

# Faculty of Engineering and Forestry

## The Degree of Bachelor of Engineering with Honours (BE(Hons))

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### 1. Requirements of the Degree

Every candidate for the Degree of Bachelor of Engineering with Honours shall follow a course of study and non-academic requirements approved by the Dean of Engineering and Forestry as laid down

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**6. Class of Honours**

- (a) The Degree of Bachelor of Engineering with Honours may be awarded with First Class Honours, or with Second Class Honours, or with Third Class Honours\*. The list of candidates obtaining Second Class Honours shall be listed in two Divisions (Division I and Division II).
- (b) First and Second Class Honours are awarded for outstanding and meritorious achievement based on completion of the academic requirements in a timely manner and on the basis of academic achievement measured by weighted GPA, as stipulated below.
- (c) To be eligible for First or Second Class Honours a candidate must meet one of the time limit requirements:
  - i. if entering the programme at the First Professional Examination, he or she must complete the three professional years in no more than four years of study.
  - ii. if entering the programme at the Second Professional Examination, he or she must complete the Second and Third Professional Examinations in no more than three years of study.
  - iii. candidates approved into part-time study must complete the Second and Third Professional Examination in no more than four years of study. Approval into part-time study must be obtained prior to entering the Second Professional Examination.
- (d) The class of honours will be determined by the student's performance in the Second Professional Examination (En. Exa(A), 30% of marks) and the Third Professional Examination (En. Exa(B), 30% of marks) and the Final Professional Examination (En. Exa(C), 40% of marks) in the following table:

**5. Time Limitation for Degree Completion and Suspension of Study**

- (a) Candidates enrolled, either full-time or part-time, in the Degree of Bachelor of Engineering with Honours must complete the Professional Year Examinations and the non-academic requirements in no more than six years of study.
- (b) Candidates enrolled concurrently in the Degree of Bachelor of Engineering with Honours and with another programme of study must complete the Professional Year Examinations and the non-academic requirements in a timeframe approved by the Dean of Engineering and Forestry at the time of approval into the double degree.
- (c) Candidates may seek approval from the Dean of Engineering and Forestry to suspend their studies. Where approved, this will extend the time limitation for the completion of the degree.
- (d) Candidates who have an approved suspension in study may be required to undertake a preparatory programme prior to the resumption of their studies in the Degree of Bachelor of Engineering with Honours. Any preparatory programme of study must be completed while on suspension, and immediately prior to the end of their suspension.

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Class Honours  
 Professional Examinations

Third Class honours.

\*(S, B UN CUAP r D 2012)

apprenticeship or who has performed similar work for a satisfactory period, the Dean of Engineering and Forestry may accept such work as partial or total exemption from the above practical work requirements. Candidates may apply in writing for an exemption of the practical work requirements to the College Practical Work Coordinator.

- (k) Candidates are required to familiarise themselves with the practical work requirements by reading the guidelines on the College website.
- (l) The Dean of Engineering and Forestry may modify the application of clauses (a)-(k) in individual cases.

## 12. Intermediate Examination

The Programme of Study shall consist of:

- (a) All courses in Schedule A
- (b) Courses from Schedule B to meet the prerequisites of at least one engineering programme.
- (c) Additional courses, where required, to ensure a workload of not less than 120 points.
- (d) Subject to the approval of the Dean of Engineering and Forestry, candidates may be approved into a modified Intermediate Year based on high achievement in NCEA or other equivalent examination, or through recognised prior learning at another tertiary institution.

