## System Approach to Education

### Meaning of System
- Set of interrelated parts.
- Parts have unified whole.
- Each and every part is equally important in constituting the whole.
  - Typical examples:
    - Human body, cars and university

### Types of Subsystem

<table>
<thead>
<tr>
<th>Closed system</th>
<th>Open system</th>
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<tbody>
<tr>
<td>It is self-sufficient and self-regulatory.</td>
<td>Continuous interaction with the environment.</td>
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<tr>
<td>No interaction with environment.</td>
<td>Receives inputs from external environment, processes then and supplies output to external environment.</td>
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<tr>
<td>No exchange of material with environment.</td>
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### Characteristics of a Good System
- Effectiveness
- Efficiency
- Dependability
- Flexibility
- Acceptability

### Definition of System Approach

*Twelkier* — Systems approach is a management tool that allows individuals to examine all aspects of the organization, to interrelate the effects of one set of decisions to another and to optimally use all the resources at hand to solve the problem.

### Subsystem of an Educational Institution.

<table>
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<tr>
<th>Technical subsystem</th>
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<td>Includes task activities, skills, techniques, strategies, methodologies, knowledge etc. required to perform the job.</td>
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<th>Social subsystem</th>
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<td>Consist of individual and their mutual social interaction, includes status, group norms and values. Greatly influences the behaviour of members of an institution.</td>
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Subsystem of an Educational Institution.

- Structural subsystem implies the interrelationships among people designed formally to accomplish coordination among them. It also includes physical setting or the environment in which work has to be done.
- Managerial subsystem
- Uses processes like review, control, direct and evaluation.
- Takes corrective actions on the basis of the feedback received.

Steps involved in using System Approach

- Input
- Formulation of objectives
- Pre assessment of the pupil’s entry behaviour
- Desirable attitude and aptitude of pupils is to be considered
- Content to be taught and instructional material to be used is planned.
- Cost factor.

Process

a) Deciding suitable teaching strategies/methods
- Selection of appropriate media and material.
- Selection of appropriate evaluation procedures.
- Formulating a scheme of comprehensive programmes/timetable for the working of the system in relation to its parameters and stimulated objectives.

b) Systems operation/implementation
- The role and function of the elements teaching, pupils, and material resources.

c) Evaluation of learning outcomes/objectives

Output

- Attainment of objectives.
- If the objectives are achieved as per desired the system is allowed to continue.
- If the objectives are not achieved certain modification need to be made in the system.
- The system in this case can be restructured, reorganized and its function may be replanned for better results.
Importance of System Approach for Education

1. Framework for planning, decision making control and problem solving.
2. Throws light on dynamic nature of management.
3. Provides a unified focus to institutional efforts.
4. Helps to look at institution as a whole and not as parts.
5. Helps the manager to identify the critical sub systems and their interaction with each other.
6. Helps in improving institution.

7. Helps in bringing efficiency in school administration and management.
8. Helps in systematic educational planning.
10. Helps in improving examination and evaluation system.
11. Maintaining, controlling and improving the guidance services.
12. Designing, controlling and improving non-formal and adult education system.

Assignment

- Significance of systems approach to management.
- Advantages of system approach to Education management.
- What is system approach in education? How is it used in educational management.
- Need, importance and objectives of educational management.
- Illustrate the significance of educational functions of educational management with examples.