L.N. 87 of 1989

EDUCATION ACT, 1988

(ACT XXIV OF 1988)

Regulations for the Degree of Bachelor of Mechanical Engineering (Honours)

IN exercise of the powers conferred upon him by section 29 of the Education Act, 1988, the Chancellor of the University of Malta has promulgated the following Regulations made by the Senate of the University of Malta in virtue of the powers conferred upon it by section 33 of the said Act:—

Citation

These Regulations may be cited as the Regulations for the Degree of Bachelor of Mechanical Engineering (Honours) and shall apply only to courses which started before October 1988.

Admission

1. To be eligible for admission to the degree of Bachelor of Mechanical Engineering (Honours) a candidate must:

(i) comply with the provisions of Section 37 of the Education Act of 1974;

(ii) satisfy the Entry Requirements in accordance with Regulation 3 below; and

(iii) complete the course of studies as laid down in these regulations and qualify in the Examinations.

Duration of Course

2. The course of studies leading to the degree of Bachelor of Mechanical Engineering extends over a period of five years, consisting of five academic semesters of not more than six months' duration alternating with five work semesters of not more than six months' duration.

Entry Requirements

3. A candidate may apply for admission to the Course of Mechanical Engineering if he is in possession of:

I. A. Three passes at Advanced Level, or equivalent, in:

(i) Mathematics,

(ii) Physics, and

(iii) either another subject from the List of approved subjects;

or

An Ordinary Technician Diploma of the City and Guilds of London Institute Course No. 800 in Mechanical and Electrical Engineering;

or

Part II and III Mechanical Engineering Technician's Certificate of the City and Guilds of London Institute Course No. 255, with at least a Credit in both Parts.

OR

B. (i) a Higher Technician Diploma of the City and Guilds of London Institute Course No. 800 in Mechanical Engineering,

(ii) a pass at Advanced Level, or equivalent, in Mathematics.

II. Four passes at Ordinary Level, or equivalent.

The subjects offered must include:

(a) Maltese (Malta Matriculation)
(b) English Language
(c) At least one from Arabic, French, German, Italian
(d) Any other subject from the approved list.

The Faculty evaluates the qualifications of candidates satisfying the entry provisions according to the following system:

MARKS	CITY AND GUILDS	'A' LEVELS
10 marks	H.T.D.	
5 marks		Grade A
4 marks		Grade B
3 marks	O.T.D./Course 255	Grade C
2 marks		Grade D
1 mark		Grade E

A candidate must at least obtain eight marks to qualify for consideration to follow the course, provided that Grades in Physics and in Mathematics must be Grade 'D' or better.

(N.B. No subject may be offered at both 'A' and 'O' levels.)

Course Curriculum

4. The modules of the Course of Mechanical Engineering are the following:

FIRST YEAR (Academic Semester I)

Mathematics
Manufacturing Technology and Materials Science
Engineering Drawing
Thermo-Fluid Dynamics I
Electrical Technology I
Applied Mechanics
Economics
Sociology
Technical Report Writing

SECOND YEAR (Academic Semester II)

Mathematics
Mechanics of Materials
Metal Machining and Metallurgy
Thermodynamics II

Fluid Mechanics II
Mechanisms and Dynamics of Machines
Electrical Technology II

THIRD YEAR (Academic Semester III)

Mathematics
Control Engineering
Applied Engineering Design and Analysis
Mechanics of Structures and Materials
Fluid Mechanics III
Thermodynamics III
Engineering Metrology and Metallurgical Processes

FOURTH YEAR (Academic Semester IV)

Operational Research
Production Technology
Mechanical Vibrations
Engineering Heat Transfer
Fluid Mechanics IV
Metallurgical Manufacturing Process and Fracture Mechanisms
Management of Finance

FIFTH YEAR (Academic Semester V)

Engineer in Society
Industrial Management
Engineering Design
Manufacturing Technology
Plant Technology
Project

During the fourth and fifth years of the course students will take Operational Research, Engineer in Society and Industrial Management respectively as compulsory modules.

All other modules in the fourth and fifth semesters, will be taken by students but may be replaced by others approved by the Faculty Board in order to relate to industrial work done by students and in conformity with changes in the Technology.

Assessment

5. Assessment of student's performance during each academic semester will be by means of continuous assessment and examinations in accordance with the criteria established by the Faculty Board. Continuous assessment may take the form of tutorials, laboratory work, assignments, tests, projects and any other work which the student is scheduled to cover during the study semester.

6. There will be examinations at the end of each academic semester. External Examiners will be included in the Boards of Examiners at the end of the academic semesters in the Third, Fourth and Fifth years.

Results

7. In each year except the Final Year, the assessments over the academic semesters are consolidated and published as one result and graded as A, B, C, D or Fail for each student. The grade allocated to different subjects will be available to the students at their request and in confidence.

8. Candidates who fail in their final year may be re-examined in the subject/ subjects in which they fail not later than twelve months after the end of their final academic semester. Candidates qualify for the award of a degree on the successful completion of their final year.

9. In the case of candidates who repeat a year or are re-examined in the subject/ subjects of the final year the respective mark carried forward to the final classification of the degree shall be the minimum pass mark.

10. The final classification of the Degree for every successful candidate will be based on the results obtained in every year of the Course and published as one result under the following categories: FIRST CLASS HONOURS, SECOND CLASS HONOURS (Upper Division), SECOND CLASS HONOURS (Lower Division), THIRD CLASS HONOURS or PASS.

11. Notwithstanding the provisions of Regulation 2, for the purpose of these regulations an academic semester starting in or after October 1987 shall be of eight months' duration, except in the final year when it shall be of five months' duration.

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