

National Institute of Technical Teachers' Training and Research, Bhopal

PROGRAMME BRIEF

Title of the Programme: - Induction Training Programme (Phase I)

Programme code:- GUJ-07

Programme duration: - 12th to 23rd June 2023

Venue:- SVNIT, SURAT , Gujrat

1. Rationale:

In the era of rapid economic globalization and the advent of Industry 4.0 and digitalization, increasing international and regional competitions pose great challenges for the technical education system. In this perspective, practicing educators are required to bring reforms to the existing education and training system to prepare young graduates to effectively cope with these changes. As a result, a lot of challenges and issues are emerging for today's educators. The imperative in recent years about improving student outcomes is also about improving the quality of the teaching professionals.

Achievement of teacher quality is the pedagogical knowledge of teachers. The term refers to the art of teaching and the strategies teachers employ to communicate learning content effectively. Pedagogical knowledge and skills refer to the specialized knowledge of teachers for creating effective teaching and learning environments for all students. Pedagogical skills are proficiencies that allow teachers to manage and instruct students in the classroom as well as in laboratories and workshops.

Recognizing the imperative, the Induction Training Program (Phase 1) is a flagship program offered by NITTTTR, Bhopal. This programme was recently redesigned, keeping in view the recommendations of the National Education Policy (NEP) 2020, and mainly focusing on equipping the practicing teachers with the pedagogical skills for enhancing the quality of teaching-learning and ultimately students' learning in the technical institutions across the region. Understanding these skills and their importance to the teaching profession can help teachers use them for professional growth and development.

2. Programme Outcomes:

After completing the programme, the participants will be able to

- i. Elucidate the National Education Policy 2020 and its implications on the Technical Education System in India.
- ii. Practice the emerging roles & responsibilities of technical teachers;
- iii. Applies the principles of learning in teaching learning process
- iv. Interpret the learning outcomes after curriculum analysis of a given course.
- v. Demonstrate classroom communication and presentation skills
- vi. Select appropriate instructional methods and strategies in view of the learning outcomes.
- vii. Practice innovative teaching strategies to improve the teaching-learning process;
- viii. Use technology-enabled learning approaches to enhance the quality of teaching-learning;
- ix. Explore online Free and Open Source Software [FOSS], Open Educational Resource (OER) and other digital tools for the creating effective learning environment.
- x. Develop instructional media as per curricular needs.
- xi. Supplement the classroom presentations with appropriate media and materials for effective teaching learning process.

- xii. Prepare session plan for classroom, laboratory, workshop and industry-based instruction.
- xiii. Design an effective lesson utilizing instructional technology resources and integrate into the teaching environment.
- xiv. Define the functional role of assessment and evaluation in an educational institution.
- xv. Design a question paper based on the table of specification.
- xvi. Assess the student's performance using rubrics in the technical education system.

3. Programme Content:

Week 1

- NEP 2020 & its implication on the Technical Education System
- Emerging Roles and Responsibilities of Technical Teachers and Professional Ethics
- Domains of Learning
- Revised Bloom's Taxonomy
- Dave's and Krathwohl's Taxonomy
- Outcome-based Education
- OBC- Outcomes at Course and Programme level and their mapping.
- Academic Performance Index
- Classroom Communication and Presentation skills
- Outcome-Based Teaching-Learning Approaches
- Improved Lecture, Q-A, Tutorial, Demonstration
- Blended and Flipped Learning
- Seminar
- Think-Pair-Share
- Group discussion and Case Study
- Open Educational Resources (OER)
- ICT Tools

Week 2

- Overview of Educational Media (Classroom and Lab sessions)
- Media Design Principles
- Course Plan preparation
- Gagne's Events of Instruction,
- Content analysis using a Concept map
- Outcome-based Assessment
- Assessment Tools (Direct & Indirect)
- Rubrics
- Assessment of Higher-Order Thinking Skills
- Laboratory, Workshop and its Assessment
- Project work and its Assessment.
- Micro-Teaching Practice
- Self-directed learning and Learning Strategies

4. Instructional Strategy:

- Input cum discussion
- Brainstorming session
- Case study
- Good practices
- Individual & Group assignments

5. Target Group:

Faculty members of different discipline working in the technical institutions.

