**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, 202204 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 countriesb) 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.
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| 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
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| 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 |