

UNIVERSITY OF WARWICK

Proposal Form for New or Revised Modules (MA1 - version 7 - April 2014)

Approval information	
Approval Type	<input type="checkbox"/> New module <input checked="" type="checkbox"/> Revised module <input type="checkbox"/> Discontinue module
Date of Introduction/Change	October 2017
If new, does this module replace another? If so, enter module code and title:	
If revised/discontinued, please outline the rationale for the changes:	Revision to MA1 to reflect various changes in forms of assessment used within module.
Confirmation that affected departments have been consulted:	Changes were made in consultations between the School of Engineering and WMG.

Module Summary	
1. Module Code (if known)	ES4C9
2. Module Title	Supply Chain Management
3a. Lead department:	WMG
3b. Teaching Split (if known):	100% Mrs AM Kirkaldy - WMG
4. Name of module leader	Mrs A M Kirkaldy
5. Level	UG: <input type="checkbox"/> Level 4 (Certificate) <input type="checkbox"/> Level 5 (Intermediate) <input type="checkbox"/> Level 6 (Honours) PG: <input checked="" type="checkbox"/> Level 7 (Masters) <input type="checkbox"/> Level 8 (Doctoral) See Guidance Notes for relationship to years of study
6. Credit value(s) (CATS)	15
7. Principal Module Aims	Engineering organisations operate within part of a larger supply chain or network, whose combined processes deliver a product or service to the end customer. To increase competitive advantage businesses must not only seek to design and operate processes that add maximum value within their own entity but also strive to optimise these processes within the larger supply chain or

Module Summary	
	<p>network.</p> <p>The module aims to give participants an understanding of the operation of the supply chain and the opportunities that tools such as e-commerce bring for the more effective integrated operation of the supply of both products and services.</p>
8. Principal Learning Outcomes	<p>By the end of the module the student should be able to...</p> <ul style="list-style-type: none"> • Evaluate and apply the improvement opportunities and threats presented by the alignment of the complete supply chain with final customer requirements. Appreciate and recommend the appropriate application of supply chain process models for the effective supply of different products and services • Define supply chain integration requirements for the effective coordination of customers and suppliers. Demonstrate an advanced understanding of the principles of demand and supply uncertainty • Appraise and utilise a number of tools, techniques and measures to manage and improve the performance of the supply chain. Evaluate the effectiveness of performance management techniques and measurements applied to complex supply chain infrastructure and requirements. • Critically assess the appropriateness of different negotiation and relationship management principles to support the complex supply chain requirements above. Apply the principles of outsourcing, supplier selection and negotiation to complex supply chain requirements and situations. • Evaluate multiple options and make recommendations for the physical and technological infrastructure to support supply chain activities. Comprehend the principles of sustainability and understand the factors contributing to ethical and environmentally sustainable supply chains. • Participate and evaluate team performance in a complex multi-tiered supply chain simulation exercise. • Analyse and present knowledge and application of the above in appropriate verbal and written formats.
9. Timetabled Teaching Activities (summary)	<p>Lectures 30 x 1 hour = 30 hour</p> <p>Supply Chain Simulation Laboratory 1 x 3h = 3h</p> <p>Oral Presentation 1 x 1h = 1h</p> <p>Total 34 hours</p>

Module Summary	
10. Departmental Web-link	www2.warwick.ac.uk/fac/sci/eso/modules/year4/es4c9
11. Other essential notes	Advice and feedback hours are available for answering questions on the lecture material (theory and examples).
12. Assessment methods (summary)	70% examined via a 3 hour paper 30% assessed by coursework consisting of: Oral presentation – 10% Analysis and feedback on case studies and / or Supply Chain Simulation related to each module (group work) – 5% 2000 word Written Report 15% Students must pass the examination and pass the coursework overall.
For use by Strategic Planning and Analytics Office only - Do not fill in this section	

