

principally on the basis of the grades obtained in that Examination.

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Professional Years); or three years if exempted from the whole of the Intermediate Year;

(ii) candidate in the associated examination);

Scholarships qualification in appropriate subjects, or in other examinations approved by the Dean of Engineering and Forestry for the purposes of this regulation, may be considered for direct entry to the First Professional year of the BE(Hons) degree.

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(iv) perform to the satisfaction of the Faculty of Engineering and Forestry the period of approved practical work;

(v) submit an approved valid First Aid Certificate.

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the candidate may be required to complete a special

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6 E E

Candidates are expected to pass each Professional Examination as a Whole. In recommending a candidate for a pass in any Professional Examination as a Whole the Dean of Engineering and Forestry shall take into consideration his or her performance in all the courses of that Professional Examination.

A candidate who has failed to pass any Professional Examination as a Whole may, on the recommendation of the Dean of Engineering and Forestry, be credited with a course or courses of that Professional Examination. The candidate may then present in a subsequent year the remaining subjects of that Examination together with such courses of the succeeding Professional Examinations, if any, as the Dean may permit. The candidate may pass such a composite Examination under the same conditions as set out above.

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Where a report is required it shall describe the work done by the candidate in an investigation on a subject approved by the Head of the Department concerned. The investigation shall be carried out by the candidate under the supervision of a universik ve

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- (c) Not more than 60 hours are credited in any one week.
 - 6. Students wishing to graduate at a ceremony during Semester 1 must have completed all practical work requirements by 4 March. Those wishing to graduate at a December ceremony must have completed all practical work requirements by 1 November.
 - 7. On receipt of a written application accompanied by supporting documents from a student who has served an indentured engineering apprenticeship or who has performed similar work for a satisfactory period, the Faculty may accept such work as partial or total exemption from the above practical work requirements.
 - 8. The Faculty may relax or modify the application of clauses 1 to 7 in individual cases.
- (b) obtain 172 points by passing courses selected from the Schedule to the Regulations for the Degree of Bachelor of Science which have not been credited to the Degree of Bachelor of Engineering (Hons), or used to obtain exemption from a course in that degree. At least 84 of these points shall be at 300-level, at least 56 shall be from a single subject or as required by the subject matter. Students admitted into the Bachelor of Engineering (Hons) under BE(Hons) Regulation 4 must complete the 172 points as described above.

13 E C S B

10 C

The degree of Bachelor of Engineering with Honours may be awarded with First Class Honours, 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). The class of Honours awarded shall be determined by the candidate's performance in the Second and Third Professional years.

Note: Candidates may enquire from the Dean of Engineering and Forestry as to Faculty's policy in this matter.

11 BE

Candidates who have passed all courses and completed all other requirements for a BE(Hons) but whose performance in the courses is deemed by the Dean of Engineering and Forestry, upon recommendation by the examiners, not to be of Honours standard will be awarded a degree of Bachelor of Engineering without Honours.

12 C E BE() B D

A candidate who enrolls concurrently for the Degree of Bachelor of Science and Bachelor of Engineering with Honours shall, in order to qualify for the award of both degrees, be enrolled for a course of study approved under the provisions of the General Course and Examination Regulation A3 for a period of at least five years or for at least four years if exempted the whole Intermediate Examination, and shall:

- (a) meet all requirements as laid down in the current regulations for the Degree of Bachelor of Engineering with Honours;

14 C E BE() BC

A candidate who enrolls concurrently in the Degree of Bachelor of Engineering (Hons) and the Degree of Bachelor of Commerce may be exempt from one (or two) of the optional courses listed in the Regulations of the relevant Third Professional year provided that the candidate takes a course (or courses) worth at least 18 points (or at least 36 points) from the Commerce schedule to be credited to the Degree of Bachelor of Commerce. The exemption(s) must be as approved by the Head of the relevant Engineering Department.

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15 E

Courses selected in accordance with the Schedules A and B set out below to make up a total of at least 120 points, but no more than 144 points.

