

B.Ed Sem 2

Techniques, methods and approaches of pedagogy

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Unit 1: Teaching Learning System

1.1 Teaching: Systems approach

Introduction

- ❖ The education system, which was once very easy ; today, has become very complex.
- ❖ System approach has been introduced in the field of education to manage, control and improve the process of education

MEANING OF SYSTEM

- ✓ The word "System" from latin word "systema"
- ✓ which means: a part made up of multiple parts or members or mutually joined things.
- ✓ A system is a set of objects or elements that interact to achieve a specific goal .

DEFINITION



“SYSTEM” is a systematic organization of the elements that operate in a unique way.”

-Craw Ford Rob;

“ A SYSTEM is the set of interrelated and interdependent elements”.

-R. L. Acoff



Types of System

1. Natural System

Ex: - Solar System , Geological System

2. Man-made System

Ex:- Transport System , Communication system , Financial System

Characteristics of "system

- ✓ System is a general term.
- ✓ It is applicable to various fields including education.
- ✓ It is dynamic.
- ✓ It functions as a whole and achieves better results.
- ✓ It is integrated whole comprising inter related.



System Approach

- ✓ System approach is a systematic attempt to coordinate all aspects of a problem towards specific objectives.
- ✓ A systems approach is a technique based on the systems concepts.
- ✓ It acts as a link between hardware and software approach.

Define of System approach

“System approach to education is defined as a particular method of exploration to find effective ways of talking about, ways of talking about, designing and organizing learning situation in practice.”

- Neils



PROCESS OF A SYSTEM



PARAMETERS OF A SYSTEM

OUTPUT

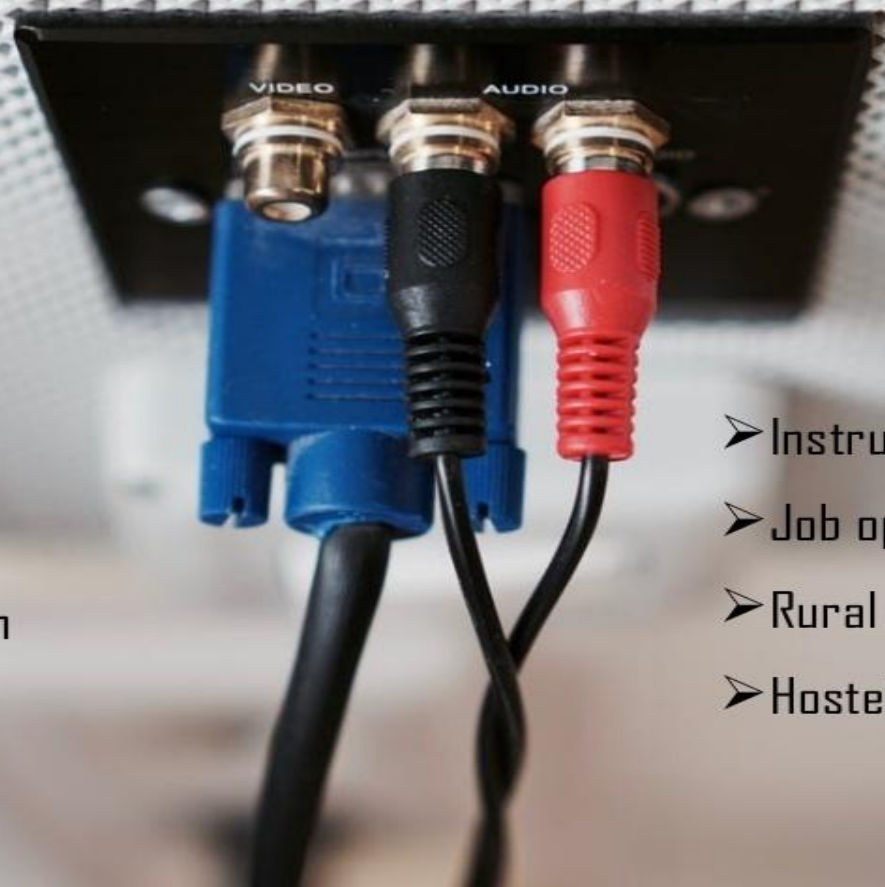
PROCESS

ANALYSIS AND FEEDBACK

INPUT



INPUT



- Student
- Teacher
- Administration
- Curriculum

- Instructional material
- Job opportunity
- Rural and urban local institute
- Hostel facility

Process

- ✓ Process refers to what goes on in a system
- ✓ Curriculum
- ✓ Institute
- ✓ Facility
- ✓ Teachers

Output

Output Is The Product Of A System.

Monitored Output

Which Is Used To Revise,

Improve And Evaluate

Analysis and feedback

- Monitored environment
- provides feedback to the learner and teacher.
- A system operates in a physical and social environment.
- A system cannot operate beyond the limits and boundaries of its environment context and constraints.

STEPS INVOLVED IN SYSTEM APPROACH

➤ SYSTEM ANALYSIS

➤ SYSTEM DESIGN AND DEVELOPMENT

➤ SYSTEM OPERATION AND EVALUATION

CHARACTERISTICS OF SYSTEM APPROACH

- ✓ Centralized On The Learner
- ✓ Emphasize On Evaluation
- ✓ Interrelated Elements
- ✓ Fast Feedback
- ✓ Independency
- ✓ Evaluation Of Resources



ADVANTAGES

- ❖ **Systems Approach Helps To Identify The Suitability Of The Resource Material To Achieve The Specific Goal.**
- ❖ **Technological Advance Could Be Used To Provide Integration Of Machines, Media And People For Attaining The Defined Goal.**
- ❖ **It Helps To Assess The Resource Needs, Facilities In Relation To Quantities, Time And Other Factors.**
- ❖ **It Permits An Orderly Introduction Of Components Demonstrated To Be Required For Systems Success In Terms Of Student Learning.**
- ❖ **It Avoids Rigidity In Plan Of Action As Continuous Evaluation.**

LIMITATIONS OF SYSTEMS APPROACH

- ✓ Old ways are difficult to erase.
- ✓ Involves hard work.
- ✓ Some are not prepared for the extra load.
- ✓ Lack of understanding.
- ✓ Teachers and administrators are still not familiar with systems approach.

ROLE OF A TEACHER IN SYSTEM APPROACH

- **Assessment in input**
- **Data collection**
- **Alternatives**
- **Analysing objectives**
- **Discussions**
- **Activations**
- **Feedback data**
- **Modification of components and processes**
- **Assessment**
- **Modification of system**



System approach and solution of the “education problems”:

- ✓ Identification of the problem
- ✓ Defining the objectives
- ✓ Analysis of the task
- ✓ System analysis
- ✓ System design 'n' development
- ✓ System evaluation
- ✓ Improvement of the system



CONCLUSION

- ✓ In education, this means planned and organized use of all available learning resources, including audio-visual media, to achieve the desirable learning objectives by the most efficient means possible.
- ✓ We conclude that it is improving quality of education and to maintain control but it is complex.
- ✓ So we have to find ways to make this approach handy.