**eITEC (2022-2023)**

**SPECIALIZED TRAINING PROGRAM IN HEALTHCARE INFORMATION TECHNOLOGY**

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| 1 | Name of the Institute | Centre for Development of Advanced Computing, Mohali |
| 2 | Name of the Course | Specialized Training Programme in Healthcare Information Technology |
| 3 | Proposed Dates and Duration of the Course in week | 23 May - 17 June, 2022  04 Week(s) |
| 4 | Mode of Training | Online |
| 5 | Start date | 23 May, 2022 |
| 6 | End date | 17 June, 2022 |
| 7 | Eligibility Criteria for Participants:   1. Educational Qualification | As per MEA guidelines |
| 1. Work Experience | As per MEA guidelines |
| 1. Age Limit | As per MEA guidelines |
| 1. Target group (Level of participants and target ministry/department etc. may be identified) | Clinicians/Paramedical staff/ Hospital Administrators / Managers/Engineers / IT Professionals/ Pharmacists / Researches / Policy makers/Officials with knowledge of computers preferably from the Ministry / Department / Agencies/Institutions associated with IT / health and public management / relevant domain |
| 8 | Aims & Objectives of the Course | **Aims of the Course:**  a) To prepare trained human resource in Healthcare IT domain for respective participating countries  b) To prepare human resource in Healthcare IT domain for Govt. of India’s PAN African project eArogyabharti  **Objectives of the Course**:   * Implement and manage use of Healthcare technologies including Hardware and Software to improve the clinical effectiveness, efficiency and safety. * Use of Healthcare standards to achieve interoperability of Healthcare Information System. * Optimization of Health resources and HR. * Adoption of IT application in Healthcare. * Improving the access and quality of healthcare delivery services. * Understand how to operate Interfaced medical equipment. |
| 9 | Details / Content of the Course (please attach detailed Course Profile) | **Health Informatics**   * Introduction to Healthcare IT. * Role of IT in healthcare. * Clinical Data management. * Using technology for Healthcare Delivery. * Electronic Medical Records (EMRs).   **Telemedicine**   * Introduction and overview * Importance and Need of Telemedicine in Healthcare * Telemedicine Infrastructure * Features and Services * Privacy, Confidentiality, Security and Data Integrity in Telemedicine * Effect of Telemedicine on Quality, Access & Cost * Legal and Ethical Issues in Telemedicine * Why Medical Standards are required in Telemedicine   **Overview of various Healthcare IT standards**   * Importance of Standards * Standard and standardizing organizations * Confidentiality, integrity, security of electronic data interchange * RXNorm * Health Level (HL7) * SNOMED CT   + - Digital Imaging and Communications in Medicine (DICOM) Standard   **Electronic Health Record (EHR) Standards for India -2016**   * Standards and Interoperability * Health Record IT Standards * Guidelines * Data ownership of Health Records * Data Privacy and Security   **Application Areas**  **Telemedicine Applications**   * + - Introduction to Telemedicine Applications/Products developed     - Practical Sessions on Telemedicine Applications     - Introduction to Mobile Health and Mobile Technologies     - Practical Session on Mobile Health Applications     - Practical Session on Integrated Medical Devices with Telemedicine Applications   **Establishing a Telemedicine Network**   * Network and Communication Technologies * Feasibility Study * Implementing aspects related to Telemedicine network * Training and hand-holding of users * Case Studies on Telemedicine Implementations |
| 10 | Mode of Evaluation of Performance of the ITEC Participant | Theory and viva voce /Practical |
| 11 | Course Timings | 3 Hours per day starting at 14:00 HRS (IST), 4 Weeks, 20 days |