

Title of Programme: Modular Masters in Manufacturing and Supply Chain Management

Programme Code: ECMSCMMSC

Programme Specification

This programme specification is relevant to students entering:
01 September 2023

Associate Dean of School (Academic Quality Assurance):
Mariana Lilley



A programme specification is a collection of key information about a programme of study (or course). It identifies the aims and learning outcomes of the programme, lists the modules that make up each stage (or year) of the programme, and the teaching, learning and assessment methods used by teaching staff. It also describes the structure of the programme, its progression requirements and any programme-specific regulations. This information is therefore useful to potential students to help them choose the right programme of study, to current students on the programme, and to staff teaching and administering the programme.

Summary of amendments to the programme

Date	Section	Amendment
23.03.23	D	The programme no longer offers a part-time option.

If you have any queries regarding the changes please email AQQ@herts.ac.uk

Programme Specification

MSc Manufacturing Management

MSc Supply Chain Management

This programme specification (PS) is designed for prospective students, enrolled students, academic staff and potential employers. It provides a concise summary of the main features of the programme and the intended learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. More detailed information on the teaching, learning and assessment methods, learning outcomes and content for each module can be found in Definitive Module Documents (DMDs) and Module Guides.

Section 1

Awarding Institution/Body	University of Hertfordshire
Teaching Institution	University of Hertfordshire
University/partner campuses	College Lane
Programme accredited by	Not applicable
Final Award (Qualification)	MSc
All Final Award titles	MSc Manufacturing Management
(Qualification and Subject)	MSc Supply Chain Management
FHEQ level of award	7

A. Programme Rationale

This programme consists of two specialist Masters awards with an expectation that students will have studied a related engineering discipline to a Bachelor's level or equivalent, as opposed to a conversion masters philosophy aimed at students from a non-engineering background. The MSc awards are normally studied over three semesters with the final semester being a 60-credit point individual project.

The MSc has two starting points. This has been adopted to meet the demand from international students whose previous studies were conducted with a different academic year to the normal September to September year operated in the UK. The consequence of this is that the modules that make up the MSc curriculum need to be independent of each other as the two intake groups of students will not necessarily take modules in the same order. Students entering in semester B will therefore complete their studies over an 18-month period rather than 12 months.

The successful postgraduates of the programme will acquire the knowledge and understanding, intellectual, practical and transferable skills necessary for the analysis and synthesis of problems in engineering and manufacturing through a combination of experimental, simulation, research methods and case studies. They can expect to gain work in a range of disciplines within a variety of industries from specialist technical roles to positions of management responsibility.

On the **MSc Manufacturing Management**, the development of skills and advancement of knowledge focus on:

- the broad areas of business, operations management, information systems, product development and quality systems;
- design orientated tasks, including analysis and synthesis, to develop relevant and applicable procedures and processes to resolve technical and ultimately business problems;
- critical review of the present knowledge base, its applicability, usage and relevance to enhance product and enterprise performance
- Students may gain employment in the Aerospace and Automotive industry sectors or other FMCG areas.

On the **MSc Supply Chain Management**, the development of skills and advancement of knowledge focus on:

- the broad areas of business, operations management, operations research, procurement and supply chain management, financial control, manufacturing information systems, manufacturing strategy; legal aspects of supply chain; and human resources management;
- case studies, including analysis and synthesis, contribution to profitability, understanding of purchasing, procurement and logistics;
- critical review of strategic value, procurement and supply chain management;
- Students may gain employment in any sector including aerospace, automotive, pharmaceutical, distribution and logistics sector and other FMCG industries.

B. Educational Aims of the Programme

Diversity and Inclusion

Our programmes are purposefully designed to enable all students to engage meaningfully with the curriculum by being accessible and representative. We will support students to shape their learning experience, removing barriers and enabling them to succeed. The curriculum explicitly includes multiple and representative perspectives, valuing collective identities and individual diversity. Learning, teaching and assessment activities help students to understand how they can enhance outcomes both for themselves and for others. All students belong to a learning community, and during their studies we really want to hear their voices, encourage them to listen to others, and express themselves.

The programme has been devised in accordance with the University's graduate attributes of programmes of study as set out in [UPR TL03](#).

