

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]		PHY205	PHY421 [12:00 – 13:15]				
	7 th							PHY309/SE303 [15:35-16:50]		PHY552 (T)
	9 th / PG	PHY407	PHY631	PHY543	PHY441	PHY613 PHY672 [12:00 – 13:15]		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				HSS-II (2)		PHY309/SE303 [14:00-15:15]		
	9 th / PG		PHY407	PHY543	PHY441(T)	PHY631		PHY601 (T)	PHY603 (T)	PHY605 (T)
W	3 rd				PHY205					PHY224
	5 th	PHY401 (T)						PHY315 LAB. [14:00 – 16:50]		
	7 th	PHY552	PHY307/SE311 [9:00 – 10:15]		PHY305/SE311 [10:35 – 11:50]	HSS-II (2)				
	9 th / PG		PHY670 [9:00 – 10:15]		PHY651 [10:35 – 11:50]			PHY461 LAB. [14:00 – 17:50] [M.Sc. Students and back loggers]		
TH	3 rd								PHY224 LAB. (D12) [14:00 – 16:50]	
	5 th		PHY431 [9:00 – 10:15]		PHY205 (T)	PHY421 [12:00 – 13:15]				
	7 th	PHY552								
	9 th / PG		PHY631	PHY543	PHY441	PHY613 PHY672 [12:00 – 13:15]		PHY601 (T)	PHY603 (T) PHY400	PHY605 (T)
F	3 rd									PHY224 LAB. (D12) [14:00 – 16:50]
	5 th	PHY421 (T)			PHY205	PHY401 [12:00 – 13:15]				
	7 th		PHY307/SE311 [9:00 – 10:15]		PHY305/SE311 [10:35 – 11:50]	HSS-II (2)				
	9 th / PG	PHY407	PHY670 [9:00 – 10:15]		PHY651 [10:35 – 11:50]	PHY605 (T)		PHY603 (T)		

- 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	Saikat Ghosh	3-2 T103	TW17:10	--	ThF14:00
2.	PHY401	3-1-0-0 (11)	Classical Mechanics	Kaushik Bhattacharya	HSS-II L9	TF 12:00-13:15	W8:00	--
3.	PHY421	3-1-0-0 (11)	Mathematical Methods	Diptarka Das	DE-3 L14	MTh12:00-13:15	F8:00	--
4.	PHY431	3-1-0-0 (11)	Quantum Mechanics-I	Chanchal Sow	DE-1 L10	MTh 9:00 - 10:15	T 9:00	--
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	Avinash Singh	SLOT-1 FB482	TWTh8:00	M17:10	--
7.	PHY461	0-0-8-0 (08)	Experimental Physics	Zakir Hossain	--	--	--	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	PHY 205 (modular)	3-1-0-0 (6)	Fundamentals of Soft Matter	Manas Khan	ESO-3-1 [MWF11:00, Th:11:00(Tut)]
2	PHY 305 / SE 311	3-0-0-0 (9)	Physics of the Universe	Pankaj Jain	OE-3 (WF10:35 - 11:50)
3	PHY 307 / SE 313	3-0-0-0 (9)	Modern Optics	Saurabh Mani Tripathi	OE-2 (WF9:00-10:15)
4	PHY 309 / SE 303	3-0-0-0 (9)	Introductory Biophysics	Debashish Chowdhury	OE-5 (M15:35-16:50 T14:00-15:15)
5	PHY 407 / SE 315	3-0-0-0 (9)	Special & General Relativity	Arjun Bagchi	PG-1 (MF8:00,T9:00)
6	PHY 441	2-1-3-0 (11)	Electronics	Jayita Nayak	PG-3a MTh11:00, T11:00(Tut), M14:00(Lab)
7	PHY 543	3-1-0-0 (11)	Condensed Matter Physics I	Arijit Kundu	PG-2a MTTh10:00, W14:00 (Tut)
8	PHY 555	0-0-0-4 (4)	BS Project I	Tarun Kanti Ghosh	--
9	PHY 556	0-0-0-9 (9)	BS Project II	Tarun Kanti Ghosh	--
10	PHY 590	0-0-0-9 (9)	Special Topics in Physics	Aditya Kelkar	--
11	PHY 613	3-0-0-0 (9)	Advanced Statistical Mechanics	Amit Dutta	DE-3/PG-4 (MTh12:00-13:15)
12	PHY 631	3-0-0-0 (9)	Semiconductor Nano-structures	YN Mohapatra	PG-11a (MTh9:00, T12:00)
13	PHY 651	3-0-0-0 (9)	Introduction to Astrophysical fluids	Supratik Banerjee	PG-6 (WF10:35 - 11:50)
14	PHY 670	3-0-0-0 (9)	Evolutionary game dynamics	Sagar Chakraborty	PG-5 (WF9:00-10:15)
15	PHY 672	3-0-0-0 (9)	Physics of Turbulence	MK Verma	DE-3/PG-4 (MTh12:00-13:15)
16	PHY 681	3-0-0-0 (9)	Quantum Field Theory	Nilay Kundu	TW17:10-18:25
17	PHY 690G	3-0-0-0 (9)	Coherence and quantum entanglement	Anand Kumar Jha	TW17:10-18:25

