

UG Admissions Seminar

Friday 17 June 2016

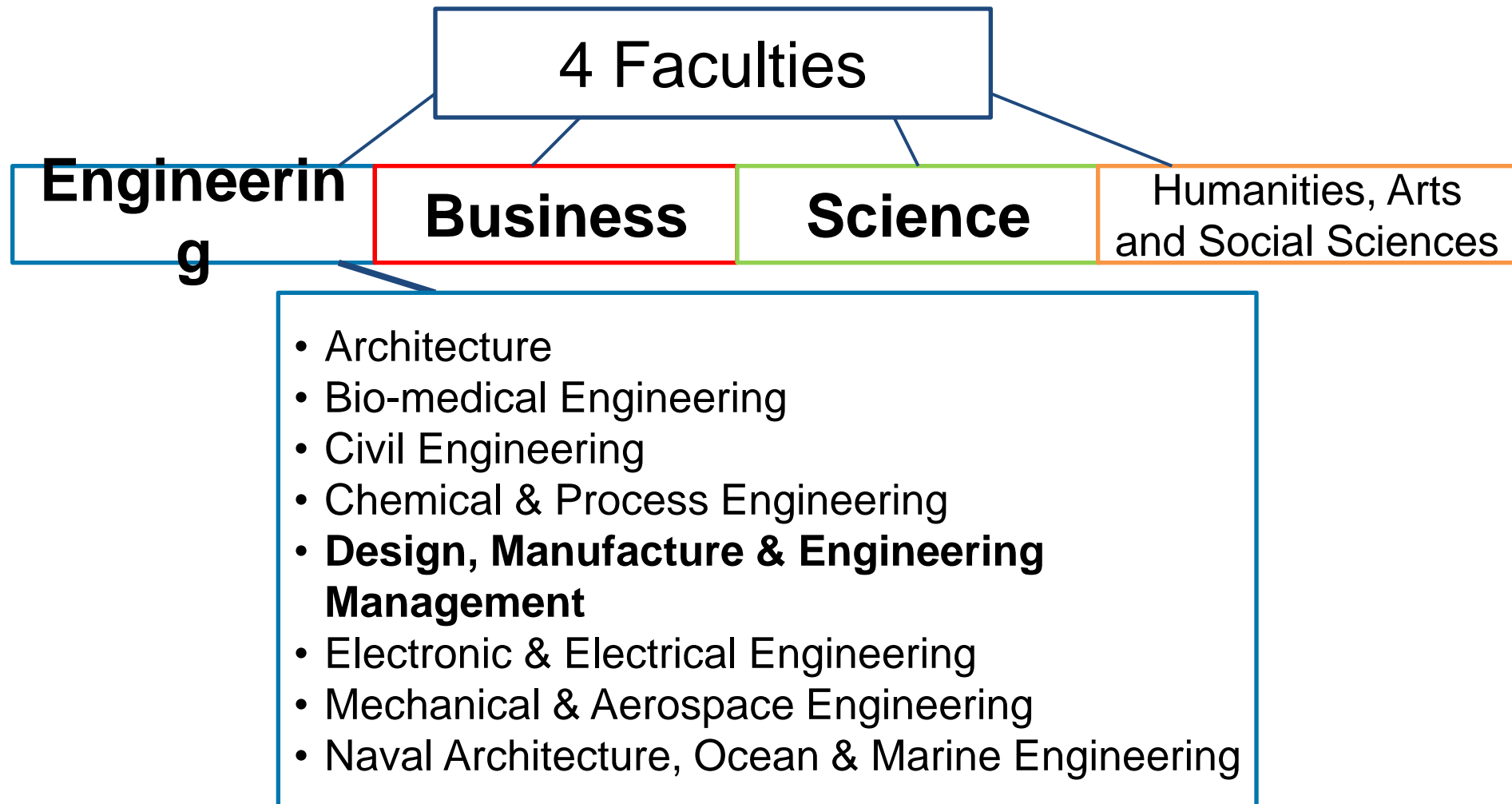
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DMEM

Design, Manufacture &
Engineering Management

[www.strath.ac.uk/engineering/
designmanufactureengineeringmanagement](http://www.strath.ac.uk/engineering/designmanufactureengineeringmanagement)

Eight Engineering Departments



Department of Design, Manufacture and Engineering Management

Only department in UK **combining end-to-end multidisciplinary expertise** from creative design, through engineering design, manufacture and management of the entire system.

