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भारतीय प्रौद्योगिकी संस्थान कानपुर INDIAN INSTITUTE OF TECHNOLOGY KANPUR P.O.: IIT Kanpur, 208 016, Uttar Pradesh, India शैक्षिक विभाग ACADEMIC SECTION

अधिष्ठाता, शैक्षिक कार्य Dean of Academic Affairs

05 October, 2023

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 2023-24 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 <u>courses@iitk.ac.in</u> latest by **October 15, 2023**.

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

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

(1) The size of the 1^{st} 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 1^{st} and 2^{nd} 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:

- Ist 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
Μ	1 st Semester	Group2	ELC112	PHY112/113/114/11:	5	TA111(P) PHY	111(P)		ELC113	TA111	MTH113/114	CHM112/113
	Semester							1				
					_							
		Group1			MTH113/114	LIF111			CHM1	11A (P)/ ESC111/112	/113 (P)	
Τ	1 st Semester	Group2	ELC112	PHY112/113/114/115	Т	A111(P) PHY111(P)	ĺĺ	ELC113	CHM112/113	MTH113/114	
	Semester	Repeat										
	-				-						-	
	1 at	Group1	ETI	H111	MTH113/114		ESC111/112/113			CHM111A (P)		
W	1 st Semester	Group2			T.	A111(P) PHY111(1	P)			TA111	MTH113/114	CHM112/113
		Repeat										
	. at	Group1		PHY112/113/114/115	ETI	H111	ESC111/112/113			CHM111A (P)		
Th	1 st Semester	Group2	ELC112	тп1112/115/114/115	TA111(P) PHY111(P)			ELC113	CHM112/113			
	201103001	Repeat										
		Group1		DUD/110/110/114/115	MTH113/114	LIF111	ESC111/112/113			ESC111/112/113 (P)		
\mathbf{F}	1 st Semester	Group2	ELC112	PHY112/113/114/115	Т	CA111(P) PHY111(P)		ELC113	CHM112/113 (T)	MTH113/114	
	Semester	Repeat										

Course No.	L-T-P-D (Credits)	Group	Lecture Schedule	Tutorial Schedule	Lab Schedule
	3-1-0(6)	1	MWF 10:00	T 10:00	
MTH113M	[1200]	2	MWF 16:00	T 16:00	
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	
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	2-0-0-0(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 <u>E</u>conomics, <u>M</u>anagement and <u>E</u>ngineering) 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:

inposition of the Buton of se		
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)	

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

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

3rd Semester: EME (Courses offered by <u>E</u>conomics, <u>M</u>anagement and <u>E</u>ngineering) 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

- 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
ESO204 (11):	Fluid Mechanics and Rate Processes
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
HSO201 (11):	Applied Probability And Statistics
PSO201 (08):	Quantum Physics

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

Course No.	Units	Crown	Lecture		Tutorial		
Course No.	Units	Group	Time	Venue	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)		MWTh17:10		T17:10		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

4th Semester Courses

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,

Thermodynamics
Mechanics of Solids
Introduction to Electrical Engineering
Fluid Mechanics and Rate Processes
Nature and Properties of Materials
Biotechnology
Data Structures
Numerical Methods
Dynamics

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

MSO202a (06):	Complex Analysis
MSO203b (06):	Partial Differential Equations
MSO201A (11):	Probability and Statistics
CSO201A (11):	Basic Organic Chemistry
CSO202A (11):	Atoms, Molecules and Photons
PSO201A (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.

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)	210	ME*: 149 Total: 149	60 (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)	222	EE*: 192 Total: 192	30 (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)	270	EE*: 192 PHY*: 45 Total: 235	35 (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)	60	PHY*: 45 Total: 45	25 (Elective seats and for back-loggers)	Only one (1) section with up to 90	

Tutorial Section Assignment in 4th Semester Courses

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)	212	EE*: 192 Total: 192	20 (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)	247	AE*: 69 CE*: 148 Total: 217	30 (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)	202	EE*: 192 Total: 192	10 (Elective seats and for back- loggers)	$\begin{array}{ccc} T/Th: 14:00-15:50\\ Tuesday: & O1=C1(30)+C19(2)\\ & O2=C2(30)+C19(2)\\ & O3=C3(30)+C19(2)\\ Thursday: & O4=C4(30)+C19(2)\\ & O5=C5(30)+C19(2)\\ & O6=C6(30)+C19(2)\\ & Up \ to \ 35 \ students \ in \ each \ laboratory \ section \end{array}$

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

Time Table for 2nd/3rd 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 (T)
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 (L)	
F	ESO202(L)	MSO201 (L)	ESO201 (L)					212 LAB. [D13, D14, D15)1 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								
IDP	For downloading Departmental Template, paste the given url in your browser.							
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							
CHE	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							
EEM	http://www.iitk.ac.in/doaa/eventt/eem_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							
МТН	http://www.iitk.ac.in/doaa/eventt/mth_even.doc							
	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