S A C E

- (1) ENGR101 Foundations of Engineering 15pts
- (2) EMTH171 Mathematical Modelling & Computation 15pts
- (3) MATH108 Mathematics 1C 18pts
- (4) MATH109 Mathematics 1D 18pts

S B E

Chemical and Process Engineering

- (1) CHEM113 Engineering Chemistry 18pts
- (2) PHYS113 Waves, Thermodynamics and Materials 18pts
- (3) BIOL111 Cellular Biology and Biochemistry 18pts

Civil Engineering, Forest Engineering, Mechanical Engineering, or Natural Resources Engineering

- (1) CHEM113 Engineering Chemistry 18pts
- (2) PHYS113 Waves, Thermodynamics and Materials 18pts
- (3) ENGR102 Engineering Mechanics 18pts

Computer Engineering

- (1) PHYS114 Electrical and Quantum Physics 18pts
- (2) COSC121 Computer Science 1A 18pts
- (3) COSC122 Computer Science 1B 18pts

Electrical and Electronic Engineering

- (1) PHYS113 Waves, Thermodynamics and Materials 18pts

- (2) PHYS114 Electrical and Quantum Physics 18pts and either
- (3) CHEM113 Engineering Chemistry 18pts; or
- (4) COSC121 Computer Science 1A 18pts

Mechatronics Engineering

- (1) PHYS113 Waves, Thermodynamics and Materials 18pts
- (2) PHYS114 Electrical and Quantum Physics 18pts
- (3) ENGR102 Engineering Mechanics 18pts

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16 E A

A candidate may complete an approved Intermediate Examination at another university. Admission to the BE(Hons) programme will be principally on the basis of grades obtained in that examination.

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17 E

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A candidate for admission to the Bachelor of Engineering with Honours who intends to qualify through the Intermediate Examination and has obtained high marks in one or more subjects in Level 3 NCEA, or the New Zealand University Entrance, Bursaries and Scholarships qualification and also obtained an 'A' Bursary, may be allowed to vary his or her course of study for that Examination. With the consent of the Dean of Engineering and Forestry, the Engineering Intermediate Examination course equivalents of each of the subjects in which high

marks were obtained may be replaced by another course. Normally permission will be given for only one such replacement.

Each candidate must have the Engineering Intermediate course change approved by the Dean of Engineering and Forestry.

C **o** **n** **s** **i** **d** **a** **d** **P** **r** **e** **s** **e** **r** **v** **e** **d** **C** **o** **u** **r** **s** **e** **s** **E**

18 F **E**

- (1) ENH 210 Engineering Mathematics
- (2) ENH 271 Mathematical Modelling and Computation 2
- (3) ENH 202 Engineering Materials 1 (Chemical)
- (4) ENH 241 Engineering Chemistry 2
- (5) ENH 250 Chemical Process Technology

C E

21 F E

- (1) EMTH 210 Engineering Mathematics
- (2) EMTH 271 Mathematical Modelling and Computation 2
- (3) ENCI 211 Design Studio 1
- (4) ENCI 230 Mechanics of Materials
- (5) ENCI 234 Structural Engineering 1
- (6) ENCI 241 Fluid Mechanics 1
- (7) ENCI 252 Geotechnical Engineering 1
- (8) ENCI 262 Survey, Transport and GIS
- (9) ENCI 271 Engineering Geology and Hydrology
- (10) ENNR 203 Environmental Quality and Ecosystems

22S E

- (1) ENCI 302 Engineering Mathematics 3 (Civil)
- (2) ENCI 303 Engineering Decision-making
- (3) ENCI 312 Design Studio 2
- (4) ENCI 332 Structural Concrete
- (5) ENCI 333 Structural Steel
- (6) ENCI 334 Computational Mechanics
- (7) ENCI 341 Fluid Mechanics 2
- (8) ENCI 351 Geotechnical Engineering
- (9) ENCI 363 Infrastructure Management
- (10) ENCI 383 Environmental Engineering 2

In lieu of ENCI 302 Engineering Mathematics 3 (Civil) a candidate may offer any 300 or 400-level Mathematics course provided the candidate can satisfy the prerequisites, the course has not been credited towards a degree, and the Head of the Department of Civil Engineering provides written approval.