Additionally this programme aims to:

- provide a quality education at postgraduate level in the disciplines of aerospace, automotive, mechanical, manufacturing management/technology and operations and supply chain management;
- provide an educational opportunity and experience to graduates and/or those with appropriate previous experience which enhances their prospects of professional employment with industry;
- provide a variety of awards of study through which the postgraduate may demonstrate competence, knowledge, skills and understanding, in and of, selected disciplines in the field of engineering, management and technology;
- provide the students with the knowledge and understanding to equip them for a career in technical and engineering management;
- provide and equip the students with theory and the practice of process and technology management, system design and implementation.

Graduate Attributes

Our graduates will be capable and professional, creative and enterprising, and will build their social and global awareness throughout. In addition to their subject expertise and proficiency, as a University of Hertfordshire graduate, they will be:

- Professionally focused
- Globally minded
- Sustainability driven
- Digitally capable and confident
- Inclusive and collaborative
- Evidence based and ethical

C. Intended Learning Outcomes

The programme provides opportunities for students to develop and demonstrate knowledge and understanding, skills and other attributes in the following areas. The programme outcomes are referenced the Frameworks for

Higher Education Qualifications of UK Degree-Awarding Bodies (2014), and relate to the typical student. Additionally, the SEEC Credit Level Descriptors for Further and Higher Education (2021) have been used as a guiding framework for curriculum design.

Knowledge and Understanding:	Teaching/learning methods & strategies	Assessment
<p>Manufacturing Management (MMGM) and Supply Chain Management (SCM)</p> <p>A1- Understanding of business practice and the limitations within an engineering specialisation</p> <p>A2- Understand the roles in an engineering team and personal responsibilities</p> <p>A3- Relevant techniques for commercial and professional engineering practice in the context of Manufacturing Management.</p> <p>A3 (MMGM)- Relevant techniques for commercial and professional engineering practice in the context of Manufacturing Management.</p> <p>A3 (SCM)- Relevant techniques for commercial and professional engineering practice in the context of Supply Chain management.</p> <p>A4- Operations management techniques and processes in manufacturing and service sectors.</p> <p>A5- Resource management planning and systems implications.</p> <p>A6- The analytical techniques employed in management and process control.</p> <p>A7- Relevant techniques for commercial and professional engineering practice in the context of Supply Chain Management.</p>	<p>Acquisition of knowledge and understanding is through a combination of lectures, seminars, group discussions and assignments.</p> <p>Throughout, the learner is encouraged to undertake independent study both to supplement and consolidate what is being taught/learnt and to broaden their individual knowledge and understanding of the subject.</p>	<p>Knowledge and understanding are assessed through a series of case studies, assignments, project reports and unseen examinations</p>
Intellectual skills:	Teaching/learning methods & strategies	Assessment
<p>Manufacturing Management (MMGM) and Supply Chain Management (SCM)</p> <p>B1 (MMGM)- Analyse and solve Manufacturing Management problems using appropriate techniques.</p> <p>B1 (SCM)- Analyse and solve Supply Chain Management problems.</p>	<p>Intellectual skills are developed through the programme by the methods and strategies outlined in section A, above.</p> <p>Analysis, problem solving, and modelling skills are further developed through case studies, class discussion, in-course exercises, assignments and exams.</p>	<p>Intellectual skills B1-B6 are assessed through case studies, experiential work, tutorials, assignment and examinations. These are supported by work centred on analysis and synthesis, problem solving, in technical and managerial contexts.</p>

