

Alright, let ban, I'm gonna give you the **FULL DETAILED VERSION**—like a real LMS knowledge base used for RAG systems.

This is **expanded x3**, includes deep explanation, examples, policies, decision rules, and realistic content that a student-support chatbot would retrieve.

It will look like the type of “internal handbook + help center + learning guide” your e-learning system uses.

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# STUDENT LEARNING-SUPPORT KNOWLEDGE BASE (ULTRA DETAILED)

*For RAG Chatbot System – Student Role*

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## 1. COURSE INFORMATION

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### 1.1 Course Description Template (Generic for All Courses)

Each course in the e-learning system contains a detailed description including:

- **Course Title:** Official name in curriculum.
- **Course Code:** Ex: ECOM201, CS102.
- **Credits:** Usually 2–4 credits.
- **Prerequisites:** Courses required before enrolling.
- **Short Description:**  
A summary of the topics, scope, and learning objectives.

#### **Example:**

*"This course provides foundational knowledge of database systems, focusing on SQL, relational database design, indexing, normalization, and transaction management. Students will complete weekly labs, quizzes, and a final project involving database creation and optimization."*

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## **1.2 Learning Outcomes (General Template)**

By the end of each course, students are expected to be able to:

1. Understand essential theoretical concepts.
  2. Apply learned knowledge to solve practical problems.
  3. Use relevant tools/software (SQL Server, Java, Python, etc.).
  4. Analyze real-world scenarios and propose solutions.
  5. Communicate ideas clearly through written and presentation tasks.
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## **1.3 Course Structure / Weekly Breakdown**

A typical course lasts **12–15 weeks**, with each week containing:

- **Main topic of the week**
- **Lecture slides (PDF, PPT)**
- **Recorded lectures (MP4)**
- **Reading materials** (textbooks, online research papers)
- **Weekly quiz**
- **Weekly assignment/lab**
- **Forum discussion questions**

### **Example Week Breakdown:**

#### **Week 4 – Object-Oriented Programming in Java**

- Topics: Classes, Objects, Constructors, Encapsulation
  - Lecture Video: 1 hour 35 minutes
  - Reading: Chapter 4 + Supplementary article
  - Quiz: 10 multiple-choice questions
  - Lab: Implement a student management class
  - Assignment: Build a small Java console application
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## **1.4 Grading Policy (Detailed)**

Grading may vary per course but usually follows:

<b>Component</b>	<b>Weight</b>	<b>Description</b>
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<b>Component</b>	<b>Weight</b>	<b>Description</b>
Assignments	20–40%	Weekly homework, coding tasks, reports
Quizzes	10–20%	Short assessments after each module
Midterm Exam	20–30%	Covers first half of course
Final Exam	30–40%	Comprehensive exam
Participation	5–10%	Forum activity, group work, attendance

**Notes:**

- Minimum passing grade: **50/100**
  - Some courses require passing the final exam to pass the course overall
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## **2. ASSIGNMENTS & SUBMISSION RULES**

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### **2.1 Assignment Instructions (General)**

Every assignment will include:

- **Task description**
- **Expected output**
- **Required format**
- **Rubric/marking scheme**
- **Deadline (date + time)**
- **How to submit (upload, link, GitHub)**

**Accepted File Formats:**

- PDF
- DOCX
- PNG/JPEG (screenshots)
- ZIP (for code projects)
- Jupyter Notebook (.ipynb)
- Java/Python source code files

**File Naming Rule:**

Format:

StudentID\_FullName\_AssignmentX

Example:

2053042\_NguyenVanA\_Assignment3.pdf

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## 2.2 Late Submission Policy

- Late 1 day → -10%
- Late 2 days → -20%
- Late 3 days → -30%
- Late >3 days → Not accepted unless emergency approved
- Technical issues must be reported **before deadline**

### Acceptable Reasons for Extension:

- Medical emergencies
  - Family emergencies
  - System outages officially acknowledged
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## 2.3 Plagiarism & Academic Integrity (Very Detailed)

Plagiarism includes:

- Copying text from the internet without citation
- Using another student's code
- Using AI-generated text without permission
- Using GitHub code without declaring source
- Submitting identical or slightly modified content

### Penalties:

- 0 marks for assignment
- Report to academic department
- Repeated offense → fail course
- Severe cases → academic probation

### Similarity Threshold:

- Turnitin similarity > 20% = automatic review
- Code similarity checked via Moss

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## 2.4 Rubrics (Generic Example)

Rubrics detail how marks are allocated.

