**SEMESTER AUGUST – NOVEMBER 2020**

**CS6110 - OOAD – LABORATORY:**

**Guidelines for submitting mini case study proposal:**

**(To get approval in the Lab on Saturday 19-09-2020)**

1.  Form 2 member teams.

2. Consider any real-world problem or use case from the recent times for which a computational solution is needed

3.    The problem shall be complex enough (check for the complexity attributes) and needs detailed analysis

4.    Problem identified shall be unique and shall not overlap with that of the others

5.    Describe the problem thoroughly such that its key requirements can be easily picked up. (give references wherever applicable)

6.    Start with a few System Use Cases to explain the key system behavior (by abstraction)

**Get approval (CONVERT YOUR proposal DOCUMENT TO PDF and present it)**

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**After getting approval:**

7. Give a weekly schedule for the activities planned, (include design iterations in the schedule) Every weekly work shall be documented to include (justification for such a design, Concepts used, patterns followed if any..)

8. Start doing your designs in the order Use Cases, Domain Modeling, Class Modeling, Sequence, State Chart and Activity Modeling (approximately one model per week).

9. Create your models in your observation notebooks or on any document editor of your choice.

10. Iterate over the designs after completing each model

11. After ensuring that the models are nearly complete, transfer your designs to a CASE tool like Argo UML or Star UML for your demonstrations.

12. Use the tools said above to automatically convert your designs to code in the target language of your choice c++ or Java.

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Ex: 1) Automatic monitoring of patients health using sensors, and suggesting necessary action:

2) Autonomous movement of vehicles within a limited zone for transporting people.

3) Software for proctored exams