UNIVERSITY OF WARWICK

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

Approval information	
Approval Type	☐ New module ☒ Revised module ☐ Discontinue module
Date of Introduction/Change	01/10/2018
If new, does this module replace another? If so, enter module code and title:	
If revised/discontinued, please outline the rationale for the changes:	Changes in the number of lectures and seminars. Changed assessment to 30% CV and Personal Statement, 30% My Career Path Reflective Report, 40% on-line courses. Change to departmental split to reflect tutorials.
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)	ES101
2. Module Title	Introduction to Engineering: Professionalism and Practice
3a. Lead department:	School of Engineering
3b. Teaching Split (if known):	School of Engineering : 84% WMG : 16%
4. Name of module leader	Dr G. Kremmyda
5. Level	UG: ☒ Level 4 (Certificate) ☐ Level 5 (Intermediate) ☐ Level 6 (Honours) PG: ☐ Level 7 (Masters) ☐ Level 8 (Doctoral) See Guidance Notes for relationship to years of study
6. Credit value(s) (CATS)	5
7. Principal Module Aims	The module aims to inform students in their choice of engineering discipline and on what it means to be an Engineer. Students may have already made their decision on a discipline (or strongly decide to pursue general Engineering); therefore, this module will allow

Module Summary	
	them to be sure they made the right decision. The module provides the students with essential tools for studies in engineering, such as communication skills, professionalism and ethics and prepares them for internships and future employment. Furthermore, the module informs engineering students about the UK-SPEC (UK-Standard for Professional Engineering Competence) which is the cornerstone of degree accreditation, continuing professional development (CPD), and eventual professional registration. Overall the aim of this module is to induct engineers into their degree, and show them that everything they are learning can be considered to support their development.
8. Principal Learning Outcomes	By the end of the module the students should be able to: 1. Identify what it means to be an Engineer and being a part of the engineering community through exposure to Engineers coming from the Industry, academics of the Engineering department, recent graduate students, and fellow undergraduate students. 2. Understand the focus of each Engineering Discipline and then be able to make an informed choice on a direction of study. 3. Understand each of the Engineering Disciplines, the systems approach of the School of Engineering and how each of the Disciplines contribute to multi-disciplinary problems. 4. Produce professional, stylish and informative pieces of work which demonstrate their skills, experience and education. 5. Plan self-learning and improve performance as the foundation for lifelong learning (CPD).
9. Timetabled Teaching Activities (summary)	7x1 hrs of lectures, 3x1 hrs of seminars (including invited industrial partners) and 3x1 hrs of tutorials. **Total of 13 hrs.**
10. Departmental Web-link	http://www2.warwick.ac.uk/fac/sci/eng/eso/modules/year1
11. Other essential notes	Advice and feedback hours are available for answering questions on the module.
12. Assessment methods (summary)	CV and Personal statement (30%) 'My Career Path' reflective report (3 pages) (30%). This is a written piece of work where the students will be asked to reflect on the engineering disciplines and justify their choice of route to follow. The report should demonstrate that they have engaged in the multi-disciplinary nature of the department and seriously thought about their future career and appropriateness of their chosen course. On-line courses as defined by the department (i.e. 'Matlab

Module Summary	
	OnRamp', Ethics; H&S; Plagiarism) (40%) Students must pass all elements at 30%.

For use by Strategic Planning and Analytics Office only -Do not fill in this section

Level	JACS3 Code	Teaching Split
		If not provided in 3b above

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.

School of Engineering (84%)
WMG (16%)

14. Availability of module

Degree Code	Title	Study Year	C/OC/ A/B/C	Credits
H113	BEng Engineering	1	C	15
H114	MEng Engineering	1	C	15
H161	BEng Biomedical Systems Engineering	1	C	15
H163	MEng Biomedical Systems Engineering	1	C	15
H216	BEng Civil Engineering	1	C	15
H217	MEng Civil Engineering	1	C	15
H315	BEng Mechanical Engineering	1	C	15
H316	MEng Mechanical Engineering	1	C	15
H335	BEng Automotive Engineering	1	C	15
H336	MEng Automotive Engineering	1	C	15
H605	BEng Electrical and Electronic Engineering	1	C	15
H606	MEng Electrical and Electronic Engineering	1	C	15
H63W	BEng Electronic Engineering	1	C	15
H63X	MEng Electronic Engineering	1	C	15
HH35	BEng Systems Engineering	1	C	15
HH31	MEng Systems Engineering	1	C	15
HH75	BEng Manufacturing and Mechanical Engineering	1	C	15
HH76	MEng Manufacturing and Mechanical Engineering	1	C	15
HN11	BSc Engineering and Business Studies	1	C	15
HN15	BEng Engineering Business Management	1	C	15

15. Minimum number of registered students required for module to run

1 (Core module).

16. Pre- and Post-Requisite Modules

None.