### Schedule A - Compulsory for all Engineering Intermediate students

- (1) ENGR 101 Foundations of Engineering
- (2) EMTH 118 Engineering Mathematics 1A
- (3) EMTH 119 Engineering Mathematics 1B
- (4) PHYS 101 Engineering Physics A: Mechanics, Waves and Thermal Physics

### Schedule B - Engineering specialisations

#### Chemical and Process Engineering

- (1) CHEM 111 Chemical Principles and Processes
- (2) EMTH 171 Mathematical Modelling & Computation

#### Civil Engineering, Forest Engineering and Natural Resources Engineering

- (1) CHEM 111 Chemical Principles and Processes
- (2) EMTH 171 Mathematical Modelling & Computation
- (3) ENGR 102 Engineering Mechanics and Materials

#### Computer Engineering and Electrical and Electronic Engineering

- (1) COSC 121 Introduction to Computer Programming

- (2) Either EMTH 171 Mathematical Modelling & Computation, or MATH 120 Discrete Mathematics
- (3) PHYS 102 Engineering Physics B: Electromagnetism, Modern Physics and "How Things Work"

#### Mechanical Engineering

- (1) EMTH 171 Mathematical Modelling & Computation
- (2) ENGR 102 Engineering Mechanics and Materials
- (3) At least two of:
  - (a) COSC 121 Introduction to Computer Programming
  - (b) PHYS 102 Engineering Physics B: Electromagnetism, Modern Physics and "How Things Work"
  - (c) Either CHEM 114 Foundations of Chemistry, or CHEM 111 Chemical Principles and Processes

#### Mechatronics Engineering

- (1) COSC 121 Introduction to Computer Programming
- (2) PHYS 102 Engineering Physics B: Electromagnetism, Modern Physics and "How Things Work"
- (3) ENGR 102 Engineering Mechanics and Materials
- (4) EMTH 171 Mathematical Modelling & Computation

#### Software Engineering\*

- (1) COSC 121 Introduction to Computer Programming
- (2) COSC 122 Introduction to Computer Science
- (3) MATH 120 Discrete Mathematics

\*(S  $\bar{A}$  UN CUAP , D 2012)

## 13. Professional Examination

The professional examinations are laid out in regulations 13 – 41. Candidates should note the following:

- (a) Not all elective courses will necessarily be available in any one year. Candidates should consult the relevant Directors of Studies concerning the courses to be taught and the alternative degree courses that might be approved.
- (b) In consultation with employers, the department recommends candidates select certain courses or pathways of elective courses. Candidates are advised to consult the relevant department's website for the latest recommended pathways.
- (c) Candidates may attempt the Third Professional Year Project if they will be completing their degree within 3 semesters or less.

## Chemical and Process Engineering

### 14. First Professional Examination

- (1) EMTH 210 Engineering Mathematics 2
- (2) EMTH 271 Mathematical Modelling and Computation 2
- (3) ENCH 214 Forestry CIP span ActualText EFF009 BDC ( ) TJEMC 1.772 0 Td (ENCH 2)-108112 (inciples of Batchelolog)-304 (es4(fr))
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- (8) ENME 313 Electro Technology for Mechanical Engineers

**32. Third Professional Examination\***

\*(S. 1 UN CUAP, D 2012.)

- (1) ENME 408 Honours Research and Development Project
- (2) ENME 401 Mechanical Systems Design
- (3) ENME 418 Engineering Management and Professional Practice for Mechanical Engineers
- (4) Sufficient courses selected from:
  - (a) ENGR 401 Computational Fluid Dynamics
  - (b) ENME 402 Advanced Vibrations and Acoustics
  - (c) ENME 403 Linear Systems Control and System Identification
  - (d) ENME 404 Aerodynamics and Ground Vehicle Dynamics
  - (e) ENME 405 Energy Systems Engineering
  - (f) ENME 406 Engineering Product Design and Analysis

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- (a) ENME 405 Energy Desis selected from:
  - (1) ENME 401 Mechanical Systems Design
  - (2) ENME 402 Advanced Vibrations and Acoustics
  - (3) ENME 403 Linear Systems Control and System Identification
  - (4) ENME 404 Aerodynamics and Ground Vehicle Dynamics
  - (5) ENME 405 Energy Systems Engineering
  - (6) ENME 406 Engineering Product Design and Analysis





by the Director of Studies

Project

**41. Third Professional Examination**

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- (1) SENG 401 Advanced Object-Oriented Design
- (2) SENG 402 Software Engineering Research

- (2) FORE 316 Forest Management
- (3) FORE 327 Wood Science
- (4) FORE 342 Geospatial Technologies in Forestry
- (5) One course from either the Bachelor of Forestry Science 400-level schedule elective list or one course of at least 15 points from courses offered for any other degree at the 200-level or above.

