



**UNIVERSITY OF PLYMOUTH**

***School of Engineering***

**MSc/MRes/PgDip/PgCert**

**Mechanical Engineering**

**Student Handbook 2008/2009**

**Date of first intake: September 2005**  
**Year of first award: September 2006**

Dear MSc student,

Welcome to the new School of Engineering. I hope you have a happy and rewarding experience here in Plymouth. This year sees a range of new taught postgraduate programmes focusing upon mechanical engineering and construction.

This handbook is your guide to the mechanical engineering MSc programmes in the School. It describes the programme structures, the resources available to you, your responsibilities and all other relevant information.

The MSc programme you have chosen will prove demanding but is designed to stimulate your interest in your chosen field of expertise and to help you to advance your professional career.

You are responsible for your own learning and progression throughout your studies. You must expect many demands to be made of your time, and so you should ensure that you strike the correct balance between academic, social and personal needs.

If any problems of either an academic or a more personal nature arise, please do not hesitate to contact any member of staff. Academic staffs in the school are not only chartered engineering professionals and researchers but also professional educators. Our role is to enable you to achieve as much as possible during your time in here.

Finally, I wish you all the best in your studies and look forward to your future success in this programme.

**Sanjay Sharma**  
Programme Manager

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## Appendix A

# 1. Introduction

## 1.1 Handbook

This handbook is intended to provide you with information relevant to your studies as an MSc/MRes student. Included in the handbook are details of your programme of study; the names of staff involved directly and indirectly in your studies; guidance notes on your dissertation; and other items which are provided as a source of support for your study. An electronic version of this handbook is available at [www.tech.plym.ac.uk/sme/msc/mscstudhb.pdf](http://www.tech.plym.ac.uk/sme/msc/mscstudhb.pdf)

The taught MSc programme that focuses on mechanical engineering is described below

## 1.2 MSc/MRes/PgDip/PgCert Programme

Satisfactory completion of the full programme of study as outlined in this handbook leads to the award of MSc/MRes in Mechanical Engineering.

A Postgraduate Certificate can be awarded if the student is unable to successfully complete the full programme of study, but successfully completes 60 credits of study on this programme. (The credits required exclude the dissertation).

A Postgraduate Diploma in the named subject can be awarded if the student is unable to successfully complete the full programme of study, but successfully completes 120 credits of study on this programme. (The credits required exclude the dissertation).

### 1.2.1 MSc/MRes/PgDip/PgCert Mechanical Engineering

This programme aims to equip graduates with an enhanced understanding of the key components available to an organisation needing to take the broader, systems approach to increasing the quality of its output and ultimately its competitiveness. It is expected that this qualification would significantly enhance the career prospects of ambitious Mechanical Engineers wishing to achieve a higher qualification and/or move into a project or similar engineering management role in everything from new start up businesses to major corporations. The Plymouth graduate would also be well equipped as a candidate for a wide range of engineering PhDs.

This Masters programme emphasises the importance of an integrated, “systems” approach to most aspects of Mechanical Engineering as well as how those elements contribute to the wider business environment. Recognition of, for example, the influence of effective design, modern materials, advanced IT and the management of both manufacturing and projects all form part of the programme of study.

Students will come from a range of backgrounds including previous study of Mechanical Engineering, but also related fields such as Materials and Manufacturing Engineering.

## **2 Programme Aims and Objectives**

### **2.1 Aims of Faculty of Technology Programmes**

The School of Engineering shares the values of the University and supports its mission through the provision of a range of courses relevant to the theory and practice of engineering. Namely:

1. To be informative, challenging and establish a knowledge base suitable for a future career in an engineering based industry.
2. To give students with a variety of entry qualifications an opportunity to realise their potential.
3. To enrich curriculum content and teaching quality through the professional and/or research expertise of staff and industrial links.
4. To encourage and support students whilst they develop and apply technical and generic skills that will facilitate life long learning and continuing professional development.
5. To produce graduates and postgraduates who can make a significant contribution to their professional field or business.

#### **This programme specifically aims:**

1. To produce postgraduates with an awareness of the current limits of knowledge in Mechanical Engineering.
2. To produce postgraduates who recognise the complexity and systems nature of much of the engineering industry.
3. To produce postgraduates with the ability to extend first principles and apply a range of skills to the solution of unique engineering problems in Mechanical Engineering.
4. To provide postgraduates with a depth and breadth of both knowledge and skills sufficient to enable them to work in their chosen specialist subject in Mechanical Engineering.
5. To provide postgraduates with a depth and breadth of both knowledge and skills enabling them to seek further research employment.
6. To provide the opportunity to pursue a substantial, research led project in Mechanical Engineering (MRes only).

### 3 Programme Management

The programmes are managed formally via a Programme Committee that meets at least twice a year.

