



Prifysgol Cymru
Y Drindod Dewi Sant
University of Wales
Trinity Saint David

Research Integrity, Ethics & Responsible Innovation

Trawsnewid Addysg; Trawsnewid Bywydau
Transforming Education; Transforming Lives

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The Programme Manager

- Leads the MSc Cybersecurity and Digital Forensics programme, ensuring strategic alignment and high quality delivery;
- Applies expertise in AI and cybersecurity to advance research informed teaching and innovation;
- Enhances student outcomes through industry informed practice and academic leadership;
- Promotes excellence in hands on learning, ethical practice and professional development.



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Purpose of This Workshop

- Understand ethical responsibilities in postgraduate research
- Apply responsible AI practices
- Strengthen data governance and compliance awareness
- Prepare to defend research decisions in your viva

Why This Matters

- Ethical approval may be required for your project
- Misuse of Ala or plagiarism can lead to penalties
- Research credibility impacts marks and employability
- Professional standards are expected at Level 7

Ethics in MSc Projects

- When is ethics approval required?
- Human participants and personal data
- Minimising risk and harm
- Consent, confidentiality and debriefing

Ethics Approval Process

- Complete Ethics Approval Form where required
- Clearly define research aims and methods
- Identify potential ethical concerns
- Provide mitigation strategies

Responsible Use of AI

- AI can support workflow but not replace your work
- Disclose AI usage transparently
- Ensure you can explain and defend AI-assisted work
- Understand boundaries in coding and analysis

AI Disclosure Best Practice

- Document where AI was used
- Describe how it supported your process
- Credit tools appropriately
- Retain ownership of intellectual contribution

Data Governance & Research Credibility

- Secure data storage practices
 - Anonymisation of participant data
 - Ensuring validity and reliability
 - Maintaining a clear research audit trail

Data Management Planning

- What data will you collect?
- How will it be stored securely?
- Who has access?
- How will it be analysed and retained?

Intellectual Property Awareness

- Ownership of artefacts and code
- Employer-sponsored project considerations
- Using third-party datasets and code legally
- Understanding open-source licensing basics

Avoiding Academic Risk

- Proper citation and attribution
- Avoiding excessive AI-generated text
- Ensuring you understand all submitted work
- Preparing to defend decisions in viva

Professional Research Standards

- Demonstrate integrity and transparency
- Align research with ethical and social responsibility
- Build employability through governance awareness
- Produce defensible, credible postgraduate work

Workshop 3 Summary

- Ethics and integrity are essential, not optional
- Responsible AI use strengthens your project
- Professional data management improves credibility
- Preparation reduces academic and viva risk



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Any Questions?

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