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**5. Fourth Forestry Examination**

The courses for the Fourth Forestry Examination shall normally be as follows:

- (1) FORE 419 Management Case Study
- (2) FORE 444 Sustaining Biodiversity on Private Land
- (3) FORE 445 Environmental Forestry
- (4) And any four electives from:
  - (a) FORE 404–409 Special Topics
  - (b) FORE 422 Forest Harvest Planning
  - (c) FORE 423 Forest Transportation and Road Design
  - (d) FORE 426 Forest Products Marketing and International Trade
  - (e) FORE 435 Forest Economics 2
  - (f) FORE 436 Forest Tree Breeding
  - (g) FORE 441 Engineered Wood Products
  - (h) FORE 443 Biosecurity Risk Management
  - (i) FORE 475 Independent Course of Study
  - (j) Up to 30 points from courses offered at 300-level or above for any other degree.

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**6. Field Courses and First Aid Certificate**

Every candidate shall complete to the satisfaction of the Board of Studies in Forestry three Field Courses and submit an approved First Aid Certificate.

**Practical Work**

Award Regulations

**10. Exemption for Candidates with NZ Certificate in Forestry, NZ Diploma in Forestry or NZ Certificate in Science**

- (a) Notwithstanding anything contained in these Regulations, a candidate who has qualified for the New Zealand Diploma in Forestry may, with the approval of the Dean of Engineering and Forestry, be exempted from parts of the first three Forestry Examinations but the Dean will require a special course of study of at least one year but normally two years prior to entry into the Fourth year.
- (b) Notwithstanding anything contained in these Regulations, a candidate who has qualified with outstanding merit for the New Zealand Certificate in Forestry and who has completed the practical requirements for the award of that Certificate may, with the approval of the Dean of Engineering and Forestry, be exempted from the whole or part of the First and Second Forestry Examinations. A special course of study may be approved by the Dean.

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- (c) Notwithstanding anything contained in these Regulations, a candidate who has qualified with outstanding merit for the New Zealand Certificate in Science may, with the approval of the Dean of Engineering and Forestry, be exempted from all or part of the First Forestry Examination.

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**11. Cross Credits between BForSc and BCom**

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## 2. Structure of the Diploma

To qualify for the diploma a candidate must complete courses which have a minimum weighting of 120 points. At least 90 points shall be from the 300- and 400-level Forestry courses.

## 3. Award of Diploma with Distinction

The Graduate Diploma in Forestry may be awarded with Distinction.

## 4. Exemption from Prerequisites

Normal prerequisites for any courses may be exempted at the discretion of the Dean of Engineering and Forestry.

## 5. Part-time Enrolment

The Graduate Diploma may be studied part-time.

## 6. Time Limits

The Graduate Diploma will be completed in one year of full-time study (under exceptional circumstances the Dean may extend this to 18 months) or two years of part-time study. A part-time candidate is one who, because of employment, health, family or other reasons, is unable to devote his or her full-time to study; part-time enrolment requires the approval of the Academic Board.

## 7. Repeating of Courses

A candidate who has failed one or more courses is allowed to repeat those courses for credit subject to the time limits in Regulation 6.

# The Degree of Master of Engineering (ME)

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## 1. Requirements of the Degree

Every candidate for the Degree of Master of Engineering shall follow a course of study approved by the Dean of Engineering and Forestry and Director of Postgraduate Studies as laid down in these Regulations, or those consistent with the regulations in the relevant Calendar at the time they began their candidacy. In special circumstances the Dean of Engineering and Forestry may modify specific aspects of the degree regulations for individual candidates.

