

**REPORT OF THE CORE CURRICULUM COMMITTEE (CCC) ASSIGNING CORE
TEACHING LOAD FOR 2013-2014-1ST 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. & Title	2010-11 & 2011-12	2012-13 & 2013-14	2014-15 & 2015-16	2016-17 & 2017-18
TA101 (ENGINEERING GRAPHICS)	CE	ME	CE	AE
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 various other core courses shall be provided at all times by various departments as below,

Department	Course(s)
BSBE	LIF101, ESO206
CHM	CHM101, CHM102, CHM102R, CSO201, CSO202
CE	ESO208
CSE	ESC101, ESO207
EE	ESC201, ESO203
HSS	HSS-I, ENG112, ENG112R, COM200
ME	TA202, ESO209
MSE	TA201, ESO205
MTH	MTH101, MTH101R, MTH102, MTH102R, MSO201, MSO202a, MSO203b
PHY	PHY101, PHY102, PHY103, PSO201

Table 2. Department-wise Distribution of Core Course Instructors for 2013-14 1st Semester

Sl. No.	Department	Course(s)
1	AE	ESO204
2	BSBE	LIF101, ESO206
3	CHE	ESO201
4	CHM	CHM101, CHM102R
5	CE	ESO202, ESO208
6	CSE	ESC101, ESO207
7	EE	ESC201, ESO203
8	HSS	HSS-I, ENG112, COM200
9	MTH	MTH101, MTH102R, MSO202a, MSO203b
10	ME	TA101, TA202, ESO209
11	MSE	TA201, ESO205
12	PHY	PHY101, PHY102, PHY103

Important Notes

1. Tutorial section size is normally 35 for ESC101, ESC201, ESO202, ESO203, ESO205, ESO206 and ESO208.
2. Tutorial section size is normally 100 for MTH101, MTH102R, PHY102, PHY103, MSO202a, MSO203b, ESO201, ESO204 and ESO209.
3. One tutor will be assigned per section (normally 35 students) for PHY101 and CHM101 laboratory sessions.
4. One tutor will be assigned per day (i.e., per three sections, i.e., ~ 90 students) for TA201 and TA202 labs.
5. Tutors assigned for ESC101, ESC201, ESO203 and ESO205 tutorials will also take care of the laboratory sessions of the same sections.
6. Increasing the number of sections in any course is undesirable.
7. Student number in each section may be increased slightly, i.e., up to 40 in sections normally having 35 students and up to 110 in sections normally having 100 students to prevent increase in the number of sections.
8. The total registration in some courses has to be restricted considering seating capacity of the lecture hall assigned for the course.
9. The number of sections in some ESO/SO courses may be reduced in certain cases after registration, in case the number of students registered is less than expected.

Table 3. Department/IDP-wise Allocation of Instructor's and/or Tutors for Core Courses for 2013-14 1st Semester

Course No.	Course Name	Units Req'd	AE	BSBE	CHE	CE	CSE	EE	IME	ME	MSE	MSP	CHM	MTH	PHY	HSS	TOTAL
CHM 101	Chemistry Lab	12.0											0+12				0+12
MTH 101	Mathematics-I	12.0												4+8			4+8
PHY101	Physics Lab	12.0													0+12		0+12
PHY102	Physics-I	6.0													2+4		2+4
PHY103	Physics -II	6.0													2+4		2+4
ESC101	Fund. Of Computing	14.0					2+12										2+12
LIF101	Life Sciences	1.5		1.5+0													1.5
TA101	Engineering Graphics	13.5	0+3			0+5				1.5+4							1.5+12
ENG112	English Language	3.0														3+0	3+0
HSS-I (1)	Humanities-I	10.5														10.5+0	10.5+0
ESC201	Electronics	14.0						2+12									2+12
TA201	Manufact. Proc. (MSE)	6.0									1+5						1+5
TA202	Manufact. Proc. (ME)	6.0								1+5							1+5
COM200	Communication Skills	13.0			0+1	0+1			0+10							1+0	1+12
HSS-I (2)	Humanities-I	6.0														6+0	6+0
ESO201	Thermodynamics	5.0			2+3												2+3
ESO202	Mechanics of Solids	11.0	0+2			2+3				0+4							2+9
ESO203	Intro. Electrical Engg.	5.5						1.5+4									1.5+4
ESO204	Fld. Mech. and Rate Proc.	5.0	2+2			0+1											2+3
ESO205	Nat. and Prop. of Mat.	7.0									2+3	0+2					2+5
ESO206	Biotechnology	8.0		2+6													2+6
ESO207	Data Structures	2.0					2+0										2
ESO208	Numerical Methods	11.0			0+5	2+4											2+9
ESO209	Dynamics	4.0	0+1							2+1							2+2
MSO202a	Complex Analysis	3.5	0+0.5					0+0.5		0+0.5				1+1			1+2.5
MSO203b	Partial Diff. Equations	3.5	0+0.5			0+0.5		0+0.5		0+0.5	0+0.5			1+0			1+2.5
MTH102R	Mathematics-II	2.5												1.5+1			1.5+1
CHM102R	General Chemistry	1.75											0.75+1				0.75+1
Total Load Assigned			11	9.5	11	18.5	16	20.5	10	19.5	11.5	2	13.75	17.5	24	20.5	205.25
Approximate Faculty Strength			19	15	19	31	23	35	17	34	20	-	23	31	33	31	
Load Assigned : Faculty Ratio			0.58	0.63	0.58	0.60	0.70	0.59	0.59	0.57	0.58		0.60	0.56	0.73	0.66	

