BOPPPS Lesson Planning Template

Course: ML-Base Research Tools for Research Process **Title: Scientific Resources Searching Tools**	**Date: Sep – 11 - 2023**

Bridge: Starting the search process for academic resources is one of the most challenging steps when beginning research. Many graduate students struggle to conduct a thorough search effectively. The objective of this lecture is to introduce students to a machine learning-based research tool that will assist them in finding papers and articles more efficiently.

Outcomes: By the end of this lecture, students will have gained familiarity with using the software semantic scholar to aid them in searching for academic papers. Furthermore, they should not only be able to apply the tool and compare it with other familiar search engines.

Pre-Assessment:	**Materials:**
1. Ask students to search for academic resources? 2. What challenges do they have? 3. This should be a short group discussion to provide a base for the lecture.	1- Power-point slide. 2- Demo the software.

Participatory Activity:

Time	Instructor Activities	Learner Activities	Resources
1-2	Direct the conversation	Group talk on their experience	
2-6	Talking over introductory PowerPoint slides	Mostly listening.	PowerPoint Slides
6-8	Demo the software showing its different features.	They could follow the demo on their machines if they want.	A browser
8-10	Direct conversation on how more this tool could be helpful in their research process.	Participating in the discussion by Sharing ideas about other ways of using the software.	--

Post-Assessment:

- It is expected that students utilize the software system to improve their research process and gain a comprehensive understanding of its advantages.

Summary:

- Review the main objective of the lecture.
- Review the key points regarding the importance of software as stated by the instructor.
- Review the key points regarding the importance of software as shared by the students.

Notes for Next Time:

- For the next lecture, the objective is to teach how to work faster on the literature review.

Source: 2018 ISW Handbook; Beta Version February 2018 Part