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भारतीय प्रौद्योगिकी संस्थान कानपुर INDIAN INSTITUTE OF TECHNOLOGY KANPUR

P.O.: IIT Kanpur, 208 016, Uttar Pradesh, India

ACADEMIC SECTION

अधिष्ठाता, शैक्षिक कार्य Dean of Academic Affairs

07 October, 2024

To: All Heads of Departments/IDPs

The soft copy of the class schedule for the Core Courses to be offered in the Second Semester of the Academic Year 2024-25 is detailed below:

The Departments/IDPs are requested to prepare their respective departmental time table strictly according to the instructions given in this document (see page no. 11). Please send the hard copy of the of the departmental time table to the DOAA office and/or a soft copy by email to courses@iitk.ac.in latest by October 18, 2024.

A. Particulars of the proposed Core Time Table (1st and 2nd Semesters):

- 1. The size of the first-year incoming batch in 2023-24 is expected to be approximately 1210.
- 2. The students have been divided into two groups which will further be divided into four batches for 1st and 2nd semester courses (Batches A, B, C and D).
- 3. All the students will do physics courses as per their department requirements in the 1st and 2nd semesters given as follows;

For 1st semester Physics courses

PHY112	112 PHY113 PHY114		PHY115
 AE (69) CE (148) CHE(104) CHM (49) 	EE (192)ME (149)PHY (45)	CSE (129)MSE (85)	 BSBE (53) ECO (52) ES (43) MTH (64) SDS (28)

For 2nd semester Physics courses

PHY112	PHY113 PHY114		PHY115
• BSBE (53)	• CHE(104)	• EE (192)	• AE (69)
• ECO (52)	• CHM (49)	• MTH (64)	• CE (148)
• ES (43)	• CSE (129)	• SDS (28)	
• ME (149)	• MSE (85)		
• PHY (45)			

B. Particulars of the Proposed Core Time Table: (1st and 2nd Semesters)

- (1) The size of the 1st year incoming batch in 2023-24 is expected to be approximately 1210.
- (2) The students have been divided into two groups of approximately the same size (Group 1 and Group 2) for 1st and 2nd semester courses.
- (3) These Groups will be decided after the English Diagnostic Test (EDT), which will be conducted during registration period when the students arrive in the campus.
- (4) The course schedule for Group 1 students will be as follows:
 - ➤ 1st Semester: MTH111, MTH112, PHY111, TA111, CHM112, CHM113, PE111, SCEME-1(ELC111/ELC112/ELC113) and PHY (Dept wise as given in A. (3))
 - > 2nd Semester: MTH113, MTH114, CHM111, ESC111, ESC112, LIF111, PE112, ETH111 and PHY (Dept wise as given in A. (3))
- (5) The course schedule for Group 2 students will be as follows:
 - > 1st Semester: MTH111A, MTH112, CHM111A, ESC111, ESC112, LIF111, PE111, ETH111 and PHY (Dept wise as given in A. (3))
 - > 2nd Semester: MTH113, MTH114, PHY111, TA111, CHM112, CHM113, PE111, SCEME-1(ELC111/ELC112/ELC113) and PHY (Dept wise as given in A. (3))
- (6) All Chemical Engg. students will be in the Group 2 as requested by the Department.
- (7) Group 1 students will be divided into 20 sections (A1 A10 and B1 B10) with up to 30 students in each section for the purpose of laboratory classes.
- (8) Group 2 students will be divided into 20 sections (C1 C10 and D1 D10) with up to 30 students in each section for the purpose of laboratory classes.
- (9) All other courses will be divided up to approximately 100 students in each section for the purpose of tutorial classes.