<p>B2- Design/model/analyse relevant engineering systems/subsystems.</p> <p>B3- Critically review and select appropriate research methods to solve engineering and commercial problems.</p> <p>B4 (MMGM)- Evaluate external influences and develop skills in ethical operations and show insight on the commercial and social context.</p> <p>B4 (SCM)- Evaluate external influences and develop skills in ethical operations and show insight on the commercial and social aspects in the context of Supply Chain Management.</p> <p>B5- Identify the influence of resource related issues on operations and business.</p> <p>B6- Design appropriate management systems and processes.</p>	<p>Throughout, the learner is encouraged to develop intellectual skills further by independent study.</p>	
<p>Practical skills:</p>	<p>Teaching/learning methods & strategies</p>	<p>Assessment</p>
<p>Manufacturing Management (MMGM) and Supply Chain Management (SCM)</p> <p>C1 (MMGM)- Apply appropriate experimental, analytical and modelling techniques to a range of manufacturing problems and draw conclusions.</p> <p>C1(SCM)- Apply appropriate experimental, analytical and modelling techniques to a range of business applications and draw conclusions.</p> <p>C2- Plan and manage project, considering commercial, industrial and resource constraints.</p> <p>C3- Appropriate evaluation of the resource constraint implications on management decision making.</p> <p>C4- Plan the effective implementation of appropriate management systems and processes.</p>	<p>Practical skills are developed through the programme through a series of case studies, experimental and simulation exercises, project reports and viva.</p> <p>Skills are developed through the programme of study and associated written reports and submissions.</p> <p>C2 is developed throughout the programme of the study, with one-to-one supervision during the individual project.</p>	<p>Practical skills C1-C4 are assessed through assignment work on case studies and the individual project</p>
<p>Transferable skills:</p>	<p>Teaching/learning methods & strategies</p>	<p>Assessment</p>
<p>D1- Communicate information effectively, orally and/or in writing.</p> <p>D2- Manage time and resources effectively.</p>	<p>Transferable skills are developed through the programme by using group discussions and report writing and require students to</p>	<p>Transferable skills D1-D5 are assessed through assignment work and the project.</p>

D3- Work effectively individually and/or within a team.	manage their own time for achieving targets.
D4- Solve problems in a logical and coherent manner.	Skills developed through coursework reports, oral presentations, research methods and the project report.
D5- Learn effectively and independently, in preparation for lifelong learning.	Skill D2 is developed through meeting deadlines for scheduled assignments and the individual project.
	Skills D3 and D4 are developed throughout most modules; through lectures, group work, assessments and the individual project.
	Skill D5 is encouraged and developed by the nature of the programme of study and the acquisition of transferable skills.
	Throughout, the learner is encouraged to develop transferable skills by maintaining a record of evidence and completing a personal development plan.

D. Programme Structures, Features, Levels, Modules, and Credits

The programme is offered in full-time mode.

Full-time students may enter the programme for a Semester A entry option 1 start in September when it runs over one calendar year or Semester A entry option 2 when it will run for a period of 18 months. Semester B entry in January runs over 18 months. Identical modules will be studied on both September and January intakes. In summary:

- Semester A entry, Option 1: presents an earlier start project module in a study pattern of Semesters A (September), B (January) and C (May).
- Semester A entry, Option 2: presents a longer study time in a study pattern of Semesters A, B and A.
- Semester B entry: presents a pattern of study of Semesters B, A and B.

Entry is normally at Masters Level 7 with related degree qualifications.

The programme structure and progression information below (Table 1a and 1b) are provided for the award. Any interim awards are identified in Table 1b. The Programme Learning Outcomes detailed above are developed and assessed through the constituent modules. Table 2 identifies where each learning outcome is assessed.

Professional and Statutory Regulatory Bodies

Not applicable.

Work-Based Learning, including Sandwich Programmes

Not applicable.

Programme Structure

The programme structure and progression information below (Table 1a and 1b) is provided for the award. Any interim awards are identified in Table 1b. The Programme Learning Outcomes detailed above are developed and assessed through the constituent modules. Table 2 identifies where each learning outcome is assessed.

Table 1a Outline Programme Structure

Mode of study Full-time

Entry point Semester A (September)

To progress to the project stage, candidates are expected to have studied 120 credits and passed at least 60 credits. The award of a Masters Degree requires 180 credit points passed at level 7, including the MSc Individual Project. For those students studying MSc Individual Project 7ENT1130 in Semester A, Semester C is a vacation period.

Manufacturing Management

Module Title	Module Code	Credit Points	% Test	% Examination	% Coursework	% Practical	Semesters
Compulsory Modules							
Human Resources Management	7AAD0062	15	0	0	100	0	A
Financial Control	7ENT1065	15	0	60	40	0	A
Smart Manufacturing	7ENT1125	15	0	0	100	0	A
Sustainable Business of Supply Chain Logistics	7ENT2003	15	0	0	100	0	A
Procurement & Supply Chain Management	7ENT1069	15	0	60	40	0	B
Operations Research & Logistics	7ENT1127	15	0	50	50	0	B
Lean Manufacturing & Services	7ENT1128	15	0	50	50	0	B
Advanced Materials & Manufacturing Technology	7ENT1129	15	0	0	100	0	B
MSc Individual Project	7ENT1130	60	0	0	100	0	C or A

