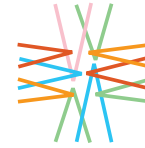




**Administrative Staff  
College of India**  
*Leadership through Learning*



**IN** Strengthening  
Systems  
to Secure Health  
**ORDER**

A six-months online Certificate Program on

# HEALTH INFORMATICS FOR HEALTH PROFESSIONALS

(December 03, 2021)

*A collaboration between*  
**Administrative Staff College of India  
InOrder &  
ACCESS Health International**

**ACCESS**  
health international

## Program Directors

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### **The Bella Vista Campus of ASCI– Erstwhile Palace of the Prince of Berar**

Established in 1956, the **Administrative Staff College of India (ASCI)**, Hyderabad, is an autonomous, self-supporting, public-purpose institution with the objectives of being a think-tank for policy inputs and to build the capacities of practicing professionals in the management of government and business enterprises. It is an institution of excellence and national importance that was jointly founded by the Government of India and the Industrial sector. Capacity building and applied research assignments constitute the bedrock of the activities of ASCI. Since ASCI enjoys the trust and confidence of the government and industry, it is relied upon and entrusted with assignments of varied scale, scope, sweep, spread and specialization. The Centre for Healthcare Management at ASCI has demonstrated competencies in the area of Healthcare Analytics & Informatics with abundance of experts in related areas that may benefit the proposed training. It has supportive services and unique infrastructure facilities or instruments that will directly benefit the training program.

For further details, please visit the Official Web Page of ASCI, Hyderabad @ <https://www.asci.org.in/>.

InOrder is an institute established with the vision to strengthen health systems to secure people's health. An associate of ACCESS Health International, InOrder is a part of Affordable Quality Health, a not-for-profit section 8 company, based in Hyderabad, India. InOrder houses Centres of Excellence for various sub-systems of health systems. Its activities are grouped into five workstreams – research, capacity building, advisory & technical support, advocacy, and public awareness. It undertakes capacity building of health professionals through competency-based training programs. It is currently focused on Health Leadership and Management development, Quality of Care, Health Information and Health Insurance Management programs for health professionals.

<https://www.inorder.in>



ACCESS Health International, Inc. works closely with governments, donor organizations, and national and international researchers to address issues at systems level and improve and strengthen the overall healthcare systems. The research and programs have addressed issues ranging from primary care, digital health, risk pooling, and strategic purchasing to drive quality and accountability. ACCESS Health International designs and implements health initiatives that tangibly improve health outcomes and quality of care across the globe. It turns research into tangible healthcare improvement initiatives through unique partnerships with policy makers, private sector leaders, academia, and entrepreneurs.

<https://www.accessh.org>

## PROGRAM OVERVIEW

Over the last one decade, there has been a growing enthusiasm for the potential usefulness of data analytics and informatics in transforming healthcare, especially in India. The National Health Policy (2017) envisaged the creation of a digital health technology ecosystem to leverage the potential of data in transforming personal care, clinical care, and public health delivery. National Health Stack (NHS), proposed by NITI Aayog, came up with the National Digital Health Blueprint (NDHB) after surveying the global best practices in adoption of digital technologies holistically. The NDHB is not merely an 'architectural document'. It has specific details of the building blocks required to fulfill the vision of NHP (2017) as also the institutional mechanism and an Action Plan for realizing digital health in a comprehensive and holistic manner. Recently, the Government of India also launched the Ayushman Bharat Digital Mission (ABDM) for the entire country. The ABDM aims to create an online platform through the provision of a wide range of data, information and infrastructure services while leveraging open, interoperable, standards-based digital systems. However, the bigger challenge facing the health care industry is how to implement the mission guidelines, logically educe actionable insights with creation of interventions at which health information technology interacts and affects the organization. The full value of big data and information systems in healthcare could only be unlocked by enhancing the analytical capabilities of the stakeholders. Thus, healthcare organizations need specialists who know how to design and build platforms. This customized program on health informatics would enable the health professionals to position themselves as leaders in the digital reorganization of India's healthcare system.

## OBJECTIVES

The program aims to provide a solid grasp of the end-to-end process of making effective decisions with informatics and data-based medico-metrics and, thus, enhance the clinical, managerial, and business decision-making ability of the participants.

## CONTENTS

### 1. Health Informatics – Introduction and Landscape

- ▶ Health informatics – Introduction, scope and objectives
- ▶ Role of health informatics professional in healthcare
- ▶ Health informatics in provider, payer and governance systems

### 2. Healthcare IT Standards – Its Role in Managing Healthcare Services

- ▶ FHIR standards - concept, uses and mechanism of implementation
- ▶ SNOMED CT – A Terminology coding system , introduction, structure and it uses.

- ▶ LOINC – Logical Observation Identifiers Names and Codes for all diagnostic services
- ▶ ICD – International classification of diseases for diagnosis and procedures
- ▶ Security and Privacy Standards

### 3. Digital Health Mission - Blueprint, and Action Plan

- ▶ Key objectives
- ▶ Landscape
- ▶ Implementation plan
- ▶ Key activities

### 4. Healthcare IT Applications – Overview

- ▶ HIS system ( Hospital Information systems)
- ▶ EMR, EHR, PHR systems ( Electronic medical record, Electronic health record and patient health record systems)
- ▶ PACS – A Dicom Imaging standard for (Picture archiving and communication system)
- ▶ EICU- electronic ICU for remote management of ICU
- ▶ Telemedicine
- ▶ Business Intelligence solutions
- ▶ ERP- Enterprise resource planning solutions
- ▶ Insurance Management systems

