

Office of the Dean Academics

Minutes of the Sixth meeting of Undergraduate Curriculum Implementation Committee

February 7, 2013

The sixth meeting of the Undergraduate Curriculum Implementation Committee (UCIC) was held in the Senate room at 1500 hrs on February, 2013. The following members were present:

(Italics indicate inability to attend).

Prof. Anurag Sharma, Prof. Santanu Chaudhury, *Prof. S. R. Kale*, Prof. Sanjeev Sanghi, *Dr. Atul Narang*, Dr. Shantanu Roy, *Dr. N. D. Kurur*, Prof. B. Bhattacharjee, Prof. Anshul Kumar, Prof. S. D. Joshi, Prof. Ambuj Sagar, *Dr. Seema Sharma*, Dr. S. Dharamraja, Prof. T.R. Sreekrishnan, Prof. R. Chattopadhyay, *Prof. D. Ravi Kumar*, Prof. Joby Joseph, Dr. D. Sundar, *Prof. A. S. Rathore*, Dr. B.R. Chahar, Dr. Subodh Kumar, Prof. G. S. Visweswaran, Dr. N. Chatterjee, Prof. Sangeeta Kohli, Prof. P. Srivastava, Prof. Manjeet Jassal, *Prof. James Gomes*, Prof. M.R. Ravi. Prof. Siddharth Pandey from Chemistry attended in place of Prof. N.D. Kurur.

The meeting started with a welcome to all members.

1. Minutes of the previous meeting dated January 29, 2013 were discussed. The members re-looked at the three option tables given in the minutes decided to replace them with a single one, on the basis of discussions in this meeting. With this change, the minutes were confirmed. The modified table is reproduced here for completeness. AM Department was requested to explore offering Mechanics course to all 851 students in the second semester in order to keep the first semester light for everyone.

Semester	Lecture Course-1	Lecture Course-2	Lecture Course-3	Lecture Course-4	Other	Other	Other
I semester	Maths-1/2 (3-1-0)	EE / CS (3-0-2)	PH / CY (3-0-4)	Mechanics / None (3-1-0)	Intro. to Engg/ Prog (0-0-2)	Graphics / Prod. Real. (0-0-4)	None/ Language (0-0-4)
II semester	Maths-2/1 (3-1-0)	CS / EE (3-0-2)	CY / PH (3-0-4)	None / Mechanics (3-1-0)	Intro to Engg/ Prog (0-0-2)	Prod Real./ Graphics (0-0-4)	Language / None (0-0-4)
III semester	PL BS	PL EA/ES	PL BS EA_ES	Biology (3-0-2)/ Env (2-0-0)	Dept / open course		
IV semester	Dept open course	Dept open course	Dept open course	Env (2-0-0)/ Biology (3-0-2)	Dept / open course		

2. The course templates received from various Departments for first year courses were discussed and the following feedback was recorded:
 - I. **Computer Science:** The department proposed a course of 3-0-2 for all students, and a 0-0-4 course for students who have no background in computers. The committee opined that the credits were in excess of the senate approved concept paper. The committee also felt that some topics in the course content were too advanced for a first year course.
 - II. **Electrical Engineering:** No comments were given by the committee.
 - III. **Mathematics:** The committee felt that the overall coverage of the courses is good. Regarding Mathematics 1, the committee suggested that the book by E. Kreiszig be included in the list of books in the template. It also suggested that in the description of the tutorial component in both courses should indicate engineering applications. In the template, the modules with large number of lectures were also suggested to be split into smaller modules. In Mathematics 2, the committee suggested that introduction to simple partial differential equations could be included.
 - IV. **Physics:** The committee suggested that being a first year engineering core course, the relevance of the topics to engineering applications should be emphasized in the course. It was suggested that this aspect be reflected in the course template. About the lab component, the following suggestions were given: (a) Electricity experiments have an overlap with Electrical Engineering

core course, and could be changed. (b) While the course contents talk about Fundamental Constants, the experiment details mention Heat and Mechanics, which do not appear in the contents. This should be reconciled. (c) Some interesting experiments on applications such as fiber optics could be included. (d) Concept of measurements, errors and error bars should be introduced.

V. **Chemistry:** The committee felt that the topics were too diverse and a bit too advanced for a first year course. Laboratory contents template had not been received.

VI. **Mechanics:** No comments were offered.

VII. **Biology:** The committee felt that the applications of engineering in Biology and vice versa should be emphasized in this course, and it is preferable that the template reflects this aspect.

The meeting ended with thanks to all the members.

Comments on the above minutes should be sent to the undersigned by 14.2.2013.

M.R. Ravi
Associate Dean Academic (Curriculum)
and Convener, UCIC.