Supply Chain Management

Module Title	Module Code	Credit Points	% Test	% Examination	% Coursework	% Practical	Semesters
Compulsory Modules							
Human Resources Management	7AAD0062	15	0	0	100	0	A
Financial Control	7ENT1065	15	0	60	40	0	A
Inventory Management	7ENT1124	15	0	0	100	0	A
Sustainable Business of Supply Chain Logistics	7ENT2003	15	0	0	100	0	A
Procurement & Supply Chain Management	7ENT1069	15	0	60	40	0	B
Operations Research & Logistics	7ENT1127	15	0	50	50	0	B
Lean Manufacturing & Services	7ENT1128	15	0	50	50	0	B
Legal Aspects of Supply Chain	7LAW0155	15	0	0	100	0	B
MSc Individual Project	7ENT1130	60	0	0	100	0	C or A

Entry Point – Semester B

Mode of study Full-time

Entry point Semester B (January)

To progress to the project stage, candidates are expected to have studied 120 credits and passed at least 60 credits. The award of a Masters Degree requires 180 credit points passed at level 7, including the MSc Individual Project

Manufacturing Management

Module Title	Module Code	Credit Points	% Test	% Examination	% Coursework	% Practical	Semesters
Compulsory Modules							
Procurement & Supply Chain Management	7ENT1069	15	0	60	40	0	B
Operations Research & Logistics	7ENT1127	15	0	50	50	0	B
Lean Manufacturing & Services	7ENT1128	15	0	50	50	0	B
Advanced Materials & Manufacturing Technology	7ENT1129	15	0	0	100	0	B
Human Resources Management	7AAD0062	15	0	0	100	0	A
Financial Control	7ENT1065	15	0	60	40	0	A
Smart Manufacturing	7ENT1125	15	0	0	100	0	A
Sustainable Business of Supply Chain Logistics	7ENT2003	15	0	0	100	0	A
MSc Individual Project	7ENT1130	60	0	0	100	0	B

Supply Chain Management

Module Title	Module Code	Credit Points	% Test	% Examination	% Coursework	% Practical	Semesters
Compulsory Modules							
Procurement & Supply Chain Management	7ENT1069	15	0	60	40	0	B
Operations Research & Logistics	7ENT1127	15	0	50	50	0	B
Lean Manufacturing & Services	7ENT1128	15	0	50	50	0	B
Legal Aspects of Supply Chain	7LAW0155	15	0	0	100	0	B
Human Resources Management	7AAD0062	15	0	0	100	0	A
Financial Control	7ENT1065	15	0	60	40	0	A
Inventory Management	7ENT1124	15	0	0	100	0	A
Sustainable Business of Supply Chain Logistics	7ENT2003	15	0	0	100	0	A
MSc Individual Project	7ENT1130	60	0	0	100	0	B

Table 1b Final and interim awards available
The programme provides the following final and interim awards:

Final Award	Award Title	Minimum requirements	Available at end of (normally):	Programme Learning Outcomes developed (see above)
MSc	Manufacturing Management	180 credit points, which must include the individual project	3 Semesters	All programme learning outcomes (see Table 2)
MSc	Supply Chain Management	180 credit points, which must include the individual project	3 Semesters	All programme learning outcomes (see Table 2)

Interim Award	Award Title	Minimum requirements	Available at end of Level	Programme Learning Outcomes developed (see above)
Postgraduate Diploma	Manufacturing Management	120 credit points	2, 3 Semesters	A1, A3, A4, A5, B1, B2, B6, C1, C3, D1, D2, D3, D4
Postgraduate Diploma	Supply Chain Management	120 credit points	2, 3 Semesters	A1, A3, A4, A5, B1, B2, B6, C1, C3, D1, D2, D3, D4
Postgraduate Certificate	Untitled	60 credit points	1-2 Semesters	See UPR AS11, section 13: http://sitem.herts.ac.uk/secreg/upr/AS11.htm

Masters and Diploma awards can be made "with Distinction" or "with Commendation" where criteria as described in [UPR AS14](#), Section D and the students' handbook are met.

Programme-specific assessment regulations

The programme is compliant with the University's academic regulations (in particular, [UPR AS11](#), [UPR AS12](#) and [UPR AS14](#)) with the exception of those listed below, which have been specifically approved by the University:

Not applicable.

Further points of clarification and interpretation relevant to this specific programme are given below:

Not applicable.

E. Management of Programme & Support for student learning

Management

The programme is managed and administered through:

- Dean of School;
- Associate Dean (Academic Quality Assurance);
- Associate Dean (Learning, Teaching and Student Experience);
- A Programme Leader, who has overall responsibility for the effective operationalization of the programme, and ensuring that academic standards are maintained and an effective student learning experience is provided;
- An Admissions Tutor, with specific responsibility for selection;
- Module Leaders who are responsible for individual modules;
- A programme committee, that includes student representation;

- A designated administrative team to deal with day-to-day administration associated with the modules within the programme.

Support

Students are supported by:

- An induction week at the beginning of each new academic session;
- Overseas Orientation;
- A project supervisor;
- You will have a Personal Tutor who will be an important point of contact, able to help you gain a good understanding of the School and programme you are studying;
- A substantial Student Centre that provides advice on issues such as finance, University regulations, legal matters, accommodation, and international student support;
- Office of Dean of Students, Student Wellbeing (incorporating Counselling, Mental Health and Disability Support), Chaplaincy, and Day Nursery;
- Canvas, a versatile on-line inter-active intranet and learning environment;
- Guided student-centred learning on Canvas module sites;
- Access to extensive digital and print collections of information resources;
- Attractive modern study environments in 2 Learning Resources Centres;
- Student Success Hubs, which include a Mathematics Drop-in Centre;
- Medical Centre;
- University Disability Advisors;
- An Equality Office;
- Careers Enterprise and Employment Services;
- Hertfordshire Student's Union;
- Dedicated programme site.

F. Other sources of information

In addition to this Programme Specification, the University publishes guidance to registered students on the programme and its constituent modules:

- A Programme (or Student) Handbook;
- A Definitive Module Document (DMD) for each constituent module;

The [Ask Herts](#) website provides information on a wide range of resources and services available at the University of Hertfordshire including academic support, accommodation, fees, funding, visas, wellbeing services and student societies.

As a condition of registration, all students of the University of Hertfordshire are required to comply with the University's rules, regulations and procedures. These are published in a series of documents called 'University Policies and Regulations' (UPRs). The University requires that all students consult these documents which are available on-line, on the UPR web site, at: <http://www.herts.ac.uk/secreg/upr/>. In particular, [UPR SA07](#) 'Regulations and Advice for Students' Particular Attention - Index' provides information on the UPRs that contain the academic regulations of particular relevance for undergraduate and taught postgraduate students.

In accordance with section 4(5) of the Higher Education and Research Act 2017 (HERA), the UK Office for Students (OfS) has registered the University of Hertfordshire in the register of English higher education providers. The Register can be viewed at: <https://www.officeforstudents.org.uk/advice-and-guidance/the-register/the-ofs-register/>.

G. Entry requirements

For current entry tariff point requirements, please refer to the relevant page for the Course on the University website or on the online prospectus.

The programme is subject to the University's Principles, Policies and Regulations for the Admission of Students to Undergraduate and Taught Postgraduate Programmes (in [UPR SA03](#)), along with associated procedures. These will take account of University policy and guidelines for assessing accredited prior certificated learning (APCL) and accredited prior experiential learning (APEL).

If you would like this information in an alternative format please contact: School Hutton Hub Student Administration Service hhaq@herts.ac.uk

If you wish to receive a copy of the latest External Examiner's Report for the programme, please email a request to aqo@herts.ac.uk

MSc Manufacturing Management

Table 2: Development of Intended Programme Learning Outcomes in the Constituent Modules

This map identifies where the programme learning outcomes are assessed in the constituent modules. It provides (i) an aid to academic staff in understanding how individual modules contribute to the programme aims (ii) a checklist for quality control purposes and (iii) a means to help students monitor their own learning, personal and professional development as the programme progresses.

