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Module Type	Taught		
Level	6	Credit Value	10
Programme(s) in which module is available	BEng: Electrical and Electronic Engineering; Communication Engineering; Electronic Engineering & Computer Science. BEng: Electronic Engineering with Management Studies (last cohort) BSc Internet Systems (no student cohort 2009-10)		
Involvement of Other Schools	None		
Resource Split	N/A		
Name of Module Co-ordinator	Igor Khrushchev		
Related Modules	Pre-requisites	None	
	Co-requisites	This module acts as the pre-requisite for EE3IFP	
	Prohibited Combinations	None	
Minimum and Maximum Intake Sizes	None		

Aims of the Module
Students will have identified an area in which they want to carry out their final stage project. This module will then educate the students so that they are able: • To outline the principles of project management with application to real situations in research, industry, and commerce. • To identify the methods and tools of project management, their respective advantages and disadvantages, through case studies. • To apply project definition, planning, scheduling and control methods to the student's Final Year Project.
Summary of Content • Projects in organisations: organisation structures, functions and skills of the team or workforce. • Project definition and project plan development: operational, tactical, and strategic planning and analysis techniques. • Project time and cost estimation. • Project initiation, management and control: project network techniques for scheduling and timing analysis; GANTT; critical path analysis; PERT. Scheduling activities and monitoring accomplishment. Decision trees; dynamic programming. • Environmental issues. Sustainability issues. • Risk analysis and management. • Leadership. • Project closure and review.

Summary of Methods and Frequency of Teaching
    Lectures, tutorial and practical sessions: 22 hours.
    Further study, preparation for practical work on case studies and preparation of Final Year Project specification: 78 hours

Summary of Methods of Assessment and Feedback (including formative feedback)
    Students will have selected a discipline in which they wish to conduct a final stage project and a project supervisor will have been appointed. (Students will also have the opportunity to propose topics of their own devising, subject to approval for suitability.)
    The assessment will be by oral presentation (30%) and written report. (70%).
    Feedback will be provided according to School guidelines. 1-to-1 feedback will be provided orally at presentations and by written comments on written reports. Generic feedback will be provided orally in class and via Blackboard.

Module Outcomes – what the student should gain from successful completion of the module:	Learning and Teaching and Assessment Strategies to enable outcomes to be achieved and demonstrated	
	Learning and Teaching Methods	Assessment Methods
Knowledge and Understanding of • Organisation dynamics • The principles of project management, including analysis techniques • How to carry out risk analysis and management	Lectures, case study	Presentations and reports
Intellectual Skills • Planning and evaluating different approaches to solving an engineering problem	Lectures, case study	Presentations and reports
Professional/Subject Specific Skills • Plan a strategy for solving an engineering problem • Monitoring progress and adjusting the strategy • Prepare a technical report or presentation	Lectures, case study	Presentations and reports
Transferable Skills • The ability to communicate effectively, both in writing and orally • The ability to analyse engineering problems and to plan a strategy for their solution • The ability to carry out self study • Independent learning skills to facilitate professional development	Lectures, case study	Presentations and reports

Introductory Learning Resources	Module information, tutorial material and generic feedback will be available on Blackboard
Core Texts	Project Management and Project Planning. Lockyer, K. and Gordon, J., 7th Edn., Prentice Hall, 2005. Project Management – The Managerial Process., Gray, C.F. and Larson, E.W., 4th Edn., McGraw-Hill , 2007.
Reading Lists	Available at first lecture and through Blackboard.
Specification completed by: Date	Geof Carpenter 16.7.09