BOPPPS Lesson Planning Template

Course: ML-Base Research Tools for Research Process **Title: Scientific Resources Searching Tools**	**Date: Sep – 21 - 2023**

Bridge: Starting a research project can be a bit overwhelming, especially when it comes to understanding the existing work in the area of research you're planning to work on. You need to figure out what the open problems are and navigate through a bunch of papers to get a sense of the research history. But, don't worry, we're here to help you out! We'll provide you with some information on software tools that can simplify this part of your research journey.

Outcomes: By the end of this lecture, should be able to:

- Describe the importance of using this online research tool by explaining the method could contribute to their research process
- Apply the research tool in their research process by using it to draw a logical timeline between research papers.
- Evaluate the research tool by properly comparing it to similar alternative software after finishing the assignment.

Pre-Assessment:

1. Where do you find your articles?
2. What is your strategy to look for literature?

Materials:

1- Power-point slide.
2- Demo the software (search term).

Participatory Activity:

Time	Instructor Activities	Learner Activities	Resources
1	Direct the conversation	Group talk on their experience	
2-5	Talking over introductory PowerPoint slides	Mostly listening.	PowerPoint Slides
5-8	Demo the software showing its different features.	They could follow the demo on their machines if they want.	Follow the steps.
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:

- **Based on what is described in the research outcome.**

Summary: (Not going to include) will be part of the discussion.

- 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 read papers faster using other research tools.

Source: 2018 ISW Handbook; Beta Version February 2018 Part 2