**Phase 2: Business Process Modeling (MIS)**

**1. Define Scope**

Scope: Designing a business process that focuses on streamlining the course management tasks for university lecturers, specifically handling attendance, assignment grading, and student performance tracking. This process will align with the goals of a Management Information System (MIS) by enhancing data accessibility and supporting lecturers in their administrative and academic responsibilities.

**Objectives:**

Centralize course management tasks.

Automate attendance tracking for efficiency.

Simplify assignment submission and grading.

Provide detailed reports on student progress to assist lecturers in decision-making.

**Expected Outcomes:**

Improved time management for lecturers by centralizing course information.

More accurate attendance and grading records.

Easy access to real-time student performance data.

**2. Identification of Key Entities Involved**

**Entities:**

* Lecturer: Creates courses, manages attendance, assigns grades.
* Course: Connects each lecturer to specific courses with relevant details.
* Class: Represents specific sessions of each course, tracks attendance.
* Student: Registers for courses, completes assignments, and is tracked for progress.
* Assignment: Linked to each course, tracks submissions and grades.
* Grade: Records each student’s performance per assignment and overall course.
* Department: Organizes lecturers and students by their departments

**SWIMLANE DIAGRAM**

**Diagram Explanation**

This Business Process Modeling (BPM) diagram illustrates the workflow of a university course management system, which supports lecturers in managing courses and students efficiently.

**Main Components and Interactions:**

1. **Lecturer:** The process begins with the lecturer, who takes attendance and creates assignments. A gateway checks if the assignment is ready before it’s posted for students. After students submit assignments, the lecturer receives notifications to grade them and can view student progress throughout the course.
2. **Student:** Students interact with the system by viewing and submitting assignments. A gateway ensures submissions are correctly made, preventing incomplete or incorrect submissions. Students can also track their grades, allowing them to monitor their progress.
3. **System Database:** The automated system records attendance, notifies students of assignments, and alerts lecturers upon submission. It calculates grades and generates progress reports, making key information accessible to both students and lecturers.

**Significance in Management Information Systems (MIS):**

The course management process exemplifies the role of an MIS in supporting decision-making and organizational goals.

**Decision Support:** The system offers lecturers insights into student performance, allowing them to make informed decisions on interventions and targeted support.

**Course Management system**

