LIVERPOOL JOHN MOORES UNIVERSITY

Design Project and Product Management

Module Information

2022.01, Approved

Summary Information

Module Code	6261PDE
Formal Module Title	Design Project and Product Management
Owning School	Engineering
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 6
Grading Schema	40

Teaching Responsibility

LJMU Schools involved in Delivery
Engineering

Learning Methods

Learning Method Type	Hours
Lecture	11
Tutorial	33

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
JAN-CTY	CTY	January	12 Weeks

Aims and Outcomes

Aims	Provide the knowledge and skills of how product design and development functions are managed in organisations and the principle methods of planning, monitoring and controlling innovative design projects.

After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Synthesize design, project and product management theory and techniques to conceive an effective project plan
MLO2	2	Monitor and analyse design project and product activities to ensure effective execution of a project plan through the use of industry standard tools
MLO3	3	Evaluate and reflect on the outcome of the design project against stated objectives in terms of time, cost and quality constraints

Module Content

Outline Syllabus	Design and Project Management:Quality assurance issues in product design. BS7000: Part 1 Design management systems. Guide to managing product design.BS7000: Part 2 Design management systems. Guide to managing the design of manufactured products. BS 6079 Project management - Principles and guidelines for the management of projects Standard:• Determining a projects characteristic• Pitfalls in project management• Laying a solid project foundation• Project breakdown structure (PBS)• Global project planning - milestone planning• Global project organizing - milestone responsibility chart• Detail planning and detail organization - activity charts• Activity planning, monitoring and control techniques (relationship between schedules WBS and PBS)• Work breakdown structure (WBS)• Controlling projects effectively• Financial control of projects• Commercial risk• Quality in project work• Developing a project culture• Use and development of Gantt charts, identifying critical paths; resource smoothing; execution strategyProduct Management:• Agile Product Management principles, frameworks, techniques and tools• Waterfall and Agile product development methods • The Scrum, Scrum Master, Product Owner and other stakeholder positions• Design Sprints• Product Road Maps• Maintaining product life cycles• Product launches
Module Overview	**Aims** **Provide the knowledge and skills of how product design and development functions are managed in organisations and the principle methods of planning, monitoring and controlling innovative design projects.** **Learning Outcomes** **After completing the module the student should be able to:** **1 Synthesize design, project and product management theory and techniques to conceive an effective project plan.** **2 Monitor and analyse design project and product activities to ensure effective execution of a project plan through the use of industry standard tools.** **3 Evaluate and reflect on the outcome of the design project against stated objectives in terms of time, cost and quality constraints.**
Additional Information	UN Sustainable Development GoalsThis module includes content, which relates to the following UN Sustainable Development GoalsSDG09 – this module investigates advanced management processes used to deliver products to market at a faster rate, boosting industrial productivity in a sustainable manner.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Report	Management Report	100	0	MLO1, MLO2, MLO3

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Kevin Johnston	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings