STATUTE CE1

DEGREE OF BACHELOR OF APPLIED SCIENCE
(COMPUTER ENGINEERING)

PART I
GENERAL

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

2. During the period of study for the degree, 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 Applied Science (Computer Engineering) requires a candidate to have –

   (a) obtained the following number of academic units within the maximum period permitted:

      (i) For candidates admitted in academic years 1997-98 and 1998-99
          Not less than 108 academic units.

      (ii) For candidates admitted in academic years 1995-96 and 1996-97
           Not less than 111 academic units.

   (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 five years to complete the prescribed course of study for the degree of Bachelor of Applied Science.

PART II
HONOURS DEGREE IN COMPUTER ENGINEERING

5. (1) The period of study for the degree of Bachelor of Applied Science with Honours is one academic year.
(2) For candidates pursuing the course leading to the degree of Bachelor of Applied Science who are admitted to the Accelerated Honours Stream after the second year of the course the period of study is three semesters.

6. During the period of study for the degree of Bachelor of Applied Science with Honours, a candidate 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.

7. (1) A person who has fulfilled all requirements for the degree of Bachelor of Applied Science may, on the recommendation of the School of Computer Engineering, after taking into account the views of the Head of Division concerned, be admitted by the Academic Board as a candidate for the degree of Bachelor of Applied Science with Honours.

(2) A person who has completed the second year of the course leading to the degree of Bachelor of Applied Science and has fulfilled the conditions laid down by the School of Computer Engineering may, on the recommendation of the School, after taking into account the views of the Head of Division concerned be admitted by the Academic Board to the Accelerated Honours Stream as a candidate for the degree of Bachelor of Applied Science with Honours.

8. (1) A candidate for the degree of Bachelor of Applied Science with Honours must have fulfilled the core and elective subject requirements and obtained the following number of academic units:

(i) For candidates admitted in academic year 1998-99
Not less than 41 academic units.

(ii) For candidates admitted in academic years 1996-97 and 1997-98
Not less than 37 academic units.

(2) For a candidate admitted under the provisions of clause 7(2) above the minimum number of academic units that he must obtain throughout the entire course of study is as follows:

(i) For candidates admitted in academic year 1996-97
Not less than 148 academic units.

(ii) For candidates admitted in academic year 1997-98
Not less than 145 academic units.

(iii) For candidates admitted in academic year 1998-99
Not less than 149 academic units.

9. The degree of Bachelor of Applied Science with Honours is awarded in the following classes:
First Class Honours;
Second Class Honours (Upper Division);
Second Class Honours (Lower Division);
Third Class Honours.

The Board of Examiners for the Examination for the degree of Bachelor of Applied Science with Honours will determine the class to which a successful candidate will be assigned.

10. No candidate shall be permitted to take any of the Honours Year subjects in the examination for the degree of Bachelor of Applied Science with Honours on more than two occasions.

PART III

11. The Academic Board may, on the recommendation of the School of Computer Engineering, make Regulations prescribing the form and scope of examinations and the admission of candidates thereto.

12. 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 CE1

PART I
B.A.Sc. DEGREE IN COMPUTER ENGINEERING

Subjects of Study

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

(2) With the approval of the Dean of the School of Computer Engineering, a student 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 three years are as follows:
(1) **For candidates admitted in the academic year 1995-96 and 1996-97**

(a) **First Year**

- CE101 Electronics I
- CE102 Logic Design
- CE103 Systematic Programming
- CE104 Engineering Mathematics
- CE105 Effective Communications: Principles & Methods
- CE106 Electronics II
- CE107 Computer Organisation
- CE108 Data Structures
- CE109 Discrete Mathematics
- CE110 Probability & Statistics
- CE111 Professional Communication: Strategies & Skills
- CE129 In-House Practical Training

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**

- CE201 Digital Circuits & Systems
- CE202 Microprocessor Systems Design
- CE203 Control & Instrumentation
- CE204 Computer Graphics
- CE205 Software Engineering
- CE229 Industrial Attachment

(c) **Final Year**

**Core Subjects**

- CE301 Digital Communications
- CE302 Computer Architecture
- CE303 Operating Systems
- CE304 Industrial Management
- CE305 Computer Networks
- CE306 Real-Time Systems
- CE307 Computer Peripherals
- CE309 Project

and two prescribed electives chosen from the following:

- CE430 Application Specific Microprocessors
- CE431 Artificial Intelligence
- CE432 Advanced Computer Graphics
- CE436 Compiler Design
- CE437 Database Systems
- CE441 Programming Languages
- CE443 Advanced Microprocessor Systems
- CE444 Computer Vision & Image Processing
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CE445  Digital Signal Processing
CE448  Robotics

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

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

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 subjects offered by the School or by other Schools approved by the Dean.