Module Content and Teaching

17. Teaching and Learning Activities*(totals for module – please see guidance)*

Module duration (weeks)	24

Module Context		
Lectures	7x1 hours	
Seminars	3x1 hours	
Tutorials	3x1 hours	
Project Supervision		
Demonstration		
Practical Class/Workshops		
Supervised time in studio/workshop		
Fieldwork		
External visits		
Work based learning		
Placement		
Year abroad		
Other activity *(please describe): e.g. distance-learning, intensive weekend teaching etc.*	• 4x3 hours on-line courses as defined by the department • 25 hours of guided independent learning (including VLE use)	
18. Assessment Method (Standard)		
Type of assessment	**Length**	**% weighting**
Written Examinations		
Practical Examinations		
Assessed essays/coursework	CV and Personal statement 'My Career Path' reflective report (3 pages) – To be marked by the Tutors On-line courses as defined by the department (i.e. 'Matlab OnRamp', Plagiarism, Ethics, H&S)	30% 30% 40%
18a. Final chronological assessment*(please see guidance*)	'My Career Path' report	
19. Methods for providing feedback on assessment.		
Individual feedback will be provided on CV and personal statement. Advice and feedback hours with Tutors will be used to provide feedback on the reflective report.		
20. Outline Syllabus		
Note: some of the topics below are delivered virtually (by use of VLE) and will be sequenced to match the students' learning and provide progression throughout the year.		

Module Context

Introduction to the module
Getting to know the Engineering Disciplines (Engineering, Civil, Electrical, Electrical and Electronic, Mechanical, Manufacturing, Automotive, Systems). Invited speakers from the Industry will provide insight to each discipline.
Career pathways (preparing for internships and future employment).
Engineering ethics.
Health and Safety.
Professional Commitment and Institutional Membership.
Skills (IT skills; Reading, Note Taking and Research skills; Keeping a logbook and writing a reflective report; Writing and Presentation skills; Study skills; Exam skills; Development and Reflection skills; Sketching skills; Time Management skills).
Diversity and Equality.

The module includes compulsory on-line courses as defined by the Department.

21. Illustrative Bibliography

QAA 2015 Engineering Benchmark Statement ~ what is expected to be delivered and achieved in an engineering degree.
UK-SPEC Published by the Engineering Council UK ~ guidance on what makes a graduate Chartered Engineer.
Joint Board of Moderators Guidance on Graduate Requirements ~ Guidance on how to interpret UK-SPEC for Civil Engineering.
Institution of Mechanical Engineers Guidance on Graduate Requirements ~ Guidance on how to interpret UK-SPEC for IMechE accedited degrees is in Appendix 2.
Institution of Engineering and Technology Guidance on Graduate Requirements ~ Guidance on how to interpret UK-SPEC for IET (formerly IEE) accredited degrees.
Engineering Ethics: Concepts and Cases. 2013. ISBN-13: 978-1133934684.
Ethics in Engineering Practice and Research. 2012. ISBN 13:9781107668478

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.

N/A

Approval	
24. Module leader's signature	Dr Georgia Kremmyda
25. Date of approval	14 March 2018
26. Name of Approving Committee (include minute reference if applicable)	School of Engineering and WMG Course and Module Approval Committee (CMAC) Minute 125-17/18
27. Chair of Committee's signature	Professor Gillian Cooke
28. Head of Department(s) signature	Professor David Towers

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**
	CV and Personal statement (30%) 'My Career Path' reflective report (3 pages) (30%) On-line courses as defined by the department (i.e. 'Matlab OnRamp', Ethics; H&S; Plagiarism) (40%)	
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?	N/A	
A5. When would you wish the exam take place (e.g. Jan, April, Summer)?	N/A	
A6. Is reading time required?	☒ No	
A7. Please specify any special exam timetable arrangements.		
N/A		
A8. Stationery requirements		
No. of Answer books?	N/A	
Graph paper?	N/A	
Calculator?	N/A	
Any other special stationery requirements (e.g. Data books, tables etc)?	N/A	

Examination Information		
A9. Type of examination paper		
Seen?	☐ Yes	☐ No
Open Book?	☐ Yes	☐ No
Restricted?	☐ Yes	☐ No
If restricted, please provide a list of permitted texts:	N/A	

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 15)**	**Which summative assessment method(s) will measure the achievement of this learning outcome? (reference activities in section 16)**
Identify what it means to be an Engineer and being a part of the engineering community through exposure to Engineers coming from the Industry, academics of the Engineering department, recent graduate students, and fellow undergraduate students.	Lectures, seminars, tutorials, on-line courses	'My Career Path' reflective report
Understand the focus of each Engineering Discipline and then be able to make an informed choice on a direction of study.	Lectures, seminars, tutorials	'My Career Path' reflective report
Understand each of the Engineering Disciplines, the systems approach of the School of Engineering and how each of the Disciplines contribute to multi-disciplinary problems.	Lectures, seminars, tutorials	'My Career Path' reflective report
Produce professional, stylish and informative pieces of work which demonstrate your skills, experience and education.	Lectures, seminars, tutorials, on-line courses	CV, Personal statement, 'My Career Path' reflective report, on-line courses
Plan self-learning and improve performance as the foundation for lifelong learning (CPD).	Lectures, seminars, tutorials, on-line courses	CV, Personal statement, 'My Career Path' reflective report, on-line courses