## 2. Qualifications Required to Enrol in the Degree

A candidate shall have:

- (a) either
  - i. qualified for the award of the Degree of Bachelor of Engineering with first or second class honours; or
  - ii. qualified for the award of the Postgraduate Diploma or Postgraduate Certificate in Engineering with a GPA of 5.0 or more; or
  - iii. qualified for the award of the Degree of Bachelor of Science with first or second class honours in appropriate subjects; or
  - iv. in exceptional circumstances, qualified for the award of another appropriate degree in New Zealand; or
  - v. been admitted ad eundem stum as entitled to proceed to the Degree of Master of Engineering; and
- (b) been approved as a candidate for the degree by the Dean of Engineering and Forestry.

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## 3. Structure of the Degree\*

\*(S. 11 UN CUAP, D 2012)

- (a) The degree must be completed by:
  - i. a thesis of 120 points; and
  - ii. up to 45 points coursework.
- (b) Each candidate must complete a programme of study in an area of specialisation selected from those specialisations listed in Schedule A.

## 4. Endorsements

The degree of Master of Engineering (ME) may be awarded endorsed in the following subjects: Bioengineering, Chemical and Process Engineering, Civil Engineering, Construction Management, Earthquake Engineering\*, Electrical and Electronic Engineering, and Mechanical Engineering.

\*(S. 11 UN CUAP, D 2012.)

## 5. Coursework Requirements

- (a) In consultation with a candidate's intended thesis supervisory team, and subject to the requirements of the specialisation listed in Schedule A, a candidate should select appropriate courses from Schedule B that will best support their research.
- (b) In some cases it may not be necessary for a candidate to offer 45 points in course work.
- (c) A candidate may select courses not on Schedule B if they are deemed necessary to support their





**Electrical and Electronic Engineering**

- (1) ENEL 614 Biomedical Engineering
- (2) ENEL 619 Computational Image Recovery
- (3) ENEL 650 Advanced Digital Communications
- (4) ENEL 657 Applied Digital Signal Processing
- (5) ENEL 675 Special Topic: Advanced Embedded Systems
- (6) ENEL 685 Electrical Postgraduate Project
- (7) ENEL 685 Electrical Postgraduate Project
- (8) ENEL 685 Electrical Postgraduate Project
- (9) ENEL 685 Electrical Postgraduate Project
- (10) ENME 611 Advanced Mechanical System Design
- (11) ENME 611 Advanced Mechanical System Design

**Engineering**

- (1) ENGR 601 Advanced Computational Fluid Dynamics
- (2) ENGR 684 Special Topic: Parallel Computing Architectures
- (3) ENGR 685 Special Topic: Structured Programming for Scientific Computing
- (4) ENGR 686 Special Topic: Structured Programming for Scientific Computing
- (5) ENGR 687 Special Topic: Structured Programming for Scientific Computing

**Forestry Science**

- (1) FORE 606 Forest Transport
- (2) FORE 607 Forest Harvesting
- (3) FORE 609 Advanced Wood-based Composites
- (4) FORE 616 Restoration Ecology
- (5) FORE 641 Plantation Forest Management
- (6) FORE 642 Advanced IT Applications in Forestry

**Fire Engineering**

- (1) ENCI 601 Risk Assessment
- (2) ENFE 601 Structural Fire Engineering
- (3) ENFE 602 Fire Dynamics
- (4) ENFE 603 Fire Safety Systems
- (5) ENFE 604 Fire Design Case Study
- (6) ENFE 610 Advanced Fire Dynamics
- (7) ENFE 681 Project
- (8) ENFE 682 Project
- (9) ENFE 683 Project