Creative
Design

Engineering
Design

Manufacturing
Processes

Management

“To turn really interesting ideas and fledgling technologies into a company that can continue to innovate for years, it requires **a lot of disciplines...**”

Steve Jobs

Undergraduate degree programmes

- **Product Design Engineering (BEng/ MEng)**
- **Product Design & Innovation (BSc)**
- **Production Engineering & Management (BEng/ MEng)**
- **Sports Engineering (BEng/MEng)**

Degrees accredited by 3 different institutions:



Mechanical



Engineering
and



Design

Course commonality

The Product Design Engineering and Production Engineering Management courses share in common the first 2 years. Therefore flexibility exists for students to change course up until the end of Year 2.

Other course changes will be considered on an individual basis up until the end of Year

1.

Integrating Studies

This class is all about learning practical skills for prototyping using CAD/CAM and manual tools.

The students learn these skills through group projects which produce functional models.



Product Development

This class teaches how to refine or detail a design to optimize it for manufacturing or assembly or other priorities.

Class involves lectures and group investigations of products and their details.



Production and Operations Management

This class teaches tools and techniques for planning how resources like materials, workers and finance are required in a manufacturing company.

In addition to lectures explaining the theory, the students gain insights into the problems by playing games designed to model industrial enterprises.



Entry requirements - Highers

Minimum Entry Requirements:

- Bachelors (BSc/BEng) AAAB
- Masters (MEng) AAAA/AAABB

Maths **AND** Physics/Engineering Science required for
Product Design Engineering & Production Engineering
Management

Maths **OR** Physics **OR** Engineering Science required for
Product Design and Innovation & Sports Engineering

Subject choices

Recommended:

- Graphic Communication
- Design and Manufacture

A portfolio is strongly recommended for Product Design and Innovation but **NOT** required for Product Design Engineering.

Higher and Advanced Highers in the same subject are both counted as separate grades.

Contextual Data:

- One grade (minimum) compensation for non-compulsory subjects

Entry requirements – HNC/D

- A in the Graded Unit Exam
- Product Design Engineering/Production Engineering Management/Sports Engineering require a HN in an engineering discipline e.g. mechanical, manufacturing etc.
- Product Design and Innovation requires a HN in a design discipline e.g. Product Design, 3D Design, CAD etc.

Admissions process

- All applicants attend a compulsory interview in January/February.
- Applicants are given a task to prepare for interview.
- Offers are subject to satisfactory interview, even if applicant has required grades.
- Applicants are contacted within one week of interview with outcome.

- DMEM has received approximately 420 applications
- 88 undergraduate places
- Typically, we have approximately 50 students studying Product Design Engineering and Production Engineering Management
- Remainder of students split between Product Design and Innovation and Sports Engineering

Personal statement

This is used as the basis for discussion at students' interviews.

Desired skills and attributes:

- Teamwork is an important element across all of our courses.
- Self motivation is desirable as is examples of a student using their own initiative.
- We would also encourage students to demonstrate a spread of interests.

References

Areas to consider:

- Reasons for any poor performance in previous years
- Examples of contribution made to the school community
- Examples of student's ability to be an effective team player

DMEM graduate destinations



DMEM was a brilliant and vital stepping stone to where I am today. It taught me the framework for design and the fundamentals of engineering, manufacture and engineering management.

Michael Aldridge, UK Young Design Engineer of the Year 2012





The support and encouragement I got to take my fifth year project forward after university was invaluable. It completely changed my life.

Victoria Hamilton, Director, VH Innovation Ltd and awarded Top UK entrepreneur by Santander

More information

If you require any more information about our courses or the application process, please don't hesitate to get in touch:

General enquiries:

enquiries@dmem.strath.ac.uk

Academic Selector, Professor Jonathan Corney:

Jonathan.Corney@Strath.ac.uk

Student Recruitment Coordinator, Caroline McGuire :

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Website:

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University of
Strathclyde
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