

APPENDIX L

Time Table Department of Physics

for

B.S (2nd Year Onwards)

M.Sc. / MS

Ph.D

PHY Department
4th / 6th / 8th and PG (including M.Sc.) Even Semester Time Table
Section for 4th Semester Courses PHY: D12(28)

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
M	4 th					PSO201 (L)				
	6 th		OE-1 PHY303	PHY412 (L)	PHY473 (L)	DE-1 (L) PHY524 [12:00 – 13:15]				
	8 th			HSS-II (1)	HSS-II (2)					
	10 th / PG	PG-15 PHY553	PG-7 PHY690V	PG (T) PHY526 (T)	PG-2 PHY634 PHY660			PG-10a PHY680	PG-11a PHY602 (L)	PG-12a PHY604 (L)
							PHY462 LAB. [14:00 – 17:50]			
T	4 th				PHY210a (L) PHY226b (L)					
	6 th		DE-1 (L) PHY524 [9:00 – 10:15]	DE-2 (L) PHY402 [10:35 – 11:50]			DE-5 OE-5 PHY624 [14:00 – 15:15]			
	8 th									
	10 th / PG	PG-14 PHY666 PHY422		PG-5 PHY526 [10:35 – 11:50]	PG-6 PHY432 [12:00 – 13:15]			PG-10a PHY680	PG-13a PHY690M	PG-11a PHY602 (T)
							PHY462 LAB. [14:00 – 17:50]			
W	4 th				PHY210a (T) PHY226b (T)	PSO201 (T)				
	6 th		OE-1 PHY303	PHY412(L)	HSS-II (3)					
	8 th			HSS-II (1)						
	10 th / PG	PG-15 PHY422 (T) PHY553	PG-7 PHY402 (T) PHY690V		PG-6 PHY432 [12:00 – 13:15]			PG-12a PHY604 (T)	PG-13a PHY690M	PG-11a PHY602 (T)
							PHY462 LAB. [14:00 – 17:50]			
TH	4 th				PHY210a (L) PHY226b (L)	PSO201 (L)				
	6 th			HSS-II (2)	HSS-II (3)	DE-2 (L) PHY402 [12:00 – 13:15]	PHY412 (L)	PHY473 LAB. [15:00 – 16:50]		
	8 th									
	10 th / PG	PG-14 PHY666 PHY422	PG (T) PHY604 (T) PHY432 (T)	PG-2 PHY634 PHY660		PG-5 PHY526 [12:00 – 13:15]		PG-15 PHY553		
							PHY462 LAB. [14:00 – 17:50]			
F	4 th				PHY210a (L) PHY226b (L)			PHY399 LAB. [14:00 – 15:50]		
	6 th		OE-1 PHY303	PHY473 (L)	HSS-II (3)	PHY412 (T)				
	8 th			HSS-II (2)		HSS-II (1)		DE-5 OE-5 PHY624 [14:00 – 15:15]		
	10 th / PG	PG-14 PHY666 PHY422	PG-7 PHY690V	PG-2 PHY634 PHY660		PG (T) PHY524 (T)		PG-10a PHY680	PG-13a PHY690M	PG-12a PHY604 (T)
							PHY462 LAB. [14:00 – 17:50]			

- 4th Semester UG Courses
- 6th Semester UG Courses
- 8th Semester UG Courses
- 6th and 8th Semester UG Courses
- 4th, 6th and 8th Semester Slots
- 2nd and 4th Semester M.S. and Ph.D Courses (PG-1 to PG-7)
- 4th Semester M.Sc. and Ph.D Courses only (PG-8 to PG-13)

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

UG Compulsory Courses (D)								
S. No.	Course No.	L-T-P-A (Units)	Course Title	Instructor	Slot	Schedule		
						Lecture	Tutorial	Laboratory
1.	PHY399	0-0-2-0 (02)	Physics Communication Skills	Y N Mohapatra	--	--	--	F14:00
2.	PHY210a	3-1-0-0 (06)	Thermal Physics	Supratik Banerjee	4-3	TThF11:00	W11:00	--
3.	PHY226b	3-1-0-0 (06)	Relativity	Nilay Kundu	4-3	TThF11:00	W11:00	--
4.	PHY412	3-1-0-0 (11)	Statistical Mechanics	Debashish Chowdhury	SLOT-6	MW10:00 Th14:00	F12:00	--
5.	PHY473	2-0-2-0 (08)	Computational Physics	M K Verma	SLOT-2	M11:00 F10:00	--	Th15:00