**Mechanical Engineering**

- (1) ENME 601 Product Innovation
- (2) ENME 601 Mechanical Systems Design
- (3) ENME 602 Advanced Vibrations and Acoustics
- (4) ENME 603 Advanced Linear Systems Control and System Identification
- (5) ENME 604 Advanced Aerodynamics and Ground Vehicle Dynamics
- (6) ENME 605 Advanced Energy Systems Engineering
- (7) ENME 606 Advanced Engineering Product Design and Analysis
- (8) ENME 607 Advanced Materials Science and Engineering
- (9) ENME 609 Advanced Physiological Modelling



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Award Regulations



NEW ZEALAND UNIVERSITY OF TECHNOLOGY  
 Faculty of Engineering and Forestry  
 Department of Mechanical Engineering

## Schedule to the Regulations for the Degree of Master of Engineering in Fire Engineering

Faculty of Engineering and Forestry

### Courses

- (1) ENCI 601 Risk Management
- (2) ENFE 601 Structural Fire Engineering
- (3) ENFE 602 Fire Dynamics
- (4) ENFE 603 Fire Safety Systems
- (5) ENFE 604 Fire Design Case Study
- (6) ENFE 610 Advanced Fire Dynamics
- (7) ENFE 612 Special Topic
- (8) ENFE 613 Special Topic: Human Behaviour in Fire
- (9) ENFE 614 Special Topic

### Thesis

ENFE 690

Certain courses offered at the University of Auckland may be offered in lieu of one or more of the above courses. Intending students must consult the Director of the Fire Engineering Programme for details of these courses, and to determine which courses ENFE 610-614 will be offered in any one year, and their subject matter.

## The Degree of Master of Engineering in Management (MEM)

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### 1. Qualifications Required to Enrol in the Degree

A candidate for the Degree of Master of Engineering in Management shall have:

- (a) either
  - i. qualified for the award of the Degree of Bachelor of Engineering with Honours; or
  - ii. qualified for the award of the Degree of Bachelor of Engineering; or
  - iii. qualified for the award of an appropriate degree in New Zealand; or
  - iv. been admitted ad eundem statum as entitled to proceed to the Degree of Master of Engineering in Management; and
- (b) been approved as a candidate for the degree by the Dean of Engineering and Forestry.

NEW ZEALAND UNIVERSITY OF TECHNOLOGY  
 Faculty of Engineering and Forestry

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### 2. Structure of the Degree

A candidate for the Degree of Master of Engineering in Management shall:

- (a) enrol in and pursue full-time for one year a programme of study approved by the Dean of Engineering; and
- (b) during the year of study, pass an examination in

period or periods of time as may be approved by the Director of the Master of Engineering in Management programme;

- (b) the candidate shall submit for examination two hard bound copies of the project report to the Director of the Master of Engineering in Management programme;
- (c) the project report shall be submitted within one

calendar year from the date upon which study for the Master of Engineering in Management commenced;

- (d) the project report shall be examined by one or more examiners appointed by the Director of the Master of Engineering in Management programme.

## Schedule to the Regulations for the Degree of Master of Engineering in Management

### Courses

- (1) ENMG 601 Engineering Accounting
- (2) ENMG 602 Engineering Economics and Finance
- (3) ENMG 603 Legal and Human Resource
- (4) ENMG 604 Technology, Innovation and Engineering Management
- (5) ENMG 605 Marketing, Selling and Service
- (6) ENMG 606 Strategic Management
- (7) ENMG 607 Special Topic

- (8) ENMG 608 Special Topic
- (9) ENMG 609 Special Topic

### Project

ENMG 680

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## The Degree of Master of Engineering in Transportation (MET)

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### 1. Qualifications Required to Enrol in the Degree

A candidate for the Degree of Master of Engineering in Transportation shall have:

- (a) either
  - i. qualified for the award of the Degree of Bachelor of Engineering with First or Second Class Honours; or
  - ii. qualified for the award of the Postgraduate Diploma or Postgraduate Certificate in Engineering with a GPA of 5 or more; or
  - iii. qualified for the award of the Degree of Bachelor of Science with Honours in appropriate subjects; or
  - iv. in exceptional circumstances, qualified for the award of an appropriate degree in New Zealand; or
  - v. been admitted ad eundem statum as entitled to proceed to the Degree of Master of Engineering in Transportation; and
- (b) been approved as a candidate for the degree by the Dean of Engineering and Forestry.

