

MSc DESIGN, MANUFACTURING AND MANAGEMENT (H1K509)

(for students entering in and after October 2006)

1. Programme offered at: Durham
2. Mode of study: MSc full-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:

Module	Code	Credits	Core (C) or Optional (O)	Level
SECTION A				
Masters Research Project	ENGI41090	90	C	4
Industrial Projects	ENGI40130	30	C	4
Advanced Design and Manufacture (MSc)	ENGI40320	20	C	4
Management and Operation of Production Systems (MSc)	ENGI40220	20	C	4
Supply Chain Management (MSc)	ENGI40120	20	C	4

6. Modes of assessment will include assignments, oral presentations and examinations, written examinations and projects.
7. Candidates in the final year of their MSc must submit, by no later than 14 August 2009, a Project ([ENGI41090](#)) of not more than 18,000 words.

MSc DESIGN, MANUFACTURING AND MANAGEMENT (H1K509)

**POSTGRADUATE DIPLOMA DESIGN, MANUFACTURING
AND MANAGEMENT (H1K512)**

**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.

	Module	Code	Credits	Core (C) or Optional (O)	Level
EITHER	Masters Project	ENGI41090	90	C	4
	and modules to the value of 90 credits from those listed below				
OR	Postgraduate Diploma Research Project	-	30	C	4
	and modules to the value of 90 credits from those listed below				
OR	modules to the value of 60 credits from those listed below (Postgraduate Certificate)				
	New Product Introduction: Design for Competitiveness	-	15	C	4
	Lean Manufacture (including concepts of Agility)	-	15	C	4
	Operations Strategy	-	15	C	4
	Human Resource Issues and Change Management	-	15	O	4
	Problem Solving and Innovation: A Six Sigma Approach	-	15	O	4
	Innovative Design for Manufacture	-	15	O	4
	Business Improvement through Quality: A Six Sigma Approach	-	15	O	4
	Finance in Manufacturing	-	15	O	4
	Industrial Automation*	-	15	O	4
	Assembly Technology*	-	15	O	4
	Reliable Forecasting for Manufacture*	-	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 of not more than 5,000 words. Candidates in the final year of their MSc must submit, by no later than 11 September 2009 (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
SECTION A				
Industrial Automation for Manufacturing Engineers	-	15	O	4
New Product Introduction: Design for Competitiveness	-	15	O	4
Lean Manufacture	-	15	O	4
Business Improvement through Quality: A Six Sigma Approach	-			4
New Product Introduction: Design for Cost Effective Manufacture	-	15	O	4
Problem Solving and Innovation: A Six Sigma Approach	-	15	O	4
New Product Introduction: Time Compression	-	15	O	4
Assembly Technology	-	15	O	4
Human Resource Issues in Manufacturing	-	15	O	4
Finance in Manufacturing	-	15	O	4
Managing Change in a Manufacturing Environment	-	15	O	4
Reliable Forecasting for Manufacturing	-	15	O	4
SECTION B				
Project	-	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 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.