Time Table- 2nd Semester- Day wise/Course wise/Section wise

			08:00-08:50	09:00-09:50	10:00-10:50	11:00-11:50	12:00-12:50	Lunch	14:00-14:50	15:00-15:50	16:00-16:50	17:10-18:00
		Group1			MTH113/114		ESC111/112/113			CHM111A (P)		ETH111
M	1 st Semester	Group2	ELC112	PHY112/113/114/11	5	TA111(P) PHY	111(P)		ELC113	TA111	MTH113/114	CHM112/113
	Semester											
		Group1		DVIV.110/110/114/115	MTH113/114	LIF111			CHM1	11A (P)/ ESC111/112	/113 (P)	
\mathbf{T}	1 st Semester	Group2	ELC112	PHY112/113/114/115		CA111(P) PHY111	(P)		ELC113	CHM112/113	MTH113/114	
	Semester	Repeat										
	1 st	Group1	ETI	H111	MTH113/114	MTH113/114			CHM111A (P)			
W	Semester	Group2			TA111(P) PHY111(P)		ļ		TA111	MTH113/114	CHM112/113	
		Repeat										
	1 st	Group1		PHY112/113/114/115	ETI	H111	ESC111/112/113			CHM111A (P)		
Γh	Semester	Group2	ELC112		Т	A111(P) PHY111	(P)		ELC113	CHM112/113		
		Repeat										
												_
	1.01	Group1		PHY112/113/114/115	MTH113/114	LIF111	ESC111/112/113			ESC111/112/113 (P)		
\mathbf{F}	1 st Semester	Group2	ELC112	111111111111111111111111111111111111111		A111(P) PHY111((P)		ELC113	CHM112/113 (T)	MTH113/114	
	Sellester	Repeat										

Course No.	L-T-P-D (Credits)	Group	Lecture Schedule	Tutorial Schedule	Lab Schedule
) (TVI 12) (3-1-0(6)	1	MWF 10:00	T 10:00	
MTH113M	[1200]	2	MWF 16:00	T 16:00	1
MTH114M	3-1-0(6)	1	MWF 10:00	T 10:00	
	[1200]	2	MWF 16:00	T 16:00	
PHY111	0-0-3(03) [600]	2			M/T/W/Th/F 10:00-12:50
PHY112	3-1-0(11) [370]	BSBE, ECO,ES ME, PHY	MThF 09:00	T 09:00	
PHY113	3-1-0(11) [386]	CHE, CHM CSE, MSE	MTF 09:00	Th 09:00	
PHY114	3-1-0(11) [214]	EE, MTH, SDS	MTF 09:00	Th 09:00	
PHY115	3-1-0(11) [240]	AE, CE	MThF 09:00	T 09:00	
CHM111	0-0-3(03) [600]	1			M/T/W/Th 14:00- 16:50
CHM112M	2-1-0(04)	2	MW 17:10	F 15:00	
	[600]	2	TTh 15:00	F 15:00	1
CHM113M	2-1-0(04)	2	MW 17:10	F 15:00	
	[600]	2	TTh 15:00	F 15:00	
TA111	2-0-3(09) [600]	2	MW 15:00		M/T/W/Th/F 10:00-12:50
ESC111M	3-1-3(07) [600]	1	MThF 12:00	W 12:00	T F 14:00-16:50
ESC112M	3-1-3(7) [500]	1	MThF 12:00	W 12:00	T F 14:00-16:50
ESC113M	3-1-3(7) [100]	1	MThF 12:00	W 12:00	F 14:00-16:50
LIF111	2-0-0(6) [600]	1	TF 11:00		
ETH111	1-0-0-2(3) [600]	1	M 17:00, W08:00 Th 10:00		
ELC112	3-0-0(9)	2	MTF 08:00	Th 08:00	
ELC113	3-0-0(9)	2	MTF 14:00	Th 14:00	
PE111	0-0-3-0(3)				

Particulars of the Proposed Core Time Table: (3rd and 4th Semesters)*

- 1. It has been assumed that the composition of the 2nd year classes from Y22 batch onwards will consist of approximately 1210 students.
- 2. It is proposed that this class be divided into two batches of approximately equal sizes (Batch C and Batch D) such that each batch has approximately 600 students. It has been done with an objective to take care of 2nd year laboratory assignments.
- 3. Batch C shall consist of students from CHE, CSE, EE, ECO, ME, and SDS departments
- 4. Batch D shall consist of students from AE, BSBE, CE, CHM, ES, MSE, MTH, and PHY departments
- 5. The course schedule for Batch C students will be as follows,

3rd Semester: ESC201, HSS-1/EME and others

4th Semester: EME (Courses offered by Economics, Management and

Engineering) and others

6. Batch C will be further sub-divided into 20 sections, C1 – C20. The course schedule for Batch C students will be as follows:

The composition of the Batch C sections shall be as follows:

C1 (EE 30)	C2 (EE 30)	C3 (EE 30)
C4 (EE 30)	C5 (EE 30)	C6 (EE 30)
C7 (ME 30)	C8 (ME 30)	C9 (ME 30)
C10 (ME 30)	C11 (ME 29)	C12 (CSE 32)
C13 (CSE 32)	C14 (CSE 32)	C15 (CSE 33)
C16 (CHE 30)	C17 (CHE 30)	C18 (CHE 30)
C19 (CHE 14 + EE 12)	C20 (SDS 28)	

7. The course schedule for Batch D students will be as follows,

3rd Semester: EME (Courses offered by Economics, Management and

Engineering) and others

4th Semester: ESC201, EME/HSS-1 and others

The composition of the Batch D sections shall be as follows:

D1 (BSBE 30)	D2 (BSBE 23 + AE 9)	D3 (AE 30)
D4 (AE 30)	D5 (MSE 30)	D6 (MSE 30)
D7 (MSE 25 + MTH 4)	D8 (ES 30)	D9 (ES 13 + CHM 19)
D10 (CHM 30)	D11 (CE 30)	D12 (CE 30)
D13 (CE 30)	D14 (CE 30)	D15 (CE 28)
D16 (ECO 32)	D17 (MTH 30)	D18 (MTH 30)
D19 (ECO 20 + PHY 13)	D20 (PHY 32)	

8. HSS-1 courses will be offered every semester in (max. registration 125) primarily for 3rd and 4th semester students.

Naming of ESO/SO Courses

PSO201 (08):

- 1. Modular courses shall have unique numbers with a suffix 'M' denoting that the course is being offered in the 'first half' and 'second half' of the semester.
- 2. The course numbers of all ESO courses have been rationalized as follows,

ESO201 (11): Thermodynamics ESO202 (11): Mechanics of Solids ESO203 (13): Introduction to Electrical Engineering Fluid Mechanics and Rate Processes ESO204 (11): ESO206 (11): Biotechnology ESO207 (09): **Data Structures** ESO208 (11): Numerical Methods ESO213 (09) Fundamentals Of Earth Sciences ESO225 (08): Nature and Properties of Materials

3. SO courses offered by MATHEMATICS, PHYSICS, CHEMISTRY and ECONOMICS/CIVIL ENGINEERING departments are numbered as MSO, PSO and CSO, HSO respectively. The SO courses being offered are,

MSO202M (06): Complex Analysis MSO203M (06): Partial Differential Equations MSO201 (11): Probability and Statistics MSO205 (11): Introduction To Probability Theory CSO201 (11): Organic Chemistry-Fundamentals And Applications CSO202 (11): Atoms, Molecules and Photons CSO203 (11): Inorganic Molecules Materials & Medicine Applied Probability And Statistics HSO201 (11):

4. ESO/SO courses offered in the odd semesters are ESO201, ESO202A, ESO204, ESO206, ESO207, ESO208, ESO225, MSO202M, MSO203M, MSO205 and HSO201.

Quantum Physics

5. ESO/SO courses offered in even semesters are ESO201, ESO202, ESO203, MSO201, CSO201, CSO202, CSO203, and PSO201.

ESO/SO Requirements for Students from Various Departments

Students from various departments have different ESO/SO requirements. Some of these ESOs/SOs may be compulsory, while the others are elective. However, students from all departments must take at least 41 credits of ESO/SO of which at least 08 credits must be ESO and 08 credits SO. The ESO/SO requirements of various departments are given below (the courses in **BOLD** are compulsory),

