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Final Presentation and Viva Preparation

Practical 3 - Supervised research activity guide

Aim

To prepare a clear final research presentation and evidence-based viva defence.

Principle

A final presentation should connect question, design, results and limitations without overstating novelty or causality. The audience must be able to distinguish measured observations from interpretation.

Materials and Requirements

- Approved research topic or open-access paper and study records
- Supervisor guidance, institutional ethics/safety requirements and assessment rubric
- Research notebook, analysis plan and presentation tools
- Approved method or teaching-data pack and a dated record sheet

Procedure

1. Define the preparation or dataset, study question and method version. Record identities, units and the criteria to be used before examining the outcome.
2. Define the research question, activity stage, evidence sources and deliverable with the supervisor. Keep supplied originals and a dated record of decisions.
3. Build a presentation sequence covering problem, objectives, method rationale, key results, interpretation, limitations and conclusions.
4. Use legible figures with units, independent n, uncertainty and honest axis scales; select evidence for the question rather than only significant findings.
5. Prepare backup slides linking methods, raw data, calculations and sensitivity analyses to likely viva questions.
6. Rehearse to the institutional time limit and practise concise answers that state evidence, reasoning and uncertainty; correct the final dissertation/slide consistency.
7. Check scientific accuracy, traceability, authorship and confidentiality. Record limitations and obtain the appropriate academic review before dissemination.
8. Retain the original observations and calculations. State deviations, missing information and the limits of the conclusion; do not replace measured values with expected results.

Observations and Record

Enter actual measurements or the supplied teaching data. Record the method, material identity, conditions and units.

Task / evidence	Planned method / criterion	Completed record	Review / next action
Scientific question	Define	Record	Assess
Methods / evidence	Justify	Record	Assess
Analysis / communication	Predefine	Record	Assess

Worked Example

Illustrative a treatment mean differs by 3 units but the interval spans -2 to 8. Say that the estimate is imprecise and explain the supported range, rather than claiming either definite benefit or no possible effect.

Result and Interpretation

• Deliver the final slide outline, a figure-check sheet and a viva question bank covering design, results, limitations and next studies.

Precautions

• Do not fabricate observations, approvals, participant records or citations.
• Use the appropriate permissions for human, animal, biological or confidential work.
• Distinguish exploratory analysis from prespecified confirmatory analysis.

Viva Questions and Answers

How should an unsupported question be answered?

State the evidence limit and what additional work would resolve it.

Why show uncertainty?

It helps assess precision and the range of compatible effects.

What should a conclusion reflect?

The actual objectives, design and results, with the important limitations.

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