

INDIVIDUAL COURSE DETAILS**ITEC****Design of Educational Applications using Web Technologies**

A. Name of the Institute	NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND RESEARCH TARAMANI, CHENNAI – 600 113. [Ministry of Education, Government of India] Taramani, Chennai – 600 113, INDIA.
B. Title of the Course	Certificate Course on “Information & Communication Technologies In Education & Training”
C. Course Duration	Weeks : 4 Start Date : 1 st Oct 2024 End Date:28 th Oct 2024
D. No. of days of Training	Days: 25 learning hours (Approximate): 125 hrs
E. Eligibility Criteria for Participants 1. Educational Qualification 2. Work Experience 3. Age Limit 4. Target Group	Applicants for this course must be Degree/ Diploma in Information Technology (IT) / Computer Science/ Information and Communication Technology / Educational Technology / Engineering Education / Network Technology/ Communication Technology / Internet Security Technologies / Network Security <ul style="list-style-type: none"> • Minimum of two years experience in teaching / IT / ICT application design, Development and Training • Have a good proficiency in English which is the medium of instruction Preferably not more than 45 years Computer Science and Information Technology professionals
F. Aims & Objectives of the Course	To develop appropriate and necessary competencies in IT / ICT based Education and Training which facilities Anytime, Anywhere and Any pace Learning <ul style="list-style-type: none"> • To understand the concepts of IT applications in the area of training and administration • To know the concepts of effective presentations in the Training Environment as well as in classroom Teaching • To use the web-based / desktop based presentation packages and Information Technology applications. • To understand the different kind instructional technologies and educational applications • To design pages using Markup languages with the help of FOSS tools.

	<ul style="list-style-type: none"> • To design Web Site using a content Management tool such as JOOMLA • To understand Learning Management System and Design LMS using MOODLE Package • To Understand Intranet / Internet Environment • To appreciate the use of e-learning technologies and solutions. • To appreciate the use of MOOCs • To understand the principles of design & development of e – Learning System • To design web based education framework • To design and develop web applications to meet blended learning. • To understand e-administration with e-governance in educational and Training Organization. • To know the cloud computing functions and characteristics • To use the Cloud Collaboration tools for Education and Training • To Understand Information security and Information Retrieval • To understand Risk Management activities
<p>G. Details of Content of the Course / Training Schedule <i>(pl attach a simple thematic / day-wise schedule (topics covered)).</i></p>	<p>Week -1: Computer Software and Hardware - Operating System – System Administration - Presentation Concepts – Presentation Tools – Adobe Presentation packages- Mind map tools – Screen Capturing tools</p> <p>Basics of Networking - Communication in Local Area Network - Intranet – WWW – Internet Concepts – Instructional Technologies – Flipped Class Room - Models of distance education and delivery - Introduction to Web Technologies – Design of web pages using HTML - CSS - Dreamweaver – Web Browser- Web server – Web site Deployment – Project Work</p> <p>Week -2: Distributed open online learning (OER) – MOOCs – ICT in Outcome Based Education (OBE) - Web 2.0 - Social media in education – Social networking tools – Google tools – Social media strategies for teachers</p> <p>Overview of Content Management System – JOOMLA - Article Management – Template Management – Module Management – Plugin Management - Overview of e-learning features – Modes of e-learning – Learning Management System (LMS) - MOODLE - Development of Instructional resources – Deploy resources in LMS</p> <p>Week – 3: Overview on Instructional Media - Classification of Media - Simple Graphics & Animation Development - Script writing fundamentals – Video Production equipments – Video Production System – Post production and Editing</p> <p>Week -4: Introduction to Cloud computing – Cloud Delivery Models – Cloud Collaboration tools for Education - Security in web technologies – Secure campus network – Project work</p>

H. Mode of Evaluation of Performance of the ITEC Participant	<p>Attainment of course objectives will be periodically reviewed by course review, internal assessment and project work.</p> <p>At the end of the course, candidates will be awarded with an Advanced Certificate on “Certificate Course on “Information & Communication Technologies In Education & Training””</p>
I. Platform for delivery of online course (wherever applicable)	Google Platform
J. Name of the Department	Department of Computer Science and Engineering
K. Name of Coordinator	S.Sasirekha
L. Resource persons	V Shanmuganeethi Seshubabu Pulagara