Departmental Requirements	Odd Semester (numbers in parenthesis denote credits)	Even Semester (numbers in parenthesis denot credits)
AE (all Compulsory)	ESO202 (11) ESO204 (11)	ESO201 (11)
BSBE (at least 18 units) (any one from ESO / SO)	ESO206 (11)	
CHE (all Compulsory)	ESO201 (11) ESO204 (11)	
CE (all Compulsory)	ESO202 (11) HSO201 (11) MSO203M(06) ESO208 (11) – 5 th Sem	
CHM (at least 18 units) (any one from ESO / SO)	SO/ESO (9-11) 3 rd Sem SO/ESO – 5 th Sem	
CSE (at least 21 units) (any one from ESO / SO)	ESO207 (12)	
EE (at least 36 units)	MSO202M (06) MSO203M (06)	MSO201 (11) ESO203 (13)
ECO (at least 23 units) (at least 11 units of SO) (at least 12 units of ESO)	HSO201 (11) ESO207 (12)) – 5 th Sem	
ES (at least 31 units)	ESO201 (11) ESO213 (09) ESO204 (11) – 5 th Sem	
MSE (at least 25 units) (at least 19 units of ESO)	ESO202 (11) ESO225 (08)	SO/ESO – 6 th Sem
ME (all compulsory)	ESO201(11) MSO202M (06) MSO203M (06)	ESO202(11)
MTH (at least 32 units of SO/ESO)	MSO205 (11) SO/ESO (9-11) ESO207A (12) – 5 th Sem	
PHY (at least 41 units) (at Least 08 units of ESO)	MSO202M (06) MSO203M (06)	MSO201(11) PSO201 (08)
SDS (at least 32 units of SO/ESO)	MSO205 (11) ESO207A (12) – 5 th Sem MSO202M (06) – 5 th Sem	SO/ESO (9-11)

4th Semester Courses

Course No.	Course No. Units Group Lecture Time Venue		Lectur	e	Tutorial		I abanatan
Course No.			Time	Venue	- Laboratory		
ESC201A	3-1-3 (14)		MWTh17:10		T 17:10		M/T/W/Th/F 14:00 - 16:50
HSS-1	3-1-0 (11)		MWTh 08:00		T 08:00		
EME(Basket)	3-1-0 (11)/ 3-0-0 (9)		MWTh 12:00		T 12:00		
ESO201	3-1-0 (11)		MThF10:00		W 10:00		
ESO202	3-1-0 (11)		MThF 8:00		W 8:00		
ESO203	3-1-2 (13)		MTTh17:10		W17:10		M/T/W/Th14:00 - 15:50
MSO201	3-1-0 (11)		MThF 9:00		W 9:00		
PSO201	2-1-0(08)		MTh 12:00		W 12:00		
TA211	0-0-0 (03)						M/W14:00 - 16:50
TA212	0-0-0 (03)						T/F14:00 - 16:50

Naming of Courses

6. Modular courses shall have unique numbers with a suffix 'a' denoting that the course is being offered in the 'first half' of the semester, while a suffix 'b' denotes that the course is being offered in the 'second half' of the semester.

7. The course numbers of all ESO courses have been rationalized as follows,

ESO201 (11): Thermodynamics ESO202 (11): Mechanics of Solids ESO203 (13): Introduction to Electrical Engineering Fluid Mechanics and Rate Processes ESO204 (11): ESO206 (11): Biotechnology ESO207 (12): **Data Structures** ESO208 (11): Numerical Methods ESO213 (09): Fundamentals of Earth Sciences ESO225 (08): Introduction to Materials Science and Engineering

8. SO courses offered by MATH, PHYSICS and CHEMISTRY Departments are numbered as MSO, PSO and CSO respectively. The SO courses being offered are,

MSO202M (06): Complex Analysis

MSO203M (06): Partial Differential Equations
MSO201 (11): Probability and Statistics
CSO201 (11): Basic Organic Chemistry
CSO202 (11): Atoms, Molecules and Photons

PSO201 (08): Quantum Physics

- 9. ESO / SO courses offered in the odd semesters are, ESO201, ESO202, ESO204, ESO225, ESO206, ESO207, ESO208, ESO209, MSO202M and MSO203M.
- 10. ESO / SO courses offered in even semesters are, ESO201, ESO202, ESO203, MSO201, and PSO201A.

