STATUTE CE3

DEGREE OF BACHELOR OF ENGINEERING
(COMPUTER ENGINEERING)

General

1. The period of study for the degree of Bachelor of Engineering (Computer Engineering) is four academic years.

2. During the period of study for the degree of Bachelor of Engineering (Computer Engineering), a candidate for the degree must pursue such courses of study as may be prescribed by Regulations made by the Academic Board on the recommendation of the School of Computer Engineering.

3. Successful completion of the course leading to the degree of Bachelor of Engineering (Computer Engineering) requires a candidate to have -

   (a) obtained a total of not less than 148 academic units within the maximum period permitted;

   (b) passed in all the core subjects for the degree and fulfilled the requirements for the prescribed electives and the general electives as may be determined by the School of Computer Engineering; and

   (c) fulfilled such other requirements as may be prescribed by the Academic Board.

4. No candidate shall be permitted to take more than seven years or less than three and a half years to complete the prescribed course of study for the degree of Bachelor of Engineering (Computer Engineering). For candidates who, at the point of admission, are exempted from not less than eight First Year subjects, the maximum and minimum periods shall be five years and three years respectively.

5. The Academic Board may make Regulations prescribing the form and scope of examinations and the admission of candidates thereto. For this purpose, the Academic Board may, at its discretion, seek the views of the School of Computer Engineering.

6. The Academic Board may, on the recommendation of the School of Computer Engineering, grant such exemptions as it thinks fit from any of the requirements of this Statute.
REGULATIONS MADE UNDER STATUTE CE3

Subjects of Study

1. (1) The subjects of study leading to the degree of Bachelor of Engineering (Computer Engineering) are listed in regulation 2 of these Regulations.

(2) With the approval of the Dean of the School of Computer Engineering, a candidate may offer subjects from the list of subjects in his preceding or subsequent year of study.

(3) Each subject will be assigned a certain number of academic units as may be determined by the School of Computer Engineering.

(4) The distribution of subjects for each semester will be determined by the School of Computer Engineering.

2. The subjects of study in each of the four years are as follows:

(a) First Year

SC101  Electronics I
SC102  Logic Design
SC103  Introduction to Programming
SC104  Mathematics I
SC105  Effective Communication: Principles & Methods
SC106  Electronics II
SC107  Mathematics II
SC108  Data Structures
SC109  Discrete Mathematics
SC110  Technical Report Writing

Candidates who have not passed or are not exempted from the Qualifying English Test must offer the following additional subject of study:

CK101  English Proficiency

(b) Second Year

SC201  Digital Circuits & Systems
SC202  Computer Organisation
SC203  Algorithms
SC204  Software Systems & Models
SC205  Digital Communications
SC206  Microprocessor Systems Design
SC207  Software Engineering
SC208  Computer Graphics in Design
SC229  In-House Practical Training
SC111  Professional Communication: Strategies & Skills
SC131  Engineers & Society

(c) Third Year

SC301  Control & Instrumentation
SC302  Computer Networks  
SC303  Operating Systems  
SC304  Database Systems  
SC329  Industrial Attachment  
SC132  Human Resource Management & Entrepreneurship  

(c) Final Year  
SC401  Real-Time Systems  
SC402  Advanced Microprocessor Systems  
SC403  Computer Architecture  
SC404  Digital Signal Processing  
SC405  Compiler Techniques  
SC409  Project  
SC133  Principles of Law  
SC134  Principles of Economics  

In addition to the core subjects listed above, candidates in the Final Year must offer two prescribed electives, one from each the following two groups:  

Group 1 (Semester 1)  
SC430  Artificial Intelligence  
SC431  Parallel Processing  
SC432  Distributed Systems  
SC433  Programming Languages  

Any subject from a list of SELECTED TOPICS approved by the School.  

Group 2 (Semester 2)  
SC435  Advanced Computer Graphics  
SC436  Neural Networks  
SC437  Computer Vision & Image Processing  
SC438  Robotics  
SC439  Special Topic 2  

Any subject from a list of SELECTED TOPICS approved by the School.  

Not all prescribed electives are necessarily available in any one semester.  

In addition to the core and prescribed electives, a student must offer a minimum of six academic units of general electives which can be chosen from the subjects offered by the School of Computer Engineering or by other Schools with the approval of the Dean.  

Examinations  

3. There shall be an examination towards the end of each semester. Candidates will be examined in each of the subjects they offer in the semester.  

4. Subject to regulations 6 and 7 of these Regulations, there shall be one paper for each of the subjects of study offered as indicated in regulation 2 of these Regulations.
5. A student may proceed with the next stage of his course of study if he satisfies the requirements prescribed by the Academic Board.

Laboratory classes

6. During the course of study for the degree, students must attend laboratory classes and perform to the satisfaction of the Dean of the School of Computer Engineering or the Head of the Division concerned.

Assessment of course work

7. For the purpose of these Regulations, subjects of study such as Project, In-House Practical Training and Industrial Attachment may be assessed according to course work and assignments in lieu of an examination paper.

End of Statute CE3