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Designing University-Level Lesson Plans: Roles and Implementation Strategies

Đoàn Thị Loan (M.A.)[1*]
[1]Hung Vuong University- Phu Tho province

Abstract: A lesson plan functions as a strategic framework for educators, delineating the essential learning objectives for students and the instructional activities designed to facilitate effective knowledge acquisition during class. Grounded in a well-structured lesson plan, instructors can curate pedagogically sound learning experiences and formulate strategies to assess and respond to student progress. A thoughtfully developed lesson plan empowers educators to approach the classroom with greater assurance and to optimize opportunities for fostering meaningful and impactful learning experiences.

Keywords: Digital transformation, educational digital transformation, solutions for digital transformation in education.

Review Paper

***Corresponding Author:**
Đoàn Thị Loan (M.A.)
Hung Vuong University- Phu Tho province

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I. INTRODUCTION

The rapid advancement of science and technology has catalyzed profound transformations in higher education, particularly in pedagogical methodologies. One of the most recent and emerging trends in Vietnam is the implementation of session-based instruction at the university level. This instructional approach necessitates a more rigorous and purposeful design of lesson planning.

An effective lesson plan for higher education must holistically integrate and address three core components:

- Well-articulated learning objectives
- Engaging and pedagogically sound learning activities
- Robust assessment strategies to evaluate student learning outcomes

An impactful lesson plan transcends the role of a mere instructional outline. It not only delineates teaching goals, intended learning outcomes, and the means to achieve them, but also creates an interactive learning environment where both students and instructors engage in reciprocal learning and intellectual development. The success of a lesson is not solely measured by strict adherence to the plan, but by its capacity to foster meaningful engagement and adaptive learning.

The lesson planning process unfolds across a structured timeline, corresponding to three essential phases: pre-class preparation, in-class facilitation, and post-class reflection and evaluation.

II. Content

1. Pre-Class Preparation

The instructor's pre-class responsibilities involve the meticulous design of a lesson plan that articulates intended learning outcomes, outlines structured learning activities, details assessment strategies, and anticipates both the in-class flow and post-session engagement.

An effective lesson plan developed prior to class delivery should follow a series of deliberate and pedagogically informed steps:

Step 1: Articulation of Learning Objectives

Before crafting the instructional framework, the instructor must first identify and articulate clear, outcome-based learning objectives. These objectives should specify what learners will be able to demonstrate in terms of knowledge, skills, or competencies upon completion of the learning experience—rather than merely listing the topics to be covered. Ideally, learning objectives are expressed in accessible language, while remaining tightly aligned with the program's overarching learning outcomes and accreditation standards.

Bloom's Revised Taxonomy provides a well-established framework for designing learning objectives that are specific, measurable, and aligned with varying cognitive levels. This taxonomy serves as a foundational reference for developing outcomes that promote analytical thinking, knowledge application, and critical reflection.

Table 1.1: Bloom's Revised Taxonomy of Educational Objectives

Characteristic	Description
Clearly stated tasks	Avoids slang and overly complex vocabulary; uses specific, actionable verbs (e.g., describe, analyze, evaluate) rather than vague terms (e.g., appreciate, understand, explore).
Essential learning objectives	Focuses on core, fundamental learning goals of the course—objectives that students are expected to master, rather than secondary or optional ones.
Achievable	Realistic within the given timeframe and feasible with the available resources.
Demonstrable and measurable	Tangible and observable; can be assessed in a way that clearly indicates performance level and quality of achievement.
Aligned with course and program goals	Considers broader learning outcomes—those of the specific course, the academic program, and the institution as a whole.

Step 2: Designing Targeted Learning Activities

In the process of designing instructional activities, instructors should critically evaluate the types of engagements students must undertake to cultivate the requisite knowledge and skills necessary to demonstrate meaningful learning within the course. These activities should be intentionally aligned with the stated learning objectives and structured to offer authentic, interactive experiences that allow students to actively engage, apply concepts, and receive timely, constructive feedback on their progress toward mastery.

Time allocation is also a crucial element in activity planning. Instructors should thoughtfully estimate the duration required for each task, ensuring sufficient time for explanations, elaborative discussions, and transitions between segments. At the same time, they should be prepared to pivot as needed and incorporate strategies to gauge student comprehension in real time. To guide the design process, instructors may find it useful to reflect on the following pedagogical prompts:

- How will I effectively communicate the core concepts of the topic?
- What alternative approaches or representations can I use to deepen understanding?
- How can I sustain students' intellectual curiosity and engagement with the topic?
- Are there relevant real-world cases or scenarios that can contextualize the content and enhance comprehension?
- What cognitive or practical tasks must students undertake to construct a deeper understanding of the material?

A diverse array of instructional activities can be employed to foster active learning. These tasks constitute the specific, observable actions students must perform in order to achieve the intended learning outcomes. Below are illustrative examples of such activities. While not exhaustive, this list is intended to inspire instructors to thoughtfully craft high-impact learning experiences that are both pedagogically sound and contextually relevant to the objectives of a given lesson.