In lieu of ENCI 302 Engineering Mathematics 3 (Civil) a candidate may offer any 300 or 400-level Mathematics course provided the candidate can satisfy the prerequisites, the course has not been credited towards a degree, and the Head of the Department of Civil Engineering provides written approval.

23 E

- (1) ENCI 403 Management of Engineering Systems
- (2) Either (i) NINE of the courses listed below

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- (g) ENEL 340 Special Topic
- (h) ENEL 341 Special Topic
- (i) one COSC 300-level course or one MATH 300-level course or one STAT 300-level course

A candidate's choice of courses shall be as approved by the Head of Department. Subject to the approval of the Head of Department, a candidate may offer in place of one (or two) courses, listed under (4) and (5) in this Regulation, any set of degree courses which, in total, is equivalent to at least 18 (or 36) points at 100-level, or 22 (or 44) points at 200-level, or at least 14 (or 28) points at 300-level, provided the candidate satisfies the necessary prerequisites for each course concerned and that none of the courses have been credited towards a degree.

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Topic and/or ENFO 492 Special Topic in lieu of one or more of the courses listed (1) to (6) above. Any substitutions are subject to the approval of the Forest Engineering Committee of the Faculty of Engineering and Forestry.

M c a r a E

33 F E

- (1) Either
 - (a) EMTH 210 Engineering Mathematics, or
 - (b) EMTH 264 Multivariate Calculus and Differential Equations, or
 - (c) EMTH 204 Calculus and Algebra (see Note below)
- (2) EMTH 271 Mathematical Modelling and Computation 2
- (3) ENME 222 Mechanics of Materials A
- (4) ENME 223 Mechanics of Machines
- (5) ENME 224 Fluid Mechanics A
- (6) ENME 225 Engineering Thermodynamics A
- (7) ENME 226 Manufacturing Technology
- (8) ENME 227 Introduction to Materials Science for Engineers
- (9) ENME 211 Elements of Mechanical Design

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34 S E

- (1) EMTH 391 Engineering Applied Mathematics and Statistics (or another Mathematics course approved by the Head of Department)
- (2) ENME 331 Dynamics
- (3) ENME 332 Mechanics of Materials B
- (4) ENME 333 Control Engineering
- (5) ENME 339 Fundamentals of Electronics
- (6) ENME 340 Mechanical Engineering Design A
- (7) ENME 341 Mechanical Engineering Design B
- (8) ENME 345 Thermo-fluids Transport
- (9) Two courses selected from:
 - (a) ENME 336 Production Management
 - (b) ENME 337 Materials and Metallurgical Engineering
 - (c) ENME 338 Fundamentals of Power Electronics
 - (d) ENME 354 Engineering Thermo-fluids B
 - (e) ENME 348 Special Topic
 - (f) ENME 349 Special Topic

- 35 E**
- (1) ENME 438 Project (two course weighting)
 - (2) ENME 440 Mechanical System Design – Process
 - (3) ENME 450 Industrial Management
 - (4) Six of the courses listed below
 - (a) ENME 430 Computational Solid Mechanics
 - (b) ENME 432 Mechanics of Vibration
 - (c) ENME 433 Modern Control Theory
 - (d) ENME 434 Applied Fluid Mechanics
 - (e) ENME 435 Heat and Mass Transfer
 - (f) ENME 436 Advanced Manufacturing Technology
 - (g) ENME 437 Advanced Materials Engineering
 - (h) ENME 441 Mechanical System Design – Special Applications
 - (i) ENME 443 Computer Control and Instrumentation
 - (j) ENME 444 Theoretical Fluid Mechanics
 - (k) ENME 445 Energy Engineering
 - (l) ENME 448 Special Topic
 - (m) ENME 449 Special Topic: Physiological Modelling
 - (n) ENME 454 Introduction to Acoustics
 - (o) ENME 456 Computer Aided Product Development
 - (p) ENME 457 Fracture Mechanics and Failure Analysis
 - (q) ENME 464 Biofluid Mechanics
 - (r) ENME 465 HVAC Engineering
 - (s) ENME 466 Manufacturing Optimisation
 - (t) ENME 467 Polymeric and Composite Materials
 - (u) ENGR401 Special Topic: Introduction to Computational Fluid Dynamics
 - (v) M&PH 400 Iⁿ at (e r t a i B m e n k)