(2) For candidates admitted in the academic year 1997-98

(a) First Year

CE101  Electronics I
CE102  Logic Design
CE103  Systematic Programming
CE104  Engineering Mathematics
CE105  Effective Communications: Principles & Methods
CE106  Electronics II
CE107  Computer Organisation
CE108  Data Structures
CE109  Discrete Mathematics
CE110  Probability & Statistics
CE111  Professional Communication: Strategies & Skills
CE129  In-House Practical Training

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

CE201  Digital Circuits & Systems
CE202  Microprocessor Systems Design
CE203  Control & Instrumentation
CE204  Computer Graphics
CE205  Software Engineering
CE229  Industrial Attachment

(c) Final Year

Core Subjects

CE301  Digital Communications
CE302  Computer Architecture
CE303  Operating Systems
CE304  Industrial Management
CE305  Computer Networks
CE306  Real-Time Systems
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CE307  Computer Peripherals
CE309  Project

and one prescribed elective chosen from the following:

CE431  Artificial Intelligence
CE432  Advanced Computer Graphics
CE437  Database Systems
CE441  Programming Languages
CE443  Advanced Microprocessor Systems
CE444  Computer Vision & Image Processing
CE445  Digital Signal Processing
CE448  Robotics

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

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

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 subjects offered by the School or by other Schools approved by the Dean.

(3)  For candidates admitted in the academic year 1998-99

(a)  First Year

CE101  Electronics I
CE102  Logic Design
CE103  Systematic Programming
CE104  Engineering Mathematics
CE105  Effective Communications: Principles & Methods
CE106  Electronics II
CE107  Computer Organisation
CE108  Data Structures
CE109  Discrete Mathematics
CE110  Probability & Statistics
CE111  Professional Communication: Strategies & Skills
CE129  In-House Practical Training

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

CE201  Digital Circuits & Systems
CE202  Microprocessor Systems Design
CE203  Control & Instrumentation
CE204  Software Systems & Models
CE205  Software Engineering
CE229  Industrial Attachment
(c) Final Year

CE301 Digital Communications
CE302 Computer Architecture
CE303 Operating Systems
CE304 Computer Graphics
CE305 Computer Networks
CE306 Real-Time Systems
CE309 Project
CE133 Principles of Economics
CE134 Engineers & Society
CE135 Human Resource Management & Entrepreneurship

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 and workshop practice

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

Assessment of Course Work

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

PART II
HONOURS COURSE IN COMPUTER ENGINEERING

13. The degree of Bachelor of Applied Science with Honours comprises the following subjects of study:

(1) For candidates admitted in academic years 1996-97 and 1997-98
Core Subjects

CE401 Industrial Seminars
CE409 Project
CE410 Project (for Accelerated Honours)

and six prescribed electives chosen from the following:

CE430 Application-Specific Microprocessors
CE431 Artificial Intelligence
CE432 Advanced Computer Graphics
CE434 Neural Networks
CE435 Object-Oriented Technology
CE436 Compiler Design
CE437 Database Systems
CE438 Distributed Systems
CE441 Programming Languages
CE442 Advanced Computer Architecture
CE443 Advanced Microprocessor Systems
CE444 Computer Vision & Image Processing
CE445 Digital Signal Processing
CE447 Parallel Processing
CE448 Robotics

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

In addition to the core and prescribed electives a student must offer a minimum of three academic units of general electives which can be chosen from subjects offered by the School or by other Schools approved by the Dean.

A candidate may not offer in the Honours Year an elective subject that he has already taken in the course leading to the degree of Bachelor of Applied Science.

(2) For candidates admitted in the academic year 1998-99

Core Subjects

CE401 Industrial Seminars
CE144 Principles of Law
CE409 Project
CE410 Project (for Accelerated Honours)

and six prescribed electives chosen from the following:

CE430 Application-Specific Microprocessors
CE431 Artificial Intelligence
CE432 Advanced Computer Graphics
CE434 Neural Networks
CE435 Object-Oriented Technology
CE436 Compiler Design
CE437  Database Systems
CE438  Distributed Systems
CE441  Programming Languages
CE442  Advanced Computer Architecture
CE443  Advanced Microprocessor Systems
CE444  Computer Vision & Image Processing
CE445  Digital Signal Processing
CE447  Parallel Processing
CE448  Robotics

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

In addition to the core and prescribed electives a student must offer a minimum of two academic units of general electives which can be chosen from subjects offered by the School or by other Schools approved by the Dean.

End of Statute CE1