-8 [17:10 – 18:25] PHY665 PHY624
	4 <sup>th</sup>	HSS-1 (L)	MSO201 (L)		PHY210M (L) PHY226M (L)	PSO201 (L)						ESC201 (L)
	6 <sup>th</sup>			HSS-II (2) PHY473 (L)	HSS-II (3)	DE-2 (L) II (3) [12:00 –		PHY412 (L) PHY473 LAB. [15:00 – 17:50]				
ТН	8 <sup>th</sup>		OE (T) DE (T)	OE-10 DE-10 PHY205M	OE (T) DE (T)	13 :1 5]		DE-4 OE-4				OE-3 [17:10 – 18:25]
	10 <sup>th</sup> / PG	PG-14 PHY422 PHY552	PG (T) PHY678 PHY607 PHY432 (T)	PG-2 PHY649	PG (T)	PG-5 PHY526 [12:00 – 13:15]		PG-15 PHY692		РНУ6	92 LAB. [14:00 – 1	PG-9 [17:10 – 18:25] PHY680 PHY676 PHY661
	4 <sup>th</sup>		MSO201 (L)		PHY210M (L) PHY226M (L)							
F	6 <sup>th</sup>		OE-1	PHY473 (L) HSS-II (2) OE-10 DE-10 PHY205M	HSS-II (3) OE (T) DE (T)	PHY412 (T)  HSS-II (1)  OE (T)  DE (T)		DE-: OE-: [14:00 – 1	5	[1	DE-6 OE-6 5:35 – 16:50]	OE (T) DE (T)
	10 <sup>th</sup> / PG	PG-14	PG-7	PG-2	PG (T)	PG (T)		РНҮ4		62 LAB		
	10 / PG	PHY422 PHY552	PHY678 PHY607	PHY649	-0 (2)	PHY524 (T)		PG-10a	PG-1	3a	PG-12a	PG (T)

4<sup>th</sup> Semester UG Courses
6<sup>th</sup> Semester UG Courses
8<sup>th</sup> Semester UG Courses



### **Even Semester:** Slot Assignments

OE-1:	Lec. MWF9:00 – 10:00;
OE-2:	Lec. MW17:10 – 18:25;
OE-3:	Lec. TTh17:10 – 18:25;
OE-4:	Lec. MW8:00, Th14:00;
OE-5:	Lec. TF14:00 – 15:15;
OE-6:	Lec. TF15:35 – 16:50;
OE-7:	Lec. MW14:00 – 15:15;
OE-8:	Lec. MW15:35 – 16:50;
OE-10:	Lec. M11:00,ThF10:00;
OE (T):	Tut. MW10:00, WThF11:00, F12:00; Th9:00, F17:10
DE-1:	Lec. M12:00-13:15; T9:00-10:15;
DE-2:	Lec. T10:35-11:50, Th12:00-13:15;
DE-3:	Lec. T12:00-13:15, W12:00-13:15;
DE-4:	Lec. MW8:00, Th14:00;
DE-5:	Lec. TF14:00 – 15:15;
DE-6:	Lec. TF15:35 – 16:50;
DE-7:	Lec. MW14:00 – 15:15;
DE-8:	Lec. MW15:35 – 16:50;
DE-10:	Lec. M11:00,ThF10:00;
DE (T):	Tut. MW10:00, WThF11:00, F12:00; Th9:00, F17:10

PG-2:	M11:00, ThF10:00;
PG-4:	T9:00-10:15, M12:00-13:15
PG-5:	T10:35-11:50, Th12:00-13:15;
PG-6:	T12:00-13:15, W12:00-13:15;
PG-7:	MWF9:00;
PG-8:	MW17:10-18:25;
PG-9:	TTh17:10-18:25;
PG-10a:	MTF14:00;
PG-11a:	M15:00; TW16:00;
PG-12a:	MF16:00, W14:00;
PG-13a:	TWF15:00
PG-14:	TThF8:00
PG-15:	MW8:00, Th14:00;
PG (T):	Tut. MW10:00, WThF11:00, F12:00; Th9:00, F17:10
PG LAB.:	MTWF14:00 – 17:50

\*PG-1Clashes with PG(T) Slots; 4th hour of PG-4 and PG-9 Clashes with PG (T) Slots

OE: Open Elective/Minor Course Slots;

OE (T): Open Elective Tutorial Slots;

DE: UG Departmental Elective Slots;

DE (T): Departmental Elective Tutorial Slots;

PG: PG Slots;

PG(T): PG Slots that can be used for PG tutorials

HSS-II: Humanities Courses; PG LAB..: PG Laboratory Slots; **Department of Physics: Schedule of Even Semester Courses** 

