**INDIVIDUAL COURSE DETAILS**

# Redefining Engineering Education through innovative Curriculum for Industry 4.0

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| A. Name of the Institute | **NATIONAL INSTITUTE OF** **TECHNICAL TEACHERS TRAINING AND RESEARCH****TARAMANI, CHENNAI – 600 113, INDIA****[An Autonomous Institute under Department of Higher Education, Ministry of Education, Government of India]****Taramani, Chennai – 600 113, INDIA.** |
| B. Title of the Course | Certificate Course on **Redefining Engineering Education through Innovative curriculum for Industry 4.0** |
| C. Proposed Mode of the Course1.Offline(Physical - Regular ITEC)2.Online (e-ITEC)3.Either Offline(Regular ITEC) or  Online (e-ITEC) | Online (e-ITEC) |
| D. Proposed Dates and Duration of the **Course** (in weeks / months) | (2 Weeks) from 17/08/2022 to 30/08/2022 |
| E. Eligibility Criteria for Participants 1. Educational Qualification 2. Work Experience3. Age Limit 4. Target Group  | 1. Degree / Diploma Engineering / Technology
2. Have a minimum of 5 years Experience in Teaching / Training

 Have a good proficiency in English which is the medium of instruction1. Preferably less than 45 years
2. Practicing teachers / industrial trainers, curriculum developers / planners and or administrators in technical education.

Executives of College Education / Directorates / Ministries |
| F. Aims & Objectives of the Course | The course aims at developing attributes for redefining and development of Engineering Education through outcome-based education and CDIO Approach* To formulate the curriculum to suit the requirement of the society at large.
* To adopt the changes in Curriculum vis-a-vis Industry 4.0 needs.

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| G. Details of Content of the Program *(please attach detailed course profile)* | * Industry4.0 / Societal Requirement
* Curriculum Design and Implementation for Industry 4.0
* Outcome Based Education
* Conceive, Design, Implement and Operate
* Learning Management System
* Curriculum Assessment
* Concept Mapping
* Use of FOSS in LMS
* Project work and Presentation
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| H. Expected Outcomes | * To effectively implement the curriculum by various learning approaches and assessment to achieve the attributes of a professional.
* To systematically evaluate the curriculum and develop further based on outcome/feedback of the learners.
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| I. Evaluation of Performance of the  ITEC Participant |  Qualitative Assessment through Rubrics |
| J. Name of the Department | Extension Centre, Bengaluru |
| K. Name of Coordinator | V. Sivakumar |
| M. Resource persons | Faculty from NITTTR, Chennai (Including Extension Centres) and other reputed institutions and industry |

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