eITEC (2022-2023)

SPECIALIZED TRAINING PROGRAM IN HEALTHCARE INFORMATION TECHNOLOGY

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	05 - 30 September, 2022 04 Week(s)
4	Mode of Training	Online
5	Start date	05 September, 2022
6	End date	30 September, 2022
7	Eligibility Criteria for Participants:	
	A. Educational Qualification	As per MEA guidelines
	B. Work Experience	As per MEA guidelines
	C. Age Limit	As per MEA guidelines
	D. 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