#### 3.1 Key Programme Staff

<b>Role</b>	<b>Name</b>	<b>Responsibilities</b>
Programme Manager	Sanjay Sharma	Overall co-ordination of the programme
Student Administrator	Joyce Owen	Student records: exams, module choices, extenuating circumstances, change of address etc.
Admissions	Miggy Singh	Marketing and Admissions
Dissertation Co-ordinator	Ming Dai	Dissertation co-ordination.

#### 3.2 Key Teaching Staff

<b>Name</b>	<b>Building</b>	<b>Tel No</b>	<b>E-mail @plymouth.ac.uk</b>
Dr Susan Boulton	PV	3556	sboulton
Dr Paul Filmore	PSQ	2330	pfilmore
Dr David Grieve	Reynolds	2642	dgrieve
Prof Neil James	Smeaton	3300	mnjames
Mr Mike Miles	Reynolds	2661	mmiles
Prof Mike Riley	Reynolds	3696	mriley
Dr Paul Robinson	PSQ	2595	probinson
Dr Sanjay Sharma	Reynolds	3678	sanjay.sharma
Dr John Summerscales	Reynolds	2650	jsummerscales

#### 3.3 Key Technical Staff

<b>Name</b>	<b>Room</b>	<b>Tel No</b>	<b>E-mail @plymouth.ac.uk</b>
Mr Rob Crocker	Brunel 6	2660	rcrocker
Mr Neil Fewings	Brunel 6	2660	nfewings
Mr Brian Lord	Reynolds 110	2636	blord
Dr Roy Moate	EMU	3096	rmoate
Mr Terry Richards	Smeaton 1	2631	trichards
Mr Mike Sloman	Smeaton 1	2631	msloman

### 3.4 Faculty of Technology & School Office

The School is part of the Faculty of Technology which is responsible for enrolment, student records and general administration. Key Faculty staff are Professor Neil James (Dean), Donna Sanders (Faculty Registrar) and David Rushton (Admissions & Marketing Manager).

The School Office is currently located within the Faculty office on the ground floor of the Smeaton Building.

### 3.5 Student Liaison Procedures

#### 3.5.1 Student Representatives

Student representatives are elected during the first few weeks to represent you on the programme committee and to provide a formal communication between staff and students.

#### 3.5.2 Student Feedback

Formal feedback is solicited twice a year from all students on the programme in order to inform teaching and administrative staff of any problems and to highlight good practice.

## 4 Programme Calendar

### September 2008 intake:

Activity	Dates
Induction	Last week in September
Enrolment	First week in October
Autumn Term – Start	Last week in September
Dissertation – Project selection and informed of project allocation	21/11/2008
Dissertation – Project proposal formal registration	03/12/2008
<b>Christmas Break</b>	End December
Spring Term – Start	Second Week January
<b>Easter Break</b>	First to third week April
Summer Term – Revision	Last week in April
Summer Term – Examinations	May
Dissertation – Initial report	11/06/09 by 2:00 pm
Dissertation – Initial Submission (two copy unbound)	10/09/09 by 2:00 pm
Dissertation – Viva Week	14 <sup>th</sup> -25 <sup>th</sup> September 2009
Dissertation – Final Submission (two hardbound copies +softcopy on CD)	30/09/09 by 2:00 pm in the Faculty office

## January 2009 intake:

Activity	Dates
Induction	Third week in January
Enrolment	Third week in January
Spring Term – Start	Last Week January
Dissertation – Project selection and informed of project allocation	06/03/2009
Dissertation – Project proposal formal registration	26/03/2009
<b>Easter Break</b>	First to third week April
Summer Term – Revision	Last week in April
Summer Term – Examinations	May
Dissertation – Initial report	18/06/09 by 2:00 pm
Autumn Term – Start	Last week in September
<b>Christmas Break</b>	End December
Dissertation – Initial Submission (two copy unbound)	11/01/10 by 2:00 pm
Dissertation – Viva Week	18 <sup>th</sup> -22 <sup>th</sup> January 2010
Dissertation – Final Submission (two hardbound copies +softcopy on CD)	29/01/10 by 2:00 pm in the Faculty office

## 5 Resources

### 5.1 Masters Teaching Room, Smeaton Building 214

There is a dedicated MSc working area in the Smeaton Building, Level 2 (SMB214) where there are 5 PCs with word processing, internet and mail. These resources are in the process of being developed further.

### 5.2 Printing

A laser printer is connected to the MSc computer network. You must supply your own paper.

### 5.3 Photocopying

There are photocopying facilities in the Smeaton Building and in the Library. You will need to purchase a copy card from media services in the Library.

### 5.4 Additional Computing Facilities

There are additional computer facilities in the Smeaton Building (for use by all Engineering students); and in the Babbage Building Open Access Area (for use by all University Students) where Computer Advisory Desk is also located.

### 5.5 Canteen Facilities

Canteen facilities are available at several locations on campus including the Student Union.

## **5.6 Library Resources Area**

The library also contains PCs and the Media Shop.

## **6 University Regulations**

The following are some of the important University regulations you might need to refer to at some time during your programme of study. All are available on the Student Portal and accessed via Quick Links/+Menu Items/A to Z list of resources/Academic Regulations.

