

Department/IDP wise allocation of instructor(s)/tutor(s) for core courses in science and engineering for 2013-14, 2nd semester

Course no	Course name	Units reqd.	AE	BSBE	CHE	CE	CSE	EE	IME	ME	MSE	MSP	CHM	MTH	PHY	HSS	ES	DOFAS	Total
CHM101	Chemistry lab	12											0+12						0+12
MTH101	Mathematics-I	12												4+8					4+8
PHY101	Physics lab	12													4+8				4+8
PHY102	Physics-I	6													2+4				2+4
PHY103	Physics-II	6													2+4				2+4
ESC101	computing	14				2+12													2+12
LJF101	Life sciences	1.5		1.5															2+12
TA101	Engineering graphics	13.5	0+2		1.5#+8				0+2										1.5+0
ENG112	English Language	1.5																	1.5+12
HSS-I (1)	Humanities-I	4														1.5#			1.5+0
ESC201	Electronics	14				2+12									4				4+0
TA201	Manufacturing lab	6									1*+5								2+12
TA202	Mechanical lab	6									1*+5								1+5
CCM200	Comm skills	13							0+10							1+0	0+1		1+12
HSS-I (2)	Humanities-I	2			0+1														2+0
ESO201	thermodynamics	5								2+3									2+0
ESC202	Mechanics of solids	11	2+3		0+2					0+4									2+3
ESO203	Intro electr engineering	5.5					1.5+4												2+9
ESO204	Fld Mech and Rt Proc.	5	0+1	2+2															1.5+4
ESO205	Nat and Prop of Mat	7		0+1															2+3
ESO206	Biotechnology	6		2+6							2+3			0+1					2+5
ESO207	Data Structures	1.5																	2+6
ESO208	Numerical Methods	11				1.5+0													1.5+0
ESO209	Dynamics	4	0+1	0+4	2+4			0+1											2+9
MSO202a	Complex Analysis	3.5							2+1										2+2
MSO203b	Partial Differential Eqn	3.5	0+1		0+0.5			0+0.5					1+1						1+2.5
MTH102R	Mathematics-II	2.5							0+0.5				1+0						1+2.5
CHM102R	Gen Chemistry	1.75											1.5+1						1.5+1
Total load assigned		192.75	10	9.5	9	19	15.5	20.5	10	22	11.5	0	13.75	17.5	25	8.5	1	0	0.75+1
Approx Faculty Strength			19	12	19	30	24	37	16	35	20	1	28	34	34	31	2		
Load/faculty			0.53	0.79	0.47	0.63	0.65	0.55	0.63	0.63	0.58	0	0.49	0.51	0.74	0.27	0.5		

Units are assigned as 'm+n' where m indicates the lecture units and n indicates tutor units.
 *Assigned lower load (only 1 lecture/week) #Assigned lower load (only 2 lectures/week)

\$ DOFA to arrange for these via spouse employment cell.

Core course teaching requirements for academic session 2014-2015 1 semester

Course(s)	Course no	Course name	units	No of students (estimated)	No of sections		Instruction units		Total (instruction and tutorial) units	
					Tutorials	Lab				
First semester courses	CHM101	Chemistry lab	0-0-3 [3]	420	-	12	0	12	12	
	MTH101	Mathematics-I	3-1-0 [11]	840	8	-	4	12	12	
	PHY101	Physics lab	0-0-3 [3]	420	-	12	0	12	12	
	PHY102	Physics-I	3-1-0 [11]	420	4	-	2	6	6	
	PHY103	Physics-II	3-1-0 [11]	420	4	-	2	6	6	
	ESCI01	computing	3-1-3 [14]	420	12	12	2	14	14	
	LIF101	Life sciences	2-0-0 [6]	420	-	-	1.5#	1.5	1.5	
	TA101	Engineering graphics	2-0-3 [9]	420	-	12	1.5#	13.5	13.5	
	ENG112	English Language	3-1-0 [11]	90	-	-	1.5	1.5	1.5	
	HSS-1 (1)	Humanities-I	3-1-0 [11]	750	-	-	4	4	4	
	ESC201	Electronics	3-1-3 [14]	420	12	12	2	14	14	
	TA201	Manufacturing lab	1-0-3 [6]	420	-	5	1*	6	6	
	TA202	Mechanical lab	1-0-3 [6]	420	-	5	1*	6	6	
	COM200	Comm skills	1-0-2 [5]	420	-	12	1*	13	13	
	HSS-1 (2)	Humanities-I	3-1-0 [11]	420	-	-	2	2	2	
Third semester courses	ESO201	thermodynamics	3-1-0 [11]	315	3	-	2	5	5	
	ESO202	Mechanics of solids	3-1-0 [11]	315	9	-	2	11	11	
	ESO203	Intro electr engineering	3-1-2 [13]	140	4	4	1.5	5.5	5.5	
	ESO204	Flid Mech and Rt Proc.	3-1-0 [11]	315	3	-	2	7	7	
	ESO205	Nat and Prop of Mat	3-1-3 [14]	185	5	5	2	8	8	
	ESO206	Biotechnology	3-1-0 [11]	210	6	-	2	8	8	
	ESO207	Data Structures	3-0-0 [9]	130	-	-	1.5	1.5	1.5	
	ESO208	Numerical Methods	3-1-0 [11]	315	9	-	2	11	11	
	ESO209	Dynamics	2-1-0 [8]	185	2	-	2	4	4	
	MSO202a	Complex Analysis	3-1-0 [6]	500	2.5	-	1	3.5	3.5	
	MSO203b	Partial Differential Eqn	3-1-0 [6]	500	2.5	-	1	3.5	3.5	
	MTH102R	Mathematics-II	3-1-0 [11]	70	1	-	1.5	2.5	2.5	
	Repeat	CHM102R	Gen Chemistry	2-1-0 [8]	35	1	-	0.750	1.75	1.75

