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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

NAME OF THE SUBJECT : PRINCIPLES OF MANAGEMENT

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SYLLABUS

GE3751 PRINCIPLES OF MANAGEMENT

UNIT I INTRODUCTION TO MANAGEMENT AND ORGANIZATIONS

Definition of Management – Science or Art – Manager Vs Entrepreneur - types of managers -managerial roles and skills – Evolution of Management – Scientific, human relations, system and contingency approaches – Types of Business organization - Sole proprietorship, partnership, company-public and private sector enterprises - Organization culture and Environment – Current trends and issues in Management.

UNIT II PLANNING

Nature and purpose of planning – planning process – types of planning – objectives – setting objectives – policies – Planning premises – Strategic Management – Planning Tools and Techniques – Decision making steps and process.

UNIT III ORGANISING

Nature and purpose – Formal and informal organization – organization chart – organization structure – types – Line and staff authority – departmentalization – delegation of authority – centralization and decentralization – Job Design - Human Resource Management – HR Planning, Recruitment, selection, Training and Development, Performance Management, Career planning and management.

UNIT IV DIRECTING

Foundations of individual and group behavior – motivation – motivation theories – motivational techniques – job satisfaction – job enrichment – leadership – types and theories of leadership – communication – process of communication – barrier in communication – effective communication – communication and IT.

UNIT V CONTROLLING

System and process of controlling – budgetary and non-budgetary control techniques – use of computers and IT in Management control – Productivity problems and management – control and performance – direct and preventive control – reporting.

TEXTBOOKS:

1. Stephen P. Robbins & Mary Coulter, —Management Prentice Hall (India) Pvt. Ltd., 10th Edition, 2009. 3 2. JAF Stoner, Freeman R.E and Daniel R Gilbert —Management Pearson Education, 6th Edition, 2004.

REFERENCES:

- 1. Stephen A. Robbins & David A. Decenzo& Mary Coulter, —Fundamentals of Management Pearson Education, 7th Edition, 2011.
- 2. Robert Kreitner&MamataMohapatra, Management, Biztantra, 2008.
- 3. Harold Koontz & Heinz Weihrich Essentials of management | Tata McGraw Hill, 1998.
- 4. Tripathy PC & Reddy PN, —Principles of Management , Tata McGraw Hill, 1999

EVOLUTION OF MANAGEMENT

The practice of management is as old as human civilization. The ancient civilizations of Egypt (the great pyramids), Greece (leadership and war tactics of Alexander the great) and Rome displayed the marvellous results of good management practices. The origin of management as a discipline was developed in the late 19th century. Over time, management thinkers have sought ways to organize and classify the voluminous information about management that has been collected and disseminated. These attempts at classification have resulted in the identification of management approaches. The approaches of management are theoretical frameworks for the study of management. Each of the approaches of management are based on somewhat different assumptions about human beings and the organizations for which they work. The different approaches of management are

- a) Classical approach
- b) Behavioural approach,
- c) Quantitative approach,
- d) Integrative approach.

a) THE CLASSICAL APPROACH:

The classical approach is the oldest formal approach of management thought. Its roots pre-date the twentieth century. The classical approach of thought generally concerns ways to manage work and organizations more efficiently. Three areas of study that can be grouped under the classical approach are scientific management, administrative management, and bureaucratic management.

(i) Scientific Management.

Frederick Winslow Taylor is known as the father of scientific management. Scientific management (also called Taylorism or the Taylor system) is a theory of management that analyzes and synthesizes workflows, with the objective of improving labor productivity. In other words, Traditional rules of thumb are replaced by precise procedures developed after careful study of an individual at work.

(ii) Administrative Management.

Administrative management focuses on the management process and principles of management. In contrast to scientific management, which deals largely with jobs and work at the individual level of analysis, administrative management provides a more general theory of management. Henri Fayol is the major contributor to this approach of management thought.

(iii) Bureaucratic Management.