Units are assigned as 'm + n', where 'm' indicate instructor units and 'n' indicates tutor units;

For MSO202a and MSO203b, 0.5 tutor units is assigned per tutorial

(Purnendu Bose)
Chairman, CCC

Appendix

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 units of ESO /SO of which at least 08 units must be ESO and 08 units 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)	ESO204 (11) MSO202a (06) MSO203b (06)	ESO202 (11) ESO201 (11)
BSBE (at least 41 units) (any two from <i>ESO201 / ESO205 / ESO208</i>)	ESO206 (11) <i>ESO201 (11)</i> <i>ESO205 (14)</i> <i>ESO208 (11)</i>	MSO201 (11) <i>ESO201(11)</i>
CHE (at least 41 units) (any one from <i>CSO201 / CSO202</i>)	ESO201 (11) ESO208 (11) ESO205 (14) – 5th Sem	<i>CSO201 (11)</i> <i>CSO202 (11)</i>
CE (all Compulsory)	ESO202 (11) ESO204 (11) MSO203b(06) ESO208 (11) – 5th Sem	MSO201 (11)
CHM (at least 41 units) (at least 08 units of SO) (at least 08 units of ESO)	<i>ESO201 (11)</i> <i>ESO202 (11)</i> <i>ESO203 (13)</i> <i>ESO204 (11)</i> <i>ESO205 (14)</i> <i>ESO206 (11)</i> <i>ESO207 (09)</i> <i>ESO208 (11)</i> <i>ESO209 (08)</i> <i>MSO202a (06)</i> <i>MSO203b (06)</i>	<i>ESO201 (11)</i> <i>ESO202 (11)</i> <i>ESO203 (13)</i> <i>CSO202 (11)</i> <i>PSO201 (08)</i>
CSE (at least 41 units) (at least 08 units of ESO)	<i>ESO201 (11)</i> <i>ESO202 (11)</i> <i>ESO203 (13)</i> <i>ESO204 (11)</i> <i>ESO205 (14)</i> <i>ESO206 (11)</i> <i>ESO208 (11)</i> <i>ESO209 (08)</i> <i>MSO202a (06)</i> <i>MSO203b (06)</i>	MSO201 (11) <i>ESO201 (11)</i> <i>ESO202 (11)</i> <i>ESO203 (13)</i> <i>CSO201(11)</i> <i>CSO202 (11)</i> <i>PSO201 (08)</i>

