Republic of the Philippines
Department of Education
REGION III
SCHOOLS DIVISION OFFICE OF NUEVA ECIJA

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LEARNING ACTIVITY SHEET
SPECIAL PROGRAM IN ICT 10
INFORMATION SYSTEM AND RESEARCH 10
Third Quarter, Week 1

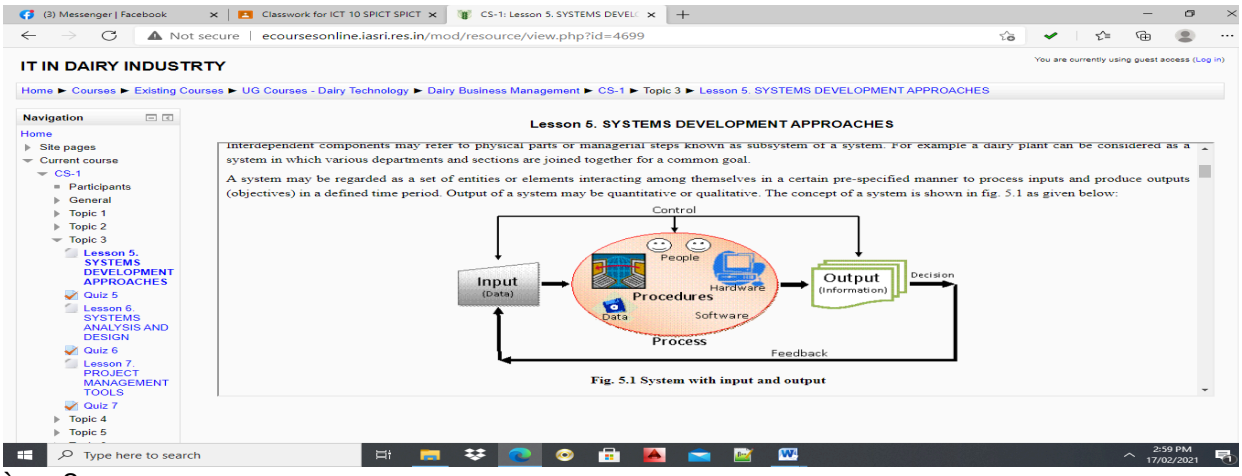
Name of Learner:
_____ Date:_____

Grade Level /Section: _____

APPROACHES TO SYSTEMS DEVELOPMENT

BACKGROUND INFORMATION FOR LEARNERS

System is possibly the most overused word in our vocabulary. The common feature, which all systems share us that they are collection of elements integrated to achieve the required goals. A system exists because it is designed to achieve one or more objectives. A system may be regarded as a set of entities or elements interacting among themselves in a certain pre-specified manner to process inputs and produce outputs (objectives) in a definite time period. The concept of a system is shown below:



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In general an information system accepts input data and processes it to produce information as output for decision making. System is evaluated on the produced output and feedbacks are given to improve the system.

Types of System

Systems have been classified in different ways. Common classifications are:

I. Physical and Abstract System
II. Deterministic and Probabilistic System
III. Open and Closed System
IV. Information System

System Development Approaches

Developing a successful information system for business application is a challenging task. System development process includes the activities like understanding, planning, designing, implementation and maintenance of

systems. System development approaches have undergone reforms as per the changes in software development technology. Software technology has changed from modular to structure and now to object oriented technology. Basic goal in system development process is to produce high quality information system for solving business applications. It provides a framework that is used to structure, plan and control the process of developing a system. Various methods have been evolved and being practiced over the years. A few major methods are:

I. System Development Life Cycle method (or traditional method))
II. Structured Analysis Development method
III. Waterfall method
IV. Prototype method
V. Spiral method
VI. Object oriented Development method

Each of these methods has its own strengths and weaknesses. One method may not be suitable for all type of systems. It depends on technical nature of a system, organizational requirements, knowledge of developers etc. Basically all these methods follow either *linear* or *iterative* approach or combination of these two approaches for development of systems.

LEARNING COMPETENCY

Explain approaches to systems development

ACTIVITIES

ACTIVITY 1

Direction: Answer the following questions briefly.

1. **Describe how system works?**

   _____

   _____

   _____

2. **Explain activities in systems development?**

_____

_____

_____

ACTIVITY 2

Direction: Draw a diagram that will best illustrate how a system works in ICT.

REFERENCES

CS-1: Lesson 3. TYPES OF INFORMATION SYSTEMS (iasri.res.in)

http://ecoursesonline.iasri.res.in/mod/resource/view.php?id=4699

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