IIC	Compulsory		(D)					
CG	Compuisory	Courses	( <b>D</b> )					
S.	Course No.	L-T-P-A	Course Title	G THE	Slot	Schedule		
No.	Course No.	(Units)	Course Title	Instructor	Slot	Lecture	Tutorial	Laborator
1.	PHY210M*	3-1-0-0 (06)	Thermal Physics	Koushik Pal	4-3	TThF11:00	W11:00	
2.	PHY226M*	3-1-0-0 (06)	Relativity	Swagata Mukherjee	4-3	TThF11:00	W11:00	
3.	PHY412	3-1-0-0 (11)	Statistical Mechanics	Jayanta K Bhattacharjee	SLOT-6	MW10:00 Th14:00	F12:00	
4.	РНҮ473	3-0-2-0 (11)	Computational Physics	Gopal Hazra	SLOT-2	M11:00 ThF10:00		Th15:00
5.	PHY614 (552)	3-1-0-0 (11)	Classical Electrodynamics	Avinash Singh	PG-15	MW8:00 Th14:00	F11:00	
5.	PSO201	2-1-0-0 (08)	Quantum Physics	Sudipta Dubey	ESO/SO-2	MTh 12:00	W12:00	

<sup>\*</sup>These courses will be offered for B.Tech and BS Y22 Batch only.

UG I List :	Department	al Electiv	es (DE) PG (including M.Sc) courses declared as Depar	tmental Electives	
S. No.	Course No.	L-T-P-A (Units)	Course Title	Instructor	Slot
1	PHY205M	3-0-0-0	Fundamentals of Soft Matter	Manas Khan	DE-10

## **Department of Physics: Schedule of Even Semester Courses**

UG Open Electives (OE)									
List All Courses [D, DE and PG (including M.Sc) Courses] Declared as Open Elective									
S. No.	Course No.	L-T-P-A (Units)	Course Title	Instructor	Slot				
1	PHY307	3-0-0-0 (9)	Modern Optics	R. Vijaya	OE-1				
2	PHY406	3-0-0-0 (9)	Introduction to Quantum Materials	Adhip Agarwala	OE-2				

	Minors	ID DE (	DE and PG (including M.Sc) courses] Declared	os Minor	
S. No.	Course No.	L-T-P-A (Units)	Course Title	Instructor	Slot
1.	PSO201	2-1-0-0 (08)	Quantum Physics	Sudipta Dubey	ESO/SO-2
2.	PHY210M	3-1-0-0 (06)	Thermal Physics	Koushik Pal	4-3
3.	PHY226M	3-1-0-0 (06)	Relativity	Swagata Mukherjee	4-3
4.	PHY412	3-1-0-0 (11)	Statistical Mechanics	Jayanta K Bhattacharjee	SLOT-6

Department of Physics: Schedule of Even Semester Courses

PG Courses [List all PG (including M.Sc.) courses, including those declared DE, OE or part of minor]

S. Vo.	Course No.	L-T-P-A (Units)	Course Title	Instructor	Slot	Tutorial
1	PHY626(432)	3-1-0-0 (11)	Quantum Mechanic – II	Debtosh Chowdhury	PG-6	Th11:00
2	PHY462	0-0-8-0 (08)	Experimental Physics Lab	Zakir Hossain		
3	PHY625(422)	3-1-0-0 (11)	Mathematical Methods - II	Kaushik Bhattacharya	PG-14	W11:00
5	PHY612(524)	3-1-0-0 (11)	Atomic, Molecular and Optical Physics	Saikat Ghosh	PG-4	F12:00
6	PHY611(526)	3-1-0-0 (11)	Nuclear and Particle Physics	Navaneeth P.	PG-5	M10:00
7	PHY600	1-0-0-0 (03)	Introduction to profession and communication skills for physicists	Manoj K Harbola	PG-7	-
8	PHY607	3-0-0-0 (9)	Quantum Many Body Systems	Arijit Kundu	PG-7	
9	PHY624	3-0-0-0 (9)	Magnetism in Materials	Soumik Mukhopadhyay	PG-8	
	PHY622	3-0-0-0 (9)		Sudip Ghosh	OE-8	
10	PHY649	3-0-0-0 (9)	Photonic Green Nanotechnology	S. A. Ramakrishna	PG-2	
11	PHY661	3-0-0-0 (9)	Turbulence in Space Plasma	Supratik Banerjee	PG-9	
12	PHY665	3-0-0-0	Uncertainly Information and Classical Dynamics	Sagar Chakraborty	PG-8	
13	PHY676	3-0-0-0 (9)	Quantum Technology	S. Ranjita Chanu	PG-9	
14	PHY678	3-0-0-0 (9)	Nanomagnetism Spintronics and Applications	Rohit Medwal	PG-7	
15	PHY680	3-0-0-0 (9)	Particle Physics	Sabyasachi Chakraborty	PG-9	
16	PHY690J	3-0-0-0 (9)	Group Theory and its Application to High Energy Physics	Joydeep Chakrabortty	DE-1	
	PHY690M	3-0-0-0 (9)	Advanced General Relativity and Black Holes	Tapobrata Sarkar	OE-8	
17	PHY690Z	3-0-0-0 (9)	Tapestry of Field Theories: Classical and Quantum, Equilibrium and Non-equilibrium Perspectives	Mahendra K Verma	OE-7	
18	PHY692	2-0-6-0 (12)	Measurement Techniques	Aditya H Kelkar	PG-14	
19	PHY781	3-0-0-0 (9)	High Energy Physics – II	Arjun Bagchi	OE-7	

