



# A COMPREHENSIVE TRAINING POLICY FOR TECHNICAL TEACHERS

## Module 5: Technology Enabled Learning and Life-Long Self Learning

### RATIONALE

The “Technology Enabled Learning and Life-long self-learning” is an online SWAYAM course as a part of AICTE- National Initiative for Technical Teachers Training. It is designed to provide interactive MOOC learning experience to the faculty members and also to develop an understanding of infusing technology into the classroom instruction. How technology facilitate in connecting CONTENT to CONTEXT during the teaching learning process is explained in this course. Through many examples and case studies, the participants will be exposed how to effectively use technology for their instruction and what aspect to be taken into consideration while designing courses with technology. In addition to this, participants will be exposed, how technology tools can foster collaboration while delivering engaging instructional content. They will also learn strategies for assessing students and managing classroom instruction. The course is structured with lectures, experiential sharing, activities, and interviewees from the stakeholders.



### MODULE OUTCOME

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

- ✦ Design an effective lesson utilizing instructional technology resources and integrate into the teaching environment.
- ✦ Explore online Free and Open Source Software [FOSS], Open Educational Resource (OER) and other digital tools for the creating effective learning environment.
- ✦ Examine and utilize online platforms & Social media to promote student communication and peer discussion.
- ✦ Design different formative and summative assessment strategies for a technology enabled instruction.
- ✦ Actively participate and enrol in the online MOOC courses / webinars for knowledge enhancement.
- ✦ Explore the online journals and other learning resources for professional growth and improve their paraphrasing and avoid plagiarism.
- ✦ Understand the importance of Artificial Intelligence in classroom teaching and its revolution.

# CONTENTS

## Unit 1: Introduction to Technology Enabled Learning

Introduction to Teaching into Technology – Technology in Education: National Educational Policy (Draft) Overview – The Crucial role of the teacher in TEL – Learning Space: Teaching Environment – Teaching Learning Principles: ICT Perspective Learning Theories – The potential benefits of adopting TEL – Developing and Drafting Institutional Policies – Reviewing about Institutional Capacity with respect to ICT – Institution preparedness for TEL.

## Unit 2: Tools & Resources for creating Technology based Learning Environment

Using Online Environments for Teaching - Planning Online Class – Considerations for Choosing Technology Tools - Demonstration: Google Classroom; Edpuzzle; LMS (Lite Version) – Virtual Laboratories – Online Access to Remote Laboratories - Case Study: Experiential Sharing – Virtual Laboratories – Teaching Using Scenario Based Simulations.

## Unit 3: Tools & Resources for creating Learning Resources

Online tools for content creation – Promoting active learning strategy – Considerations for Choosing Technology – Screen Casting Technique – Ed TED – Creation of Mind map – Introduction to Gamification – Use of Documentaries in TEL.

## Unit 4: Tools & Resources for creating Learning Assessment

Fundamentals of Assessment – Online tools for assessment - Considerations for Choosing Technology – Tool Demonstration: Google Forms, Hot Potatoes, Plickers, Assessment in LMS, Inline Video Quiz, Framing of Rubrics, Audio Feedback, portfolios – Reflective Teaching Tool – Learning Analytics to inform learning.

## Unit 5: Blended / Flipped Classroom & AI In classroom teaching

Concepts of Blended Instruction - Blending Models – Implementation strategies of Flipped Classroom – Role of Artificial Intelligence in Education – Personalised learning – Role of Educators – Tutoring

## Unit 6: Digital Literacy, Copyrights & Lifelong learning

Understanding Creative Commons – Handling copyright for online resources / courses – Looking into Insight about OER – Insight about Research ID, ORCID, Scopus Author ID – Plagiarism tools and its implementation.

## Unit 7: Social Media in Education, Webinars & MOOCS

Web 2.0 Technologies: Twitter, Wikis and Blogs - Using Blogs for Peer Feedback and Discussion Using Online communities – Nurturing Collaboration – Webinar – MOOCS – Strategies to select MOOC – Steps to complete MOOCs.

## Unit 8: Integration and Implementation

Insight about integration of tools in the classroom – Curriculum design, activity structure, the relevance of chosen technology and effective classroom management – Learning analytics.