- Assessment Regulations
- Examination and Assessment Offences
- Regulations on Late Coursework and Extenuating Circumstances
- Appeals procedure
- Complaints procedure

Summaries of some regulations are also found in the University of Plymouth Student Handbook.

## **7 MSc Dissertation**

The MSc dissertation forms a significant part of your programme. You are encouraged to identify a suitable topic early on in the year and to use the two Personal and Professional Skills modules to explore your ideas and plan your work programme.

### **7.1 Objectives**

- (i) to provide an opportunity for students to research a topic of their own interest in depth.
- (ii) to enhance skills in most of the following, (depending upon the degree title chosen), information retrieval, critical discussion, process management, project management and team work.
- (iii) to provide the opportunity to enhance and integrate taught material.

### **7.2 Dissertation Subject Selection**

A list of possible dissertation titles offered by academic staff will be published in October. Students should contact supervisors for more information, to help in their choice.

Students are encouraged to devise their own dissertation subject where possible, staff ensuring that the subject fits within the criteria for a MSc/MRes level Dissertation. Each student should submit a dissertation proposal form by the due date, to indicate his or her prospective choice. This should preferably be closely associated with industry or with a relevant research project in the University.

### **7.3 Dissertation Assessment**

The MSc dissertation has six components. The mark awarded for each is as follows:

<b>Interim Presentation to Supervisor</b>	5%
<b>Oral Presentation (Viva)</b>	10%
<b>Unbound Thesis</b> (Rationale; Literature review; Methodology; Contents/Knowledge; Critical analysis, examination and discussions; Conclusions and/or recommendations, Structure and presentation)	85%
<b>Total</b>	100%

### **7.4 Supervision**

Each student will have one supervisor and a second marker. A student should meet/have email contact with his or her supervisor once a month. The responsibility for regular contact lies with the student. Any communications problems should be notified to the Dissertation Co-ordinator or Programme Manager.

### **7.5 Interim Presentation to Supervisor/Initial Report**

Each student will produce an interim presentation and an accompanying 6 page report, double sided, minimum font pt 12 by the appropriate date. This identifies the project aims and outlines the project methodology, planning and resource requirements. Some initial results may be included to show the viability of the proposed work. A project management chart should be included.

### **7.6 Oral Presentation (Viva)**

The examining committee is made up of the Dissertation supervisor with one or more members of staff whose expertise is related to the

subject of the Dissertation. The presentation mark will be an average mark given by the student's supervisor and the other examiners.

Examiners carefully read the student's thesis beforehand and make notes of key aspects of the work.

The Viva may start with a short summary of results, followed by thorough inspection of the content of the initial submission of the Unbound Thesis, by the examiners.

As a guideline, the student will be asked to present his/her work for not more than 20 minutes followed by a 20 minute discussion. The questions will be concerning all aspects of the work but consideration should be given to the following points:

- Clear understanding of all aspects of the problem at hand.
- Method, results and conclusions
- Quality of the work achieved.
- Identification of future development of the work.

The final hard bound dissertation (including modifications) should be submitted to the School Office by the publicised date. Checking the changes is the responsibility of the supervisor.

## **7.7 MSc Dissertation preparation**

The dissertation must be word processed, written with double spacing onto white A4/80g paper. The normal typeface for the body of the report is Ariel 12 points and headings should be 14 point bold.

The 'Unbound Thesis' (2 copies) should be spiral-bound between two glossy white cover cards available from Media Services and must be submitted by the specified deadline(see published date) for examination at the Viva. ***Enter your name, dissertation title, supervisor's name and the name of the MSc programme on the front page.*** At the Viva, the examiners will decide whether to accept the dissertation. If accepted, the examiners will suggest any changes etc. required. The changes and the properly bound dissertation (see below) must be handed in to the department office by the published date (end of September).

The bound dissertation should have the black hard bound cover in the traditional style for MPhil/PhD thesis. The binding will be done at the student's expense. Two bound copies must be submitted to the School Office (one of which will be bound as described above with a CD containing the Dissertation in electronic format in MSWord). One will

eventually be placed in the University Library on short loan whilst the other will be kept by the supervisor. If you wish to retain a copy for your own personal use, you will need to prepare a total of three copies.

The appropriate length of the dissertation depends very much on the nature of the work involved e.g. theoretical/practical, the number of publications on the project subject etc. **It is far more important that the dissertation contains a well-rounded piece of work than being of any particular length.**

As a rough guide, the dissertation will typically be a maximum of 60 pages including diagrams, graphs and any necessary computer listing, but excluding title pages, abstract and references.

## 7.8 Dissertation structure

The internal structure of the dissertation may vary slightly from project to project, but should follow reasonably closely the traditional scientific report format, as follows:

**Abstract:** 150-200 words concisely summarising the entire work and your main findings.

**Introduction:** An outline of the rationale and context of your work. This should include a statement of the hypothesis to be tested. You might also include a brief description of the structure of the dissertation.