### 5. Healthcare IT Implementation Challenges

- ▶ HIS challenges
- ▶ EMR challenges
- ▶ Clinical challenges

### 6. The Data Science of Health Informatics

- ▶ Statistical Tools Applicable to Healthcare
- ▶ Data Visualization
- ▶ Medico-Metrics and Survival Analysis
- ▶ Health Management Information System
- ▶ Hands-on Statistical Packages (R/RStudio & MS-Excel)

### 7. Artificial Intelligence in Healthcare – a Roadmap

- ▶ AI in Clinical Space
- ▶ AI in policy decisions
- ▶ AI in Research

## KEY LEARNING OUTCOMES

Upon completion of the program, the participants will be able to–

- Assess a health informatics problem, determine the missing dots and identify the solution
- Enable the participants to handle implementation challenges on ground
- Make effective use of vast volume of data to improve healthcare operations and delivery
  - ▶ Map the patients' health journey and contribute to improved healthcare outcomes
  - ▶ Create multi-dimensional simulation models using contextual variables to produce customized predictions

## PEDAGOGY

The program will be delivered in online mode in the weekends. The sessions will be delivered through online live sessions in Zoom/WebEx and also few sessions will be recorded (asynchronous mode) sessions. The participants will be asked to do regular projects and the program would also include practical cases and case studies. The participants will be invited to optional contact classes to meet the faculty and clarify doubts at their own expense. The sessions will be delivered by experts commanding years of work experience in the fields of health informatics, data analytics and public health. Learning and reference materials will be provided during the program.

## PARTICIPANT PROFILE

The target audience of the program includes –

- ▶ Officers of National Health Mission (NHM) in States/UTs dealing with data
- ▶ Officers of National Digital Health Mission (NDHM) in States/UTs
- ▶ Senior Officers of State Health Authority dealing with Pradhan Mantri Jan Arogya Yojana (PM-JAY) scheme
- ▶ Health Policy Experts
- ▶ Other Senior Managers/Officers dealing with data at district level
- ▶ Information Systems Professionals
- ▶ Physicians, pharmacists, social workers, and other allied health professionals interested in expanding their understanding of digital health, big data, health information systems

## PROGRAM DURATION

The program will span **Six (06) Months**. The sessions will be delivered only on Fridays and Saturdays with a maximum of four hours a week.

## PROGRAM FEE

### Indian National:

**INR 45,000/-** (inclusive of all taxes) per participant

### Foreign National:

**USD1200/-** (inclusive of all taxes) per participant

### Foreign National (LMIC countries):

**USD 600/-** (inclusive of all taxes) per participant

*P.S. This cost will cover tuition fee, courseware (in electronic form), and certificate of participation. Besides, ASCI will offer a life-time membership card on completion of the program through which they can have access to the library at Hyderabad. Participants of the program will automatically become members of the ASCI alumni association.*

**Discounts will be provided if there are several nominations from a single organization**

## Bank details are given below:

### For Indian Participants:

Bank Account Number: 62090698675  
Beneficiary Name: Administrative Staff College of India  
IFSC Code: SBIN0020063  
Bank Name: State Bank of India  
Branch Address: Bellavista Branch, Raj Bhavan Road,  
Somajiguda, Hyderabad - 500 082  
<https://www.onlinesbi.com/sbicollect/icollecthome.htm?corpID=382471>  
Program Code : Prg/21-22/8/128

### For Foreign Participants:

Bank Account Number: 62090698675  
Beneficiary Name: Administrative Staff College of India  
Swift Code: SBININBB327  
Bank Name: State Bank of India  
Branch Address: Bellavista Branch, Raj Bhavan Road,  
Somajiguda, Hyderabad - 500 082  
Country: India

**Please provide copy of PAN card with the nomination form and share the transaction details.**

## IMPORTANT DATES

### Program Begins

**December 03, 2021**

### Last Date for Nomination

**November 30, 2021**

## CERTIFICATE OF PARTICIPATION

A Certificate of Participation will be issued jointly by ASCI, InOrder and ACCESS Health International on successful completion of the program.

## FOR CORRESPONDENCE

### Mr. Mithun. K

Administrative Staff College of India  
Email: [mithun.k@asci.org.in](mailto:mithun.k@asci.org.in)  
Cell No. 91-9052018199

### Dr. Vinod Kumar

ACCESS Health International  
Email: [research.admin@accessh.org](mailto:research.admin@accessh.org)  
Cell No. 91-9441838284



**asci**  
Leadership through Learning

## ADMINISTRATIVE STAFF COLLEGE OF INDIA

Bella Vista, Raj Bhavan Road, Hyderabad - 500 082, T.S. (India)

### Nomination Form

A six-months online Certificate Program on

## HEALTH INFORMATICS FOR HEALTH PROFESSIONALS

(December 03, 2021)

#### Nominee's Contact Information :

Name (Mr/Ms) :	_____	Date of Birth :	_____
Designation :	_____	Qualification :	_____
Organisation :	_____		
Address :	_____		
Phone(s) :	(Off) : _____	(Mobile) :	_____
		Home :	_____
e-mail :	_____	Fax :	_____

#### Sponsor's Details

Name of the Sponsoring Authority _____	Designation _____
Organisation :	_____
GSTIN :	_____
Address :	_____
	_____
	Pincode : _____
Phone(s) :	(Off) : _____
	(Mobile) : _____
e-mail :	_____
	Fax : _____

#### Fee Particulars

Amount Payable :	Mode of Payment (NEFT / SWIFT) :
Name of the Bank :	Date of Transfer :
Instrument Number :	UTR Number for NEFT :

#### Signature and Official Seal of the Sponsoring Authority :

NOTE : Forward nomination form to :

**Mr.Mithun. K;** Email: mithun.k@asci.org.in; Cell No. 91-9052018199

**Dr. Vinod Kumar;** Email: research.admin@accessh.org; Cell No. 91-9441838284