Departmental Requirements	Odd Semester	Even Semester
EE (at least 41 units)	MSO202a (06) MSO203b (06) <i>ESO201 (11)</i> <i>ESO202 (11)</i> <i>ESO204 (11)</i> <i>ESO205 (14)</i> <i>ESO206 (11)</i> <i>ESO207 (09)</i> <i>ESO208 (11)</i> <i>ESO209 (08)</i>	MSO201 (11) ESO203 (13) <i>ESO201 (11)</i> <i>ESO202 (11)</i> <i>CSO201 (11)</i> <i>CSO202 (11)</i> <i>PSO201 (08)</i>
ECO (at least 41 units) (at least 19 units of SO) (at least 08 units of ESO)	<i>ESO201 (11)</i> <i>ESO202 (11)</i> <i>ESO203 (13)</i> <i>ESO204 (11)</i> <i>ESO205 (14)</i> <i>ESO206 (11)</i> <i>ESO207 (09)</i> <i>ESO208 (11)</i> <i>ESO209 (08)</i> <i>MSO202a (06)</i> <i>MSO203b (06)</i>	MSO201 (11) <i>ESO201 (11)</i> <i>ESO202 (11)</i> <i>ESO203 (13)</i> <i>CSO201(11)</i> <i>CSO202 (11)</i> <i>PSO201 (08)</i>
MSE (all compulsory)	ESO202 (11) ESO205 (14) MSO203b (06) ESO208 (11) – 5th Sem	PSO201 (08)
ME (all compulsory)	ESO201(11) MSO202a (06) MSO203b (06)	ESO202(11) ESO203(13)
MTH (at least 41 units)	ESO207 (09) – 5th Sem <i>ESO201 (11)</i> <i>ESO202 (11)</i> <i>ESO203(13)</i> <i>ESO204 (11)</i> <i>ESO205 (14)</i> <i>ESO206 (11)</i> <i>ESO208 (11)</i> <i>ESO209 (08)</i> <i>MSO202a (06)</i> <i>MSO203b (06)</i>	MSO201 (11) <i>ESO201 (11)</i> <i>ESO202 (11)</i> <i>ESO203 (13)</i> <i>CSO201 (11)</i> <i>CSO202 (11)</i> <i>PSO201 (08)</i>
PHY (at least 41 units) (at Least 08 units of ESO)	<i>ESO201 (11)</i> <i>ESO202 (11)</i> <i>ESO203 (13)</i> <i>ESO204 (11)</i> <i>ESO205 (14)</i> <i>ESO206 (11)</i> <i>ESO207 (09)</i> <i>ESO208 (11)</i> <i>ESO209 (08)</i> <i>MSO202a (06)</i> <i>MSO203b (06)</i>	PSO201 (08) <i>ESO201 (11)</i> <i>ESO202 (11)</i> <i>ESO203 (14)</i> <i>CSO201 (11)</i> <i>CSO202 (11)</i>

Availability of Elective Seats in Various ESO/SO Courses in the Even Semester

Course	Maximum Registration (Room Allot: Cap.)	Compulsory Seats	Elective Seats
ESO201 (Thermodynamics) 3-1-0-0 (11)	315 [L16: 325 Students]	CHE*:76 ME*: 99 Total: 175	140
ESO202 (Mechanics of Solids) 3-1-0-0 (11)	315 [L17: 325 Students]	CE*: 105 MSE*:97 Total: 202	113
ESO203 (Intr. To Electrical Engg.) 3-1-2-0 (13)	140 [L1: 250 Students]	--	140
ESO204 (Fluid Mech. and Rate Proc.) 3-1-0-0 (11)	315 [L16: 325 Students]	AE*: 48 CE*: 105 Total: 153	162
ESO205 (Nat. And Prop. Materials) 3-1-3-0 (14)	185^{\$} [L2: 250 Students]	CHE**: 76 MSE*: 97 Total: 173	12
ESO206 (Biotech.) 3-1-0-0 (11)	210 [L1: 250 Students]	BSBE*: 40 Total: 40	170
ESO207 (Data Str.) 3-0-0-0 (09)	210 [L2: 250 Students]	MTH**: 49 Total: 49	161
ESO208 (Num. Meth.) 3-1-0-0 (11)	315 [L17: 325 Students]	CE**: 105 MSE**: 97 CHE*: 76 Total:278	37
ESO209 (Dynamics) 2-1-0-0 (08)	185 [L2: 250 Students]	ME#: 99 AE#: 48 Total: 147	38
MSO202a (Complex Analysis) 3-1-0-0 (06)	490 [L7: 525 Students]	AE*: 48 ME*: 99 EE*: 131 Total: 278	212
MSO203b (Partial Diff. Eqns.) 3-1-0-0 (06)	518 [L7: 525 Students]	AE*: 48 ME*: 99 EE*: 131 MSE*: 97 CE*: 105 Total: 480	38
MTH102R (Mathematics II) 3-1-0-0 (11)	70 [L6: 125 Students]	For Back-Loggers	
CHM102R 2-1-0-0 (08)	35 [L8: 90 Students]	For Back-Loggers	

* Compulsory in 3rd Semester

**Compulsory in 5th Semester

#3rd Semester Departmental Course

^{\$}Cannot increase class size due to lab component