REPORT OF THE CORE CURRICULUM COMMITTEE (CCC) ASSIGNING CORE TEACHING LOAD FOR 2011-2012-II SEMESTER

GUIDELINES FOR DRAWING INSTRUCTOR- IN- CHARGE FOR CORE COURSES

(Based on the recommendation of Manindra Agarwal committee)

 A course should stay with the same department for two consecutive years before moving to another, if several departments have the capability to provide the instructor- in-Charge. Accordingly, the Instructor-in-Charge is to be drawn from various departments as under for the next eight years:

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
ESO202 (THERMODYNAMICS)	AE	CHE	ME	CHE
ESO204 (SOLID MECHANICS)	ME	CE	AE	CE
ESO212 (FLUID MECHANICS)	CHE	AE	CHE	ME

- Only exception to (1) above is the course TA201 (Manufacturing processes) which will alternate between ME and MSE and the changeover will be at the end of every academic year.
- 3. For all courses not covered in (1) and (2) above the Instructor-in-Charge will come from departments as follows:

Department (s)	Course(s)
Biological Science & Bioengineering	LIF101Life Sciences
Chemistry	CHM101,CHM102,CHM201R
Civil Engineering	ESO218 (Comp. Methods)
Computer Science & Engineering	ESC101 (Computing)
Electrical Engineering	ESO210 (Introduction to EE)
Humanities & Social Sciences	HSS-I,HSS-II,
Materials Science & Engineering	ESO214 (Materials)
Mathematics & Statistics	MTH101R, MTH102,MTH102R, ESO209
Physics	PHY101,PHY102,PHY103,PHY103R,

TABLE 1 :

Core Course teaching requirements for Academic Session 2011-2012-II Semester

Course(s)	Course No., Name and Units	No. of Students	No. c Sectio		Instructor	Units Required
		estimated	Tutorial	Lab.	Units	rtoquirou
	CHM 101 Chemistry Lab 0-0-3 [03]	320	-	8	1	9
	CHM 102 Chemistry –I 2-1-0 [8]	825	21	-	4	25
Second	MTH 102 Mathematics-II 3-1-0 [11]	825	21	-	4	25
Semester	PHY 101 Physics Lab. 0-0-3 [03]	510	-	13	1	14
	PHY 102 Physics-I 3-1-0 [11]	340	9	-	2	11
	PHY 103 Physics -II 3-1-0 [11]	510	13	-	2	15
	ESC 101 Computing 3-1-3 [14]	400	10	10	2	12
	LIF 101 Life Sciences 2-0-0 [06]	510	-	-	2	2
	TA 101 Engineering Graphics 2-0-2 [08]	530	13	13	2	15
Fourth Semester	TA201 Manufacturing Process (2-0-6-0,5)	450	10	-	2	12
	ESO 202 Thermodynamics [3-1-0-1,4]	60	2	-	1	3
ESO	ESO 204 Mechanics of Solids [3-1-0-1,4]	300	8	-	2	10
	ESO 209 Probability & Statistics [3-1-0-1,4]	220	6	.=.	2	8
	ESO 210 Electrical Engineering [3-1-2-0,5]	250	6	-	2	8
	ESO 212 Fluid Mechanics [3-1-0-1,4]	68	2	-	1.5	3.5
	ESO 214 Properties of Materials [3-1-3-1,5]	125	3	-	1.5	4.5
	ESO 218 Computing Methods [3-0-0-0.5]	210	5	5	2	7
Repeat	CHM201R Chemistry II [3-1-0-1,4]	30	1	-	1	2
	MTH 101R Mathematics-I [3-1-0 [11]	60	2	-	1	3
	MTH 102R Mathematics-II * [3-1-0-1,4]	40	1	-	1	2
	PHY103R Physics II [3-1-0-1,4]	110	3	-	1.5	4.5
Total Units		ce Units = 112.	5 ; Eng	ineering S	Science Units =	= 83

Note: 1.The number of Sections in ESO Courses may change following registration.

