New GCC sended by Sarkar Ji

Department wise distribution of core course instructors for 2014-15 I{st} semester

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

Important notes

1. Section size is normally 35, except in MTH102, MTH101R, PHY102, PHY103 and MSO201 where section size is normally 100.
2. One tutor will be assigned per day (i.e. Per three sections i.e. ~90 students) for TA201 and TA202 labs.
3. Increasing the number of sections in any course is undesirable.
4. Student number in each section may be increased slightly, i.e, up to 40 in sections normally having 35 students and upto 105 in sections normally having 100 students to prevent increase in number of sections.
5. The total registration in some courses has to be restricted considering the seating capacity of the lecture halls assigned for the courses.
6. 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.

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 | DOFA$ | 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 |
| LIF101 | Life sciences | 1.5 | | 1.5 | | | | | | | | | | | | | | | 1.5+0 |
| TA101 | Engineering graphics | 13.5 | 0+2 | | | 1.5#+8 | | | | 0+2 | | | | | | | | | 1.5+12 |
| ENG112 | English Language | 1.5 | | | | | | | | | | | | | | 1.5# | | | 1.5+0 |
| HSS-I (1) | Humanities-I | 4 | | | | | | | | | | | | | | 4 | | | 4+0 |
| ESC201 | Electronics | 14 | | | | | | 2+12 | | | | | | | | | | | 2+12 |
| TA201 | Manufacturing lab | 6 | | | | | | | | 2+12 | | | | | | | | | 2+12 |
| TA202 | Mechanical lab | 6 | | | | | | | | | 1*+5 | | | | | | | | 1+5 |
| CGM200 | Comm skills | 13 | | | | 0+1 | | | | 1*+5 | | | | | | | | | 1+5 |
| HSS-I (2) | Humanities-I | 2 | | | | 0+1 | | | 0+10 | | | | | | | 1+0 | 0+1 | | 1+12 |
| ESO201 | thermodynamics | 2 | | | | | | | | 2+0 | | | | | | | | | 2+0 |
| ESO202 | Mechanics of solids | 11 | 2+3 | | | 0+2 | | | | | | | | | | | | | 2+3 |
| ESO203 | Intro electr engineering | 5.5 | | | | | | 1.5+4 | | 0+4 | | | | | | | | | 2+9 |
| ESO204 | Fld Mech and Rt Proc. | 5 | 0+1 | 2+2 | 0+1 | | | | | | | | | | | | | | 1.5+4 |
| ESO205 | Nut and Prop of Mat | 7 | | 0+1 | | | | | | 2+3 | | | 0+1 | | | | | | 2+3 |
| ESO206 | Biotechnology | 3 | | 2+6 | | | | | | | | | | | | | | | 2+5 |
| ESO207 | Data Structures | 1.5 | | | | | 1.5+0 | | | | | | | | | | | | 2+6 |
| ESO208 | Numerical Methods | 11 | | 0+4 | 2+4 | | | | 0+1 | | | | | | | | | | 1.5+0 |
| ESO209 | Dynamics | 4 | 0+1 | | | | | | 2+1 | | | | | | | | | | 2+9 |
| MSO202a | Complex Analysis | 3.5 | | | | | 0+1 | | | | | | | | | | | | 2+2 |
| MSO203b | Partial Differential Eqn | 3.5 | 0+1 | | 0+0.5 | | | | 0+0.5 | 0+0.5 | | | 1+1 | | | | | | 1+2.5 |
| MTH102R | Mathmatics-II | 2.5 | | | | | | | | | | | 1+0 | | | | | | 1+2.5 |
| CHM102R | Gen Chemistry | 1.75 | | | | | | | | | | 0.75+1 | 1.5+1 | | | | | | 1.5+1 |
| Total load assigned | 192.75 | 10 | 9.5 | 9 | 19 | 15.5 | 20.5 | 10 | 22 | 11.5 | 0.75+1 | 13.75 | 17.5 | 25 | 8.5 | 1 | 0 | |
| 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 lectures/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 I semester