**Literature Search:** A critical review of relevant literature that justifies the aims, theory and methods used in your work. You should identify previous important findings and highlight any apparent contradictions.

**Methodology/Procedure:** A description of the design of any experiments, tests or procedures to obtain primary data and to test the hypothesis. An outline of any theory or analyses that you develop or adopt.

**Results:** A review of your findings and results. Try to pick out the most relevant or key examples and explain what they indicate.

**Discussion:** Discussion of your results in the context of your aims or hypothesis. Compare what you found against the published work of others and explain the implications your findings have on the knowledge of your subject area. You should be constructively self-critical.

**Conclusion:** Synthesis of the main findings, your methods and practical procedures. Highlight any future work you suggest and identify any weaknesses in your approach.

**List of References:** Comprehensive, properly referenced list of evidence drawn from literature (to the University's MPhil/PhD recommendations), all of which must have been referred to within the main body of the dissertation.

**Appendices:** Bibliography, Surplus results, theory, drawings or other detailed information not essential to your arguments, but nonetheless useful to help support your work or enable others to take the work further.

NB: Further details will be provided in the skills module.

## **7.9 Time Management**

Time management is crucial to the successful completion of your dissertation. It is one of the skills that are assessed. The process starts before the Christmas vacation with you starting to identify broad project areas in which you may be interested.

In the skills module, you will research and write a brief literature review. At the end of the period you will also write a project outline/proposal, which will be signed and partly assessed by your supervisor. Project research needs to continue through Easter and before the examinations in the summer term. Note for example that inter-library loans and requests for literature sometimes take months to arrive. If you have collated and produced a full, draft literature review before the examinations, then you will be in a very good position to get straight to work on the project. An interim report is also to be handed to your supervisor at the start of the summer term. This will give your supervisor an idea of your progress, areas of concern and plans.

During this time you must also discuss with your supervisor their holiday arrangements and the impact on meeting and communication with them.

## **8 Seminar Attendance**

It is intended that MSc students should also attend relevant seminars organised through the year by the Faculty. Speakers are drawn from both academia and industry and are expert in a number of relevant fields. Often participants are from overseas, enabling attendees to gain a wider perspective on issues of international interest.

The sessions will provide a valuable opportunity to relate the taught material to the state of the art in current practice, as well as enabling students to pose questions and discuss issues of interest. Students will, of course, be actively encouraged to attend all sessions relevant to

their programme of study, but will also be welcome to attend those presentations of a more general interest.

## **9 Examination, Coursework & Administration**

### **9.1 Examinations**

Most modules are assessed via coursework, examination or end of module test. A 20 credit module exam is usually 3 hours, whilst 10 credit module exams are 2 hours. Students should consult module leaders for the assessment details of specific modules. All exams take place in the Summer Term.

**A pass requires a student to achieve at least 50% in the overall module assessment programme.** A Masters award is made for a pass in the taught modules (120 credits) and a pass in the dissertation (60 credits).

### **9.2 Coursework**

#### **9.2.1 Coursework Submission**

Coursework is to be submitted to the Faculty Office on room 006 of the Smeaton Building. The work will be logged onto a computer. The system allows for electronic receipting of coursework at the point of submission offering a secure submission method, allowing you to physically observe coursework being received. You will need to ensure you have your University Card as this needs to be scanned.

Please ensure that EVERY piece of work handed in for assessment contains the following information on the front sheet:

- Your name
- Module name
- Module code
- Tutor's name
- Title of coursework
- Deadline date for coursework
- Declaration of independent study (as appropriate)

Coursework can be submitted at any time ahead of the deadline; however, the Faculty cannot take any responsibility for late submission due to late arrival, queues, etc. Please note that the University enforces a penalty of zero percent for work submitted after the published deadline without valid extenuating circumstances. Late arrival for submission or queues will not be considered as valid extenuating circumstances (see University student handbook on the portal for details). Students who wish

to present evidence of extenuating circumstances for the submission of late work or missing a test must follow the University procedures, by submitting an extenuating circumstances form plus documentary evidence (see below).

All reports should be written in the Style appropriate to the module being studied. The student should ensure that they are fully aware of what is expected of them by each module leader.

### **9.2.2 Coursework Portfolio**

You are required to keep a folder of all your returned coursework. On the front of each coursework will be a feedback sheet, which should not be removed. You are required to hand in the folder to the Programme Manager during the exam period, for review by the External Examiner (Summer Assessment Panel).

### **9.2.3 Illness & Extenuating Circumstances**

If you have any problems that are affecting your studies, inform your tutors and seek advice from them as early as possible.

Should you fall ill, or have any personal circumstances that might affect your academic performance, you should complete an Extenuating Circumstances form (available from the School Office: and provide corroborating evidence (e.g. a doctor's certificate or letter from Student Services). Please note that doctors are reluctant to issue certificates retrospectively, so get one at once.