UG Departmental Electives (DE)					
List all Courses [OE and PG (including M.Sc) courses declared as Departmental Electives]					
S. No.	Course No.	L-T-P-A (Units)	Course Title	Instructor	Slot
1	PHY303	3-0-0-0 (9)	Principle of Laser & Appl	Harshawardhan Wanare	OE-1
2	PHY402	3-1-0-0 (11)	Classical Mechanics II	Sagar Chakraborty	DE-2 W09:00 (T)
3	PHY422	3-1-0-0 (11)	Mathematical Methods II	Diptarka Das	PG-14 W 08:00 (T)
4	PHY432	3-1-0-0 (11)	Quantum Mechanics II	Dipankar Chakrabarti	PG-6 Th 09:00 (T)
5	PHY524	3-1-0-0 (11)	Atomic, Molecular & Optical Physics	Tarun Kanti Ghosh	DE-1 F12:00 (T)
6	PHY526	3-1-0-0 (11)	Nuclear and Particle Physics	Pankaj Jain	PG-5 M10:00 (T)
7	PHY553	3-1-0-0 (11)	Classical Electrodynamics II	S A Ramakrishna	PG-15 F 17:10 (T)
8	PHY557	0-0-0-9 (9)	BS Project III	Anand Kumar Jha	--
9	PHY558	0-0-0-9 (9)	BS Project IV	Anand Kumar Jha	--
10	PHY590	0-0-0-9 (9)	Special Topics in Physics	DUGC Convener	--
11	PHY606	3-0-0-0 (9)	Soft Matter Physics: Overview & Experimental Techniques	Manas Khan	PG-8
12	PHY624	3-0-0-0 (9)	Magnetism in Materials	Soumik Mokhopadhyay	DE-5
13	PHY634	3-0-0-0 (9)	Low Temperature Physics	Zakir Hossain	PG-2
14	PHY660	3-0-0-0 (9)	Gravitation and Cosmology	Kaushik Bhattacharya	PG-2
15	PHY666	3-1-0-0 (11)	Quantum Chaos	Pragya Shukla	PG-14
16	PHY680	3-0-0-0 (9)	Particle Physics	J. Chakraborty	PG-10a
17	PHY690M	3-0-0-0 (9)	Advanced General Relativity and Black Holes	Gautam Sengupta	PG-13a
18	PHY690N	3-0-0-0 (9)	Correlated Electrons & Quantum Magnetism	Avinash Singh	PG-9
19	PHY690V	3-0-0-0 (9)	Photonic Devices	R Vijaya	PG-7

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	PHY204 / PSO 201	2-1-0-0 (8)	Quantum Physics	Anjan Kumar Gupta	ESO/SO-2
2	PHY210a	3-1-0-0 (06)	Thermal Physics	Supratik Banerjee	4-3
3	PHY226b	3-1-0-0 (06)	Relativity	Nilay Kundu	4-3
4	PHY 303	3-0-0-0 (9)	Principles of Laser and Applications	Harshawardhan Wanare	OE-1
6	PHY412	3-1-0-0 (11)	Statistical Mechanics	Debasish Chowdhury	SLOT-6

