

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									
	5 th	PHY315	PHY431 [9:00 – 10:15]			PHY421 [12:00 – 13:15]				
	7 th			PHY690C PHY690X [10:35 – 11:50]						PHY305 PHY552 (T)
	9 th / PG	PHY407		PHY543	IDC600 PHY441		PHY441 LAB. [14:00 – 16:50]			
T	3 rd									PHY224
	5 th		PHY431 (T)			PHY401 [12:00 – 13:15]	PHY315 LAB. [14:00 – 16:50]			
	7 th	PHY552						PHY690Y [15:35 – 16:50]		
	9 th / PG	PHY605	PHY407	PHY543	IDC600 PHY441(T)		PHY601 (T)	PHY603 (T)		PHY461 LAB. [14:00 – 17:50] [M.Sc. Students and back loggers]
W	3 rd									PHY224
	5 th	PHY401 (T)					PHY315 LAB. [14:00 – 16:50]			
	7 th	PHY552	PHY303 [9:00 – 10:15]		PHY301 [10:35 – 11:50]					PHY305
	9 th / PG	PHY605 (T)	PHY681 PHY690G [9:00 – 10:15]		PHY632		PHY601 (T)			PHY690T PHY781 [17:10 – 18:25]
TH	3 rd						PHY224 LAB. (D12) [14:00 – 16:50]			
	5 th		PHY431 [9:00 – 10:15]			PHY421 [12:00 – 13:15]				
	7 th	PHY552			PHY690C PHY690X [10:35 – 11:50]			PHY690Y [15:35 – 16:50]		
	9 th / PG	PHY605 (T)		PHY543	IDC600 PHY441		PHY601 (T)	PHY603 (T)		PHY461 LAB. [14:00 – 17:50] [B.S. Students]
F	3 rd						PHY224 LAB. (D12) [14:00 – 16:50]			
	5 th	PHY421 (T)				PHY401 [12:00 – 13:15]				
	7 th		PHY303 [9:00 – 10:15]		PHY301 [10:35 – 11:50]					PHY305
	9 th / PG	PHY407	PHY681 PHY690G [9:00 – 10:15]		PHY632	PHY543 (T) PHY605 (T)	PHY603 (T)			PHY690T PHY781 [17:10 – 18:25]

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	PHY315	1-0-6-0 (09)	Modern Physics Laboratory	R. Gupta	SLOT-2 T103	M8:00	--	TW14:00
3	PHY401	3-1-0-0 (11)	Classical Mechanics	S. M. Tripathi	HSS-II L9	TF 12:00	W8:00	--
4	PHY421	3-1-0-0 (11)	Mathematical Methods	A. Bagchi	DE-3 L14	MTh12:00	F8:00	--
5	PHY431	3-1-0-0 (11)	Quantum Mechanics-I	V. Subramaniam	DE-1 L10	MTh 9:00	T 9:00	--
6	PHY461	0-0-8-0 (08)	Experimental Physics	S. A. Ramakrishna	--	--	--	TW14:00 ThF14:00
7	PHY552	3-1-0-0 (11)	Electrodynamics	S. Nandi	SLOT-1 FB482	TWTh8:00	M17:10	--

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	PHY301	3-0-0-0 (9)	Energy	K P Rajeev	OE-3
2	PHY303	3-0-0-0 (9)	Principals of Lasers and Their Applications	R. Vijaya	OE-2
3	PHY305	3-0-0-0 (9)	Physics of Universe	K. Bhattacharya	OE-1
4	PHY407	3-0-0-0 (9)	Special and General Relativity	G Sengupta	PG-1
5	PHY441 /PHY647	2-1-3-0 (11)	Electronics	A H Kelkar	PG-3a (MTh11:00) Tut:T11:00
6	PHY543	3-1-0-0 (11)	Condensed Matter Physics I	A Kundu	PG-2a Tut:F12:00
7	PHY555	0-0-0-4 (4)	BS Project I	A Pradhan	--
8	PHY556	0-0-0-9 (9)	BS Project II	A Pradhan	--
9	PHY590	0-0-0-9 (9)	Special Topics in Physics	M K Harbola	--
10	PHY632	3-0-0-0 (9)	Transport in Mesoscopic Systems	A K Gupta	PG-6
11	PHY681	3-0-0-0 (9)	Quantum Field Theory	D. Chakraborty	PG-5
12	PHY690C	3-0-0-0 (9)	Lasers and Detectors	H. Wanare	DE-2
13	PHY690G	3-0-0-0 (9)	Coherence and Quantum Entanglement	A K Jha	PG-5
14	PHY690T	3-0-0-0 (9)	Superconductivity and Applications	S Banerjee	PG-13a
15	PHY690X	3-0-0-0 (9)	Advanced Quantum and Statistical Mechanics	A Dutta	DE-2
16	PHY690Y	3-0-0-0 (9)	Thermal Physics at Nano-scale	D Chowdhury	DE-6