Bureaucratic management focuses on the ideal form of organization. Max Weber was the major contributor to bureaucratic management. Based on observation, Weber concluded that many early organizations were inefficiently managed, with decisions based on personal relationships and loyalty. He proposed that a form of organization, called a bureaucracy, characterized by division of labor, hierarchy, formalized rules, impersonality, and the selection and promotion of employees based on ability, would lead to more efficient management. Weber also contended that managers' authority in an organization should be based not on tradition or charisma but on the position held by managers in the organizational hierarchy.

b) THE BEHAVIORAL APPROACH:

The behavioral approach of management thought developed, in part, because of perceived weaknesses in the assumptions of the classical approach. The classical approach emphasized efficiency, process, and principles. Some felt that this emphasis disregarded important aspects of organizational life, particularly as it related to human behavior. Thus, the behavioral approach focused on trying to understand the factors that affect human behavior at work.

(i) Human Relations.

The Hawthorne Experiments began in 1924 and continued through the early 1930s. A variety of researchers participated in the studies, including Elton Mayo. One of the major conclusions of the Hawthorne studies was that workers' attitudes are associated with productivity. Another was that the workplace is a social system and informal group influence could exert a powerful effect on individual behavior. A third was that the style of supervision is an important factor in increasing workers' job satisfaction.

(ii) Behavioral Science.

Behavioral science and the study of organizational behavior emerged in the 1950s and 1960s. The behavioral science approach was a natural progression of the human relations movement. It focused on applying conceptual and analytical tools to the problem of understanding and predicting behavior in the workplace. The behavioral science approach has contributed to the study of management through its focus on personality, attitudes, values, motivation, group behavior, leadership, communication, and conflict, among other issues.

c) THE QUANTITATIVE APPROACH:

The quantitative approach focuses on improving decision making via the application of quantitative techniques. Its roots can be traced back to scientific management.

(i) Management Science (Operations Research)

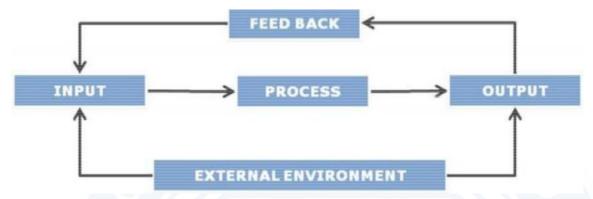
Management science (also called operations research) uses mathematical and statistical approaches to solve management problems. It developed during World War II as strategists tried to apply scientific knowledge and methods to the complex problems of war. Industry began to apply management science after the war. The advent of the computer made many management science tools and concepts more practical for industry.

(ii) Production And Operations Management.

This approach focuses on the operation and control of the production process that transforms resources into finished goods and services. It has its roots in scientific management but became an identifiable area of management study after World War II. It uses many of the tools of management science. Operations management emphasizes productivity and quality of both manufacturing and service organizations. W. Edwards Deming exerted a tremendous influence in shaping modern ideas about improving productivity and quality. Major areas of study within operations management include capacity planning, facilities location, facilities layout, materials requirement planning, scheduling, purchasing and inventory control, quality control, computer integrated manufacturing, just-in-time inventory systems, and flexible manufacturing systems.

d) SYSTEMS APPROACH:

The simplified block diagram of the systems approach is given below. The systems approach focuses on understanding the organization as an open system that transforms inputs into outputs. The systems approach began to have a strong impact on management thought in the 1960s as a way of thinking about managing techniques that would allow managers to relate different specialties and parts of the company to one another, as well as to external environmental factors. The systems approach focuses on the organization as a whole, its interaction with the environment, and its need to achieve equilibrium



e) CONTINGENCY APPROACH

The contingency approach focuses on applying management principles and processes as dictated by the unique characteristics of each situation. It emphasizes that there is no one best way to manage and that it depends on various situational factors, such as the external environment, technology, organizational characteristics, characteristics of the manager, and characteristics of the subordinates. Contingency theorists often implicitly or explicitly criticize the classical approach for its emphasis on the universality of management principles; however, most classical writers recognized the need to consider aspects of the situation when applying management principles.