6. Coordinator & Faculty details:

COORDINATOR

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Faculty

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Faculty

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7. Tentative Programme Schedule:

Week 1

Date	Session I 10.00 - 11.30 AM	Session II 11.45 AM-01.15 PM	Session III 02.15-03.45 PM	Session IV 04.00- 05.30 PM
Day 1	<ul style="list-style-type: none"> Registration Inauguration Programme brief Expectations 	<ul style="list-style-type: none"> The implication of NEP 2020 on the Technical Education System 	<ul style="list-style-type: none"> Emerging Roles and Responsibilities of technical teachers and Professional Ethics 	<p>Activity 1 Knowledge and experience sharing- issues and challenges faced</p>
Day 2	<ul style="list-style-type: none"> Domains of learning Revised Bloom's Taxonomy Dave's Taxonomy Krathwohl's taxonomy 	<ul style="list-style-type: none"> Outcome-based Education OBC- Outcomes at Course and Programme level and their mapping. 	<p>Task 1</p> <ul style="list-style-type: none"> Formulate COs and prepare Course Articulation Matrix 	<ul style="list-style-type: none"> Academic Performance Index
Day 3	<ul style="list-style-type: none"> Classroom Communication and presentation skills 	<ul style="list-style-type: none"> Outcome-Based Teaching-Learning Approaches 	<ul style="list-style-type: none"> Improved lecture, Q-A, Tutorial, and Demonstration 	<p>Activity 2 Discussion on the improvement of TL using these methods</p>
Day 4	<ul style="list-style-type: none"> Blended and Flipped learning 	<ul style="list-style-type: none"> Seminar Think-Pair-Share 	<ul style="list-style-type: none"> Group discussion, Case Study 	<p>Task 2 Create a sample case</p>
Day 5	<ul style="list-style-type: none"> Open Educational Resources (OER) 	<ul style="list-style-type: none"> ICT Tools 	<ul style="list-style-type: none"> Consolidation Open Discussion 	<p>Achievement Test for Week 1</p>

Week 2

Date	Session I 10.00 - 11.30 AM	Session II 11.45 AM - 01.15 PM	Session III 02.15-03.45 PM	Session IV 04.00-0 5.30 PM
Day 6	<ul style="list-style-type: none"> Overview of Educational Media (Classroom and Lab. Sessions) Media Design Principles 		<ul style="list-style-type: none"> Course plan preparation Gagne's Events of Instruction, Content analysis using a concept map 	<p>Task 3</p> Session Plan preparation
Day 7	<ul style="list-style-type: none"> Outcome-based Assessment 	<ul style="list-style-type: none"> Assessment Tools (Direct & Indirect) Rubrics 	<ul style="list-style-type: none"> Assessment of higher-order thinking skills 	<p>Task 4</p> Formulate questions to assess HOTS
Day 8	<ul style="list-style-type: none"> Laboratory, workshop and its Assessment 	<ul style="list-style-type: none"> Project work and its Assessment. 	<p>Task 5</p> Design of Rubrics	<ul style="list-style-type: none"> Preparation for Micro Teaching
Day 9	<ul style="list-style-type: none"> Micro-Teaching Practice followed by feedback 			
Day 10	<ul style="list-style-type: none"> Self-directed learning and learning strategies 	<ul style="list-style-type: none"> Experience sharing related to innovative TL approaches used 	<ul style="list-style-type: none"> Consolidation of Tasks and submission of Portfolio Open Session 	<ul style="list-style-type: none"> Achievement Test Summarization of learning, Valedictory

Tea Break: 11.30 AM to 11.45 AM and 03.34 PM to 04.00 PM; **Lunch Break:** 01.15 PM to 02.15 PM