

## BSc (Hons) in Information Technology

### Year 1

#### Lab 02

**IT1060 – Software Process Modeling**

**Semester 2, 2024**

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**Propose which software development process model is suitable for the following scenarios. Give Reasons for your choice.**

- a. An Inventory management system for an organization.
- b. A total health care management system linking all the hospitals, laboratories, and doctors in Sri Lanka. Then patients can find all the health care services in one place. Ministry requires an initial version of the system to be launched at a particular day. The system can be completed gradually linking all hospitals, health care services, laboratories, and doctors.
- c. Your company has an idea to develop a Household Robot. This robot will assist in almost all the housekeeping activities such as cleaning, painting, washing clothes and cooking. Your team has experience in developing assistive robots prior to this. But this new robot will be a more sophisticated product. Initially, you must identify suitable business partners to sponsor / manufacture the robots for sale.
- d. A multiple rocket launcher control system for U.S air force. (Unfortunately, your team has absolutely no experience of developing this type of software.)
- e. A simple data processing project.
- f. A data entry system for office staff who have never used computers before. The user interface and user-friendliness are extremely important.
- g. A spreadsheet system that has some basic features and many other desirable features that use these basic features.
- h. A Web-site for an on-line store which has a long list of desired features it wants to add, and it wants a new release with new features to be done very frequently.”
- i. A Corona-detecting system is a technologically challenging system that has some innovative concepts. Also, client expects quick solution to prevailing condition of the current context.
- j. BMW Company intends to manufacture child safety unit in first time history.
- k. Sri Lanka needs an Election Management System in next two months.

**Activity 01**

Explore V model and compare it with waterfall model.

**Activity 02**

What factors should be considered when choosing the best SDLC model?

**Activity 03**

Identify main features of Unified Process (UP) model and compare with Incremental model.