



Universidade do Minho

Escola de Engenharia

UC transversais Programas Doutorais

1º semestre 2012-13

11 de outubro 2012



2 courses offered in the first semestre:

Métodos de Investigação em Engenharia

Research Methods in Engineering

Innovation



Métodos de Investigação em Engenharia (MIE)/Research Methods in Engineering (RME)

Purpose – to prepare students for identifying research opportunities and for designing an adequate research process, while taking into account research Ethics. Critical thinking, readings and papers discussion, covering different research approaches and methods, will be followed.

Class participation, group work, and individual report and presentation will be accounted for, for the final grade calculation.



Métodos de Investigação em Engenharia (MIE)/Research Methods in Engineering (RME)

Main Bibliography:

- Saunders, Mark, Philip Lewis & Adrian Thornhill (2007), *Research Methods for Business Students*, 4ª Edição, Financial Times Prentice-Hall.
- W.L. Neuman (2003), *Social research methods: qualitative and quantitative approaches*, 5th ed., Allyn and Bacon, Boston.
- Andrew Abbott (2004), *Methods of Discovery: Heuristics for the Social Sciences*, W.W. Norton & Company, New York.
- Creswell, J.W., *Research Design: Qualitative and Quantitative Approaches*, Sage, 1994.
- Vaishnavi, V. and W. Kuecler Jr., *Design Science Research Methods and Patterns: Innovating Information and Communication Technology*, Auerbach Publications 2008.
- Simon, H. A., *The Sciences of the Artificial*, The MIT Press, 1981.



Métodos de Investigação em Engenharia (MIE)/Research Methods in Engineering (RME)

Métodos de Investigação em Engenharia

- Lecturer Madalena Araújo
- Contact mmaraujo @ dps.uminho.pt
- Timetable Thursday 14h00 to 17h00
- Room Sala A2. Sala MIT
- Language Português
- e-address <http://moodle.dps.uminho.pt/>
- 2012/2013
- Pós-graduação
- Programas doutorais da Escola de Engenharia
- Métodos de Investigação em Engenharia
- Access key mie_2012_eeum



Métodos de Investigação em Engenharia (MIE)/Research Methods in Engineering (RME)

Research Methods in Engineering

- Teacher João Alvaro Carvalho
- Contact jac @ dsi.uminho.pt
- Timetable Thursday 14h00 to 17h00
- Room Auditório DSI, Edifício Eng. (Eng. Building, east side of campus)
- Language English
- e-address
- Access key



Innovation (intensive course in English)

Lecturer: Dr. David O'Sullivan

Dates: October 26th, 27th, 29th, 30th, 31st.

Introduction

This course on Innovation will help you learn some practice applying innovation skills in any organization e.g. creativity, project management, strategic planning, and so on. You should only join this course if you are prepared to fully engage in the talks and online exercises and be prepared to enjoy the learning experience. Students will be divided into teams of two or three for the exercises that will be linked to the talks.



Innovation (intensive course in English)

Lecturer: Dr. David O'Sullivan

Dates: October 26th, 27th, 29th, 30th, 31st (6-7h per day)

Talks: 30-40 minutes talks on the following topics: Managing Change; Goal Definition; Defining Innovation.pdf; Failures and Success; Stakeholder Analysis; Portfolio Management; Performance Measurement; Product Development; Lean Start-ups; Motivating Performance; Managing Projects; Managing Knowledge; Ideas and Creativity; Effective Leadership; Effective Teams; Extending Innovation; Building Communities

Research Skills Talks: 30-40 minutes talks on improving research skills: Publishing Your Research; Journal Impacts and Citations; Presentation Skills

Student Exercises: Online exercises for students to complete in groups



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Social Networking

All students are to register on the following services:

1. <http://join.lore.com/KWHTBK> - Online Learning Environment
2. www.ideaslog.com - Project Management System
3. www.leancanvas.com - Business Planning System

STUDENTS NEED TO REGISTER SENDING AN EMAIL TO THE LECTURER

david.osullivan@nuigalway.ie



CALENDAR

[UC transversais_set2012.pdf](#)