

APPENDIX L

Time Table Department of Physics

for

B.S (2nd Year Onwards)

M.Sc. / MS

Ph.D

PHY Department
3rd / 5th / 7th and PG (Including M.Sc.) Odd Semester Time Table
Section for 3rd 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	3 rd	HSS-I								
	5 th	PHY315	PHY431 [9:00 – 10:15]			PHY421 [12:00 – 13:15]				
	7 th	PHY303	PHY690G [9:00 – 10:15]	PHY690T		PHY670	PHY307			HSS-II (1) PHY552 (T)
	9 th / PG	PHY407		PHY543	PHY441	PHY642	PHY441 LAB. [14:00 – 16:50]			
							PHY601	PHY603	PHY631	
T	3 rd									PHY224
	5 th		PHY431 (T)			PHY401 [12:00 – 13:15]	PHY315 LAB. [14:00 – 16:50]			
	7 th	PHY552	PHY303			HSS-II (2)				
	9 th / PG	PHY605(L)	PHY407	PHY543	PHY441(T)		PHY601 (T)	PHY603 (T)	PHY631	
							PHY461 LAB. [14:00 – 17:50] [M.Sc. Students and back loggers]			
W	3 rd	HSS-I								PHY224
	5 th	PHY401 (T)					PHY315 LAB. [14:00 – 16:50]			
	7 th	PHY552	PHY305 [9:00 – 10:15]	PHY2XX [10:35 – 11:50]		HSS-II (2)				HSS-II (1)
	9 th / PG	PHY605(T)	PHY681 [9:00 – 10:15]	PHY651 [10:35 – 11:50]		PHY400	PHY601 (T)			PHY672 PHY690X [17:10 – 18:25]
							PHY461 LAB. [14:00 – 17:50] [M.Sc. Students and back loggers]			
TH	3 rd	HSS-I					PHY224 LAB. (D12) [14:00 – 16:50]			
	5 th		PHY431 [9:00 – 10:15]			PHY421 [12:00 – 13:15]				
	7 th	PHY552	PHY690G [9:00 – 10:15]	PHY690T		PHY670	PHY307			
	9 th / PG	PHY605(T)		PHY543	PHY441	PHY642	PHY461 LAB. [14:00 – 17:50] [B.S. Students]			
						PHY601 (T)	PHY603 (T)	PHY631		
F	3 rd	HSS-I					PHY224 LAB. (D12) [14:00 – 16:50]			
	5 th	PHY421 (T)				PHY401 [12:00 – 13:15]				
	7 th	PHY303	PHY305 [9:00 – 10:15]	PHY2XX [10:35 – 11:50]		HSS-II (2)				HSS-II (1)
	9 th / PG	PHY407	PHY681 [9:00 – 10:15]	PHY651 [10:35 – 11:50]		PHY605(T) PHY543 (T)	PHY603 (T)			PHY672 PHY690X [17:10 – 18:25]
							PHY461 LAB. [14:00 – 17:50] [B.S. Students]			

- 3rd Semester UG Courses
- 5th Semester UG Courses
- 7th Semester UG Courses
- 3rd and 5th Semester UG Courses
- 5th and 7th Semester UG Courses
- 1st and 3rd Semester M.Sc. and Ph.D Courses (PG-1 to PG-6)
- 3rd Semester M.Sc. and Ph.D Courses only (PG-7 to PG-13)

DE, OE and PG courses to be scheduled by the Department in the respective slots provided and strictly as per given instructions.

Odd Semester: Slot Assignments

OE-1: SE-1	Lec. MWF17:00;
OE-2 / DE:	Lec. WF9:00 – 10:15;
OE-3 / DE:	Lec. WF10:35 – 11:50;
OE-4:	Lec. MTh14:00 – 15:15;
OE-5:	Lec. M15:35 – 16:50, T14:00 – 15:15;
OE-6:	Lec. WF15:35 – 16:50;
OE-7: SE-2	Lec. MF8:00, T9:00;
OE (T):	Tut. WF12:00; WF14:00; TTh17:10 (use only for Tutorial not for Lecture)
DE-1:	Lec. MTh9:00 – 10:15;
DE-2:	Lec. MTh10:35 – 11:50
DE-3:	Lec. MTh12:00 – 13:15
DE-4:	Lec. MTh14:00 – 15:15;
DE-5:	Lec. M15:35 – 16:50, T14:00 – 15:15;
DE-6:	Lec. WF15:35 – 16:50;
DE-7:	Lec. MF8:00, T9:00;
DE (T):	Tut. WF12:00; WF14:00; TTh17:10 (use only for Tutorial not for Lecture)

PG-1:	Lec. MF8:00, T9:00;
PG-2a:	Lec. MTTh10:00
PG-3a:	Lec. MTTh11:00
PG-4:	Lec. MTh12:00 – 13:15
PG-5:	Lec. WF9:00 – 10:15;
PG-6:	Lec. WF10:35 – 11:50;
PG-7a:	Lec. MTTh14:00
PG-8a:	Lec. MTTh15:00
PG-9a:	Lec. MTTh16:00
PG-10:	Lec. TWTh8:00
PG-11a:	Lec. MTh10:00, T12:00
PG-12a:	Lec. M1710, WF15:00
PG-13a:	Lec. WF17:10 – 18:25
PG (T):	Tut. WF12:00; WF14:00; TTh17:10 (use only for Tutorial not for Lecture)
PG LAB.:	MTWThF14:00 – 17:50;

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 Odd Semester Courses

UG Compulsory Courses (D)								
S. No.	Course No.	L-T-P-A (Units)	Course Title	Instructor	Slot & Room	Schedule		
						Lecture	Tutorial	Laboratory
1.	PHY224	2-0-6-0 (12)	Optics	S. Ghosh	3-2 T103	TW17:10	--	ThF14:00
2.	PHY401	3-1-0-0 (11)	Classical Mechanics	K. Bhattacharya	HSS-II L9	TF 12:00	W8:00	--
3.	PHY421	3-1-0-0 (11)	Mathematical Methods	A. Bagchi	DE-3 L14	MTh12:00	F8:00	--
4.	PHY431	3-1-0-0 (11)	Quantum Mechanics-I	M. K. Harbola	DE-1 L10	MTh 9:00	T9:00	--
5.	PHY315	1-0-6-0 (09)	Modern Physics Laboratory	Krishnacharya	SLOT-2 T103	M8:00	--	TW14:00
6.	PHY552	3-1-0-0 (11)	Electrodynamics	A. Singh	SLOT-1 FB482	TWTh8:00	M17:10	--
7.	PHY461	0-0-8-0 (08)	Experimental Physics	S. Nandi	--	--	--	TW14:00 ThF14:00

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	PHY2XX (modular)	3-0-0-0 (4.5)	Fundamentals of soft matter	M. Khan	OE-3
2	PHY303	3-0-0-0 (9)	Principals of Lasers and Their Applications	R. Vijaya	OE-7
3	PHY305	3-0-0-0 (9)	Physics of Universe	P. Jain	OE-2
4	PHY307	3-0-0-0 (9)	Modern Optics	S. M. Tripathi	OE-4
5	PHY407	3-0-0-0 (9)	Special and General Relativity	G. Sengupta	PG-1
6	PHY441 /PHY647	2-1-3-0 (11)	Electronics	A. H. Kelkar	PG-3a (MTh11:00) Tut:T11:00
7	PHY543	3-1-0-0 (11)	Condensed Matter Physics I	A. K. Gupta	PG-2a Tut:F12:00
8	PHY555	0-0-0-4 (4)	BS Project I	M. Khan	--
9	PHY556	0-0-0-9 (9)	BS Project II	M. Khan	--
10	PHY590	3-0-0-9 (9)	Special Topics in Physics	M. K. Harbola	--
11	PHY631	3-0-0-9 (9)	Physics of semiconductor nanostructures	Y. N. Mohapatra	PG-9a
12	PHY651	3-0-0-9 (9)	Introduction to astrophysical fluids	Supratik Banerjee	PG-6
13	PHY642	3-0-0-9 (9)	Condensed matter phenomena in low-dimensional systems	T. K. Ghosh	DE-3
14	PHY672	3-0-0-9 (9)	Physics of Turbulence	M. K. Verma	PG-13a
15	PHY681	3-0-0-0 (9)	Quantum Field Theory	D. Chakraborty	PG-5
16	PHY690X	3-0-0-0 (9)	Advanced Quantum and Statistical Mechanics	A. Dutta	PG-13a
17	PHY690G	3-0-0-0 (9)	Coherence and Quantum Entanglement	A. K. Jha	DE-1

18	PHY690T	3-0-0-0 (9)	Superconductivity and Applications	Satyajit Banerjee	DE-2
19	PHY670	3-0-0-0 (9)	Evolutionary game dynamics	S. Chakraborty	DE-3

Department of Physics: Schedule of Odd 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	PHY224	2-0-6-0 (12)	Optics	S. Ghosh	TW17:10 Lab: ThF:14:00
2	PHY2XX (modular)	3-0-0-0 (4.5)	Fundamentals of soft matter	M. Khan	OE-3
3	PHY303	3-0-0-0 (9)	Principals of Lasers and Their Applications	R. Vijaya	OE-7
4	PHY305	3-0-0-0 (9)	Physics of Universe	P. Jain	OE-2
5	PHY307	3-0-0-0 (9)	Modern Optics	S. M. Tripathi	OE-4
6	PHY407	3-0-0-0 (9)	Special and General Relativity	G. Sengupta	PG-1