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**3. Structure of the Degree**

For each candidate the Dean of Engineering and Forestry will approve, on the basis of academic background and work experience, the programme of study to be followed to qualify for the degree.

The degree may be completed:

- (a) by examination and project report, or
- (b) by examination and thesis, or
- (c) by thesis.

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**4. Full-time and Part-time Enrolment**

(a) Full-time study:

- i. A candidate may be enrolled as a full-time or part-time candidate.
- ii. A full-time candidate is one who throughout the calendar year regards study and research for the Master of Engineering in Transportation as a full-time occupation. Note: With the approval of the supervisor and Director of the Transportation Engineering Programme, a full-time candidate may be employed in the university in academically-relevant work for up to an average of six hours a week over the calendar year.

(b) Part-time study:

- i. With the approval of the Dean of Engineering and Forestry, a candidate may be enrolled as a part-time candidate.
- ii. A part-time candidate is one who, because of employment, health, family or other reasons, is unable to devote his or her full-time to study and research.
- iii. An applicant for part-time enrolment must produce evidence, including a statement from any employer, that he or she will be able to pursue satisfactorily the necessary study and research. The Dean will not approve part-time enrolment unless satisfied that the candidate can devote sufficient time to study and research to be able to complete the degree programme within four years, that any necessary access to required facilities will be available, and that adequate regular communication with a nominated supervisor is assured.

(c) After the commencement of study and research for the degree a candidate may, with the permission of the Academic Board, transfer from part-time to full-time status, or vice-versa. In granting such permission, the Dean shall determine the minimum period of study and may impose other

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- (b) present a thesis and satisfy the examiners therewith, and, if so required, take an oral examination on the subject of the thesis and related subjects.

**8. MET with Distinction**

In cases of exceptional merit candidates may, on the recommendation of the examiners, have the degree awarded with Distinction. In recommending a candidate for admission to the degree and in recommending Distinction the examiners will take into consideration the combined results of the project report or thesis and of all courses taken.

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**9. Theses**

The presentation of the thesis shall conform to the requirements of the General Course and Examination Regulations: L, to the Guidelines for Master's Thesis Work, and to the Library Guide to the Presentation of Theses.

**10. Project Reports**

The following conditions shall apply to the preparation, presentation and examination of the project report:

- (a) the project report shall describe work done by the candidate on a project approved by the Director of the Transportation Engineering Programme; the project shall be carried out by the candidate at the University under the direct supervision of a member of academic staff; in particular circumstances the project may be carried out in such other places and for such period or periods of time as may be approved by the Director of the Transportation Engineering Programme;
- (b) the candidate shall submit for examination two hard bound copies of the project report to the Director of the Transportation Engineering Programme;
- (c) the project report shall be submitted by a full-time candidate within one calendar year from the date upon which study for the Master of Engineering in Transportation by examination and project commenced or within four years by a part-time candidate;
- (d) the project report shall be examined by one or more examiners appointed by the Director of the Transportation Engineering Programme.

**11. Transfer from MET to PhD**

Where a candidate has demonstrated high research potential and has the support of the Director of the Transportation Engineering Programme, he or she may abandon the Master of Engineering degree and apply for transfer to a PhD degree with such backdating of enrolment as may be approved by the Academic Board.

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**12. Award of PGCertEng instead of MET**

Should a candidate fail to complete the requirements for the Master of Engineering in Transportation degree, but successfully complete the requirements for the award of the Postgraduate Certificate in Engineering, he or she may be awarded, upon the recommendation of the Academic Board, a Postgraduate Certificate in Engineering instead.

