ITEC (2023-2024)

Digital Health

1	Name of the Institute	Centre for Development of Advanced Computing, Mohali
2	Name of the Course	Digital Health
3	Proposed Dates and Duration of the Course in week	11 September, 2023 - 29 September, 2023 03 Week(s)
4	Mode of Training	offline
5	Start date	11 September, 2023
6	End date	29 September, 2023
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	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:** • To prepare trained human resource in Digital Health IT domain for respective participating countries • To prepare human resource in Digital Health IT domain for Govt. of India's PAN African project eArogyabharti **Objectives of the Course:** • Implement and manage use of Digital Health technologies including Hardware and Software to improve the clinical effectiveness, efficiency and safety. • Use of Digital Health standards to achieve interoperability of Healthcare Information System. • Optimization of Digital Health resources and HR. • Adoption of IT application in Digital Health. • Improving the access and quality of Digital health delivery services. • PoC on Interfaced medical equipment.
9	Content of the Course	• **Health Informatics** Introduction to Digital Health, 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 Digital Health 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/PoC on Integrated Medical Devices with Telemedicine Applications **Case Studies in Digital Health** Network and Communication Technologies, Feasibility Study, Implementing aspects related to Telemedicine network, Training and hand-holding of users, Case Studies on HMIS, Telemedicine, PHR, ABDM Implementations.
10	**Mode of Evaluation of Performance of the ITEC Participant**	Theory and viva voce /Practical