

**MSc DESIGN, MANUFACTURING AND MANAGEMENT (H1K509)**  
**POSTGRADUATE DIPLOMA DESIGN, MANUFACTURING**  
**AND MANAGEMENT (H1K512)**  
**POSTGRADUATE CERTIFICATE DESIGN, MANUFACTURING**  
**AND MANAGEMENT (H1K514)**

*(for students entering in and after October 2006)*

1. Programme offered at: Durham
2. Mode of study: MSc full-time (12 months), MSc part-time (36 months), Postgraduate Diploma part-time (24 months), Postgraduate Certificate part-time (12 months).
3. All programmes will begin in September.
4. Candidates will normally possess an upper second or first class degree in engineering or science related subject.
5. Programme of Study:
  - (a) For the award of MSc in Design, Manufacture and Management candidates must be assessed in:
    - (i) all modules in Section A;
    - (ii) all modules in Section B;
    - (iii) modules to the value of 15 credits from Section C;
  - (b) For the award of Postgraduate Diploma in Design, Manufacture and Management candidates must be assessed in:
    - (i) Industrial Projects Module (ENGI40130);
    - (ii) all modules in Section B;
    - (iii) modules to the value of 15 credits in Section C;
  - (c) For the award of Postgraduate Certificate in Design, Manufacture and Management candidates must be assessed in:
    - (i) modules to the value of 60 credits from Section B.

	Code	Credits	Core (C) or Optional (O)	Level
<b><u>SECTION A</u></b>				
Masters Research Project	<a href="#">ENGI40160</a>	60	C	4
Industrial Projects	<a href="#">ENGI40130</a>	30	C	4
<b><u>SECTION B</u></b>				
Advanced Engineering Design	<a href="#">ENGI41415</a>	15	C	4
Modern Manufacturing Systems	<a href="#">ENGI42915</a>	15	C	4
Advanced Manufacturing Technology	<a href="#">ENGI43115</a>	15	C	4
Management of Production Networks and Logistics	<a href="#">ENGI43015</a>	15	C	4
Strategic and Change Management	<a href="#">ENGI41515</a>	15	C	4
<b><u>SECTION C</u></b>				
Quality Improvement Methods	<a href="#">ENGI41015</a>	15	O	4
Biomechanics and Bioengineering	<a href="#">ENGI43215</a>	15	O	4
Stress Analysis	<a href="#">ENGI43315</a>	15	O	4

6. Modes of assessment will include assignments, oral presentations and examinations, written examinations and projects.
7. Candidates registered for the Postgraduate Certificate or Postgraduate Diploma may, with the approval of the Programme Director, apply to the Graduate School Committee for upgrading to the MSc upon successful completion of modules to the value of 45 credits. The date of registration for the Masters programme will be backdated to be the date of registration for the initial programme.
8. Candidates in the final year of their MSc must submit, by no later than 12 September 2008 (for full-time candidates) or 31 December (for part-time candidates), a Project ([ENGI40160](#)) of not more than 12,000 words.

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**POSTGRADUATE CERTIFICATE DESIGN, MANUFACTURING**  
**AND MANAGEMENT (H1K514)**  
*(for students entering before October 2006)*

1. Programme offered at: Durham
2. Mode of study: MSc full-time (12 months), part-time (36 months); Postgraduate Diploma full-time (9 months), part-time (24 months); Postgraduate Certificate full-time (6 months), part-time (12 months)
3. The full-time programmes begin in October; the part-time programmes begin in January.
4. Candidates will normally possess a first degree in engineering or science related subject.

		Code	Credits	Core (C) or Optional (O)	Level
EITHER	Masters Project and modules to the value of 90 credits from those listed below	ENGI41090	90	C	4
OR	Postgraduate Diploma Research Project and modules to the value of 90 credits from those listed below	ENGI40930	30	C	4
OR	modules to the value of 60 credits from those listed below (Postgraduate Certificate)				
	New Product Introduction: Design for Competitiveness	ENGI41215	15	C	4
	Lean Manufacture (including concepts of Agility)	ENGI40115	15	C	4
	Operations Strategy	ENGI40215	15	C	4
	Human Resource Issues and Change Management	ENGI40315	15	O	4
	Problem Solving and Innovation: A Six Sigma Approach	ENGI40415	15	O	4
	Innovative Design for Manufacture	ENGI40515	15	O	4
	Business Improvement through Quality: A Six Sigma Approach	ENGI40615	15	O	4
	Finance in Manufacturing	ENGI41115	15	O	4
	Industrial Automation*	ENGI51815	15	O	4
	Assembly Technology*	ENGI40715	15	O	4
	Reliable Forecasting for Manufacture*	ENGI40815	15	O	4

