



Prifysgol Cymru
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University of Wales
Trinity Saint David

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Research Methods and Professional Development

ACFA7004

Dr. Seena Joseph



Research Methods and Professional Development ACFA7004

- Lecturer: Dr. Seena Joseph
- Email: Seena.joseph@uwtsd.ac.uk
- Current Timetable

Friday : 09H00 to 11H00 at IQ310

Friday : 15H00 to 17H00 at IQ310

Module content

- **Introduction to Research [Week 1: Lecture 1]**
 - Introduction
 - Assessment specification
- **Software and Tools [Week 1: Lectures 2]**
 - Library Resources
 - Referencing and Plagiarism
 - Tools : RefWorks, SCISPACE, PowerDrill, Elicit
- **Proposal Elements[Week 2: Lectures 3 and 4]**
 - Elements of research proposal
 - Preparation for research proposal
 - Research process
- **Literature Review [Week 3: Lectures 5 and 6]**
 - Purpose and scope of literature review
 - Types of Literature review
 - SLR

Module content

- **Literature Review [Week 4: Lectures 7 and 8]**
 - Critical analysis
 - Research gap identification
- **Research methodology [Week 5: Lectures 9 and 10]**
 - Introduction to research methods
 - Research onion design framework
- **Reading Week and Research proposal topic presentation [Week 6]**

Module content

- Project management – Guest Lecture [Week 7: Lecture 11]
- Research Methodology [Week 7 : Lectures 12]
 - Design Science Research
- Research Methodology [Week 8 : Lectures 13 and 14]
 - Qualitative and quantitative research
 - Data collection methods
- Data analysis techniques [Week 9: Lectures 15 and 16]
 - Methods for analysing research data
 - Software tools for data analysis
- STEM MSc Ethical Angles – [Week 10: Lectures 17 and 18]
 - Professional Development/Guest Lecture
- Research Proposal Writing [Week 11: Lectures 19 and 20]
- Research Proposal Writing and Submission [Week 12–Lectures 20 and 21]

Lecture Schedule

Date	Topic
Week of Jan 26 th	• Introduction to research [Lecture 1] • Software and Tools [Lecture 2]
Week of Feb 2 nd	• Proposal elements [Lectures 3] • Research Process [Lecture 4]
Week of Feb 9 th	• Literature review [Lecture 5] • Systematic Literature Review [Lecture 6]
Week of Feb 16 th	• Systematic Literature Review [Lectures 7] • Critical analysis and research gap identification [Lectures 8]
Week of Feb 23 rd	• Research methodology [Lectures 9 and 10]
Week of Mar 2 nd	• Reading Week ; Research Project topic presentation
Week of Mar 9 th	• Guest Lecture – Project Management [Lecture 11] • Design Science Research [Lecture 12]
Week of Mar 16 th	• Qualitative and Quantitative Research [Lectures 13 and 14]
Week of Mar 23 rd	• Data collection techniques [Lectures 15 and 16]
Week of Mar 30 th	• Guest Lectures – Leadership [Lecture 17] • STEM MSc Ethical Angles – Lecture /Guest Lecture [Lecture 18]
Week of Apr 20 th	• Research Proposal Writing [Lecture 19 and 20]
Week of May 4 th	• Research Proposal Writing [Lectures 21 and 22]

Assessment Schedule

Assessment	Date
Research project Topic Presentation (CW2)	Submission of presentation 4 th March Presentation 6 th March 2026
Research Proposal (CW1)	May 8 th 2026