Tutorial Section Assignment in 4th Semester Courses

Semester	Course	Maximum Registration	Compulsory Seats	Extra/Elective Seats	Tutorial Sections
Even	ESC201 (Electronics) 3-1-3-0 (14)	650	AE*: 69 BSBE*:53 CE*: 148 MSE*:85 CHM*:49 ECO*: 52 ES*: 43 MTH*:64 PHY*: 45 Total: 608	42 (for back-loggers)	Total twelve (20) sections with up to 32 students in each section
Even	ESO201 (Thermo.) 3-1-0-0 (11)	105	AE*: 69 Total: 69	35 (Elective seats and for back-loggers)	Total Three (3) sections with up to 35 students in each section
Even	ESO202 (Mechanics) 3-1-0-0 (11)	169	ME*: 149 Total: 149	20 (Elective seats and for back-loggers)	Total Six (6) sections with up to 35 students in each section
Even	ESO203 (Electrical) 3-1-2-0 (13)	192	EE*: 192 Total: 192	(Elective seats and for back-loggers)	Total Six (6) sections with up to 37 students in each section
Even	MSO201 (Prob.& Stat.) 3-1-0-0 (11)	255	EE*: 192 PHY*: 45 Total: 235	18 (for back-loggers only)	Total five (3) sections with up to 105 students in each section
Even	PSO201 (Quant. Phy.) 2-1-0-0 (08)	45	PHY*: 45 Total: 45	(Elective seats and for back-loggers)	Only one (1) section with up to 90

Laboratory Section Assignment in 4th Semester Courses

Semester	Course	Maximum Registration	Compulsory Seats	Extra Seats	Laboratory Sections
Even	ESC201 (Electronics) 3-1-3-0 (14)	650	AE*: 69 BSBE*:53 CE*: 148 MSE*:85 CHM*:49 ECO*: 52 ES*: 43 MTH*:64 PHY*: 45 Total: 608	42 (for back- loggers)	M/T/W/Th/F: 14:00 – 16:50 Monday: C8, C9, C15 + Others Tuesday: C3, C12, C14 + Others Wednesday: D5, D13, D14, D15 Thursday: D1, D2, D3, D4 Friday: D6, D7, D11, D12 Up to 30 students in each laboratory section i.e., Four (4) sections per day, each with up to 30 students
Even	TA211 (MSE) 0-0-3-0 (03)	193	EE*: 192 Total: 192	1 (for back- loggers)	M/W: 14:00 – 16:50 Monday: C3, C5, C6, C19 Wednesday: C1, C2, C4, others Up to 102 students per day i.e., Four (4) sections per day, each with up to 30 students
Even	TA212 (ME) 0-0-3-0 (03)	223	AE*: 69 CE*: 148 Total: 217	6 (for back- loggers)	T/Th/F: 14:00 – 16:50 Tuesday: D3, D4, D2(9) Thursday: D11, D12,+others Friday: D13, D14, D15 Up to 30 students in each laboratory section i.e., Four (4) sections per day, each with up to 30 students
Even	ESO203 (Electrical) 3-1-2-0 (13)	192	EE*: 192 Total: 192	(Elective seats and for back- loggers)	T/Th: 14:00 – 15:50 Tuesday: O1=C1(30) + C19(2)

*Compulsory in the 4th semester #Departmental compulsory course in 3rd semester

Time Table for $2^{nd}/3^{rd}$ Year Core, ESO and SO Courses Even Semester

	8:00-8:50 (ESO/SO-1)	9.00-9:50	10:00-10:50	11:00-11:50	12:00-12:50 (ESO/SO-2)	14:00-14:50	15:00-15:50	16:00-16:50	17:10-18:00
М	ESO202(L) HSS (L)	MSO201 (L)	ESO201 (L)		EME Basket PSO201(L)	TA211 LAB. [C3, C5, C6, C19,] ESC201 LAB. [D8, D9, D17, D18,]		ESC201 (L) ESO203 (L)	
Т	HSS (L)				EME Basket	TA212 LAB. [D3, D4, D2(9)] ESC201 LAB. [D10, D16, D19, D20] ESO203 LAB. O1=C1(30) + C19(2), O2=C2(30) + C19(2) O3=C3(30) + C19(2)		ESC201 (T)	
W	ESO202(T) HSS (L)	MSO201 (T)	ESO201 (T)		EME Basket PSO201(T)	TA211 LAB. [C1, C2, C4, others] ESC201 LAB. [D5, D13, D14, D15]		ESC201 (L) ESO203 (L)	
Th	ESO202(L) HSS (L)	MSO201 (L)	ESO201 (L)		EME Basket PSO201(L)	TA212 LAB. [D11+D12+others] ESC201 LAB. [D1, D2, D3, D4,] ESO203 LAB. O4=C4(30) + C19(2), O5=C5(30) + C19(2) O6=C6(30) + C19(2)		ESC201 (L) ESO203 (T)	
F	ESO202(L)	MSO201 (L)	ESO201 (L)				212 LAB. [D13, D14, D15 01 LAB. [D6, D7, D11, D		ESO203 (L)

Preparation of the Departmental Time Table
Departmental time table templates of all departments/IDPs are available at the urls given in the table below.