- 2. Maximum of 40 students per section in Basic Sciences and 40 students per section in Engg. Science
- 3. No. of Tutor(s): Maximum of the number of tutorial/ lab section(s)
- 4. Instructor: For lab Courses, instructor units are 1.0;

For other courses: less than 60 students 1.0 unit 60 -150 student 1.5 units, 150-600 students 2.0 units, More than 600 students 4.0 units

TABLE 2: Department/IDP-wise Distribution of Core Course instructors for the Academic Session 2011-12 Second Semester.

SI.	Department/IDP	Course(s)
No.	•	, ,
1	Aerospace Engineering (AE)	ESO 202
2	Biological Sc. & Bio Engineering (BSBE)	LIF 101
3	Chemical Engineering (CHE)	ESO212
4	Chemistry (CHM)	CHM101,CHM102,CHM201R
5	Civil Engineering (CE)	TA 101
6	Computer Sc. & Engineering (CSE)	ESC101
7	Electrical Engineering (EE)	ESO210
8	Humanities & Social Sciences (HSS)	HSS-I,HSS-II
9	Industrial & Management Engineering (IME)	
10	Mathematics & Statistics (MTH)	MTH101R, MTH102, MTH102R
11	Mechanical Engineering (ME)	ESO 204
12	Materials Science & Engineering (MSE)	ESO214,TA201
13	Material Science Programme	
14	Physics (PHY)	PHY101,PHY102,PHY103,PHY103R

TABLE 3:

Department/IDP-wise Allocation of Instructor's and/or Tutors for Core Courses in Science & Engineering for 2011-12-II Semester

