# **Active Learning Integration**

## **Instructions**

This worksheet will guide you through revamping a specific topic in your course to incorporate active learning strategies that respect cognitive load theory and attention span limitations. Work through each section thoughtfully, considering how to make your teaching more engaging and effective.

## **1. Course & Topic Selection**

### **Course Information**

**Track Name:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Course Name:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Course Level:** ☐ Beginner ☐ Intermediate ☐ Advanced

**Course Type:** ☐ Core ☐ Elective

**Topic/Unit to Revamp:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Current Duration:** \_\_\_\_\_\_\_\_\_\_\_\_\_ hours/sessions

**Typical Class Size:** \_\_\_\_\_\_\_\_\_\_\_\_\_ students

## **2. Learning Outcomes (LOs)**

### **Current Learning Outcomes**

*List your existing learning outcomes for this topic:*

### **Revised Learning Outcomes (Active Learning Focused)**

*Rewrite or refine your LOs to be more action-oriented and measurable:*

**LO1:** Students will be able to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ *by* [specific action/demonstration] \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**LO2:** Students will be able to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ *by* [specific action/demonstration] \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**LO3:** Students will be able to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ *by* [specific action/demonstration] \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

## **3. Teaching-Learning Challenge Analysis**

### **Current Teaching Method**

*Describe how you currently teach this topic:*

### **Identified Challenges**

*Check all that apply and add specifics:*

☐ **Low student engagement** Details: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

☐ **Cognitive overload** Details: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

☐ **Attention span issues** Details: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

☐ **Passive learning** Details: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

☐ **Difficulty with practical application** Details: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

☐ **Mixed skill levels** Details: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

☐ **Other:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

### **Root Cause Analysis**

*What do you think is the primary reason students struggle with this topic?*

## **4. Active Learning Revamp Strategy**

### **Strategy Selection**

*Choose 2-3 active learning strategies that address your challenges:*

#### **Strategy 1: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Description:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Rationale:** Why this strategy for this topic and these students?

**Specific Implementation:** *Example: "I will use Think-Pair-Share for the Requirements Gathering topic where students first individually brainstorm requirements for a given scenario (3 min), then discuss with a partner (5 min), then share key insights with the class (7 min)."*

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#### **Strategy 2: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Description:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Rationale:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Specific Implementation:**

#### 

#### **Strategy 3: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Description:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Rationale:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Specific Implementation:**

## **5. ICT Tools Integration**

### **Primary Tool Selection**

**Tool 1:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Purpose:** ☐ Visualization ☐ Collaboration ☐ Assessment ☐ Engagement ☐ Practice

**Rationale:** Why this tool for this topic?

**How you'll use it:**

### **Secondary Tool (if applicable)**

**Tool 2:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Purpose:** ☐ Visualization ☐ Collaboration ☐ Assessment ☐ Engagement ☐ Practice

**Rationale:**

**How you'll use it:**

### **Cognitive Load Considerations**

*How do these tools help manage cognitive load?*

☐ Reduce extraneous cognitive load by: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

☐ Support intrinsic cognitive load by: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

☐ Enhance germane cognitive load by: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

## **6. Session Structure & Timing**

### **Session Breakdown**

*Design your revamped session considering attention spans (15-20 min focused blocks):*

**Total Session Duration:** \_\_\_\_\_\_\_\_\_\_\_\_\_ minutes

| **Time Block** | **Duration** | **Activity** | **Active Learning Element** | **Tool Used** |
| --- | --- | --- | --- | --- |
| **Opening** | \_\_\_\_\_ min |  |  |  |
| **Block 1** | \_\_\_\_\_ min |  |  |  |
| **Break** | \_\_\_\_\_ min |  |  |  |
| **Block 2** | \_\_\_\_\_ min |  |  |  |
| **Block 3** | \_\_\_\_\_ min |  |  |  |
| **Closing** | \_\_\_\_\_ min |  |  |  |

### **Attention Management Strategy**

*How will you maintain attention throughout the session?*

☐ Movement breaks every \_\_\_\_\_ minutes

☐ Change of activity every \_\_\_\_\_ minutes  
☐ Interactive elements every \_\_\_\_\_ minutes

☐ Other: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

## **7. Assessment Strategy**

### **Formative Assessment (During Class)**

*How will you check understanding in real-time?*

**Method 1:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **When:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Method 2:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **When:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

### **Summative Assessment**

*How will you measure the achievement of your LOs?*

**Assessment Type:** ☐ Quiz ☐ Project ☐ Presentation ☐ Peer Review ☐ Other: \_\_\_\_\_\_\_\_

**Description:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

### **Success Metrics**

#### **Immediate Success Indicators**

*How will you know the session was successful?*

☐ Student participation rate: Target \_\_\_\_\_%

☐ Completion of in-class activities: Target \_\_\_\_\_%

☐ Positive body language and engagement ☐ Quality of student questions/discussions ☐

Other: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

#### **Long-term Success Indicators**

*How will you measure lasting impact?*

☐ **Post-session survey** - What specific questions will you ask?

☐ **Follow-up assessment** -

When? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What format? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

☐ **Application in subsequent sessions** - How will you check?

☐ **Other:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

## **8. Implementation Plan**

### **Preparation Checklist**

*What do you need to prepare before implementing?*

☐ Tool setup and testing

☐ Material preparation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

☐ Room/space arrangement

☐ Student pre-work: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

☐ Backup plan for technical issues

☐ Other: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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### **Potential Challenges & Solutions**

**Challenge 1:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Solution:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Challenge 2:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Solution:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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### **Timeline for Implementation**

**When will you implement this revamped session?** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**When will you evaluate and refine?** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

### **Next Steps**

**How will you build on this success in other topics?**