Level	JACS3 Code	Teaching Split
		<i>If not provided in 3b above</i>

External Credit Level	Scheme

Module Context				
13. Please list all departments involved in the teaching of this module. If taught by more than one department, please indicate percentage split.				
WMG – 100%				
14. Availability of module				
Degree Code	Title	Study Year	C/OC/ A/B/C	Credits
H107	MEng Engineering and variants	Yr 4	A/B	15 CATS
H109	MEng Engineering with Intercalated Year	Yr 5	A	15 CATS
H110	MEng Engineering with a Year in Research	Yr 5	A	15 CATS
H211	MEng Civil Engineering and variants	Yr 4	B/Core	15 CATS
H212	MEng Civil Engineering with Intercalated Year	Yr 5	B	15 CATS
H213	MEng Civil Engineering with a Year in Research	Yr 5	B	15 CATS
H311	MEng Mechanical Engineering and variants	Yr 4	B/C/Core	15 CATS
H312	MEng Mechanical Engineering with Intercalated Year	Yr 5	B	15 CATS
H313	MEng Mechanical Engineering with a Year in Research	Yr 5	B	15 CATS
H331	MEng Automotive Engineering and variants	Yr 4	B/C/Core	15 CATS
H332	MEng Automotive Engineering with Intercalated Year	Yr 5	B	15 CATS
H333	MEng Automotive Engineering with a Year in Research	Yr 5	B	15 CATS
H635	MEng Electronic Engineering and variants	Yr 4	A/Core	15 CATS
H636	MEng Electronic Engineering with Intercalated Year	Yr 5	A	15 CATS
H637	MEng Electronic Engineering with a Year in Research	Yr 5	A	15 CATS
HH63	MEng Systems Engineering and variants	Yr 4	B/Core	15 CATS
HH64	MEng Systems Engineering with Intercalated Year	Yr 5	B	15 CATS
HH65	MEng Systems Engineering with a Year in Research	Yr 5	B	15 CATS
HH37	MEng Manufacturing and Mechanical Engineering and variants	Yr 4	A/B/Core	15 CATS
HH38	MEng Manufacturing and Mechanical Engineering with Intercalated Year	Yr 5	A	15 CATS
HH39	MEng Manufacturing and Mechanical Engineering with a Year in Research	Yr 5	A	15 CATS
15. Minimum number of registered students required for module to run				
None				
16. Pre- and Post-Requisite Modules				
n/a				

Module Content and Teaching	
17. Teaching and Learning Activities (<i>totals for module – please see guidance</i>)	
Module duration (weeks)	10
Lectures	30 x 1 hour
Seminars	---

Module Content and Teaching		
Tutorials	---	
Project Supervision	---	
Demonstration	---	
Practical Class/Workshops	---	
Supervised time in studio/workshop	1 x 3 hour Supply Chain Simulation activity 1 x 1 hour oral presentation sessions which are booked by students via Tabula	
Fieldwork	---	
External visits	---	
Work based learning	---	
Placement	---	
Year abroad	---	
Other activity <i>(please describe): e.g. distance-learning, intensive weekend teaching etc.</i>	Guided independent learning 116 hours	
18. Assessment Method (Standard)		
Type of assessment	Length	% weighting
Written Examinations	3 Hours	70
Practical Examinations	---	
Assessed essays/coursework	Oral presentation (individual) – 10% Analysis and verbal feedback on Case Studies and / or Supply Chain Simulation(group work) – 5% 2000 word Written Report 15%	30
18a. Final chronological assessment <i>(please see guidance)</i>	examination	

19. Methods for providing feedback on assessment.
Standardised feedback provided for 15% coursework element using an agreed template focussing on various elements (structured abstract, overview of SCM in company, research, presentation). Marks provided to students for other elements. Cohort level feedback on examinations.

20. Outline Syllabus

- 1 SCM concepts
- 2 Business strategy and SCM
- 3 SCM and Procurement strategies
- 4 Value and logistics costs
- 5 Globalisation
- 6 Outsourcing
- 7 Supplier selection
- 8 Lead time reduction
- 9 JIT, lean and agile
- 10 Integration
- 11 Relationships
- 12 Negotiation
- 13 Measurement & metrics
- 14 Application of technology in the supply chain
- 15 Physical Logistics
- 16 Improving & developing

21. Illustrative Bibliography

- Purchasing and Supply Chain Management, Lysons, K., Pearson Prentice Hall, 2016
- Operations Management, Slack, N., Financial Times Prentice Hall, 2016
- Supply chain management : strategy, planning, and operation, Chopra, S., Pearson Prentice-Hall, 2015
- Logistics Management and Strategy, Harrison, A. Prentice Hall 2014
- Leading Procurement Strategy, Mena, C Kogan Page 2014
- Supplier Relationship Management, O'Brien, J Kogan Page 2014
- Sustainable Logistics and Supply Chain Management, Grant D., Kogan Page 2013
- Supply Chain Strategies, Hines, T., Elsevier Butterworth Heinemann 2013
- Supply chain management : from vision to implementation, Fawcett, S.E., Pearson Prentice Hall, 2013
- Supply chain logistics management, Bowersox, D. McGraw Hill 2012

- Logistics and Supply Chain Management, --- Creating value adding networks, Christopher, M., Prentice Hall, 2011
- Vested Outsourcing, Vitasek, K ,Palgrave Macmillan,2011
- Global Logistics and Supply Chain Management ,Butcher , T.,Wiley,2011

22. Learning outcomes

Successful completion of the module leads to the learning outcomes. The learning outcomes identify the knowledge, skills and attributes developed by the module.