UG Minors					
List All Courses [D, DE, OE and PG (including M.Sc) courses] Declared as Minor					
S. No.	Course No.	L-T-P-A (Units)	Course Title	Instructor	Slot
1.	PHY204/ PSO201	2-1-0-0 (08)	Quantum Physics	Anjan Kumar Gupta	ESO/SO-2
2.	PHY210a	3-1-0-0 (06)	Thermal Physics	Supratik Banerjee	4-3
3.	PHY226b	3-1-0-0 (06)	Relativity	Nilay Kundu	4-3
4.	PHY412	3-1-0-0 (11)	Statistical Mechanics	Debasish Chowdhury	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. No.	Course No.	L-T-P-A (Units)	Course Title	Instructor	Slot	Tutorial
1	PHY412	3-1-0-0 (11)	Statistical Mechanics	Debasish Chowdhury	SLOT-6	F 12:00
	PHY402	3-1-0-0 (11)	Classical Mechanics II	Sagar Chakrabarti	DE-2	W 09:00
2	PHY422	3-1-0-0 (11)	Mathematical Methods II	Diptarka Das	PG-14	W 08:00
3	PHY432	3-1-0-0 (11)	Quantum Mechanics II	Dipankar Chakrabarti	PG-6	Th 09:00
4	PHY461	0-0-8-0 (08)	Experimental Physics I	Saikat Ghosh	--	--
5	PHY462	0-0-8-0 (08)	Experimental Physics II	Saikat Ghosh	--	--
6	PHY473	2-0-2-0 (08)	Computational Physics	M K Verma	SLOT-2	--
7	PHY500	0-0-0-9 (9)	MSc Review Project I	Sudeep Bhattacharjee	--	--
8	PHY501	0-0-0-9 (9)	MSc Review Project II	Sudeep Bhattacharjee	--	--
9	PHY502	0-0-0-9 (9)	MSc Review Project III	Sudeep Bhattacharjee	--	--
10	PHY524	3-1-0-0 (11)	Atomic, Molecular & Optical Physics	Tarun Kanti Ghosh	DE-1	F12:00
11	PHY526	3-1-0-0	Nuclear and Particle Physics	Pankaj Jain	PG-5	M10:00

		(11)				
12	PHY553	3-1-0-0 (11)	Classical Electrodynamics II	S A Ramakrishna	PG-15	F 17:10
13	PHY566	0-0-0-9 (9)	MSc Project III	Rajeev Gupta	--	--
14	PHY568	0-0-0-9 (9)	MSc Project IV	Rajeev Gupta	--	--
15	PHY590	0-0-0-9 (9)	Special Topics in Physics	DUGC Convener	--	--
16	PHY599	0-0-0-27 (27)	MSc Research Project	Dipankar Chakrabarti	--	--
17	PHY602	1-3-0-0 (09)	Review of Quantum Physics II	Tapobrata Sarkar	M 15:00	TW16:00 F17:10
18	PHY604	1-3-0-0 (09)	Review of Statistical Physics	Amit Kr. Agarwal	M 16:00	W14:00, Th9:00, F16:00
19	PHY606	3-0-0-0 (9)	Soft Matter Physics: Overview & Experimental Techniques	Manas Khan	PG-8	--
20	PHY624	3-0-0-0 (9)	Magnetism in Materials	Soumik Mokhopadhyay	DE-5	--
	PHY634	3-0-0-0 (9)	Low Temperature Physics	Zakir Hossain	PG-2	
21	PHY660	3-0-0-0 (9)	Gravitation and Cosmology	Kaushik Bhattacharya	PG-2	--
22	PHY666	3-0-0-0 (9)	Quantum Chaos	Pragya Shukla	PG-14	--
23	PHY680	3-0-0-0 (9)	Particle Physics	J. Chakraborty	PG-10a	--
24	PHY690M	3-0-0-0 (9)	Advanced General Relativity and Black Holes	Gautam Sengupta	PG-13a	--
25	PHY690N	3-0-0-0 (9)	Correlated Electrons & Quantum Magnetism	Avinash Singh	PG-9	--
26	PHY690V	3-0-0-0 (9)	Photonic Devices	R Vijaya	PG-7	--
27	PHY699	0-0-0-27 (27)	MSc Research Project	Dipankar Chakrabarti	--	--
28	PHY799	--	Research	DPGC	--	--

Department of Physics: Schedule of Even Semester Courses

PG (including M.Sc.) Laboratory					
S. No.	Course No.	L-T-P-A (Units)	Course Title	Instructor	Laboratory Schedule
1	PHY461	0-0-8-0 (08)	Experimental Physics I	Saikat Ghosh	MTWF14:00
2	PHY462	0-0-8-0 (8)	Experimental Physics II	Saikat Ghosh	MTWF14:00
3	PHY473	2-0-2-0 (8)	Computational Physics	M. K. Verma	Th15:00

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, **unless it has also been declared 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 **not** 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, 1st 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.