## **Department of Physics: Schedule of Even Semester Courses**

PG Courses [List all PG (including M.Sc) courses, including those declared DE, OE or part of minor]									
S. No.	Course No.	L-T-P-A (Units)	Course Title	Instructor	Slot				
PG (i	ncluding	M.Sc.) La	boratory						
S.	Course	L-T-P-A	Course Title	Instructor	Laboratory				
No.	No.	(Units)	Course Title	Instructor	Schedule				
1	PHY462	0-0-8-0 (08)			MTWF14:00				
2	РНҮ692	1-0-8-0 (11)			TTh14:00				
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#### **General Instructions:**

The timings of UG compulsory, some UG elective (DE/OE/Minor courses) and some PG (including M.Sc/MS) courses are fixed and cannot be changed by the department

Other courses being offered by the department may be scheduled only in the slots provided for this purpose, after due consideration to the schedules of the fixed courses.

The forms above should be filled before pre-registration for a semester and submitted to the OARS office. The information provided will be transferred to OARS before the pre-registration date.

No course shall be scheduled except in the slots provided. A course for which no slot is specified or a course which is not scheduled appropriately in a slot will not be listed in OARS. This is absolutely essential to ensure that mid semester and end semester examination time tables can be generated based on the time table.

#### **Instructions for Scheduling DE Courses**

- 1. All declared DE (departmental elective) courses (including PG courses declared as DE) must be scheduled preferably in DE-1, DE-2 and DE-3 slots.
- 2. If indicated in the departmental time table, slots DE-4 to DE-11 may also be used for scheduling DE courses.
- 3. If required, a department may schedule more than one DE course in each of the assigned DE slots.
- 4. All declared DE courses must be scheduled as above, <u>unless it has also been declared</u> an **OE\*** or part of a minor.
- 5. If allowed by the department, students may also take departmental courses not declared as DE to fulfill the departmental elective requirements. Such courses need not necessarily be scheduled in the DE slots.

#### **Instructions for Scheduling OE or Minor Courses**

All UG or PG courses (other than UG core and ESO/SO courses) which have been declared an OE or part of a minor, by the department must be scheduled preferably in the OE-1 – OE-3 slots of the time table. OE-4 to OE-11 may be used as a second preference if so indicated in the time table. OE/Minor courses include the following type of courses,

- **Departmental UG Compulsory Course (D)** which has also been declared an OE or part of a minor.
- Departmental PG Course (PG) which has also been declared an OE or part of a minor
- **Departmental UG Elective course (DE)** which has also been declared an OE or part of a minor.
- **Departmental UG Course which is not a D or DE** but which has been declared an OE or part of a minor.

\*OE or Minor: These are courses for which it has been declared that students from other departments can register.

(Students from other departments can also register in courses which have <u>not</u> been declared as OE with the consent of the instructor. Such courses (which have not been declared as OE) need not be scheduled in the OE slot).

#### **Instructions for Scheduling PG Courses**

- 1. PG courses declared as OE or part of a minor to be scheduled in OE slot.
- 2. PG courses declared as DE must be scheduled in DE slot unless also declared OE or part of a minor.

Other PG courses must be scheduled as follows,

- For the benefit of dual degree students, 1<sup>st</sup> year M. Tech./M.Sc/MS courses must be scheduled only in the specific PG slots indicated for this purpose in the time table.
- Other PG courses can be scheduled in all indicated PG slots in the time table.
- PG laboratories must be scheduled only in the slots indicated in the time table.
- If required, more than 1 PG course/lab may be scheduled in each PG slot.