**13. Transfer from PGCertEng to MET**

Where a candidate has demonstrated research potential and has the support of the Head of Department or the appropriate Programme Director, he or she may abandon the Postgraduate Certificate before the completion of the qualification, and transfer to the Master of Engineering in Transportation (MET) with such backdating of enrolment as may be approved by Academic Board.

- (a) Subject to approval of the Dean of Engineering and Forestry, a candidate for the Postgraduate Certificate in Engineering may transfer to the Master of Engineering in Transportation provided the following conditions have been met:
  - i. The candidate has completed 48 points (0.4 EFTS) of the course requirements for the PGCertEng.
  - ii. The candidate has achieved an average GPA of 5.0 or better in the completed courses; and
  - iii. Suitable thesis or project supervision and research resources are available.
- (b) Where the transfer of a candidate from the PGCertEng to the MET has been approved, the Dean of Engineering and Forestry will transfer appropriate courses from the candidate's PGCertEng studies towards their MET degree.

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**3. Structure of the Degree\***

\*(S. 1 UN CUAP, D 2012)

Each candidate must complete a programme of study that consists of courses with a total course weighting of not less than 120 points. The courses must be selected as follows:

- (a) courses with a total course weighting of not less than 75 points must be selected from the courses listed in Schedule B of the Master of Engineering regulations; and
- (b) any remaining courses, that ensure that the total course weight is not less than 120 points, may be selected from the list of 400-level courses offered by the Engineering programmes or from postgraduate courses offered outside the Engineering programmes.

**4. Full-time and Part-time Enrolment**

A candidate may be enrolled for the Master of Engineering Studies as a full-time or part-time candidate. A full-time candidate will enrol for not less than one year and not more than two years. A part-time candidate will enrol for not less than two years and not more than five years. Part-time enrolment requires the approval of the Dean of Engineering and Forestry.

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**5. MEngSt with Distinction**

Candidates who obtain a GPA of 8.0 or more in their programme of study will be eligible to be considered for the award of MEngSt with Distinction.

**6. Transfer from MEngSt to ME/MEFE/MET**

- (a) Subject to the approval of the Dean of Engineering and Forestry, a candidate for the Master of Engineering Studies may transfer to a Master of Engineering, Master of Engineering in Fire Engineering or Master of Engineering in Transportation provided the following conditions have been met:
  - i. The candidate has completed a minimum of 45 points of the course requirements for the MEngSt; and
  - ii. The candidate has achieved an average GPA of 5.0 or more in the completed courses; and
  - iii. The courses completed by the candidate fulfil the coursework requirements of one of the ME specialisations given in Schedule A of the ME regulations, or the schedule to the regulation of the MEFE, or the schedule to the regulations of the MET; and
  - iv. Suitable thesis supervision and research resources are available.
- (b) Where the transfer of a candidate from the MEngSt to a suitable ME endorsement has been approved, the Dean of Engineering and Forestry will transfer appropriate courses from the candidate's MEngSt studies towards their ME degree.

**7. Award of PGCertEng instead of MEngSt**

Should a candidate fail to complete the requirements for the Master of Engineering Studies degree, but successfully complete the requirements for the award of the Postgraduate Certificate in Engineering, he or she may be awarded, upon the recommendation of the Academic Board, a Postgraduate Certificate in Engineering instead.

**Schedule to the Regulations for the Degree of Master of Engineering Studies (un-endorsed)**

See Regulation 3 above.

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the Academic Board.

#### **4. Courses and Time Requirements**

- (a) A candidate for the degree by Examination and Report must pass six courses from the Schedule to these Regulations and present a satisfac-

is eligible for enrolment in the second year of a two-year MForSc programme, subject to the availability

of staff and resources.

