



# MCA

## Research Proposal Writing – Part 2

**Literature Review,  
Methodology, Budgeting,  
Timelines, and Evaluation**

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**LECTURE 6**



# **AGENDA**

- 1. Literature Review in Proposals**
- 2. Methodology in Proposals**
- 3. Budgeting and Timelines**
- 4. Evaluating Research Proposals**
- 5. Real-life Examples and Case Studies**
- 6. Quiz**

# Literature Review in Proposals

**Purpose:** To summarize existing research and identify gaps.

## **Components:**

- Overview of current knowledge.
- Identification of gaps or inconsistencies.
- Justification for the proposed research.

**Example:** In AI, a literature review could summarize existing algorithms for image recognition and highlight the need for improved accuracy.

## **Real-life Example: AI**

**Title:** "Enhancing Image Recognition Accuracy Using Deep Learning"

### **Literature Review:**

- Overview of current image recognition techniques.
- Identification of limitations in accuracy.
- Justification for exploring new deep learning approaches.

# Methodology in Proposals

**Definition:** Detailed plan of how the research will be conducted.

## Components:

- Research design and approach.
- Data collection methods.
- Data analysis techniques.

**Example:** In psychology, a methodology could describe an experimental design to study the effects of music on stress levels.

# Case Study: Psychology

**Title:** "The Effects of Music on Stress Reduction in College Students"

**Methodology:**

- Experimental design with control and treatment groups.
- Surveys and physiological measures to assess stress.
- Statistical analysis to determine the impact of music.

# Budgeting and Timelines

## **Budget:**

- Detailed cost estimates for all project components.
- Include personnel, equipment, materials, travel, and other expenses.

## **Timeline:**

- Project schedule with key milestones.
- Gantt charts or timelines to visualize progress.

**Example:** In climatology, budgeting for field studies and timeline for data collection and analysis.

# Real-life Example: Climatology

**Title:** "Assessing the Impact of Climate Change on Polar Ice Caps"

## **Budget:**

- Personnel costs for researchers and assistants.
- Equipment for ice core drilling and analysis.
- Travel expenses for fieldwork.

## **Timeline:**

- Year 1: Literature review and methodology development.
- Year 2: Fieldwork and data collection.
- Year 3: Data analysis and reporting.



# Evaluating Research Proposals

## Criteria:

- Clarity and feasibility of objectives.
- Significance and impact of the research.
- Robustness of the methodology.
- Adequacy of the budget and timeline.

**Example:** In music, evaluating a proposal for a study on the effects of different genres on concentration.

## Case Study: Music

**Title:** "The Effects of Different Music Genres on Concentration Levels"

## Evaluation Criteria:

- Clear objectives and significance.
- Detailed and appropriate methodology.
- Feasible budget and realistic timeline.

**Evaluation:** Proposal is well-structured, with a clear plan and significant potential impact on understanding music's role in cognitive performance.

# QUIZ

**Question 1:** What should a literature review in a research proposal identify?

- a) Project timeline
- b) Gaps in existing research
- c) Detailed budget
- d) Research objectives

# QUIZ

**Question 2:** What is a key component of the methodology section?

- a) Abstract
- b) Data analysis techniques
- c) References
- d) Project title

# QUIZ

**Question 3:** Which of the following is included in the budget section?

- a) Research objectives
- b) Data collection methods
- c) Equipment costs
- d) Literature review

# Summary

**Recap of key points: Literature review, methodology, budgeting, timelines, and evaluating research proposals.**

**Importance of thorough planning and justification in a research proposal.**