Award Regulations

4 F E

The courses of the Third Forestry Examination shall

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3S F E

The courses of the Second Forestry Examination shall normally be as follows:

- (1) FORE 202 Plant Ecology
(2) FORE 215 Forest Economics
(3) FORE 216 Surveying and Information Technology in Forestry
(4) FORE 218 Forest Health and Dendrology
(5) FORE 219 Introduction to Silviculture
(6) FORE 222 Biometry 1A
(7) FORE 224 Biometry 1B
(8) SOIL 203 Soil Fertility

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Award Regulations

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- (a) The ME degree is awarded as an endorsed degree in an area of specialisation selected from those specialisations listed in Schedule A.
- (b) Each candidate must complete a programme of study with a minimum total weight of 14 EFTS. The programme of study consists of a thesis (10 EFTS) and courses with a total course weighting of not less than 48 points (0.4 EFTS). The courses must be selected as follows:
 - i. courses with a total course weighting of not less than 12 points (0.1EFTS) must be selected from the 600-level courses listed in Schedule B; and
 - ii. additional courses with a total course weighting of not less than 24 points (0.2 EFTS) must be selected from the 600-level courses listed in Schedule B, or from postgraduate courses offered outside the Engineering programmes; and
 - iii. any remaining courses, that ensure that the total course weight is not less than 48 points (0.4 EFTS), may be selected from 400-level courses offered in the Engineering programmes; and
 - iv. the courses selected must satisfy the specific requirements for the chosen specialisation in Schedule A.
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- (c) Each programme of study must be approved by the Head of Department and Dean of Engineering and Forestry.
- (d) In exceptional circumstances the Dean of Engineering and Forestry may approve appropriate substitutions for courses listed in Regulation 3(b) above.

4 E

Subject to the approval of the Dean of Engineering and Forestry, students with relevant previous postgraduate study, or extensive relevant industry experience, may apply for exemption from some, or all, of the coursework (48 points) component of the degree.

5 F - - E

- (a) A candidate shall normally enrol as a full-time candidate.
 - i. A full-time candidate will enrol for not less than one year four months and not more than three years; or

- ii. if a candidate has been exempted courses under Regulation 4, then a minimum and maximum period of enrolment, consistent with the level of exemption, will be determined by the Dean of Engineering and Forestry at the time of enrolment, such that the minimum period is not less than one year.

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- (b) With the approval of the Dean of Engineering and Forestry, a candidate may be enrolled as a part-time candidate. A part-time candidate is one who, because of health, employment, family, or other circumstances, is unable to devote himself or herself to full-time study and research.
 - i. A part-time candidate will enrol part-time for not less than two years six months and not more than four years; or
 - ii. if a candidate has been exempted courses under regulation 4, then a minimum and maximum period of part-time enrolment, consistent with the level of exemption, will be determined by the Dean of Engineering and Forestry at the time of enrolment.

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6 E D

9 E D

Where a candidate has demonstrated high research potential and has the support of the Head of Department, the candidate may abandon the Master of Engineering degree and apply to transfer to a PhD degree with su su er

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In granting such permission, the Dean shall determine the minimum period of study and may impose other conditions.

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5 S

A candidate for the Degree of Master of Engineering in Fire Engineering by examination and project report shall:

- i. enrol in and pursue either full-time for one year or part-time for a _____ date of Mast

- vi. except with the approval of the Dean of Engineering and Forestry the thesis shall be submitted within three calendar years by a full-time candidate and within four years by a part-time candidate.

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Where a candidate has demonstrated high research potential and has the support of the Director of the

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- ii. during the year of study, pass an examination in six courses selected from the Schedule to these Regulations; and
- iii. during the year of study, present a project report and satisfy the examiners therewith.

