**Lesson Plan Template**

**Lesson plan no:** 02

**Name of the student teacher:** Sonam Wangmo

**Year/course:** Third Year **Period:** 2nd Period **Subject:** Data Structures, Aware of Problem based learning

**Topic:** Stack Data Structure

**Time:** 20 minutes

**Previous Knowledge of the students:** Data Structure

**Teaching skills/Method:** Differentiation Instructions, Questioning, Organize teaching learning materials, Seven C’s(Context), Problem based Learning.

**Teaching Learning Materials (List resources required for each activity (Textbooks; journal articles; worksheets; handouts etc.)** Laptop and projector.

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| **Learning Objectives/outcomes**  By the end of the lesson, the student should be able to: | **Assessment**  (How are you going to know if the lesson objective have been achieved? What will you do to find out? What assessment techniques/tools are you going to use?) |
| Cognitive  Define stack data structure and its principle. | Verbal Q&A |
| Psychomotor  Write the solution of the problem presented. | Demonstration and peer assessments. |
| Affective  Reflect the real-world applications of stack | Verbal Q&A |

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| Teacher’s activity | learners’ activity |
| **Lesson introduction** (Gaining attention, prior knowledge, lesson outline and lesson objective)  Greeting  Introduce Learning Outcomes. | Listen Actively. |
| **Lesson Development:** (Gaining attention, teacher’s information input, activity instruction, checking instruction, monitoring, follow-up and assessment)  Teacher will give the concepts of stacks and its’ applications using PowerPoint.  Then teacher will show the demonstration of stack online using this link. <https://ds1-iiith.vlabs.ac.in/exp/stacks-queues/stacks/stackdemo.html>  Students to be paired to allow collaboration. Students will discuss on the unique solutions of problem presented and present in the class. (5 + 5 Mins)  Teacher to ask for volunteers.  Teacher will then proceed with the discussion. | Students will listen actively.  Students to reflect.  Students to carry out instruction and return to class within 5 minutes. Groups will then present their solution using whiteboard.  Students to actively participate. |
| **Lesson Closure:** (Gaining attention, evaluation and extended learning)  Teacher will ask students to summarize the concepts learnt in the class using slido and teacher will give topics to be introduced in the next class. | Students to listen attentively and respond accordingly using slido. It is expected that 2/4 students will respond. Students to note down the points. |