

Authentic Assessment for CCMRM801 – Research Methodology

(Using the GRASPS Model)

Goal:

Students will develop and present a comprehensive research proposal that demonstrates their ability to identify research gaps, design an appropriate methodology, and structure an academic research report. The proposal should address a real-world research challenge within Food Technology.

Role:

You are a research scientist preparing to conduct an independent study. Your task is to convince a funding body (instructors and peers) that your research is valid, necessary, and feasible.

Audience:

Your audience includes research committee members (instructors), potential collaborators (peers), and stakeholders interested in the advancement of Food Technology.

Situation:

You are competing for research funding and must demonstrate the significance of your research idea. You need to justify why your study is important, how it will be conducted, and how it contributes to scientific knowledge.

Product/Performance:

Students will develop and submit:

1. **A Written Research Proposal (60%)**
 - **Problem Identification (20%):** Define a research gap and formulate a problem statement, objectives, and hypothesis.
 - **Research Design (30%):** Select and justify research methods, sampling techniques, data collection procedures, and statistical analysis methods.
 - **Academic Writing (10%):** Use proper formatting, citation styles, and clarity in writing.
2. **An Oral Research Proposal Defense (40%)**
 - **Presentation Skills (15%):** Clear and structured delivery with effective use of visual aids.
 - **Content Knowledge & Justification (25%):** Ability to explain the research design and answer critical questions convincingly.

Standards for Success (Rubric):

- The research problem is clearly identified, relevant, and justified.
- The methodology is appropriate and aligns with research objectives.
- The proposal is well-structured, with proper citation and academic integrity.
- The presentation is engaging, well-organized, and professionally delivered.
- The student effectively responds to questions and defends their research choices.