| Course(s) | Course no | Course name | units | No of students (estimated) | No of sections — Tutorials | No of sections — Lab | Instruction units | Total (instruction and tutorial) units |
|---|---|---|---|---|---|---|---|---|
| First semester courses | CHM101 | Chemistry lab | 0-0-3 [3] | 420 | - | 12 | 0 | 12 |
| | MTH101 | Mathematics-I | 3-1-0 [11] | 840 | 8 | - | 4 | 12 |
| | PHY101 | Physics lab | 0-0-3 [3] | 420 | - | 12 | 0 | 12 |
| | PHY102 | Physics-I | 3-1-0 [11] | 420 | 4 | - | 2 | 6 |
| | PHY103 | Physics-II | 3-1-0 [11] | 420 | 4 | - | 2 | 6 |
| | ESC101 | computing | 3-1-3 [14] | 420 | 12 | 12 | 2 | 14 |
| | LIF101 | Life sciences | 2-0-0 [6] | 420 | - | - | 1.5 | 1.5 |
| | TA101 | Engineering graphics | 2-0-3 [9] | 420 | - | 12 | 1.5# | 13.5 |
| | ENG112 | English Language | 3-1-0 [11] | 90 | - | - | 1.5 | 1.5 |
| | HSS-I (1) | Humanities-I | 3-1-0 [11] | 750 | 12 | - | 2 | 14 |
| Third semester courses | ESC201 | Electronics | 3-1-0 [11] | 420 | - | 5 | 1* | 6 |
| | TA201 | Manufacturing lab | 1-0-3 [6] | 420 | - | 5 | 1* | 6 |
| | TA202 | Mechanical lab | 1-0-2 [5] | 420 | - | 12 | 1* | 13 |
| | COM200 | Comm skills | 3-1-0 [11] | 420 | 3 | - | 2 | 5 |
| | HSS-I (2) | Humanities-I | 3-1-0 [11] | 420 | 3 | - | 2 | 5 |
| Engineering science options | ESO201 | thermodynamics | 3-1-0 [11] | 315 | 9 | - | 2 | 11 |
| | ESO202 | Mechanics of solids | 3-1-0 [11] | 315 | 4 | 4 | 1.5 | 5.5 |
| | ESO203 | Intro electr engineering | 3-1-0 [11] | 140 | 3 | - | 2 | 5 |
| | ESO204 | Fld Mech and Rt Proc. | 3-1-0 [11] | 315 | 5 | 5 | 2 | 7 |
| | ESO205 | Nat and Prop of Mat | 3-1-3 [14] | 185 | 6 | 5 | 2 | 8 |
| | ESO206 | Biotechnology | 3-1-0 [11] | 210 | - | - | 1.5 | 1.5 |
| | ESO207 | Data Structures | 3-0-0 [9] | 130 | - | - | 1.5 | 1.5 |
| | ESO208 | Numerical Methods | 3-0-0 [9] | 315 | 9 | - | 2 | 11 |
| | ESO209 | Dynamics | 2-1-0 [8] | 185 | 2 | - | 2 | 4 |
| Science options | MSO202a | Complex Analysis | 3-1-0 [6] | 500 | 2.5 | - | 1 | 3.5 |
| | MSO203b | Partial Differential Eqn | 3-1-0 [6] | 500 | 1 | - | 1.5 | 2.5 |
| Repeat | MTH102R | Mathematics-II | 3-1-0 [11] | 70 | 1 | - | 1.5 | 2.5 |
| | CHM102R | Gen Chemistry | 2-1-0 [8] | 35 | 1 | - | 0.750 | 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, #1.5 if 2 lectures/wk, *1.0 if 1 lecture/wk
Lecture course (>600): 4.0, $3.0 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 | CHE | ME | CHE |
| ESO201 (Thermodynamics) | AE | CE | AE | CE |
| 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[1] 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 |
| SSH | 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 |

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1   As per information provided by the Head, MTH, "all times" is not valid for MSO202a and MSO203b.

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

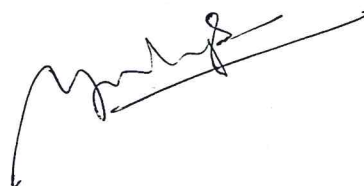| Course | Projected maximum Registration | Compulsory seats | Elective seats | Registration in 2013-14-I |
|---|---|---|---|---|
| ESO201 (thermodynamics) 3-1-0-0 (11) | 315 | 76 (CHE)* 99 (ME)* | 140 | |
| ESO202 (mechanics of solid) 3-1-0-0 (11) | 315 | 105 (CE)* 97 (MSE)* | 113 | |
| ESO203 (Intro 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 (Dyamics) 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 requirments 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)**<br>ESO201 (11), ESO205 (14), ESO208 (11) | **MSO201 (11)**<br>ESO201 (11) |
| CHE (at least 44 credits, any one from CSO201/CSO202) | **ESO201 (11), ESO208 (11)**<br>ESO205 (14) – 5th sem | CSO201 (11)<br>CSO202 (11) |
| CE (all compulsory) | **ESO202 (11), ESO204 (11), MSO203b (6)**<br>**ESO208 (11)** – 5th 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)**<br>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),<br>ESO201 (11), ESO202 (11), ESO203 (11), CSO201 (11), CSO202 (11), PSO201 (8) |
| MSE (all compulsory) | **ESO202 (11), ESO205 (14), MSO203b (6),**<br>**ESO208 (11)** – 5th sem | PSO201 (8) |
| ME (all compulsory) | **ESO201 (11), MSO202a (6), MSO203b (6)** | **ESO202 (11), ESO203 (11)** |
| MTH (at least 44 credits) | **ESO207 (10) – 5th sem,**<br>ESO201 (11), ESO202 (11), ESO203 (11), ESO204 (11), ESO205 (11), ESO206 (11), ESO208 (11), ESO209 (8) | MSO201 (11),<br>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),<br>ESO201 (11), ESO202 (11), ESO203 (11), CSO201 (11), CSO202 (11) |