Office of the Dean Academics

Minutes of the twenty second meeting of
Undergraduate Curriculum Implementation Committee

March 20, 2015

The twenty second meeting of the Undergraduate Curriculum Implementation Committee (UCIC) was held in the Senate Room at 1500 hrs on March 20, 2015. 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, Prof. Shantanu Roy, Dr. N. D. Kurur, Prof. B. Bhattacharjee, Prof. Anshul Kumar, Prof. S. D. Joshi, *Prof. Ambuj Sagar*, Dr. Seema Sharma, Prof. S. Dharmaraja, *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, Prof. Niladri Chatterjee, Prof. Sangeeta Kohli, Prof. P. Srivastava, Prof. Manjeet Jassal, Prof. James Gomes, Prof. T.C. Kandpal, Prof. M.R. Ravi. Dr. Anupam Shukla of Chemical Engineering was also present.

The meeting started with a welcome to all members.

1. **Confirmation of minutes of meeting 21 dated November 19, 2014:** No comments had been received, and the minutes were confirmed as circulated.

2. **Dual degree programme structures:** The structures of Dual-degree programmes proposed by the Departments on the basis of the revised M.Tech. Structures were discussed. As per the UCIC decision, the dual degree credits should typically be B.Tech credits – (BTP credits+10) + (48-54) PG credits for M.Tech part. Accordingly, the following programmes were discussed:
   a) **BB5:** B.Tech credits for BB1 are 155, BTP is 3 credits; so dual degree programme BB5 has 155-(10+3)+48=190 credits.
   b) **CS5:** B.Tech credits for CS1 are 145, BTP is 6 credits; so dual degree programme CS5 should be 145 – (10+6)+48=177 credits. The proposal from the Department suggests 185 credits. It was suggested to the Department to reduce the credits by 1-2 courses.
   c) **MT6:** B.Tech credits for MT1 are 153, BTP is 4 credits; so dual degree programme MT6 should be 153 – (10+4) + 48 = 187 credits. Although the total credits proposed by the Department were 187, it contained only 38 PG credits, and all programme core credits were only constituted by Major Project (22 credits). The following were recommended to the Department: Total credits should be retained as 187; UG credits could be reduced by 10 so as to increase PG credits to 48; With some adjustment of project credits, one or two courses should be included in PC, so that PC is at least 24, as per senate recommendations for M.Tech. core. Some DE and OC credits from UG could be converted to PC or PE credits to accomplish this requirement.
   d) **CH7:** B.Tech. credits for CH1 are 151, BTP is 4 credits, so the dual degree programme CH7 should have 151 – (10+4) + 48 = 185 credits. Department had proposed 189 credits. It was recommended that one 3-credit course be removed from the undergraduate part of the programme so as to make it 185 or 186 credits.
   In all four cases above, the Dean Academics was authorized to finalize the programme and scheduling of PG part of courses in discussion with the respective Departments, before circulating the same to all faculty and presenting it to the senate for approval.

3. **Discussion on Minor Areas, Departmental and Interdisciplinary Specializations:** The proposals received for Minor Areas, Departmental and Interdisciplinary Specializations that were received after the previous senate meeting till date were discussed.
   a) The two minor area proposals received from CES on "Cogeneration and Energy Efficiency" and "Renewable Energy" were accepted as presented.
   b) The interdisciplinary specialization in bio-design was examined. It was observed that the comments of the UCIC regarding the structuring and classification of the courses of the specialization into logical groups either according to the sub-area the course would fall into, or according to the discipline to which a student taking the specialization belongs. Presently, the courses are a long list with no logical classification. The UCIC suggested that this specialization be taken up after revision according to this suggestion.

c) The five Departmental specializations proposed by Civil Engineering, namely, Environmental Engineering, Geotechnical Engineering, Structural Engineering, Transportation Engineering and Water Resources Engineering were discussed. The number of courses in Geotechnical engineering were not adequate for the programme, and the Dean Academics was authorized to discuss with the Department and complete the list. All other specializations were accepted as presented.
d) Minor Area proposal from Department of Management Studies and Departmental Specializations from Department of Electrical Engineering were in process and were expected in the next few days. It was suggested that these proposals be placed in the UCIC website for members to review, and taken up in the next meeting of UCIC.
e) The draft document on Capability-linked options which would form part of the Courses of Study would also be placed in the UCIC website for review by the members.

4. **Administration of Non-graded Units:** A brief presentation on the administration of non-graded units was made by Prof. M.R. Ravi, as detailed in a draft document prepared on the basis of recommendations of the respective sub-committees and the corresponding decisions taken in the past meetings by the UCIC. The UCIC accepted the suggestions made in the presentation with the following comments on award of non-graded units for communication skills / seminar component against students' achievements in BRCA, BSP, BSW, CAIC events pertaining to debating, public speaking, presentation and written skills:
   a) Writing in student magazines should be excluded from award of non-graded units
   b) Technical papers presented by students in conferences, certified by supervisors, could be considered for award of non-graded units provided there are not more than 2 student authors for the paper. Papers winning a prize in TRYST and other inter-IIT technical festivals, subject to the 2-student-authors limit could also be included.
   c) All such events should submit a claim for non-graded units duly signed by the president of the club or Board, within 2 weeks of the event to be considered for award of non-graded units.

   The draft document on Non-graded Units which would form part of the Courses of Study would also be placed in the UCIC website for review by the members.

5. **Any other item with permission of the chair:** The course template was modified to incorporate changes pertaining to non-graded units and different course categories under the new curriculum (Institute Core, Programme-linked core, Minor/Dept/Interdisciplinary specializations etc.) and the additional self-learning component in 700-800 level courses, and discussed in the PG Curriculum Review Committee. This template was placed before the UCIC and discussed.

   Some members proposed a change in the template structure that excludes the Course type (Core for XX programme, PL for XY programme etc) altogether from the template so that changes in structures of academic programmes need not change the template. This was taken up as a matter arising out of the discussion, so that the database structure for academic programmes and course templates could be normalized for redundant information and cross-references.

The meeting ended with thanks to the chair.

Comments, if any, may kindly be sent to the undersigned by 27.3.2015.

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