Table 1.2: Learning Activities

Type of Activity	Learning Activity	Description
Interaction with Content *Students are more likely to retain information presented in these formats when they are required to actively engage with the material in some meaningful way.*	Practice and Application	A prompt or task is presented to students, requiring a response. This may be time-limited or open-ended, depending on the instructional design.
	Lecture	Concepts are communicated verbally, often accompanied by visual aids (e.g., presentation slides). Exercises are used to assess students' level of understanding, and questions may take various forms such as multiple choice, short-answer, or essay formats.
	Quiz	Concepts are communicated verbally, often accompanied by visual aids (e.g., presentation slides). Exercises are used to assess students' level of understanding, and questions may take various forms such as multiple choice, short-answer, or essay formats.
	Student Presentations	Oral reports in which students share their research on a topic and assume a specific position and/or role.

Interaction with Digital Content Students engage in decision-making and visualize effects or outcomes within a virtual environment.	Game-Based Learning	Lessons designed to encourage collaboration or competition within a controlled virtual environment.
	Simulation	A replication or representation of a real-world phenomenon that allows for the exploration of relationships, contexts, and concepts.
Interaction with Digital Content Students engage in decision-making and visualize effects or outcomes within a virtual environment.	Debate	A verbal activity in which two or more differing perspectives on a topic are presented and argued.
	Discussion	A formal or informal conversation centered on a specific topic or question, in which the instructor facilitates student responses and encourages dialogue based on those responses.
	Feedback	Information provided by instructors or peers regarding aspects of an individual's performance or level of understanding.
	Guest Speaker	A presenter invited to share emotions, thoughts, ideas, and specific experiences related to a particular topic.
Problem Solving and Critical Thinking Present students with a problem, scenario, case, challenge, or design task, then require them to resolve it or provide opportunities for students to reflect on and apply their knowledge and information in novel and diverse ways.	Case Study	A detailed narrative (real or fictional) that students analyze to identify the underlying principles, practices, or lessons embedded within the story.
	Concept Mapping	A comprehensive narrative, whether real or fictional, analyzed by students to uncover the fundamental principles, practices, or insights it conveys.
	Real-World Project	A set of related tasks planned to be carried out within a defined timeframe and budget, along with other general or specific constraints.
Reflection The reflective process begins by examining how students think about what they already know and have experienced related to the topic being explored or studied. It involves analyzing why students perceive the topic in a particular way, as well as the assumptions, attitudes, and beliefs they hold and apply in their understanding of the subject matter.	Reflective Journal	Regular documentation of students' intellectual and emotional responses to a learning topic (e.g., weekly or after each class session).

It is essential that each learning activity within a lesson aligns with the lesson's learning objectives and meaningfully engages students in ways that are active, constructive, authentic, and collaborative. Ideally, students should be able to transfer what they have learned through these activities to other contexts and purposes.

Step 3: Planning for the Assessment of Student Learning Outcomes Assessment methods (e.g., exams, papers, problem sets, presentations) provide opportunities for students to demonstrate and apply the knowledge and skills outlined in the learning objectives, while also enabling instructors to offer targeted feedback that informs and supports further learning.

Planning assessments allows you to determine whether your students are actually learning. This process involves making informed decisions about:

- The number and types of assessment tasks that will best allow students to demonstrate achievement of the lesson's learning objectives.
- The criteria and standards that will be used to evaluate student performance.
- The role of students in the assessment process.
- The weighting of individual assessments and how they will be combined to determine the final course grade.
- The provision of constructive and timely feedback.

Step 4: Planning the Sequence of the Lesson

In his seminal work *"The Events of Instruction"*, Robert Gagné proposed a nine-step instructional model that serves as a meaningful framework for structuring effective lessons. By referencing Gagné's Nine Events of Instruction alongside Bloom's Revised Taxonomy of Educational Objectives, instructors can design engaging and purposeful lessons that foster deep learning.

Gain Attention:

Capture students' attention to ensure they are ready to engage with the content. This may include storytelling, posing a challenging question or problem, using group warm-up activities, referencing current news or case studies, showing YouTube videos, or utilizing technologies such as clickers or polls. Controversial

survey responses or surprising statements can also serve as strong openers.

Inform Learners of the Objectives:

Help students focus their thinking and actions on what they need to observe, hear, and do. Communicate the learning objectives clearly through tools such as presentation slides, course outlines, textbooks, or instructional guides. Describe expected outcomes in terms of the knowledge and skills students should acquire, along with the criteria by which their achievement will be assessed.

Stimulate Recall of Prior Knowledge:

Facilitate students' understanding of new content by connecting it to what they already know or have experienced. This could involve reviewing material from previous sessions, linking the results of earlier activities to the current topic, or asking students to reflect on their prior knowledge related to key concepts.

