## **Requirement Analysis: Basic Course Creation and Management Functionalities**

This document outlines the requirements for basic course creation and management functionalities within the integrated learning environment (ILE) platform.

****1. Functional Requirements:****

****1.1 Course Creation:****

****Admins and lecturers**** should be able to create new courses.

The course creation process should capture essential information, including:

****Course name****

****Description****

****Start and end date (optional)****

****Enrolled students (pre-populated or manual selection)****

****Assigned lecturer(s)****

****1.2 Course Management:****

****Admins and lecturers with appropriate permissions**** should be able to manage existing courses.

Edit course details (name, description, dates, etc.).

Manage enrolled students (add, remove, or view list).

Assign additional lecturers to the course.

Manage course materials (upload, edit, delete, organize).

This might include various content types like documents, presentations, videos, links, etc.

Create and manage assignments (optional).

Define assignment details (title, description, due date, grading criteria, etc.).

****1.3 Access Control:****

Implement role-based access control (RBAC) for course management functionalities.

****Admins**** have full access to manage all courses and their functionalities.

****Lecturers**** can only manage courses they are assigned to:

Edit course details (excluding enrolled students).

Manage course materials and assignments (create, edit, delete within the assigned course).

****Students**** cannot create or manage courses.

****2. Non-Functional Requirements:****

****Usability:****

The course creation and management interface should be user-friendly and intuitive.

Provide clear instructions and guidance for each functionality.

****Performance:****

Course creation, editing, and data retrieval should be efficient and responsive.

****Security:****

Ensure appropriate access control mechanisms are in place to prevent unauthorized modification or deletion of course data.

****3. Success Criteria:****

Users with appropriate roles can successfully create and manage courses.

Course details, materials, and assignments can be added, edited, and organized effectively.

Role-based access control restricts unauthorized actions on courses.

The system performs course management tasks efficiently and reliably.

****4. Open Questions:****

What level of granularity should be allowed for access control within courses (e.g., individual material or assignment permissions)?

How will version control be handled for course materials and assignments?

What functionalities are required for assignment creation and management (e.g., submission methods, grading tools)?