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	Saikat Ghosh	TW17:10 ThF14:00(Lab)
2	PHY 205 (modular)	3-1-0-0 (6)	Fundamentals of Soft Matter	Manas Khan	ESO-3-1 [MWF11:00, Th:11:00(Tut)]
3	PHY 305 / SE 311	3-0-0-0 (9)	Physics of the Universe	Pankaj Jain	OE-3 (WF10:35 - 11:50)
4	PHY 307 / SE 313	3-0-0-0 (9)	Modern Optics	Saurabh Mani Tripathi	OE-2 (WF9:00-10:15)
5	PHY 309 / SE 303	3-0-0-0 (9)	Introductory Biophysics	Debashish Chowdhury	OE-5 (M15:35-16:50 T14:00-15:15)
6	PHY 407 / SE 315	3-0-0-0 (9)	Special & General Relativity	Arjun Bagchi	PG-1 (MF8:00,T9:00)

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 (11)	Quantum Mechanics-I	Aditya Kelkar	MTh9:00-10:15, T9:00 (Tut)

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	R. Vijaya	Th15:00	
2	PHY401	3-1-0-0 (11)	Classical Mechanics	Kaushik Bhattacharya	TF 12:00-13:15	W8:00
3	PHY407	3-0-0-0 (9)	Special and General Relativity	Arjun Bagchi	PG-1 (MF8:00,T9:00)	
4	PHY421	3-1-0-0 (11)	Mathematical Methods	Diptarka Das	DE-3 MTh12:00-13:15	F8:00
5	PHY431	3-1-0-0 (11)	Quantum Mechanics-I	Aditya Kelkar	DE-1 (MTh 9:00-10:15)	T9:00
6	PHY441	2-1-3-0 (11)	Electronics	Jayita Nayak	PG-3a (MTh11:00, M14:00(Lab))	T11:00
7	PHY461 /PHY462	0-0-8-0 (8)	Experimental Physics I/II	Zakir Hossain	--	--
8	PHY500, PHY501, PHY502	0-0-0-9 (9)	MSc Review Project I, II, III	T Sarkar	--	--
9	PHY543	3-1-0-0 (11)	Condensed Matter Physics I	Arijit Kundu	PG-2a (MTTh10:00)	W14:00
10	PHY552	3-1-0-0 (11)	Classical Electrodynamics I	Avinash Singh	PG-10 (TWTh8:00)	M17:10
11	PHY555	0-0-0-4 (4)	BS Project I	Tarun Kanti Ghosh	--	--
12	PHY556	0-0-0-9 (9)	BS Project II	Tarun Kanti Ghosh	--	--
13	PHY563	0-0-0-11 (11)	MSc Project I	Anjan Kumar Gupta	--	--
14	PHY565	0-0-0-11 (11)	MSc Project II	Anjan Kumar Gupta	--	--
15	PHY590	0-0-0-9 (9)	Special Topics in Physics	Aditya Kelkar	--	--

16	PHY598 /PHY698	0-0-0-27 (27)	MSc Research Project I	Gautam Sengupta	--	--
17	PHY599 /PHY699	0-0-0-27 (27)	MSc Research Project II	Gautam Sengupta	--	--
18	PHY601	1-3-0-0 (9)	Review of Classical Mechanics	Manoj K Harbola	M14:00	TWTh14:00
19	PHY603	1-3-0-0 (9)	Review of Classical Electrodynamics	Rajeev Gupta	M15:00	TTh15:00 F14:00
20	PHY605	1-3-0-0 (9)	Review of Mathematical methods	Amit Kumar Agarwal	M16:00	TTh16:00 F12:00
21	PHY 613	3-0-0-0 (9)	Advanced Statistical Mechanics	Amit Dutta	PG-4 (MTh12:00-13:15)	--
22	PHY 631	3-0-0-0 (9)	Semiconductor Nano-structures	YN Mohapatra	PG-11a (MTh9:00, T12:00)	--
23	PHY 651	3-0-0-0 (9)	Introduction to Astrophysical fluids	Supratik Banerjee	PG-6 (WF10:35 - 11:50)	--
24	PHY 670	3-0-0-0 (9)	Evolutionary game dynamics	Sagar Chakraborty	PG-5 (WF9:00-10:15)	--
25	PHY 672	3-0-0-0 (9)	Physics of Turbulence	MK Verma	PG-4 (MTh12:00-13:15)	--
26	PHY 681	3-0-0-0 (9)	Quantum Field Theory	Nilay Kundu	TW17:10-18:25	--
27	PHY 690G	3-0-0-0 (9)	Coherence and quantum entanglement	Anand Kumar Jha	TW17:10-18:25	--
28	PHY 799	--	Research	DPGC	--	--

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 (8)	Experimental Physics I/II	Zakir Hossain	TWThF14:00
2	PHY441 /PHY647	2-1-3-0 (11)	Electronics	Jayita Nayak	M 14:00

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.