Total units required = 192.75 Science Units = 60.75 Engineering science units = 86 Other Units = 46

Note: 1. When a course has both tutorial and lab, the tutor is supposed to take care of both tutorial and lab sessions.
2. Instruction unit

- Only lab courses: 1.0
- Lecture course (class size <60) : 1.0
- Lecture course (60 to 150) : 1.5
- Lecture course (>150 to 600) : 2.0
- Lecture course (>600) : 4.0
- *1.0 if 1 lecture/wk
- *1.5 if 2 lectures/wk
- *1.0 if 1 lecture/wk
- *1.5 if 2 lectures/wk
- tutorials: 1.0

REPORT OF THE CORE CURRICULUM COMMITTEE (CCC) ASSIGNING CORE TEACHING LOAD FOR 2014-2015-I SEMESTER

GUIDELINES FOR DRAWING INSTRUCTOR-IN-CHARGE FOR CORE COURSES

Based on the report of the Manindra Agarwal committee, the instructor-in-charge for the courses below will be drawn from various departments as per the schedule below.

Course No and Title	2010-11 & 2011-12	2012-13 & 2013-14	2014-15 & 2015-16	2016-17 & 2017-18
TA101 (Engineering Graphics)	CE	ME	CE	AF
ESO201 (Thermodynamics)	AE	CHE	ME	CHE
ESO202 (Solid Mechanics)	ME	CE	AE	CE
ESO204 (Fluid Mechanics)	CHE	AE	CHE	ME

The instructor-in-charge for the various other core courses shall be provided at all times by various departments as given below.

Department	Course(s)
BSBE	LIF101, ESO206
CHM	CHM101, CHM102, CHM102R, CSO201, CSO202
CE	ESO208
CSE	ESC101, ESO207
EE	ESC201, ESO203
HSS	HSS-1, ENG112, ENG112R, HSS-II
ME	TA202, ESO209
MSE	TA201, ESO205
MTH	MTH101, MTH101R, MTH102, MTH102R, MSO201, MSO202a, MSO203b
PHY	PHY101, PHY102, PHY103, PSO201

9936524232

MTH

Availability of elective seats in various ESO/SO courses in the odd semester

Course	Projected maximum Registration	Compulsory seats	Elective seats	Registration in 2013-14-I
ESO201 (thermodynamics) 3-1-0-0 (11)	315	76 (CHE)* 99 (ME)*	140	
ESO202 (mechanics of solid) 3-1-0-0 (11)	315	105 (CE)* 97 (MSE)*	113	
ESO203 (Intro to electrical engg) 3-1-2-0 (13)	140	0	140	
ESO204 (Fluid Mechanics and Rate Processes) 3-1-0-0 (11)	315	48 (AE)* 105 (CE)*	162	
ESO205 (Nature and Properties of Materials) 3-1-3-0 (14)	185\$	76 (CHE)** 97 (MSE)*	12	
ESO206 (Biotechnology) 3-1-0-0 (11)	210	40 (BSBE)*	170	
ESO207 (Data Structures) 3-0-0-0 (9)	130	49 (MTH)*	81	
ESO208 (Numerical Methods) 3-1-0-0 (11)	315	105 (CE)** 97 (MSE)** 76 (CHE)*	37	
ESO209 (Dynamics) 2-1-0-0 (8)	185	99 (ME)# 48 (AE)#	38	
MSO202a (Complex Analysis) 3-1-0-0 (6)	500	48 (AE)* 99 (ME)* 131 (EE)*	222	
MSO203b (Partial Differential Eqns) 3-1-0-0 (6)	500	48 (AE)* 99 (ME)* 131 (EE)* 97 (MSE)* 105 (CE)*	20	
MTH102R (Mathematics II) 3-1-0-0 (11)	70	For backloggers		
CHM102R (General Chemistry) 2-1-0-0 (8)	35	For backloggers		

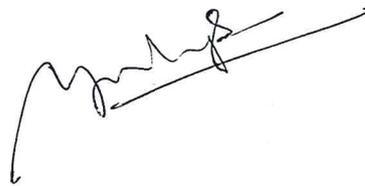
* compulsory in 3rd semester

** compulsory in 5th semester

3rd semester departmental course

\$ cannot increase class size due to lab component

Room allocation to be done by DoAA as per the actual registration.



