

## Department of Mathematics & Statistics

### Observations on the ARC Report

1. The department recommends a graduating passing CPI of 4.00 for all undergraduate students rather than having different degrees being awarded for various CPI's. Only one degree is to be awarded.
2. In view of the recommendation in item 1 above, the department recommends the following APEC rules:  
Academic warning:  $SPI \leq 4.5$  in any semester.  
Academic Probation :  $CPI < 4.0$  in any semester.  
Termination : Under AP +  $SPI < 4.0$  in any semester.
3. Value education (like NSS) should be a compulsory part of PE. Some members pointed out that, in the PE courses, student are made to work for longer than the contact hours allotted to it. It is recommended that the contact hours for PE courses should be strictly adhered to.
4. Number of minors from each department is to be small to make the concept of minors viable.
5. Double Major:  
The procedure for screening of applicants for Double Majors should be left to the discretion of concerned departments. However, such a procedure should be based on academic considerations alone. Moreover, each department must allow a minimum number of willing students for the double major ( *e.g.* 20% of their sanctioned strength).
6. Modular Courses:  
In some courses, conducting quizzes will be difficult and so conducting a quiz should not be made mandatory. Instructor may be given freedom to choose a continuous evaluation method of his/her choice.
7. Teaching of modular courses should be shared by the departments for whose students the course is compulsory.  
*e.g.* If the Electrical and the Physics departments want a modular course in PDE, then the teaching of this course should be a joint responsibility of these two departments.
8. There should be a requirement for minimum attendance. However, the students may get exemption, in very special cases, from the concerned instructor.
9. Practically, it is difficult to conduct quizzes in some core courses (e.g., in MTH-101/102/203, an instructor has to prepare at least four sets for a single quiz). Thus conducting of quizzes should not be mandatory. Instructors may be given freedom to choose a continuous evaluation method of his/her choice.

10. Compulsory Mathematics Core Courses

(a) Course 1:

In the content, "Vector Calculus in detail" should be replaced by "Calculus of Several Variables" (which will include the computation of volumes and also the concept of Lagrange Multipliers).

(b) Course 2:

The heading of course should read *ODE and Laplace Transforms*