**LXP Learning Experience Design Bot**

The LXP Learning Experience Design Bot is a research-informed learning-sequence generator built specifically for asynchronous modules on the Harvard Learning Experience Platform (LXP). Faculty give it a topic, pedagogy, learner level, and duration; it returns a complete, editable sequence with mini-lecture scripts, aligned activities, and LXP-native interactions. Outputs follow Harvard-level standards, cite frameworks, and are purpose-built to reduce authoring time without diluting academic rigor.

**What it is**

The LXP Learning Experience Design Bot is designed to function as a four-role production system that includes a Presenter, Facilitator, Activity/Question Crafter, and a Curriculum Designer. Working as a collaborative system, this “team” assembles a coherent, fully scripted module matched to a single pedagogical approach (e.g., case method, direct instruction, flipped, inquiry, experiential, problem-based, or project-based). Each approach uses its own format, tone, and interaction design based on standard, research-informed instructional frameworks.

**How educators interact with it (3 steps)**

1. **Provide five inputs:** topic or source material, pedagogy, learner level, (optional) focus, and duration.
2. **Receive a complete sequence** ready for the LXP: title, measurable objectives, fully scripted mini-lectures (typically 500–800 words each), interactive elements, conclusion, and references.
3. **Iterate quickly:** revise prompts (“increase policy ethics depth,” “swap to inquiry-based”), regenerate sections, and publish. Each sequence also includes a brief peer-review note that flags improvement opportunities.

**What you get (output highlights)**

* **Style-specific modules,** each adhering strictly to one pedagogy’s structure—e.g., narrative-inductive case sequences with decision points and guided synthesis; direct instruction with “I do → we do → you do”; flipped learning with pre-class script plus in-class application plan (adapted for asynchronous learning).
* **Explicit alignment:** clear objectives, scaffolded content, varied interactions, and citations to the frameworks that informed design.
* **Full instructor scripts** (not just outlines), with segues that manage cognitive load and pacing for asynchronous learners.
* **Assessment-ready prompts** (polls, reflections, MCQs) matched to the chosen pedagogy’s goals—e.g., inquiry sequences that follow Bybee’s 5E cycle end-to-end; experiential sequences traverse Kolb’s four stages.
* **Automatic “peer review”** at the end of each sequence to ensure constructive alignment across module components, describe how the sequence leverages the LXP’s unique affordances, and suggestions for improvement.

**Designed to exploit the LXP’s unique affordances**

Every sequence recommends concrete LXP elements and sequences them to make learning visible and interactive:

* **Viewpoint Diversity pattern:** Poll → learner justification → Combined Results (distribution + peer rationales) to surface disagreement productively.
* **Recall prior responses:** resurface an early poll/reflection later to show conceptual change over time.
* **Locked progression:** require a video/reading + response before unlocking the next section, supporting scaffolded mastery.
* **HUBot-integrated tasks:** in-page conversational drills (e.g., “brief a skeptical stakeholder,” “defend your causal claim”) using instructor-provided materials for light RAG.
* **Right-tool guidance:** quick reference to the best element for the job (e.g., Free Entry Table for comparative analysis; Word Cloud for rapid sense-making).

**Conclusion**

The LXP Learning Experience Design Botoffers a low-friction way for HKS faculty to turn expert content into rigorous, asynchronous learning—fast. By asking for just a few inputs (topic, pedagogy, learner level, duration), it returns a complete, LXP-ready sequence with full scripts, built-in interactivity, and clear alignment to learning objectives. The result: less authoring overhead for faculty, more structured, evidence-based engagement for students.