List (a): Courses to which the instructor in-charge is always provided by the same department 146 4471 CHM 101 Chemistry Lab 25 1421 4421 CHM 102 Chemistry Lab 25 26 243 244 MTH 102 Mathematics-11 14 25 24 4421 4421 PHY 102 Physics-12 bry Vince-12 14 2440 2443 2443 2443 ESC 103 Probability & Stat. 8 2 + 6 2+6		Redd.	AE	BSBE	CHE	CE	CSE	EE	IME	ME	MSE	MSP CHM	CHM	MTM	мтн Рнү	DES	HSS	TOTAL
S S S S S S S S S S	List (a) : Courses to which t	he instru	ctor in	charge	is alwa	ys prov	ided by	the same	e doba	rtment								ă
25 4421 4	CHM 101 Chemistry Lab	6											1+8					4+8
15 16 17 17 17 17 17 17 17	CHM 102 Chemistry-I	25											4+21					4424
14 14 <td< td=""><td>MTH 102 Mathematics-II</td><td>25</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>4+21</td><td></td><td></td><td></td><td>4+24</td></td<>	MTH 102 Mathematics-II	25												4+21				4+24
11 11 2+9 2 15 2 2+10 2+13 2+13 2 2 2+10 2+13 1 3 4.5 2 2+6 2+4 1 4.5 7 2 2+3 1 1 4.5 7 2 2+3 1 1 1 1 2 3 1 4.5 1 1+1 1	PHY 101 Physics Lab	14				1					17.5				1+13			1+13
15 15 2+13 2 2 2 1 4.5 2+4 1 3 4.5 2 2+3 4.5 4.5 1.5+3 1 4.5 2 2+3 15+3 14+1 14-1 14-1 15-3 3 4.5	PHY 102 Physics-1	11									7				2+9			2+9
12 2 2+10 1 4 2+4 1 4 2+4 1 2	PHY 103 Physics -2	15													2+13			2+13
2 2 4 1 2+4 1 g 8 1 2+6 1.5+3 1 g 4.5 1 2+6 1.5+3 1 1 ds 7 2 2+3 1.5+3 1 1 1 3 1 4.5 1 1+1 1+2 1 1+2 1 <	ESC 101 Computing	12					2+10	COLUMN SERVICE					ATT THE					2+10
8 1 1 2+4 7 2+6 1.5+3 7 2+6 1.5+3 7 2+6 1.5+3 7 2+6 1.5+3 7 2+6 1.5+3 7 2+6 1.5+3 2 2+6 1.5+3 2 2+6 1.5+3 2 2+2 2+2 2+2 2+2 2+2 2+4	LIF 101 Life Sciences	2		2														2
9 8 2+6 1.5+3 6 4.5 2 2+3 1.5+3 6 1.5+3 7 7 2 2 2 2 2 2 2 2 2 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 instructor-in-charge is provided by two or more departments 5 2+5 4 4.5+3 12 4 2+4 5 2+5 4 12 4 2+4 5 2+5 4 12 4 5 2+5 4 10 2 4 4 4 3 1+0 1 4 4 10 2 4 4 4 3.5 1 1.5+1 4 4	ESO 209 Probability & Stat.	8						-						2+4			+	2+6
4.5 4.5 1.5+3 1.5+3 4.5 2 2+3 1.5+3 141 3 4.5 112 1.5+3 instructor-in-charge is provided by two or more departments 5 2+5 1.5+3 12 4 2+4 5 2+5 10 2 1 1.5+1 1 3.5 1 1.5+1 1 1 3.5 1 1.5+1 1 1 3.5 1 1.5+1 1 1	ESO 210 Elect. Engineering	8		00				2+6										2+E
ds 7 2 2+3 4.5 1+1 1+1 1+2 2 4.5 1+1 1+2 1+1 1+2 1+1	ESO 214 Prop. of Materials	4.5								H	1.5+3							1.5+3
15 4.5 1+1 1+2 1+1 1+2 1+1 1+2 1+1 1+2 1+1	ESO 218 Computing Methods	7			2	2+3					18-17-51							2+5
3 1+2 4.5 1+1 instructor-in-charge is provided by two or more departments 15 4 12 5 3 1+0 10 2 3.5 1 3.5 1 1.5+1 3 2+3 1 1.5+1 1.5+1	CHM 201R Chemistry 1	2											1+1					++
15 4.5 instructor-in-charge is provided by two or more departments 15 4 2+4 5 5 2+5 5 1 1.5+3 1.6 3 1+0 1 3 2+3 5 1 1.5+1	MTH101R Mathematics-1	2												1+2				4+2
instructor-in-charge is provided by two or more departments 15 4 2+4 5 2+5	MTH102R Mathematics -2	2												++				++
instructor-in-charge is provided by two or more departments 15 4 2+4 5 2+5 1	PHY103R Physics-2	4.5							10	100					1.5+3			1.5+3
15 4 2+4 5 2+5 12 5 2+5 3 1+0 1 10 2 2+3 3.5 1 1.5+1	List (b) : Courses where inst	tructor-in	-charge	e is prov	ided b		r more d	lepartme	nts									
12 5 2+5 3 1+0 1 10 2 3 3.5 1 1.5+1	TA 101 Engg. Graphics	15	4			2+4				2						-		2+13
3 1+0 1 1 10 2 2 2+3 2+3 3.5 1 1.5+1	TA 201 Manuf. Process *	12					300			5	2+5							2+10
10 2 3 3.5 1 1.5+1	ESO 202 Thermodynamics	67	1+0		-					-								1+2
3.5 1	ESO 204 Mech. of Solids	10	2		100000000000000000000000000000000000000	6				2+3								2+8
	ESO 212 Fluid Mechanics	3.5	-		1.5+1													1.5+2

If units are assigned as m + n, then m indicates Instructor units and n indicates tutor unites; If units are assigned as n, then * As per the discussion in IAC meeting on 19 April 2011, the upper limit of the number of sections in TA201 is to be 10. n indicates tutor units only, except the course ESO211 where the number 2 is the Instructor units.

Outgoing Chairman, CCC