

Office of the Dean Academics

Items for approval of the Senate from the Undergraduate Curriculum Implementation Committee

May 16, 2013

1. **Number of Programmes and Desired Strengths:** The UCIC had requested the Departments for the number of undergraduate programmes and the minimum and maximum strengths they would like to have in each programme. All Departments responded. Most Departments suggested strengths lower than the current level, with the net result that the total strength of 851 could not be met with these numbers. Hence for the current year, it is proposed that the current strengths continue.

In the coming academic year, the Mathematics Department needs to replace its existing Integrated M.Tech. Programme with a B.Tech. or Dual degree programme as per a senate decision. Biochemical Engineering and Biotechnology would like to start admitting some students for a B.Tech. Programme and some others as dual degree students at entry level.

Department	Current Strength (B.Tech + Dual)	Proposed change
Biochemical Engineering and Biotechnology	0+48	1. A new B.Tech program 2. Only 10 seats in dual- degree programme
Chemical Engineering	71+52	No change for this year
Civil Engineering	109+0	No change for this year
Computer Science and Engineering	(63+32=) 95	No change for this year
Electrical Engineering	(EE1:63+EE:32+EE5:26)121	No change for this year
Mathematics	0+48 (Integ. MTech)	All 48 seats this year as 4-year B.Tech
Mechanical Engineering	(103+48)151+0	No change for this year
Physics	63+0	No change for this year
Textile Technology	93+0	No change for this year
Total	851	851

The above recommendations are for the academic year 2013-14. However, a more comprehensive review of number of seats along with a more liberal policy for Department change for undergraduate students is in process. These would be presented to the senate for approval once a complete proposal is ready.

2. **Institute Core Courses from ME Department:** The concept paper allotted 2 credits each for a course on Engineering Drawing / Engineering Communication and Product Realization / Manufacturing. The proposal received for the courses from Mechanical Engineering requested for 3.5 credits for the former and 2.5 for the latter, which was not agreed to by the UCIC. After several rounds of discussions, the ME Department is still unwilling to adhere to the recommended number of credits. The senate may discuss the matter and decide on the next course of action.
3. **Proposal for 4-year B.Tech. Programme from Mathematics Department:** As per the Concept paper for curriculum review, the Senate decided to replace the Integrated M.Tech. Programme on Mathematics and Computing with a B.Tech / Dual degree programme. A proposal has been made by the Mathematics Department for a four year B.Tech programme in Mathematics and Computing, which would serve as the undergraduate component to a dual degree programme, where students could opt for a dual degree during their third year. The UCIC discussed the proposal and agreed that the proposal captures the undergraduate part of the current Integrated programme well. The senate may accord an in-principle approval to the 4-year B.Tech. Programme in Mathematics and Computing. The detailed proposal would be submitted to the senate once it is finalized.
4. **Approach Papers for Non-Graded Credit Components:** The UCIC constituted two subcommittees to formulate the non-graded components: one for the Professional Ethics and Social Responsibility component, and another for the Introduction to Engineering / Program and Design & Practical Experience component. These committees submitted their reports and UCIC discussed them in detail. The approach papers for these three components of non-graded credits are placed in the adjoining files for approval of the senate.