## Schedule to the Regulations for the Degree of Master of Forestry Science

(1) FORE 606 Forest Transport	Management
(2) FORE 607 Forest Harvesting	(11) FORE 643 Modelling for Forestry Management
(3) FORE 609 Advanced Wood-Based Composites	(12) FORE 650-659 Special Topics
(4) FORE 610 Research Methods	(13) FORE 665 Pest Management and Biological Security
(5) FORE 612 Advanced Forest Economics	(14) FORE 670-672 Special Topics
(6) FORE 613 Marketing	
(7) FORE 616 Restoration Ecology	
(8) FORE 624 Plantation Silviculture	
(9) FORE 641 Plantation Forest Management	
(10) FORE 642 Advanced Information Technology Applications in Forestry and Natural Resource	

## The Degree of Master of Human Interface Technology (MHIT)

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### 1. Qualifications Required to Enrol in the Degree

Every candidate for the degree of Master of Human Interface Technology, before enrolling for the degree, shall have:

- (a) either
  - i. qualified for the award of the Bachelor with Honours Degree in an appropriate field; or
  - ii. qualified for the award of another appropriate degree in New Zealand; or
  - iii. been admitted ad eundem statum as entitled to proceed to the Degree of Master of Human Interface Technology; and
- (b) been approved as a candidate for the degree by the Dean of Engineering and Forestry.

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### 2. Structure of the Degree

A candidate shall:

- (a) Enrol in and pursue full-time study for one year; and
- (b) Complete a programme of study with a

minimum total weight of 1.0 EFTS. The programme of study consists of a thesis (HITD 690 0.75 EFTS) and one course (HITD 601 0.25 EFTS).

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### 3. Masters of Human Interface Technology with Distinction

Candidates who obtain a GPA of 8.0 or more in their programme of study will be eligible for the award of MHIT with Distinction.

### 4. Theses

The presentation of the thesis shall conform to the requirements of the General Course and Examinations Regulations: L to the guidelines for Master's Thesis Work and to the Library Guide to the Presentation of Thesis.

### 5. Transfer from Master of Human Interface Technology to PhD

When a candidate has demonstrated high research potential and has the support of the supervisor, Head of the Department and Hit Lab Board of Studies, the candidate may apply to transfer to a

Ph.D. in Human Interface Technology, with such a backdating of research thesis enrolment as may be approved by the Dean of Postgraduate Research.

**6. Award of a MHIT instead of a PhD**

Where a thesis has been presented for the degree of Doctor of Philosophy in Human Interface Technology

and the examiners are of the opinion that it does not justify the award of that degree, they may recommend that it be presented for the degree of Master of Human Interface Technology. In such a case, the Dean of Engineering and Forestry may, if required for the award of the degree, exempt the course work component of the degree.

# Postgraduate Certificate in Engineering (PGCertEng)

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## 1. Certificate Programmes

Every candidate for the Degree of Postgraduate Certificate in Engineering shall follow a course of study approved by the Dean of Engineering and Forestry and Director of Postgraduate Studies as laid down in these Regulations, or those consistent with the regulations in the relevant Calendar at the time they began their candidacy. In special circumstances the Dean of Engineering and Forestry may modify specific aspects of the degree regulations for individual candidates.

- (a) The qualification of Postgraduate Certificate in Engineering (PGCertEng) is offered by the Departments of Chemical and Process Engineering, Civil and Natural Resources Engineering, Electrical and Computer Engineering, Mathematics and Statistics, and Mechanical Engineering.
- (b) It may be awarded endorsed in the following subjects:
  - i. Civil Engineering
  - ii. Construction Management
  - iii. Earthquake Engineering\*
  - iv. Engineering Mathematics\*
  - v. Fire Engineering;
  - vi. Mechanical Engineering
  - vii. Transportation Engineering.

\*(S. 1 UN CUAP , D 2012.)

## 2. Qualifications Required to Enrol in the Certificate

A candidate shall have:

- (a) either
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