Learning Outcomes should be presented in the format "By the end of the module students should be able to..." using the table at the end of the module approval form:

Resources

23. List any additional requirements and indicate the outcome of any discussions about these.

Approval

24. Module leader's signature	Alexa Kirkaldy
25. Date of approval	Teaching Policy Committee Chair's Action 4 April 2017
26. Name of Approving Committee (include minute reference if applicable)	School of Engineering and WMG Teaching Policy Committee
27. Chair of Committee's signature	Professor Gillian Cooke
28. Head of Department(s) signature	Professor Nigel Stocks

Examination Information

A1. Name of examiner (if different from module leader)		
A2. Indicate all available methods of assessment in the table below		
% Examined	% Assessed by other methods	Length of examination paper
70	---	3 hour
	Oral presentation (individual) – 10% Analysis and verbal feedback	

Examination Information	
	on Case Studies and / or Supply Chain Simulation(group work) – 5% 2000 word Written Report 15%
A3. Will this module be examined together with any other module (sectioned paper)? If so, please give details below.	
No	
A4. How many papers will the module be examined by?	<input checked="" type="checkbox"/> 1 paper <input type="checkbox"/> 2 papers
A5. When would you wish the exam take place (e.g. Jan, April, Summer)?	Summer
A6. Is reading time required?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
A7. Please specify any special exam timetable arrangements.	
A8. Stationery requirements	
No. of Answer books?	1
Graph paper?	No
Calculator?	No
Any other special stationery requirements (e.g. Data books, tables etc)?	None
A9. Type of examination paper	
Seen?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Open Book?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Restricted?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If restricted, please provide a list of permitted texts:	

LEARNING OUTCOMES		
(By the end of the module the student should be able to....)	Which teaching and learning methods enable students to achieve this learning outcome? (reference activities in section 17)	Which summative assessment method(s) will measure the achievement of this learning outcome? (reference activities in section 18)
Evaluate and apply the improvement opportunities and threats presented by the alignment of the complete supply chain with final customer requirements. Appreciate and recommend the appropriate application of supply chain process models for the effective supply of different products and services	Teaching in class and discussion based questioning throughout. Breakout activities during lectures to consolidate concepts. Support from appropriate industry and academic video clips. Case studies associated with each lecture for student analysis and feedback	Written examination, coursework, oral presentation and case study feedback. Completion of Supply Chain Simulation.
Define supply chain integration requirements for the effective coordination of customers and suppliers. Demonstrate an advanced understanding of the principles of demand and supply uncertainty	Teaching in class and discussion based questioning throughout lectures. Breakout activities during lectures to consolidate concepts. Support from appropriate industry and academic video clips. Case studies associated with each lecture for student analysis and feedback.	Written examination, coursework, oral presentation and case study feedback.
Appraise and utilise a number of tools, techniques and measures to manage and improve the performance of the supply chain. Evaluate the effectiveness of performance management techniques and measurements applied to complex supply chain infrastructure and requirements.	Teaching in class and discussion based questioning throughout lectures. Breakout activities during lectures to consolidate concepts. Support from appropriate industry and academic video clips. Case studies associated with each lecture for student analysis and feedback.	Written examination, coursework, oral presentation and case study feedback.
Critically assess the appropriateness of different	Teaching in class and discussion based	Written examination, coursework, oral presentation

LEARNING OUTCOMES		
(By the end of the module the student should be able to....)	Which teaching and learning methods enable students to achieve this learning outcome? (reference activities in section 17)	Which summative assessment method(s) will measure the achievement of this learning outcome? (reference activities in section 18)
negotiation and relationship management principles to support the complex supply chain requirements above. Apply the principles of outsourcing, supplier selection and negotiation to complex supply chain requirements and situations.	questioning throughout lectures. Breakout activities during lectures to consolidate concepts. Support from appropriate industry and academic video clips. Case studies associated with each lecture for student analysis and feedback.	and case study feedback.
Evaluate multiple options and make recommendations for the physical and technological infrastructure to support supply chain activities. Comprehend the principles of sustainability and understand the factors contributing to ethical and environmentally sustainable supply chains.	Teaching in class and discussion based questioning throughout lectures. Breakout activities during lectures to consolidate concepts. Support from appropriate industry and academic video clips. Case studies associated with each lecture for student analysis and feedback.	Written examination, coursework, oral presentation and case study feedback.
Participate and evaluate team performance in a complex multi-tiered supply chain simulation exercise.	Attendance and participation in a 3-hour Supply Chain Simulation activity. This includes an initial introduction of the simulation and theories that are tested, the running of the simulation, self and group reflection and tutor facilitated feedback.	Analysis and verbal feedback on Case Studies and / or Supply Chain Simulation (group work).
Analyse and present knowledge and application of the above in appropriate verbal and written formats.	Tutor facilitated discussions within lectures reflecting upon taught material and analysis of case studies. Revision session in summer	Written examination, coursework, oral presentation and case study feedback.

LEARNING OUTCOMES		
(By the end of the module the student should be able to....)	Which teaching and learning methods enable students to achieve this learning outcome? (reference activities in section 17)	Which summative assessment method(s) will measure the achievement of this learning outcome? (reference activities in section 18)
	term. Self-guided revision.	