

WM9RB-15 Interdisciplinary Research Methods

26/27

Department

WMG

Level

Taught Postgraduate Level

Module leader

Maryam Masood

Credit value

15

Module duration

28 weeks

Assessment

100% coursework

Study location

University of Warwick main campus, Coventry

Description

Introductory description

Adopting a blended learning approach, the Interdisciplinary Research Methods Module is purposefully designed to meet the complex learning and professional needs of postgraduate students. The module is developed to support students in development of key study as well as research skills. These skills are embedded within the module material signifying to students the importance and interlinking of these skills. This blended module runs asynchronously and synchronously with the student learning journey providing a programme of carefully designed learning activities, materials, and resources.

Module aims

1. To deliver a series of high quality, interactive sessions and blended learning activities that will provide students with the means to gain a broad range of graduate level study and research skills necessary to succeed in their chosen field.
2. To provide students with high quality blended learning opportunities to gain a broad knowledge about the process and presentation of research for engineering and business subjects, including awareness to ethical concerns, methods for data collection, techniques

for data analysis and design of research proposals.

Outline syllabus

This is an indicative module outline only to give an indication of the sort of topics that may be covered. Actual sessions held may differ.

This module is designed to support student learning and professional needs in the development of study and research skills. The module is designed to provide students with the required high level of knowledge and skills about research methods to enable them to undertake and successfully complete an independent dissertation and original piece of research. In order to achieve this the module also covers key transferrable skills required for research as well as to succeed at postgraduate level such as to complete their post-module assignments. This includes critical thinking, academic writing, and academic integrity (including referencing).

Learning outcomes

By the end of the module, students should be able to:

- Critically evaluate a research problem and draw conclusions from it using literature
- Communicate critical analysis and evaluation of research effectively
- Select appropriate research design and methodologies for complex problems providing clear rationale for selected approaches
- Analyse ethical issues involved in a research design
- Design a feasible research project to be completed in limited time and resources

Indicative reading list

[Specific reading list for the module](#)

Research element

This module focuses on the development, growth and enhancement of individual research skills to provide students with the skills and competencies needed to undertake an independent, original piece of research.

In addition, the module materials are also grounded in research and aim to build students' skills to undertake independent research and complete a dissertation. The module has been designed to be underpinned by the principles of scholarship whereby research, teaching and learning are intrinsically linked throughout.

Interdisciplinary

This module is purposefully designed for WMG postgraduate students, irrespective of subject area. This is by nature interdisciplinary and is designed to incorporate examples from across the disciplines taught in WMG whilst embodying the intersectionality of everyday professional life. The core teaching team represent a range of different academic backgrounds and disciplines reflective

of the interdisciplinarity within WMG. With learning and teaching materials co-designed by colleagues from engineering, science, business and social science backgrounds the module has been carefully designed to be suitable across disciplines to form a broad foundation for successful learning at postgraduate level.

International

The module is designed for a multi-discipline, international cohort. Learning materials and examples are drawn from a range of disciplines, cultures and countries covering the whole range of subjects and disciplines taught in WMG in order to teach specific core and threshold concepts.

Subject specific skills

Interdisciplinary research methods provides students the opportunity to develop skills needed to successfully undertake their studies and independent research. In recognising the variety in student backgrounds, students will be supported to develop a foundational to advanced level of skill capability depending on their needs.

Transferable skills

The transferable skills are embedded into the module learning and teaching. Transferable skills which students will acquire in the module include, but are not limited to: Communication, (including academic writing, referencing, presentations, active listening) Critical thinking, Research Ethics and ethical values, (including academic integrity), Information literacy, (including searching for and evaluating information) and Problem solving.

Study

Study time

Type	Required	Optional
Lectures	15 sessions of 1 hour (10%)	5 sessions of 1 hour
Online learning (scheduled sessions)	15 sessions of 1 hour (10%)	5 sessions of 1 hour
Online learning (independent)	30 sessions of 1 hour (20%)	5 sessions of 1 hour
Private study	30 hours (20%)	
Assessment	60 hours (40%)	
Total	150 hours	

Private study description

Students receive additional readings and workbooks to support their learning in the module. This enables students to build their foundational knowledge or go deeper into the application and evaluation of knowledge presented in the module.

Costs

No further costs have been identified for this module.

Assessment

You must pass all assessment components to pass the module.

Assessment group A1

	Weighting	Study time	Eligible for self-certification
Assessment component			
Mini literature review	40%	24 hours	Yes (extension)
Students will submit an individual assignment. It will be critical evaluation of literature relevant to a specific research problem in the student's academic discipline.			

Reassessment component is the same

Assessment component

Research Feasibility Report	60%	36 hours	Yes (extension)
Students will individually submit an an in-depth report to determine the practicality and viability of a proposed research project for their dissertation.			

Reassessment component is the same

Feedback on assessment

Students will be provided individual and class feedback and feed-forward on their assessments.

Availability

Courses

This module is Core for:

- Year 1 of TWMS-H1S8 Postgraduate International Trade, Strategy and Operations (Full-time)
- Year 1 of TWMS-H1S3 Postgraduate Taught Engineering Business Management (Full-time)
- Year 1 of TWMS-H1SJ Postgraduate Taught Intelligent Manufacturing Systems (Full-Time)
- TWMS-H1SB Postgraduate Taught Programme and Project Management (Full-time)
 - Year 1 of H1SB Programme and Project Management (Full-time)
 - Year 1 of H1SB Programme and Project Management (Full-time)
- Year 1 of TWMS-H1SD Postgraduate Taught Supply Chain and Logistics Management (Full-time)
- Year 1 of TWMS-H1S4 Postgraduate Taught e-Business Management (Full-time)