

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

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| 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 | Advanced Certificate Course on “Design of Educational Applications using Web Technologies” |
| C. Course Duration | Weeks : 4 Start Date : 7 th August 2024 End Date: 3 rd Sep 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 Information Technology (IT) Teachers / IT professionals/ Programmers and ICT Trainers <ul style="list-style-type: none"> • Minimum of two years’ experience in teaching / IT / Networking / 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 Web Technologies, web design frameworks and web application development <ul style="list-style-type: none"> • Understand the current technologies in Internet world • Desing front-end for web application using front -end technologies • To apply the database technologies in web applications • Implement server side programming for the design of web applications |

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| | <ul style="list-style-type: none"> • To provide sufficient knowledge in Database Management System • To understand the use of web services in web environment • To appreciate the use of Cloud computing • To understand the various services in cloud computing environment • To know the vulnerabilities in cloud environment • To understand the security services in Cloud computing |
| G. Details of Content of the Course / Training Schedule <i>(pl attach a simple thematic / day-wise schedule (topics covered)).</i> | <p>Week-1: Internet Technologies - Emerging Web Technologies - Educational Applications in TLP</p> <p>Week -2: CMS and LMS Frameworks</p> <p>Week -3: Front-end Technologies - Client Scripting - Introduction to Server Scripting - Web Server and Scripting - Cookies and Sessions - MEAN Stack Database with Server Scripting Report Management and Import / Export - Review of Application Development</p> <p>Week-4: Open Educational Resources and MOOC Development - Digital Repository</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 “Advanced Certificate Course on “Design of Educational Applications using Web Technologies.””</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 | V.Shanmuganeethi |
| L. Resource persons | S.Sasirekha Seshubabu Pulagara |