



A COMPREHENSIVE TRAINING POLICY FOR TECHNICAL TEACHERS

Module 1: Orientation Towards Technical Education and Curriculum Aspects

RATIONALE

Technical education contributes a major share to the overall education system and plays a vital role in the social and economic development of the nation. Hence, the Technical Education has the need to create skilled manpower to enhance industrial productivity and to further improve the quality of life. The bridge from human resource development to economic growth has to be built by well trained teachers.

The most important 'agent of change' in 'Knowledge Society' is the teacher. A teacher requires many educational and didactical skills to deal with new situations. Teachers must be curriculum leaders. Ensuring that teachers are central to the reformation of curriculum will enable the development of pedagogy that provides the most favorable condition of learning and the highest quality learning outcomes for all students. The new role of teachers demands a new way of thinking and understanding of the new vision of the learning process.

The Module on "Orientation Towards Technical Education and Curriculum Aspects" delivers necessary foundations for shaping teacher education and refining the role of teachers and learners in the new, independent and engaging environment that has been created for them.



MODULE OUTCOME

After completing the learning tasks in this module, the learners will be able to:

- ❖ Comprehend the criteria for quality in technical education system.
- ❖ Develop instructional objectives and learning outcomes at different levels for all domains of learning.
- ❖ Apply the principles of learning in teaching learning process.
- ❖ Explore the psychological characteristics of adolescent learners and motivation techniques.
- ❖ Interpret the aspects of curriculum for implementation, monitoring and evaluation.

CONTENTS

Unit 1: Orientation towards Technical Education

Structure of Technical Education System - Formal, Informal and Non formal Education- Types of Technical Institutes - ITIs, Polytechnics, Engineering colleges, Universities, INI - National Agencies - MHRD, AICTE, UGC, NITTTR, DTE - Quality in Higher Education - Models and Criteria - NBA, NAAC - Excellence in Technical Education.

Unit 2: Three Domains of Learning

Domains of Learning - Cognitive, Affective and Psychomotor - Revised Bloom's Taxonomy - Cognitive Processes dimension and Knowledge Dimension.

Unit 3: Instructional Objectives and Learning Outcomes

Goals and Objectives - Mager's Behavioral Objectives and Gronlund's General and Specific Cognitive Objectives- Writing well defined Instructional Objectives - Mapping the Objectives in Two dimensional Matrix of Knowledge Dimension and Cognitive Process- Writing Learning outcomes for all domains of learning.

Unit 4: Learning and Instruction

Basics of Psychology of Learning and Instruction - Pedagogy, Andragogy, Teaching, Training, Learning; Teaching Learning Process-Basic Teaching Model, Factors Influencing Learning, Transfer of Learning, Laws of Learning, Principles of Teaching and Learning.

Unit 5: Learner Characteristics and Motivation

Student Characteristics - Student Motivation - Four pillars of learning proposed by UNESCO- learning to know, learning to do, learning to be and learning to live together.

Unit 6: Alternative modes of Learning

Role of Teacher in 21st Century, Millennial Learners - Learning Principles, Introduction to Multimedia Learning, e-learning, Blended Learning and Flipped Learning, Active Learning strategies.

Unit 7: Aspects of Curriculum

Concept of Curriculum- Attributes of Curriculum -Types of Curriculum - Interpreting the Curriculum -Teacher's Curriculum - Curriculum and Instruction - Co-curricular and Extra curricular

Unit 8: Curriculum Implementation, Monitoring and Evaluation

Steps involved in the Process of Curriculum Development- Curriculum Implementation - Monitoring and Evaluation - Need for co-relating knowledge to professional practice, research & development