The extenuating circumstances screening committee meets at the end of every term. You will receive a letter that informs you of the outcome (valid/invalid), and the Award Board (see below) will take this information into account when considering your academic performance. All cases are treated on an individual basis – it is therefore difficult to outline all of the possible outcomes here. If you wish to discuss how your circumstances might affect your progression, please contact your tutor or the Student Administrator.

Refer to the University Student Handbook for detailed policy and deadlines for submission of extenuating circumstances forms.

### **9.2.4 Plagiarism**

The University regards copying or sharing of work as a serious matter. In cases where such forms of cheating are identified appropriate penalties are applied, and the students concerned are advised of those penalties and the reasons for them. In most cases, both the originator and the copier of a piece of work will receive a mark of zero.

### **9.2.5 Confirmation of Marks**

You will receive a provisional transcript with your Autumn Term coursework marks. **It is your responsibility to approach the relevant Module Leader if you believe a mistake has been made.**

At the end of June/beginning of July, the School holds interim Panels and Boards for MSc programmes. At this stage, all your marks for the taught modules are considered and then confirmed. You will then be sent your transcript of marks for the year. The transcript indicates, your results and whether you have been referred (i.e. asked to re-take at the next available opportunity – usually September) or compensated (given a pass in the module, although your actual mark is below the pass mark).

If you do not understand any aspect of your transcript you should contact the School Office immediately for advice.

The final Panel and Board is held in November. Each Panel and Board is attended by an External Examiner, whose role it is to provide an independent view of standards, and to adjudicate in cases where the outcome is not clear-cut. External Examiners spend time before these meetings looking at samples of student work.

### **9.2.6 Referred Work**

If you are required to undertake referred coursework and/or examination, this will be indicated on your result transcript. Whilst the University will make every effort to inform such students as to what is required and by what date, final responsibility for obtaining such information must rest with the student.

University regulations state that a student may attempt a module on two occasions but that this is only at the discretion of the award board. After the first attempt, the maximum overall module mark that can be achieved is 50%. There is a charge for repeating or trailing a module into the next academic year.

### **9.2.7 Re-takes as a First Attempt**

If your transcript indicates that you are to repeat/trail a module, or an element of a module, as a first attempt (because of extenuating circumstances), there is no fee to pay, and the 50% ceiling does not apply.

## **9.3 Other Administrative Matters**

### **9.3.1 Examination Arrangements**

A draft examination timetable is issued followed by the final version usually in April. Both the draft and the final version of the examination timetable will be posted in the Smeaton Building – it is your responsibility to check the draft for clashes and to inform the School Office immediately.

### **9.3.2 Referred Exams**

If you are required to undertake referred exams then these will take place in September. The timetable is usually available by the end of August.

### **9.3.3 Changing a Module**

Where the possibility exists, should you wish to change a module for which you are registered, you must complete a module change form, available from the School Office. If you do not complete this, you may find that you are not registered for the correct exams.

### **9.3.4 Withdrawing from a Module/Programme**

If you wish to withdraw, either from a module, or from a programme, it is important that you discuss your decision with the relevant academic member of staff, and that you inform the Student Administrator in the School Office. Failure to follow the correct procedure may cause funding or assessment problems later on.

### **9.3.5 Change of Address**

It is important that we have your correct contact details. These comprise your permanent home address, your term time address, and an emergency contact. Please collect a change of address form from the Faculty Office.

### **9.3.6 Appeals**

If you wish to make an appeal against any decision taken by the Board, you should contact the School Office for guidance.

Please also refer to the University Student Handbook/Portal. NB  
There are University deadlines for appeals.

## 10 Module Details and Assessment

Please refer to **Appendix A** to see the module weighting and coursework/examination balance for each module.

Each 10 credit module is anticipated to involve approximately 30 hours of contact; 30 hours of directed study and 30 hours of self study. (This is intended as a guide and will vary for each individual)

The MSc/MRes award is categorised into two specific grades:

MSc/MRes with Distinction: This award will be made to a student who has achieved a credit weighted average mark of 70% or above across all modules (including the dissertation) and the mark for the dissertation is not less than 70%.

MSc/MRes Pass: This award is achieved by a student gaining an overall mark in the programme of study of 50% and above.

## 11 Health and Safety

Students must at all times follow the School and University Safety Procedures. A Safety Talk and further details will be given during the Induction Period.

## 12 Student Support Services

The University has a direct interest in your wellbeing while you are a member of the institution. Problems could arise during your time in Plymouth, for which you would welcome some help and support. As previously mentioned, within the School, there is a Pastoral Tutor, and of course your Programme Manager, who will often be your first point of guidance. In addition the University has a 'Student Services' department and a chaplaincy both of which can provide counselling services, guidance and support. The Students' Union itself also has a Student Welfare unit, which although busy can provide invaluable advice. There is also an Accommodation Service to help place students in appropriate accommodation. A brief description of these various bodies and contacts is listed over.

## **Student Services**

Student services can provide the following support to students.