Appendix

ESO/SO requirements for students from various departments

Students from all departments must take at least 44 credits of ESO/SO. Department requirements for such ESO/SO courses are given below. The ESO/SO courses which have to be taken compulsorily by the students (**bold**) and which may be taken as electives (in *italics*) of various departments are also shown. The number in brackets show the credits.

Department requirements	Odd semester	Even semester
AE (all compulsory)	ESO204 (11) , MSO202a (6) , MSO203b (6)	ESO202 (11) , ESO201 (11)
BSBE (at least 44 credits, any two from ESO201/ ESO205/ESO208)	ESO206 (11) ESO201 (11) , ESO205 (14) , ESO208 (11)	MSO201 (11) ESO201 (11)
CHE (at least 44 credits, any one from CSO201/CSO202)	ESO201 (11) , ESO208 (11) ESO205 (14) – 5 th sem	CSO201 (11) CSO202 (11)
CE (all compulsory)	ESO202 (11) , ESO204 (11) , MSO203b (6) ESO208 (11) – 5 th sem	MSO201 (11)
CHM (at least 44 credits, at least 11 credits of SO, at least 11 credits of ESO)	ESO201 (11) , ESO202 (11) , ESO203 (11) , ESO204 (11) , ESO205 (11) , ESO206 (11) , ESO207 (10) , ESO208 (11) , ESO209 (8) , MSO202a (6) , MSO203b (6)	ESO201 (11) , ESO202 (11) , ESO203 (11) , CSO202 (11) , PSO201 (8)
CSE (at least 44 credits, at least 11 credits of ESO)	ESO201 (11) , ESO202 (11) , ESO203 (11) , ESO204 (11) , ESO205 (11) , ESO206 (11) , ESO207 (10) , ESO208 (11) , ESO209 (8) , MSO202a (6) , MSO203b (6)	MSO201 (11) , ESO201 (11) , ESO202 (11) , ESO203 (11) , CSO201 (11) , CSO202 (11) , PSO201 (8)
EE (at least 44 credits)	MSO202a (6) , MSO203b (6) ESO201 (11) , ESO202 (11) , ESO204 (11) , ESO205 (11) , ESO206 (11) , ESO207 (10) , ESO208 (11) , ESO209 (8)	MSO201 (11) , ESO203 (11) , ESO201 (11) , ESO202 (11) , CSO201 (11) , CSO202 (11) , PSO201 (8)
ECO (at least 44 credits, at least 22 credits of SO, at least 11 credits of ESO)	ESO201 (11) , ESO202 (11) , ESO203 (11) , ESO204 (11) , ESO205 (11) , ESO206 (11) , ESO207 (10) , ESO208 (11) , ESO209 (8) , MSO202a (6) , MSO203b (6)	MSO201 (11) , ESO201 (11) , ESO202 (11) , ESO203 (11) , CSO201 (11) , CSO202 (11) , PSO201 (8)
MSE (all compulsory)	ESO202 (11) , ESO205 (14) , MSO203b (6) , ESO208 (11) – 5 th sem	PSO201 (8)
ME (all compulsory)	ESO201 (11) , MSO202a (6) , MSO203b (6)	ESO202 (11) , ESO203 (11)
MTH (at least 44 credits)	ESO207 (10) – 5 th sem, ESO201 (11) , ESO202 (11) , ESO203 (11) , ESO204 (11) , ESO205 (11) , ESO206 (11) , ESO208 (11) , ESO209 (8)	MSO201 (11) , ESO201 (11) , ESO202 (11) , ESO203 (11) , CSO201 (11) , CSO202 (11) , PSO201 (8)
PHY (at least 44 credits, at least 11 credits of ESO)	ESO201 (11) , ESO202 (11) , ESO203 (11) , ESO204 (11) , ESO205 (11) , ESO206 (11) , ESO207 (10) , ESO208 (11) , ESO209 (8) , MSO202a (6) , MSO203b (6)	PSO201 (8) , ESO201 (11) , ESO202 (11) , ESO203 (11) , CSO201 (11) , CSO202 (11)