17	IDC600	3-0-0-0 (9)	Introduction to HPC for Scientists and Engineers	M K Verma	PG-3a
18	IDC601	3-0-0-0 (9)	Dynamical Systems and Chaos	S Chakraborty	Course Dropped
19	PHY781	3-0-0-0 (9)	High Energy Physics II	J Chakraborty	PG-13a

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	PHY301	3-0-0-0 (9)	Energy	K P Rajeev	OE-3
3	PHY303	3-0-0-0 (9)	Principals of Lasers and Their Applications	R. Vijaya	OE-2
4	PHY305	3-0-0-0 (9)	Physics of Universe	K. Bhattacharya	OE-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	V. Subramaniam	DE-1 T9:00

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	S Bhattacharjee	F:14:00	--
2	PHY401	3-1-0-0 (11)	Classical Mechanics	S. M. Tripathi	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	V Subrahmanyam	DE-1	T9:00
6	PHY441	2-1-3-0 (11)	Electronics	A H Kelkar	PG-3a (MTh11:00)	T11:00
7	PHY461 /PHY462	0-0-8-0 (8)	Experimental Physics I/II	S. A. Ramakrishna	TW14:00 ThF14:00	--
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 Kundu	PG-2a	F12:00
10	PHY552	3-1-0-0 (11)	Classical Electrodynamics I	S Nandi	SLOT-1 (TWTh8:00)	M17:10
11	PHY555	0-0-0-4 (4)	BS Project I	A Pradhan	--	--
12	PHY556	0-0-0-9 (9)	BS Project II	A Pradhan	--	--

13	PHY563	0-0-0-11 (11)	MSc Project I	M K Harbola	--	--
14	PHY565	0-0-0-11 (11)	MSc Project II	M K Harbola	--	--
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	M K Harbola	--	--
17	PHY599 /PHY699	0-0-0-27 (27)	MSc Research Project II	M K Harbola	--	--
18	PHY601	1-3-0-0 (09)	Review of Classical Mechanics	S. Mukhopadhyay	PG-7a (M14:00)	TWTh14:00
19	PHY603	1-3-0-0 (09)	Review of Classical Electrodynamics	P Jain	PG-8a (M15:00)	TTh15:00 F14:00
20	PHY605	1-3-0-0 (09)	Review of Mathematical Methods	A K Agrawal	PG-10 (T8:00)	WTh8:00 F12:00
21	PHY632	3-0-0-0 (9)	Transport in Mesoscopic Systems	A K Gupta	PG-6	--
22	PHY681	3-0-0-0 (9)	Quantum Field Theory	D. Chakraborty	PG-5	--
23	PHY690C	3-0-0-0 (9)	Lasers and Detectors	H. Wanare	DE-2	--
24	PHY690G	3-0-0-0 (9)	Coherence and Quantum Entanglement	A K Jha	PG-5	--
25	PHY690T	3-0-0-0 (9)	Superconductivity and Applications	S Banerjee	PG-13a	--
26	PHY690X	3-0-0-0 (9)	Advanced Quantum and Statistical Mechanics	A Dutta	DE-2	--
27	PHY690Y	3-0-0-0 (9)	Thermal Physics at Nano-scale	D Chowdhury	DE-6	--
28	IDC600	3-0-0-0 (9)	Introduction to HPC for Scientists and Engineers	M K Verma	PG-3a	--
29	IDC601	3-0-0-0 (9)	Dynamical Systems and Chaos	S Chakraborty	Course Dropped	--
30	PHY781	3-0-0-0 (9)	High Energy Physics II	J Chakraborty	PG-13a	--

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 A Ramakrishna	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.