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CPE 703: Research Methodologies

Research Report and Presentation

Objectives

- Develop the ability to formulate **research problems**.
- Develop skills to **search for sources** and **engage sources** to answer formulated research problems.
- Develop enhanced **writing** and **presentation skills**.

Procedure

- **Select** an **active research problem** in Artificial Intelligence, Robotics, or Computer Engineering.
- **Areas:** Machine Learning, Robotics, Computer Architecture and Organization, Computer Networks.
- **Define** your **research problem**.
- **Survey original** and **recent research** papers.
- **Develop** a **proposal report** for the selected research problem.
- **Present** your **proposal**.

General

- **Marks:**

	30%
– Report	15%
– Presentation	15%
- **Timing**
 - **After midterm:** Submit definition of selected research problem
 - **Last week:** Submit research proposal report and present your proposal

Research Problem Definition

- **One-page** document
- **Specify**
 - Research title
 - Student Name
 - **Research topic**
 - Main question
 - Significance
- **Example:**
 1. I am studying applying deep learning and transfer learning to Arabic poetry
 2. because I want to find how to automatically diacritize poetry accurately,
 3. in order to help my reader enjoy reading and chanting poems.

Research Proposal Report

- **4 to 8-page** report
- Use the template and follow the University of Jordan **style** specified in the following guide:

[مواصفات كتابة الرسائل الجامعية](#)

- **Contents**
 - Title and student name
 - Introduction and Background
 - Research Problem
 - Research importance
 - Research objectives
 - Research questions and assumptions
 - Previous work
 - Research methodology
 - References

Research Proposal Presentation

- Prepare Power Point slides (around **ten slides**)
- **Ten** minutes
- Must be **clear** and **useful** presentation