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	PHY431	3-1-0-0	Quantum Mechanics-I	M. K. Harbola	DE-1

Department of Physics: Schedule of Odd 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	PHY400	--	Introduction to Department	H. Wanare	W12:00	--
2	PHY401	3-1-0-0 (11)	Classical Mechanics	K. Bhattacharya	HSS-II	W8:00
3	PHY407	3-0-0-0 (9)	Special and General Relativity	G. Sengupta	PG-1	---
4	PHY421	3-1-0-0 (11)	Mathematical Methods	A. Bagchi	DE-3	F8:00
5	PHY431	3-1-0-0 (11)	Quantum Mechanics-I	M. K. Harbola	DE-1	T9:00
6	PHY441	2-1-3-0 (11)	Electronics	A. H. Kelkar	PG-3a	T11:00
7	PHY461 /PHY462	0-0-8-0 (8)	Experimental Physics I/II	S. Nandi	TTh14:00 WF14:00	---
8	PHY500, PHY501, PHY502	0-0-0-9 (9)	MSc Review Project I, II, III	A. Pradhan	---	----
9	PHY543	3-1-0-0 (11)	Condensed Matter Physics I	A. K. Gupta	PG-2a	F12:00
10	PHY552	3-1-0-0 (11)	Classical Electrodynamics I	A. Singh	SLOT-1	M15:10
11	PHY555	0-0-0-4 (4)	BS Project I	M. Khan	--	--
12	PHY556	0-0-0-9 (9)	BS Project II	M. Khan	--	--

13	PHY563	0-0-0-11 (11)	MSc Project I	R. Gupta	--	--
14	PHY565	0-0-0-11 (11)	MSc Project II	R. Gupta	--	--
15	PHY590	0-0-0-9 (9)	Special Topics in Physics	M. K. Harbola	--	--
16	PHY598 /PHY698	0-0-0-27 (27)	MSc Research Project I	Z. Hossain	--	--
17	PHY599 /PHY699	0-0-0-27 (27)	MSc Research Project II	Z. Hossain	--	--
18	PHY601	1-3-0-0 (09)	Review of Classical Mechanics	A. Kundu	PG-7a (M14:00)	TWTh14:00
19	PHY603	1-3-0-0 (09)	Review of Classical Electrodynamics	V. Subramaniyam	PG-8a (M15:00)	TTh15:00 F14:00
20	PHY605	1-3-0-0 (09)	Review of Mathematical Methods	J. Chakraborty	PG-10 (T8:00)	WTh8:00 F12:00
21	PHY631	3-0-0-9 (9)	Physics of semiconductor nanostructures	Y. N. Mohapatra	PG-9a	--
22	PHY651	3-0-0-9 (9)	Introduction to astrophysical fluids	Supratik Banerjee	PG-6	--
23	PHY642	3-0-0-9 (9)	Condensed matter phenomena in low- dimensional systems	T. K. Ghosh	DE-3	--
24	PHY672	3-0-0-9 (9)	Physics of Turbulence	M. K. Verma	PG-13a	--
25	PHY681	3-0-0-0 (9)	Quantum Field Theory	D. Chakraborty	PG-5	--
26	PHY690X	3-0-0-0 (9)	Advanced Quantum and Statistical Mechanics	A. Dutta	PG-13a	--
27	PHY690G	3-0-0-0 (9)	Coherence and Quantum Entanglement	A. K. Jha	DE-1	--
28	PHY690T	3-0-0-0 (9)	Superconductivity and Applications	Satyajit Banerjee	DE-2	--
29	PHY670	3-0-0-0 (9)	Evolutionary game dynamics	S. Chakraborty	DE-3	--

PG (Including M.Sc) Laboratory

S. No.	Course No.	L-T-P-A (Units)	Course Title	Instructor	Laboratory Schedule
1	PHY461/ PHY462	0-0-8-0 (08)	Experimental Physics I/II	S. Nandi	TTh14:00 WF14:00
2	PHY441 /PHY647	2-1-3-0 (11)	Electronics	A. H. Kelkar	M14:00

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. DE courses may also be scheduled in OE-2 and OE-3 slots. However, this must be avoided as far as possible.
4. If required, a department may schedule more than one DE course in each of the assigned DE slots.
5. All declared DE courses must be scheduled as above, **unless it has also been declared an OE* or part of a minor.**
6. 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.