

# **MODULE SPECIFICATION PROFORMA**

Module Title:		Work Based Investigation a				Lev	/el:	4	Cred Value	-	20	
Module code:		ENG454	Is this a new NO module?			Code of modul being replaced						
Cost Centre:		GAME	JACS3 code:		ŀ	H700						
Trimester(s) in which to be offered:			1, 2 & 3	With effect from:			ember	16				
School:		ied Science, Com	nputing &	Module Bobby Manesh								
Scheduled learning and teaching hours												30 hrs
Guided independent study			170 hrs									
Placement			0 hrs									
Module duration (total hours)											200 hrs	
Programme(s) in which to be offered									Core	. (	Option	
FdEng Industrial Engineering									٧			
Pre-requi	ieitae											
none												
1.0.10												
Derogation	ons											
None												
Office use of	•	4.6										
Initial approval June 16  APSC approval of modification Enter date of approval  Version 1												
Have any derogations received SQC approval?						es 🗆 N	•					



# **MODULE SPECIFICATION PROFORMA**

# **Module Aims**

To facilitate the learning and development of a student engineer by means of practical work based learning in an industrial environment.

Intended Learning Outcomes							
Key skills for employability							
K K K K K K	<ul> <li>KS1 Written, oral and media communication skills</li> <li>KS2 Leadership, team working and networking skills</li> <li>KS3 Opportunity, creativity and problem solving skills</li> <li>KS4 Information technology skills and digital literacy</li> <li>KS5 Information management skills</li> <li>KS6 Research skills</li> <li>KS7 Intercultural and sustainability skills</li> <li>KS8 Career management skills</li> <li>KS9 Learning to learn (managing personal and professional development, selfmanagement)</li> <li>KS10 Numeracy</li> </ul>						
At	the end	of this module, students will be able to	Key Skills				
1	Develop management techniques for planning and implementation of engineering tasks		KS1				
2	Resea	rch information applicable to tasks	KS6				
3	Demonstrate an awareness of new/developing technologies and their possible implications to plant and processes						
4		s tasks and identify problems with the means to me them	KS2				



#### MODULE SPECIFICATION PROFORMA

### **Assessment:**

Assessment 1 - Portfolio of work relating to work based activity inclusive of log-book/diary. Providing a clear overview of the topic investigated including explanations and summary of results together with an analysis of their relevance, limitations and how the results relate to the objectives of the engineering investigation.

Assessment number	Learning Outcomes to be met	Type of assessment	Weighting (%)	Duration (if exam)	Word count (or equivalent if appropriate)
1	1, 2, 3 & 4	Portfolio	100		4000

# **Learning and Teaching Strategies:**

Work-based supervisor, Module leader, student and Mentor decide upon a proposed topic which should involve the student in 200 notional hours of work and study. Specific training undertaken may form part of the notional hours. The relationship between the FdEng programme and the work-based assignment should be clearly identified. The work used for this module may be part of the students' normal workload or some activity designed specially to deliver the required evidence for the assessment of this module. In either case, the negotiation and planning required should be completed and agreed before commencement of the detailed practical work with a module learning agreement document completed.

### Syllabus outline:

- Negotiate and plan a work-based topics for investigation
- Carryout work safely conforming to codes of practice
- Conduct checks on engineering product/asset compliance with specifications
- Examine new/upcoming technologies, products, devices and software. Contemplate their suitability for replacement of legacy equipment
- Provide documentation, including systematic records of work undertaken; record and tabulate observations/test results where appropriate

# Bibliography:

### **Essential reading**

J. W. Davies, (2016) Skills for Engineering students, Palgrave

# Other indicative reading

Hoag, K.L. (2001) Skills Development for Engineers, IET publishing