

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	November 28, 2022 – December 23, 2022 04 Week(s), 14.00 -17.00 (IST)
4	Mode of Training	Online
5	Start date	November 28, 2022
6	End date	December 23, 2022
7	Eligibility Criteria for Participants:	
	A. Educational Qualification	Clinicians/ Paramedical Staff/ Hospital Administrators/ Managers/ Engineers/It Professional Or Equivalent
	B. Work Experience	Relevant Experience
	C. Age Limit	Serving participants
	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	<p>Aims of the Course:</p> <p>a) To prepare trained human resource in Healthcare IT domain for respective participating countries</p> <p>b) To prepare human resource in Healthcare IT domain for Govt. of India's PAN African project eArogyabharti</p> <p>Objectives of the Course:</p> <ul style="list-style-type: none"> • 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)	<p>Health Informatics</p> <ul style="list-style-type: none"> • Introduction to Healthcare IT. • Role of IT in healthcare. • Clinical Data management.

		<ul style="list-style-type: none"> Using technology for Healthcare Delivery. Electronic Medical Records (EMRs). <p>Telemedicine</p> <ul style="list-style-type: none"> 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 <p>Overview of various Healthcare IT standards</p> <ul style="list-style-type: none"> Importance of Standards Standard and standardizing organizations Confidentiality, integrity, security of electronic data interchange RXNorm Health Level (HL7) SNOMED CT <ul style="list-style-type: none"> Digital Imaging and Communications in Medicine (DICOM) Standard <p>Electronic Health Record (EHR) Standards for India -2016</p> <ul style="list-style-type: none"> Standards and Interoperability Health Record IT Standards Guidelines Data ownership of Health Records Data Privacy and Security <p>Application Areas</p> <p>Telemedicine Applications</p> <ul style="list-style-type: none"> 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 <p>Establishing a Telemedicine Network</p> <ul style="list-style-type: none"> 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