CONTRIBUTION OF FAYOL AND TAYLOR

F.W. Taylor and Henry Fayol are generally regarded as the founders of scientific management and administrative management and both provided the bases for science and art of management

Taylor's Scientific Management

Frederick Winslow Taylor well-known as the founder of scientific management was the first to recognize and emphasis the need for adopting a scientific approach to the task of managing an enterprise. He tried to diagnose the causes of low efficiency in industry and came to the conclusion that much of waste and inefficiency is due to the lack of order and system in the methods of management. He found that the management was usually ignorant of the amount of work that could be done by a worker in a day as also the best method of doing the 19 job. As a result, it remained largely at the mercy of the workers who deliberately shirked work. He therefore, suggested that those responsible for management should adopt a scientific approach in their work, and make use of "scientific method" for achieving higher efficiency. The scientific method consists essentially of Observation— Measurement— Experimentation and— Inference.— He advocated a thorough planning of the job by the management and emphasized the necessity of perfect understanding and co-operation between the management and the workers both for the enlargement of profits and the use of scientific investigation and knowledge in industrial work. He summed up his approach in these words:

- Science, not rule of thumb
- Harmony, not discord
- Co-operation, not individualism
- Maximum output, in place of restricted output
- The development of each man to his greatest efficiency and prosperity.

Elements of Scientific Management:

The techniques which Taylor regarded as its essential elements or features may be classified as under:

- 1. Scientific Task and Rate-setting, work improvement, etc.
- 2. Planning the Task.
- 3. Vocational Selection and Training
- 4. Standardization (of working conditions, material equipment etc.)
- 5. Specialization
- 6. Mental Revolution.

- 1. <u>Scientific Task and Rate-Setting (work study)</u>: Work study may be defined as the systematic, objective and critical examination of all the factors governing the operational efficiency of any specified activity in order to effect improvement. Work study includes.
- (a) Methods Study: The management should try to ensure that the plant is laid out in the best manner and is equipped with the best tools and machinery. The possibilities of eliminating or combining certain operations may be studied.
- (b) Motion Study: It is a study of the movement, of an operator (or even of a machine) in performing an operation with the purpose of eliminating useless motions.
- (c) Time Study (work measurement): The basic purpose of time study is to determine the proper time for performing the operation. Such study may be conducted after the motion study. Both time study and motion study help in determining the best method of doing a job and the standard time allowed for it.
- (d) Fatigue Study: If, a standard task is set without providing for measures to eliminate fatigue, it may either be beyond the workers or the workers may over strain themselves to attain it. It is necessary, therefore, to regulate the working hours and provide for rest pauses at scientifically determined intervals.
- (e) Rate-setting: Taylor recommended the differential piece wage system, under which workers performing the standard task within prescribed time are paid a much higher rate per unit than inefficient workers who are not able to come up to the standard set.
- 2. <u>Planning the Task:</u> Having set the task which an average worker must strive to perform to get wages at the higher piece-rate, necessary steps have to be taken to plan the production thoroughly so that there is no bottlenecks and the work goes on systematically.
- 3. <u>Selection and Training:</u> Scientific Management requires a radical change in the methods and procedures of selecting workers. It is therefore necessary to entrust the task of selection to a central personnel department. The procedure of selection will also have to be systematised. Proper attention has also to be devoted to the training of the workers in the correct methods of work.
- 4. **Standardization:** Standardization may be introduced in respect of the following.
- (a) Tools and equipment: By standardization is meant the process of bringing about uniformity. The management must select and store standard tools and implements which will be nearly the best or the best of their kind.
- (b) Speed: There is usually an optimum speed for every machine. If it is exceeded, it is likely to result in damage to machinery.
- (c) Conditions of Work: To attain standard performance, the maintenance of standard conditions of ventilation, heating, cooling, humidity, floor space, safety etc., is very essential.
- (d) Materials: The efficiency of a worker depends on the quality of materials and the method of handling materials.
- 5. **Specialization:** Scientific management will not be complete without the introduction of specialization. Under this plan, the two functions of 'planning' and 'doing' are separated in the organization of the plant. The `functional foremen' are specialists who join their heads to give thought to the planning of the performance of operations in the workshop. Taylor suggested eight functional foremen under his schemeof functional foremanship.
- (a) The Route Clerk: To lay down the sequence of operations and instruct the workers concerned about it.
- (b) The Instruction Card Clerk: To prepare detailed instructions regarding different aspects of work.
- (c) The Time and Cost Clerk: To send all information relating to their pay to the workers and to secure proper returns of work from them.
- (d) The Shop Disciplinarian: To deal with cases of breach of discipline and absenteeism.
- (e) The Gang Boss: To assemble and set up tools and machines and to teach the workers to make all their personal motions in the quickest and best way.
- (f) The Speed Boss: To ensure that machines are run at their best speeds and proper tools are used by the workers.
 - (g) The Repair Boss: To ensure that each worker keeps his machine in good order and maintains