\* Modules available to part-time candidates only

5. Modes of assessment will include assignments, oral presentations and examinations, written examinations and projects.
6. Candidates registered for the Postgraduate Certificate or Postgraduate Diploma may, with the approval of the Programme Director, apply to the Graduate School Committee for upgrading to the MSc upon successful completion of modules to the value of 45 credits. The date of registration for the Masters programme will be backdated to be the date of registration for the initial programme.
7. All taught modules will be delivered in intensive week-long blocks.
8. Candidates in the final year of their Postgraduate Diploma must submit, by no later than 30 June 2008 (for full-time candidates) or 31 December 2008 (for part-time candidates), a Research Project (ENGI40930) of not more than 5,000 words. Candidates in the final year of their MSc must submit, by no later than 12 September 2008 (for full-time candidates) or 31 December 2008 (for part-time candidates), a Project (ENGI41090) of not more than 15,000 words.

**MSc MANUFACTURING (H1K309)**  
**POSTGRADUATE DIPLOMA MANUFACTURING (H1K312)**  
**POSTGRADUATE CERTIFICATE MANUFACTURING (H1K314)**  
*(last admission January 2004)*

1. Programme offered at: Durham
2. Mode of study: MSc full-time (9 months full-time + 9 months part-time), part-time (36-48 months); Postgraduate Diploma full-time (9 months), part-time (24 months); Postgraduate Certificate full-time (6 months), part-time (12 months)
3. The programmes begin in either October or January.
4. Candidates undertaking part-time study will normally study modules to the value of 60 credits in each year. The precise order in which the modules are taken may vary according to the recommendation of the Course Director on the basis of the student's needs.
5. Programme of study:
  - a) For the award of MSc Manufacturing, candidates must study and be assessed in:
    - (i) modules to the value of 120 credits from Section A
    - (ii) modules to the value of 60 credits from Section B
  - b) For the award of Postgraduate Diploma Manufacturing, candidates must study and be assessed in modules to the value of 120 credits from Section A.
  - c) For the award of Postgraduate Certificate Manufacturing, candidates must study and be assessed in modules to the value of 60 credits from Section A.

Module	Code	Credits	Core (C) or Optional (O)	Level
<b><u>SECTION A</u></b>				
Industrial Automation for Manufacturing Engineers	ENGI51815	15	O	4
New Product Introduction: Design for Competitiveness	ENGI51915	15	O	4
Lean Manufacture	ENGI52015	15	O	4
Business Improvement through Quality: A Six Sigma Approach	ENGI52115			4
New Product Introduction: Design for Cost Effective Manufacture	ENGI52215	15	O	4
Problem Solving and Innovation: A Six Sigma Approach	ENGI52315	15	O	4
New Product Introduction: Time Compression Assembly Technology	ENGI52415	15	O	4
	ENGI52515	15	O	4
Human Resource Issues in Manufacturing	ENGI53015	15	O	4
Finance in Manufacturing	ENGI52715	15	O	4
Managing Change in a Manufacturing Environment	ENGI52915	15	O	4
Reliable Forecasting for Manufacturing	ENGI52815	15	O	4
<b><u>SECTION B</u></b>				
Project	ENGI52660	60	C	4

6. Candidates registered for the Postgraduate Diploma or Postgraduate Certificate may, with the approval of the Course Director, apply to the Graduate School Committee for upgrading to the Masters programme upon successful completion of modules to the value of 60 credits. The date of registration for the Masters programme will be backdated to be the date of registration for the initial programme.
7. Candidates for the award of Masters must successfully complete modules to the value of 120 credits before registering for the project.
8. Modules, apart from the Project, will be taught in intensive week-long blocks and be assessed by the submission of written work.
9. Candidates for the award of Masters by part-time study must submit by no later than 30 September (for those beginning the programme in October) or 31 December (for those beginning the programme in January) of their third year a Project (ENGI52660) of not more than 12,000 words. Candidates for the award of Masters by full-time study must submit the dissertation by no later than 31 March (for those beginning the programme in October) or 30 June (for those beginning in January) of their second year.