Programme Learning Outcomes (as identified in section 1 and the following page)																							
		Knowledge & Understanding							Intellectual Skills						Practical Skills				Transferable Skills				
Module Title	Module Code	A1	A2	A3 MMG M	A4	A5	A6	A7	B1 MMG M	B2	B3	B4 MMG M	B5	B6	C1 MMG M	C2	C3	C4	D1	D2	D3	D4	D5
Human Resource Management	7AAD0062	X		X		X				X			X	X			X	X			X		
Financial Control	7ENT1065	X					X			X			X		X	X			X				
Procurement & Supply Chain Management	7ENT1069			X		X	X	X					X	X		X	X			X	X		X
SMART Manufacturing	7ENT1125				X				X	X		X			X	X	X					X	
Sustainable Business of Supply Chain Logistics	7ENT2003	X	X	X	X	X		X		X	X				X	X	X	X	X	X	X		X
Operations Research & Logistics	7ENT1127				X	X	X		X	X	X	X	X		X				X		X	X	
Lean Manufacturing & Services	7ENT1128				X	X		X				X				X	X	X					
Advanced Materials and Manufacturing Technology	7ENT1129				X		X				X												X
Individual Masters Project	7ENT1130		X				X		X	X	X	X		X	X	X			X			X	X

KEY TO PROGRAMME LEARNING OUTCOMES

Knowledge and Understanding

- A1. Understanding of business practice and the limitations within an engineering specialisation.
- A2. Understand the roles in an engineering team and personal responsibilities.
- A3. MMGM: Relevant techniques for commercial and professional engineering practice in the context of Manufacturing Management.
- A4. Operations management techniques and processes in manufacturing and service sectors.
- A5. Resource management planning and systems implications.
- A6. The analytical techniques employed in management and process control.
- A7. Relevant techniques for commercial and professional engineering practice in the context of Supply Chain Management.

Intellectual Skills

- B1. MMGM: Analyse and solve Manufacturing Management problems using appropriate techniques.
- B2. Design/model/analyse relevant engineering systems/subsystems.
- B3. Critically review and select appropriate research methods to solve engineering and commercial problems.
- B4. MMGM: Evaluate external influences and develop skills in ethical operations and show insight on the commercial and social context.
- B5. Identify the influence of resource related issues on operations and business.
- B6. Design appropriate management systems and processes.

Practical Skills

- C1. MMGM: Apply appropriate experimental, analytical and modelling techniques to a range of manufacturing problems and draw conclusions.
- C2. Plan and manage project, considering commercial, industrial and resource constraints.
- C3. Appropriate evaluation of the resource constraint implications on management decision making.
- C4. Plan the effective implementation of appropriate management systems and processes.

Transferable Skills

- D1. Communicate information effectively, orally and/or in writing.
- D2. Manage time and resources effectively.
- D3. Work effectively individually and/or within a team.
- D4. Solve problems in a logical and coherent manner.
- D5. Learn effectively and independently, in preparation for lifelong learning.

MSc Manufacturing Management: Mapping to AHEP3 learning outcomes

AHEP3 Learning Outcomes (as defined in Appendix 6)																					
		Science & mathematics			Engineering analysis			Design			Economic, social, ethical, and environmental context						Engineering practice				
Module Title	Module Code	SM1fl	SM2fl	SM3fl	EA1fl	EA2fl	EA3fl	D1fl	D2fl	D3fl	ET1fl	ET2fl	ET3fl	ET4fl	ET5fl	ET6fl	EP1fl	EP2fl	EP3fl	EP4fl	
Human Resource Management	7AAD0062	X		X	X		X		X				X					X		X	
Financial Control	7ENT1065			X		X	X		X	X				X	X	X					
Procurement & Supply Chain Management	7ENT1069		X				X	X			X	X	X				X		X	X	
SMART Manufacturing	7ENT1125	X		X					X		X	X	X					X			
Sustainable Business of Supply Chain Logistics	7ENT2003		X	X					X		X	X	X	X	X	X	X		X	X	
Operations Research & Logistics	7ENT1127	X		X		X			X						X					X	
Lean Manufacturing & Services	7ENT1128		X					X		X		X	X								
Advanced Materials and Manufacturing Technology	7ENT1129	X	X			X			X								X		X		
Individual Masters Project	7ENT1130			X	X				X		X		X	X		X		X			

MSc Supply Chain Management: Programme learning outcomes

Programme Learning Outcomes (as identified in section 1 and the following page)																							
Knowledge & Understanding						Intellectual Skills						Practical Skills				Transferable Skills							