cleanliness around him and his machines.

- (h) The Inspector: To show to the worker how to do the work.
- 6. <u>Mental Revolution:</u> At present, industry is divided into two groups management and labour. The major problem between these two groups is the division of surplus. The management wants the maximum possible share of the surplus as profit; the workers want, as large share in the form of wages. Taylor has in mind the enormous gain that arises from higher productivity. Such gains can be shared both by the management and workers in the form of increased profits and increased wages.

HENRY FAYOL'S 14 PRINCIPLES OF MANAGEMENT:

The principles of management are given below:

- **1. Division of work**: Division of work or specialization alone can give maximum productivity and efficiency. Both technical and managerial activities can be performed in the best manner only through division of labor and specialization.
- **2. Authority and Responsibility**: The right to give order is called authority. The obligation to accomplish is called responsibility. Authority and Responsibility are the two sides of the management coin. They exist together. They are complementary and mutually interdependent.
- **3. Discipline**: The objectives, rules and regulations, the policies and procedures must be honoured by each member of an organization. There must be clear and fair agreement on the rules and objectives, on the policies and procedures. There must be penalties (punishment) for non-obedience or indiscipline. No organization can work smoothly without discipline preferably voluntary discipline.
- **4. Unity of Command**: In order to avoid any possible confusion and conflict, each member of an organization must receive orders and instructions only from one superior (boss).
- **5.** Unity of Direction: All members of an organization must work together to accomplish common objectives.
- **6. Emphasis on Subordination of Personal Interest to General or Common Interest**: This is also called principle of co-operation. Each shall work for all and all for each. General or common interest must be supreme in any joint enterprise.
- **7. Remuneration**: Fair pay with non-financial rewards can act as the best incentive or motivator for good performance. Exploitation of employees in any manner must be eliminated. Sound scheme of remuneration includes adequate financial and nonfinancial incentives.
- **8.** Centralization: There must be a good balance between centralization and decentralization of authority and power. Extreme centralization and decentralization must be avoided.
- **9. Scalar Chain**: The unity of command brings about a chain or hierarchy of command linking all members of the organization from the top to the bottom. Scalar denotes steps.
- **10. Order**: Fayol suggested that there is a place for everything. Order or system alone can create a sound organization and efficient management.
- **11. Equity**: An organization consists of a group of people involved in joint effort. Hence, equity (i.e., justice) must be there. Without equity, we cannot have sustained and adequate joint collaboration. 12. Stability of Tenure: A person needs time to adjust himself with the new work and demonstrate efficiency in due course. Hence, employees and managers must have job security. Security of income and employment is a pre-requisite of sound organization and management.
- **13. Esprit of Co-operation**: Esprit de corps is the foundation of a sound organization. Union is strength. But unity demands co-operation. Pride, loyalty and sense of belonging are responsible for good performance.
- **14. Initiative**: Creative thinking and capacity to take initiative can give us sound managerial planning and execution of predetermined plans.