- **Personal Counselling** (financial, health, social & similar problems)  
– Tel 232254
- **Academic Counselling** (dyslexia, learning difficulties etc.)  
– Tel 232254
- **Career Counselling** (interview techniques, career choice etc.)  
– Tel 232255.
- **Freshlings Nursery** – Tel 232338
- **Recreation Services** – Tel 232251
- **Medical Centre** – Tel 222341

## **Accommodation Service (Isaac Foot Building)**

The accommodation service provides assistance in finding accommodation for students. **You are strongly advised to contact the accommodation officer prior to the start of term.**

Tel – 232062.

## **Chaplaincy**

The Chaplaincy team work alongside Academic and Student services to offer support to both students and staff. Although the team is Christian based, the support of the chaplaincy is open to all whatever their faith or beliefs. The chaplaincy can provide both counselling support, social activities.

Contact Fr. Barry Hallett Tel – 253532.

## **Disability**

The Disability Assist Services (DAS) aims to support all students with disabilities, medical conditions and dyslexia

Contact: [www.plymouth.ac.uk/disability](http://www.plymouth.ac.uk/disability) or Tel - 232285

## **Students Union/Welfare Unit**

The students union is adjacent to the main library entrance. The Union provides the usual social activities you would expect.

There is also a Welfare Unit based in Kirkby Lodge which provides advice and support to students on a wide range of issues which could include landlord/tenant disputes, finance and general counselling. The Unit is open from 1100 to 1600.

Contact: [advice@su.plymouth.ac.uk](mailto:advice@su.plymouth.ac.uk) or Tel - 232281

## 13 Careers Information

The Careers Service is available to help you make, and implement, informed career choices. On the Plymouth campus the careers information centre is located on Level 1 of the library.

The Careers Information Centre is staffed from 0900 to 1700 Tuesday to Thursday (to 3.45 on Mondays and to 4.30 on Fridays), although careers information can be accessed at any time while the library is open, or via the Careers Service homepage.

The following is a summary of the information and advice available to you. For more details, visit : <http://www.plymouth.ac.uk/careers>

- jobs held by graduates from previous years
- advice on writing CVs and application forms
- advice on preparing for interviews and assessment centres
- business directories and company information
- further / postgraduate study and funding
- study or work overseas

Contact: [careers@plymouth.ac.uk](mailto:careers@plymouth.ac.uk) or Tel - 232255

### Vacancies

The Careers Service advertises full and part time jobs, including summer placements, and also has information about self employment and opportunities abroad:

On-line – ‘Job Surfer’ is the University’s own on-line vacancy board, advertising vacancies notified to the Careers Service. It can be accessed via the Careers Service home page, which also has links to other graduate recruitment sites.

### Further postgraduate study

Prospectuses for HE institutions in the UK are available on-line (web address), while hard copies of most institutions are also held in the library.

The Careers Service also has information about funding, short courses and study opportunities overseas.

Vacancies are advertised in **Prospects Postgrad** (issued three times a year - available free from the careers centre) and on-line.

### Finding out more?

Information about all of the above, including events, workshops and employer seminars is available from:

- <http://www.plymouth.ac.uk/services/careers/careerhm.htm>
- Careers information centre
- Careers Service vacancy bulletins

## **14 Programme Specification and Module Descriptors**

This details the indicative syllabi, learning outcomes, teaching and learning methods and assessment details. These along with module descriptors can be viewed via the “Index to Online Documentation” at <http://www.tech.plym.ac.uk/sme>

# **Appendix A**

## MSc Option (September/January intake):

Block 1 (60 credits)	Block 2 (60 credits)	Block 3 (60 credits)
<b>FTGS501 (10 Credits)</b> Personal and Professional Skills	<b>FTGS502 (10 Credits)</b> Research Skills and Project Development	<b>MECH519</b> MSc Project (September) <b>Or</b> <b>MECH525</b> MSc Project (January)
<b>MECH527 (10 Credits)</b> Structural Design Using the Finite Element Method [1]	<b>MECH516 (10 Credits)</b> Simulation of Engineering Systems	
<b>MECH515 (20 Credits)</b> Foundation of Robotics and Control	<b>MECH524 (20 Credits)</b> Composite Engineering Systems	
<b>MECH514 (10 Credits)</b> World Class Manufacturing	<b>MGMT501 (10 Credits)</b> Advanced IT	
<b>FTGS505 (10 Credits)</b> Entrepreneurship: Commercialising your ideas <b>Or</b> <b>MGMT502 (10 Credits)</b> Project Management	<b>MECH517 (10 Credits)</b> Systems Approach to Project Management	
	<b>BPIE500 (0 credits)</b> Master Stage 1 Placement Preparation	

Note: Block 1/2/3 is equivalent to Term 1/2/3 for the students starting in September

Note: Block 1/2/3 is equivalent to Term 2/1/3 for the students starting in January

After the first year of study, the students who started their study in **September** may chose to do a second year consisting of a Masters Industrial Placement module. The module may be taken by the students achieving an aggregate mark of at least 60% for the taught subjects at the first attempt from Term 1 and Term 2 during the first year. The industrial placement module is:

BPIE328 Masters Industrial Placement

## MRes Option (September/January intake):

Block 1	Block 2	Block 3
<b>FTGS501 (10 Credits)</b> Personal and Professional Skills	<b>FTGS502 (10 Credits)</b> Research Skills and Project Development	
<b>Additional 50 credits from 10 and/or 20 credit modules from the list below (subject to timetable constraints and approval by the programme manager).</b>		
	<b>MECH518 (110 Credits)</b> MRes Project (September)	<b>Or MECH526 (110 Credits)</b> MRes Project (January)

Block 1 (60 credits)	Block 2 (60 credits)
<b>MECH527 (10 Credits)</b> Structural Design Using the Finite Element Method [1]	<b>MECH516 (10 Credits)</b> Simulation of Engineering Systems
<b>MECH515 (20 Credits)</b> Foundation of Robotics and Control	<b>MECH524 (20 Credits)</b> Composite Engineering Systems
<b>MECH514 (10 Credits)</b> World Class Manufacturing	<b>MGMT501 (10 Credits)</b> Advanced IT
<b>FTGS505 (10 Credits)</b> Entrepreneurship: Commercialising your ideas	<b>MECH517 (10 Credits)</b> Systems Approach to Project Management
<b>MATS324 (20 Credits)</b> Composite Design and Manufacture	

Note: Block 1/2/3 is equivalent to Term 1/2/3 for the students starting in September

Note: Block 1/2/3 is equivalent to Term 2/3/1 for the students starting in January

In exceptional circumstances, up to 30 taught credits can be substituted by any other relevant existing M level modules, with agreement of the Programme Manager, provided the learning objectives of the programme are met. Any such changes must be reported to the Faculty Learning & Teaching Committee.

## Programme Structure Tables

Module title	Module code	Credits	Level
Personal and Professional Skills	FTGS 501	10	M
Structural Design Using the Finite Element Method [1]	MECH527	10	M
Foundation of Robotics and Control	MECH515	20	M
World Class Manufacturing Systems	MECH514	10	M
Entrepreneurship: Commercialising your ideas	FTGS505	10	M
Project Management	MGMT502	10	M
Research Skills and Project Development	FTGS502	10	M
Composite Engineering Systems	MECH524	20	M
Simulation of Engineering Systems	MECH516	10	M
Advanced IT	MGMT501	10	M
Systems Approach to Project Management	MECH517	10	M
MSc Project	MECH519 Or MECH525	60	M
Master Stage 1 Placement Preparation	BPIE500	0	M
Master Industrial Placement	BPIE328	0	M

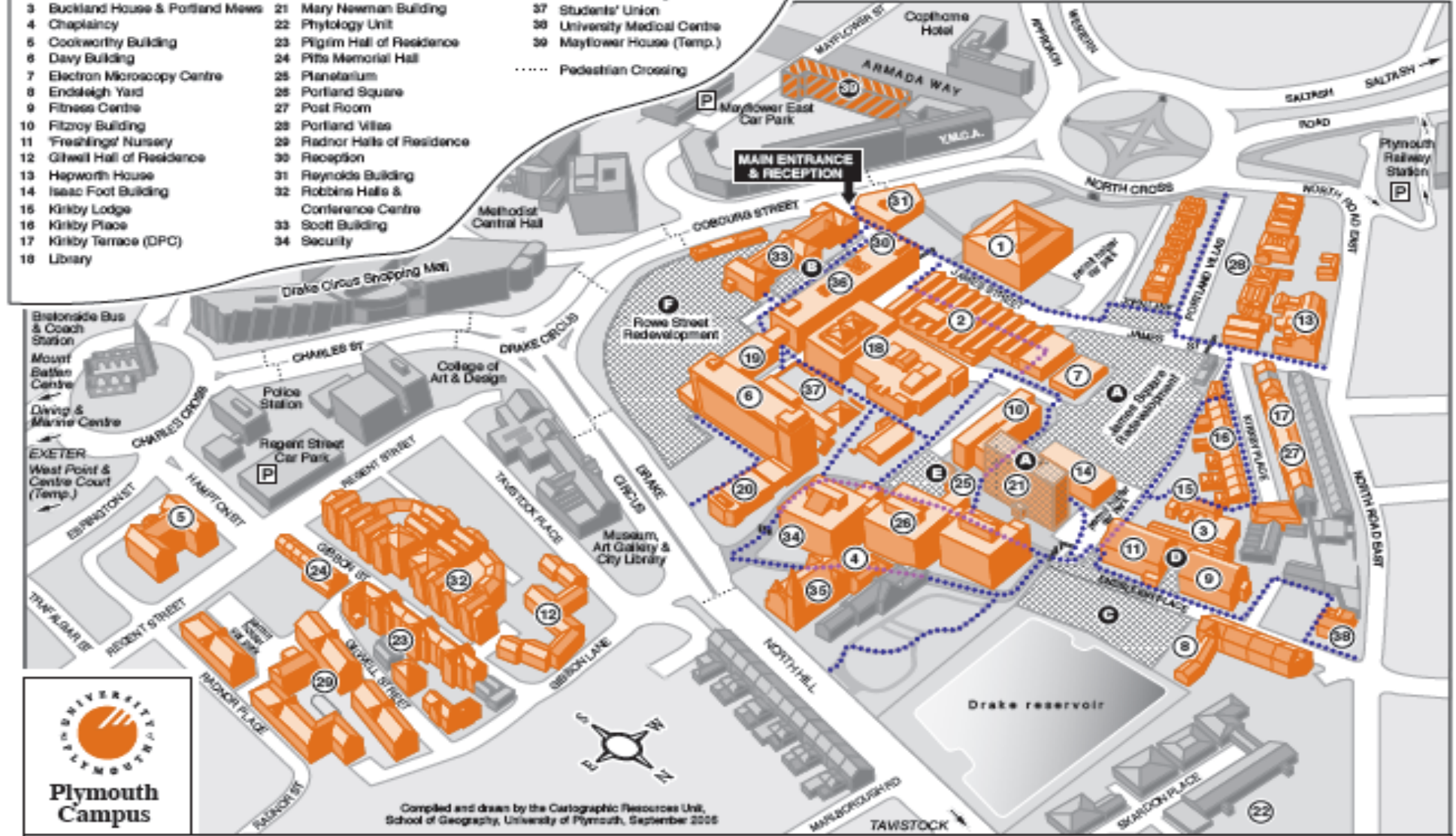
### MRes students study:

Module title	Module code	Credits	Level
Personal and Professional Skills	FTGS 501	10	M
Research Skills and Project Development	FTGS502	10	M
MRes Project	MECH518 Or MECH526	110	M
Additional 10 and/or 20 credit modules from the MSc above list below (subject to timetable constraints and approval by the programme manager).		50	M

<b>Module title</b>	<b>Module code</b>	<b>Credits</b>	<b>Level</b>
Structural Design Using the Finite Element Method [1]	MECH527	10	M
Foundation of Robotics and Control	MECH515	20	M
World Class Manufacturing Systems	MECH514	10	M
Entrepreneurship: Commercialising your ideas	FTGS505	10	M
Composite Design and Manufacture	MATS324	20	M
Composite Engineering Systems	MECH524	20	M
Simulation of Engineering Systems	MECH516	10	M
Advanced IT	MGMT501	10	M
Systems Approach to Project Management	MECH517	10	M

- |                                  |                                      |                              |
|----------------------------------|--------------------------------------|------------------------------|
| 1 Babbage Building               | 19 Link Building                     | 35 Sherwell Centre           |
| 2 Brunel Laboratories            | 20 Main Hall                         | 36 Smeaton Building          |
| 3 Buckland House & Portland Mews | 21 Mary Newman Building              | 37 Students' Union           |
| 4 Chaplaincy                     | 22 Phytology Unit                    | 38 University Medical Centre |
| 5 Cookworthy Building            | 23 Pilgrim Hall of Residence         | 39 Mayflower House (Temp.)   |
| 6 Davy Building                  | 24 Pitts Memorial Hall               |                              |
| 7 Electron Microscopy Centre     | 25 Planetarium                       | ..... Pedestrian Crossing    |
| 8 Endsleigh Yard                 | 26 Portland Square                   |                              |
| 9 Fitness Centre                 | 27 Post Room                         |                              |
| 10 Fitzroy Building              | 28 Portland Villas                   |                              |
| 11 'Freshings' Nursery           | 29 Radnor Halls of Residence         |                              |
| 12 Gilwell Hall of Residence     | 30 Reception                         |                              |
| 13 Hepworth House                | 31 Reynolds Building                 |                              |
| 14 Isaac Foot Building           | 32 Robbins Halls & Conference Centre |                              |
| 15 Kirby Lodge                   | 33 Scott Building                    |                              |
| 16 Kirby Place                   | 34 Security                          |                              |
| 17 Kirby Terrace (DPC)           |                                      |                              |
| 18 Library                       |                                      |                              |

CCTV cameras in operation on the University campus. Images are monitored for the purpose of crime prevention and public safety. Further information contact tel. 01752 290210.



Compiled and drawn by the Cartographic Resources Unit, School of Geography, University of Plymouth, September 2005

<b>KEY TO CONSTRUCTION WORKS</b>		<b>A</b> James Square & Mary Newman 22 May 08 - Aug 08	<b>D</b> Nursery / Link 10 Apr 08 - 7 Nov 08
NO ACCESS (Temporary building works)	Recommended Routes	<b>B</b> Scott Building Phase 2 16 Jun 06 - Nov 06	<b>E</b> Planetarium May 06 - Nov 08
		<b>C</b> 2-12 Endsleigh Place demolition Sep 06 - Mar 07	<b>F</b> Rowe Street complete Aug 07