### Example Rubric for Coding Assignment (100 pts)

Category	Points	Description
Correctness	40	Code runs + correct output
Style & Structure	20	Clean code, naming, indentation
Documentation	10	Comments, README
Testing	10	Test cases included
Creativity	10	Extra features
Submission Format	10	File naming, proper packaging

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## 3. EXAMS & QUIZZES

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### 3.1 Exam Types

- **Online exam with proctoring**
  - **On-site written exam**
  - **Open-book exam**
  - **Practical/lab exam**
  - **Oral exam** (for certain subjects)
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### 3.2 Exam Rules (Detailed)

- Students must join exam room **10–15 minutes early**
- Display student ID before starting
- Electronic devices (phones/tablets) are prohibited
- No talking, no leaving seat
- During online exams:
  - Webcam ON
  - Microphone ON
  - Screen-sharing required
  - Only 1 tab allowed

## **Violations:**

- Suspicious behavior → flagged
  - Switching windows → auto-warning
  - Using chat tools → immediate investigation
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## **3.3 Quiz Rules**

- Time-limited (15–40 minutes)
  - 1–2 attempts only
  - Randomized questions
  - Cannot pause once started
  - Immediate results
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# **4. LEARNING SUPPORT & STUDY GUIDES**

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## **4.1 General Study Tips**

- Attend every lecture and take notes
  - Review weekly slides
  - Do practice quizzes before the assignment
  - Break down long tasks into smaller chunks
  - Engage in discussion forums
  - Use spaced repetition (Anki)
  - Practice active recall
  - Study 1–2 hours daily instead of cramming
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## **4.2 How the Chatbot Helps Students (Capabilities)**

Your RAG chatbot can help by:

### *Academic Assistance*

- Explaining difficult concepts

- Giving examples
- Summarizing lecture notes
- Providing definitions
- Suggesting study plans
- Answering “where is...?” questions

### ***Assignment Support***

- Clarifying assignment instructions
- Recommending reading materials
- Suggesting code structure or algorithm approach
- Giving test case examples

### ***Navigation Assistance***

- Locate PDFs, slides, lecture videos
- Show deadlines
- Show upcoming assessments

### ***Administrative Assistance***

- Explain grading rules
  - Explain exam policies
  - Show attendance policy
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## **5. TECHNICAL SUPPORT & TROUBLESHOOTING**

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### **5.1 Common Technical Issues & Solutions**

#### **1. Cannot log in**

- Check username/password
- Reset password
- Clear browser cache
- Try incognito mode
- Contact support if still failing

#### **2. Video not loading**

- Switch browser to Chrome/Firefox
- Check internet speed (minimum 5Mbps)
- Download video if available
- Disable ad-blockers

### **3. Assignment Upload Error**

- File too large → compress
- Wrong format → convert to PDF
- Internet unstable → reconnect and reupload

### **4. Quiz not opening**

- Check quiz availability time
  - Deadline might be passed
  - Browser compatibility issues
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## **5.2 System Requirements**

### **Minimum PC Requirements**

- Processor: Dual-core
- RAM: 4GB
- Storage: 5GB free
- OS: Windows 10 / macOS / Linux

### **Recommended Requirements**

- Processor: i5 or higher
  - RAM: 8GB
  - Stable internet 10Mbps
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## **6. STUDENT PROGRESS TRACKING**

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### **6.1 Progress Indicators**

- Lecture completion (%)
- Quiz scores

- Assignment submission status
- Exam scores
- Participation level (forum activity)

#### **Example:**

Lectures Completed: 72%  
Assignments Submitted: 5/6  
Average Quiz Score: 81%  
Final Exam: Pending

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## **6.2 Flags for At-Risk Students**

System automatically identifies students who:

- Miss 2 or more assignments
- Receive < 50% on multiple quizzes
- Do not log in for 7+ days
- Fail midterm exam
- Low participation score

Chatbot can remind or encourage them.

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# **7. COMMUNICATION & SUPPORT**

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## **7.1 Instructor Contact Protocol**

- Use university email
  - Expect response in 24–48 hours
  - Use professional subject line
  - State course + student ID + question clearly
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## **7.2 Discussion Forums**

Forum usage guidelines:

- Be respectful

- Do not spam
  - Use threads properly
  - Credit sources when sharing external content
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## 8. AVAILABLE RESOURCES

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### **Types of Learning Materials:**

- Textbooks
  - Lecture slides
  - Recorded videos
  - Additional readings
  - Past exam papers
  - Practice quizzes
  - Lab exercises
  - Source code examples
  - Templates (LaTeX, project report, coding style guide)
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## 9. Example RAG Content Chunks

These are small chunks your RAG system will index.

### **Chunk Example — Deadline Policy**

“All assignments must be submitted before 23:59 on the due date. Late submissions incur a penalty of 10% per day up to 3 days.”

### **Chunk Example — Week 5 Topic**

“Week 5 covers SQL Joins: INNER JOIN, LEFT JOIN, RIGHT JOIN, FULL JOIN. Students must complete Lab 05 and Quiz 05.”

### **Chunk Example — Plagiarism Rule**

“Similarity above 20% (Turnitin) will result in automatic review and may be penalized according to university academic integrity policy.”

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