Module Title	Module Code	A1	A2	A3 SCM	A4	A5	A6	A7	B1 SCM	B2	B3	B4 SCM	B5	B6	C1 SCM	C2	C3	C4	D1	D2	D3	D4	D5
Human Resource Management	7AAD0062	X		X		X				X			X	X			X	X			X		
Financial Control	7ENT1065	X					X			X			X		X	X			X				
Procurement & Supply Chain Management	7ENT1069			X		X	X	X					X	X		X	X			X	X		X
Inventory Management	7ENT1124			X	X		X	X	X	X		X		X			X						
Sustainable Business of Supply Chain Logistics	7ENT2003	X	X	X	X	X		X		X	X				X	X	X	X	X	X	X		X
Operations Research & Logistics	7ENT1127				X	X	X		X	X	X	X	X		X				X		X	X	
Lean Manufacturing & Services	7ENT1128				X	X		X				X				X	X	X					
Individual Masters Project	7ENT1130		X				X		X	X	X	X		X	X	X			X			X	X
Legal Aspects of Supply Chain	7LAW0155			X	X			X	X			X	X			X	X		X			X	

KEY TO PROGRAMME LEARNING OUTCOMES

Knowledge and Understanding

- A1. Understanding of business practice and the limitations within an engineering specialisation.
- A2. Understand the roles in an engineering team and personal responsibilities.
- A3. SCM: Relevant techniques for commercial and professional engineering practice in the context of Supply Chain Management.
- A4. Operations management techniques and processes in manufacturing and service sectors.
- A5. Resource management planning and systems implications.
- A6. The analytical techniques employed in management and process control.
- A7. Relevant techniques for commercial and professional engineering practice in the context of Supply Chain Management.

Intellectual Skills

- B1. SCM: Analyse and solve Manufacturing Management problems using appropriate techniques.
- B2. Design/model/analyse relevant engineering systems/subsystems.
- B3. Critically review and select appropriate research methods to solve engineering and commercial problems.
- B4. SCM: Evaluate external influences and develop skills in ethical operations and show insight on the commercial and social context of Supply Chain Management.
- B5. Identify the influence of resource related issues on operations and business.
- B6. Design appropriate management systems and processes.

Practical Skills

- C1. SCM: Apply appropriate experimental, analytical and modelling techniques to a range of manufacturing problems and draw conclusions.
- C2. Plan and manage project, considering commercial, industrial and resource constraints.
- C3. Appropriate evaluation of the resource constraint implications on management decision making.
- C4. Plan the effective implementation of appropriate management systems and processes.

Transferable Skills

- D1. Communicate information effectively, orally and/or in writing.
- D2. Manage time and resources effectively.
- D3. Work effectively individually and/or within a team.
- D4. Solve problems in a logical and coherent manner.
- D5. Learn effectively and independently, in preparation for lifelong learning.

MSc Supply Chain Management: Mapping to AHEP3 learning outcomes

		AHEP3 Learning Outcomes (as defined in Appendix 6)																		
		Science & mathematics			Engineering analysis			Design			Economic, social, ethical, and environmental context						Engineering practice			
Module Title	Module Code	SM1fl	SM2fl	SM3fl	EA1fl	EA2fl	EA3fl	D1fl	D2fl	D3fl	ET1fl	ET2fl	ET3fl	ET4fl	ET5fl	ET6fl	EP1fl	EP2fl	EP3fl	EP4fl
Human Resource Management	7AAD0062	X		X	X		X		X				X					X		X
Financial Control	7ENT1065			X		X	X		X	X				X	X	X				
Procurement & Supply Chain Management	7ENT1069		X				X	X			X	X	X				X		X	X
Inventory Management	7ENT1124	X			X	X	X			X		X					X		X	
Sustainable Business of Supply Chain Logistics	7ENT2003		X	X					X		X	X	X	X	X	X	X		X	X
Operations Research & Logistics	7ENT1127	X		X		X			X						X					X
Lean Manufacturing & Services	7ENT1128		X					X		X		X	X							
Individual Masters Project	7ENT1130			X	X				X		X		X	X		X		X		
Legal Aspects of Supply Chain	7LAW0155		X	X				X		X		X	X					X		

Section 2

Programme management

Relevant QAA subject benchmarking statements	Engineering
Type of programme	Taught postgraduate
Date of validation/last periodic review	February 20
Date of production/ last revision of PS	March 2023
Relevant to level/cohort	Level 7 entering September 2023
Administrative School	School of Physics, Engineering & Computer Science
Language of Delivery	English

Table 4 Course structure

Course Code	Course Description	HECOS
EIMASTADMA	MSc Manufacturing Management	100209
ECSCMMSC	MSc Supply Chain Management	100209