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1 E D

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

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

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If a candidate does not hold any of the qualifications noted in Regulation 1(a) above, or has not demonstrated to the satisfaction of the Dean

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A candidate for the Degree of Master of Engineering in Transportation by examination and project shall:

- i. enrol in and pursue either full-time for one year or part-time for not less than two years and not more than four years a programme of study approved by the Dean of Engineering and Forestry; and
- ii. during the programme of study, pass an examination in six courses at least four of which must be selected from the Schedule to these regulations and up to two of which may be such other courses as may be approved by the Director of the Transportation Engineering Programme; and
- iii. during the programme of study, present a project report and satisfy the examiners therewith.

6 S
E

A candidate for the Degree of Master of Engineering in Transportation by examination and thesis shall:

- i. enrol in and pursue either full-time for not less than one year and not more than three years, or part-time for not less than two years and not more than four years, a programme of study approved by the Dean of Engineering and Forestry; and
- ii. pass an examination in one to four courses as determined by the Director of the Transportation Engineering Programme and selected from the Schedule to these Regulations; and
- iii. 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.

7 S
A

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

- i. enrol in and pursue either full-time for not less than one year and not more than three years, or part-time for not less than two years and not more than four years, a programme of study approved by the Dean of Engineering and Forestry; and

- ii. 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 E D

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

- i. the presentation of the thesis shall conform to the requirements of the General Course and Examination Regulations, Part L, to the Guidelines for Masters Thesis Work and to the Library's guide to thesis production;
- ii. the thesis shall describe the work done by the candidate in an investigation in a subject approved by the Director of the Transportation Engineering Programme; the investigation shall be carried out at the University by the candidate under the direct supervision of a member of academic staff; in special circumstances the investigation may be carried out in such other places for such period or periods as may be determined by the Director of the Transportation Engineering Programme;
- iii. the candidate shall submit for examination two hard bound copies of the thesis;
- iv. the thesis shall be examined by an external examiner appointed by Council and by one or more internal examiners appointed by Council (Note: See also General Course and Examination Regulations, Part D);
- v. if the thesis at its first presentation is inadequate to secure a pass the Academic Board may, on the recommendation of the examiners, permit the candidate to revise the thesis and resubmit it by a specified date;
- vi. except with the approval of the Dean of Sa D

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1 D

The degree of Master of Engineering Studies (MEngSt) is offered in Chemical and Process Engineering, Civil Engineering, Electrical and Electronic Engineering, and Mechanical Engineering.

2 D

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A candidate shall have:

- (a) 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 the Postgraduate Diploma in Engineering; or
- iv. qualified for the award of the Degree of Bachelor of Science with Honours in appropriate subjects; or
- v.

FORE 650-658 Special Topics

FORE 659 Special Topic: Advanced Forest Tree Breeding and Genetics

FORE 665 Pest Management and Biological Security

FORE 670-672 Special Topics

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- A C**
- 1 Before enrolment for this Certificate, a candidate shall have been awarded or qualified for the award of a university degree in engineering, technology, or computer science, or have been admitted with graduate equivalent status.
 - 2 Admission to the Postgraduate Certificate in Professional Development (Electronics and ICT) shall be subject to the approval of the Programme Director, Engineering and Technology, to be advised by a National Academic Advisory Committee when established.

(Electronics and ICT) a candidate shall pass the prescribed modules/papers/courses to the value of 60 points, of which at least 30 points, including Module 4, must be completed with the University from which the candidate elects to graduate. The modules must be completed in the same sequence as they appear in the Schedule.

- S C**
- 3 To qualify for the award of the Postgraduate Certificate in Professional Development

- C C**
- 4 No credit will be granted towards the Postgraduate Certificate in Professional Development (Electronics and ICT) from a completed university qualification. Candidates may be permitted to transfer credit of up to 30 points from equivalent papers taken with another provider of the qualification.

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- ENMG 501 Module 1 Technical Update
- ENMG 502 Module 2 Essential Professional Studies
- ENMG 503 Module 3 Sector Study
- ENMG 504 Module 4: Integrated Professional Studies

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The Postgraduate Diploma in Engineering was discontinued in 2006. Candidates who are currently enrolled may complete the diploma under the 2005 Regulations (see page 264, 2005 Calendar).

Candidates currently enrolled in the PGDipEng may substitute 600-level papers for 500-level papers to complete their diploma.