Department	For downloading Departmental Template, paste the given url in your browser.
IDP	
AE	http://www.iitk.ac.in/doaa/eventt/ae_even.doc
BSBE	http://www.iitk.ac.in/doaa/eventt/bsbe_even.doc
CE	http://www.iitk.ac.in/doaa/eventt/ce_even.doc
СНЕ	http://www.iitk.ac.in/doaa/eventt/che_even.doc
СНМ	http://www.iitk.ac.in/doaa/eventt/chm_even.doc
CSE	http://www.iitk.ac.in/doaa/eventt/cse_even.doc
CGS	http://www.iitk.ac.in/doaa/eventt/cgs_even.doc
DESIGN	http://www.iitk.ac.in/doaa/eventt/des_even.doc
EE	http://www.iitk.ac.in/doaa/eventt/ee_even.doc
ECO	http://www.iitk.ac.in/doaa/eventt/eco_even.doc
ES	http://www.iitk.ac.in/doaa/eventt/es_even.doc
HSS	http://www.iitk.ac.in/doaa/eventt/hss_even.doc
DOMS	http://www.iitk.ac.in/doaa/eventt/doms_even.doc
ME	http://www.iitk.ac.in/doaa/eventt/me_even.doc
MSE	http://www.iitk.ac.in/doaa/eventt/mse_even.doc
MTH	http://www.iitk.ac.in/doaa/eventt/mth_even.doc
1,111	http://www.iitk.ac.in/doaa/eventt/sds_even.doc
MSP	http://www.iitk.ac.in/doaa/eventt/msp_even.doc
NET	http://www.iitk.ac.in/doaa/eventt/net_even.doc
PHY	http://www.iitk.ac.in/doaa/eventt/phy_even.doc
PSE	http://www.iitk.ac.in/doaa/eventt/pse_even.doc
SEE	http://www.iitk.ac.in/doaa/eventt/see_even.doc
SPASE	http://www.iitk.ac.in/doaa/eventt/spase_even.doc

Instructions:

- 1. Download the departmental time table template
- 2. You will notice that all <u>UG departmental compulsory courses (and some other courses)</u> have already been scheduled. The schedules of these courses are fixed and cannot be changed by the departments. <u>However, the names of the instructors of these courses need to be provided.</u>
- 3. You will also notice that several types of slots, i.e., HSS-I and HSS-II slots (only for HSS department), DE-slots, OE-slots and PG-slots have been specified in the time table template.
- 4. Schedule the HSS, DE, OE and PG courses of your department in these slots, while strictly adhering to the instructions for scheduling these courses as given in the template.
- 5. For each course, mention the course number, L-T-P-D and unit details, course name, name of the instructor and the slot in which the course should be scheduled.
- 6. Be extra careful in scheduling courses with multiple attributes, i.e., DE/PG, DE/OE, OE/PG, HSS/DE, HSS/OE etc. and courses declared as part of a Minor. The instructions for scheduling such courses have been given in the time table template. Please contact OARS office in case of any doubt.
- 7. Please realize that each course offered by a department (except UG projects) must be scheduled in a slot. A course without a slot will not be uploaded on OARS.
- 8. However, a course assigned in one slot can be changed to another slot at a later date (by contacting OARS) if the department wishes to do so for any reason.
- 9. Thus the role of the department is limited to assigning slots for various HSS, DE, OE, Minor and PG courses. The corresponding day-wise schedule of the course will be reflected in OARS automatically.
- 10. There is no need for specifying a room for a course. Rooms for various courses will be assigned after pre-registration and this information will be uploaded on OARS.

SHALABH Dean, Academic Affairs