Present the Content:

Deliver the instructional material using a variety of methods—lecture slides, readings, activities, projects, or multimedia tools. Structure and sequence content carefully to avoid cognitive overload. Combine new material with review to reinforce learning. Use Bloom's Taxonomy to organize content in increasing levels of cognitive complexity.

Provide Learning Guidance:

Support students by offering cues and resources that enhance their ability to engage with the content efficiently. This minimizes frustration and wasted effort in searching for unclear or unreliable information. Examples of support include reminders, conceptual frameworks, learning strategies (e.g., concept maps, role-play, visualizations), and examples/non-examples to clarify key ideas.

Elicit Performance (Practice):

Allow students to apply what they've learned. This may include individual or group activities, deep questioning, collaborative exploration, or asking students to revisit and restate newly acquired knowledge. Provide opportunities for students to build their understanding by explaining, extending, or demonstrating their thinking.

Provide Feedback:

Give students feedback on their performance to guide their learning and simplify the learning process. Feedback can be offered at the group/class level—highlighting common mistakes, offering model responses, clarifying instructor expectations—or at the individual level. Encourage students to articulate how they will use the feedback in future learning sessions.

Assess Performance:

To evaluate the effectiveness of instruction, instructors must assess whether the intended learning outcomes have been achieved. Assessments should align with the previously stated objectives and may take various forms, such as quizzes, multiple-choice questions, essays, or other evaluation tools.

Enhance Retention and Transfer:

Help students apply what they've learned to new or personal contexts. This promotes long-term retention by personalizing the learning experience and creating opportunities for students to connect academic content to their own experiences. Strategies may include additional practice sessions, deeper reflection activities, or application-based tasks.

Step 5: Establish Realistic Timeframes

Grounded in clearly defined learning objectives, instructors should identify and prioritize the most essential goals—distilling them to two or three core concepts, ideas, or skills that students are expected to master by the end of each session. A concise set of prioritized objectives facilitates agile instructional decision-making and enables timely adjustments to the lesson plan when necessary.

Strategies for establishing realistic and effective timeframes include:

- Estimating the duration required for each activity and allocating slightly more time than anticipated to account for variability.
- Assigning specific time limits to each instructional component during the lesson planning process.
- Reserving the final minutes of the session for addressing remaining questions and synthesizing key takeaways.
- Preparing optional enrichment activities or discussion prompts to utilize any surplus time productively.
- Maintaining instructional flexibility—being prepared to adjust the lesson in response to students' engagement and comprehension, rather than rigidly adhering to the original plan.

Step 6: Design a Thoughtful Lesson Closure

The conclusion of a lesson offers a vital opportunity to consolidate student learning and reinforce key insights. It serves as an important pedagogical moment for both instructors and learners.

Instructors use the closure phase to:

- Assess student understanding and provide guidance for subsequent learning activities, allowing for adaptive refinement of future instruction.
- Reiterate and emphasize the session's core messages.

- Address any outstanding components of the lesson plan.
- Correct misunderstandings or misinterpretations.
- Preview upcoming content to build continuity across sessions.

Students benefit from lesson closure by having the opportunity to:

- Summarize, reflect on, and articulate their understanding of central concepts.
- Synthesize information into coherent frameworks.
- Integrate new ideas with previously acquired knowledge and theoretical models.
- Apply learned concepts to new or practical contexts, enhancing knowledge transfer.

Effective techniques for closing a lesson may include:

- Clearly articulating the session's main points.
- Inviting students to collaboratively summarize key content.
- Asking students to write brief reflections on what they consider the most significant takeaways.

2. During the Class Session

At this stage, the instructor should present the lesson plan to ensure students are informed about what they will be learning and engaging in throughout the session. Clearly articulating the structure and flow of the lesson enhances students' ability to stay oriented and follow the instructional sequence with greater clarity and purpose. An effectively organized classroom experience not only facilitates better retention but also enables learners to comprehend the pedagogical intent behind specific learning activities. The instructor may communicate the session outline by writing a concise agenda on the whiteboard or explicitly articulating the learning objectives and planned activities at the outset of the class**.**

3. After the Class Session

The conclusion of each class serves as a moment for reflective teaching practice, offering valuable insight into the alignment between instructional intentions and actual classroom outcomes. Instructors are encouraged to dedicate a few minutes post-session to critically evaluate what aspects of the lesson were effective, why they succeeded, and which elements could be improved or approached differently. Thoughtfully assessing the success or shortcomings of instructional delivery and learning activities enables more agile adaptations to unanticipated situations. When necessary, instructors should revise their lesson plans to better meet students' needs.

III. CONCLUSION

The development of a comprehensive lesson plan is a fundamental requirement in contemporary higher education, aligning with the broader goals of curriculum design and quality assurance. A structured approach—framed across the three instructional phases (before, during, and after the class session) and executed through six strategic steps—provides a concrete and actionable roadmap for educators to design and deliver pedagogically sound and learner-centered experiences.

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