PROPOSAL

FOR ONLINE COURSE ON

DIGITAL HEALTH

UNDER

e-INTERNATIONAL PUBLIC HEALTH MANAGEMENT DEVELOPMENT PROGRAM

Department of Community Medicine and School of Public Health,

Post Graduate Institute of Medical Education and Research (PGIMER), Chandigarh

1. *Preamble/justification*

Digital health has revolutionised the prevention, treatment, and management of health conditions over the last few decades. Mobile health (mHealth), health information technology (IT), wearable devices, telehealth and telemedicine, and personalised medicine are all examples of digital health. It has provided a remarkable way for doctors and patients to connect with one another in order to improve treatment outcomes quickly and efficiently, and it allows physicians to gain a holistic view of their patients' health. The importance of digital health technology has grown over time, particularly since the COVID-19 pandemic, which has resulted in the advancement of digital health. Fit improves patient-doctor relationships, increases disease prevention methods, and creates a shift toward value-based care in addition to increasing access to health information. The course will help students develop the concept of digital health in their organization and workplace, as well as the skills to apply what they've learned to achieve better health outcomes.

2. *Goals and Objective*

Goal

The main goal of this course is to develop the knowledge on digital health and its application in professional life.

Objectives

1. To build capacity of public health professionals in digital health

2. To illustrate with relevant digital health aids and how it can improve theoverall competiveness within and outside the organizations.

3. To equip participants with appropriate concept of digital health and its application in their workplace.

3. *Core Faculty for the Course*

S. No.	Faculty	Designation	Institute
1.	Dr. Sonu Goel	Professor	PGIMER, Chandigarh
2.	Dr. Keerti Pradhan	Professor	Chitkara University, Punjab
3.	Dr. S. N Panda	Professor	Chitkara University

4.	Dr Sanjay Sood	Associate Director & Project Director (eSanjeevani)	CDAC Mohali
5.	Er Prem Anand	Vice President	Program Development, Apollo Tele Health Services
6.	Er Sidharth Angrish	Founder	Jiyyo health
7.	Dr Amit	Assistant Professor	Department of Telemedicine, PGIMER
8.	Ms.Akanksha	CEO of TrioTree Technologies	TrioTree Technologies Pvt Ltd
9.	MR.Ishaan Singh	Co-Founder & Head Strategic Alliances | Cognihab	Cognihab: VR Solutions for Healthcare

Other Course faculty

The course faculty shall be eminent healthcare management professionals and experts from various public and private healthcare organizations, health care program leaders from national and international agencies, faculty from „Centres of Excellence" in healthcare and management sector, and grass-root community health senior program managers involved in innovative healthcare initiatives.

4. *Course duration*

The total duration of course is **1 week (14-Aug-2023 to 18-Aug-2023)**

5. *Course Curriculum and schedule*

The course mainly focused on the areas of digital Health

Course schedule:

The Course schedule will be covered in total 5 days.

Day 1- 4: Live / recorded lecture followed by assignment and discussion

Day 5: Action plan preparation and presentation

PROGRAM SCHEDULE
Digital Health
E-INTERNATIONAL PUBLIC HEALTH MANAGEMENT DEVELOPMENT PROGRAM

Day & Date	Time	Topic of Presentation	Resource Persons
Day 1 **14/08/2023** **Monday**	12:30- 1:00 PM	Delegates e-Registration	
	01:00- 01:05 PM	Welcoming the Delegates	Dr. Kritika Program Coordinator
	01:05- 01:07 PM	Lamp lighting Ceremony (virtual)	
	01:07- 01:15 PM	Program Overview	Dr. Sonu Goel, Professor & Program Director, PGIMER
	01:15- 01:30 PM	Pretest	
	Lecture 1		
	01:30-03:00 PM	Digital Health Overview	Dr. Keerti B. Pradhan, Professor Chitkara University
	03:00-03:30 PM	Virtual coffee & Social media break	
	03:30-04:45 PM	Remote digital health care	Dr. S. N Panda, Professor, Chitkara University
	04:45-05:00 PM	Attendance and Feedback	
Day 2 **15/08/2023**	**Lecture 2**		
	01:00- 1:30 PM	Recap session	Participants
	01:30-03:00 PM	Application model in Public Health System: E-Sanjeevani program	Dr Sanjay Sood CDAC Mohali

4

Tuesday	03:00-03:30 PM	Virtual coffee & Social media break	
	03:30-04:45 PM	Private Health System: Apollo Telehealth model	Er Prem Anand, Vice President, Program Development, Apollo Tele Health Services
	04:45-05:00 PM	Attendance and Feedback	
Day 3 16/08/2023 Wednesday	**Lecture 3**		
	01:00- 1:30 PM	Recap session	Participants
	01:30-03:00 PM	Last Mile Healthcare Distribution Centres	Er Sidharth Angrish, Founder Jiyyo health
	03:00-03:30 PM	Virtual coffee & Social media break	
	03:30-04:45 PM	Providing specialty and super specialty tele-consultations to the primary and secondary care hospitals of SAARC nations- an experience of a tertiary care hospital	Dr Amit Consultant, Department of Telemedicine, PGIMER
	04:45-05:00 PM	Attendance and Feedback	
Day 4 17/08/2023 Thursday	**Lecture 4**		
	01:00- 1:30 PM	Recap session	Participants
	01:30-03:00 PM	HMIS and IT Application in Healthcare services	Ms.Akanksha, TrioTree
	03:00-03:30 PM	Virtual coffee & Social media break	
	03:30-04:45 PM	AR and VR in Healthcare	Mr. Ishaan Singh
	04:45-05:00 PM	Attendance and Feedback	
Day 5 18/08/2023 Friday	**Lecture 5**		
	01:00- 1:30 PM	Recap session	Participants
	01:30-02:15 PM	Preparation of action plan	Participants
	02:15 - 03:00 PM	Presentation and submission of action plan	Participants
	03:00-03:30 PM	Virtual coffee & Social media break	
	03:30-04:45 PM	Valedictory ceremony	
	04:45-05:00 PM	Attendance and Feedback	

*Lecture 45 minutes, 30 minutes assignment and 15 minutes for Q&A

6. *Course Teaching & Delivery Methodology*

- The course will be hosted and delivered online by Department of Community Medicine & School of Public Health, PGIMER.
- Live sessions and discussion
- Teaching Methodology: Multi-pronged adult learning pedagogy, video lectures, reading material, Quiz
- IPHMDP contest

7. *Course Fee*

As per ITEC rules and guidelines

8. *Registration*

It will be done online through the google link provided.

9. *Seats for the said course*

Maximum 50 participants and minimum 20

10. *Target audience*

Essential Qualification- Graduates and above

Desirable Qualification- Working in health care program/ projects.

This course will target public health professionals, students, implementers, academicians, social workers and people from other backgrounds who want to contribute towards public health.

11. *Age Limit*

45 years is the upper age limit for the said course.

12. *Course Outcome*

Benefit to the Participants

1. Develop the knowledge on digital health
2. Learn application of digital health for successfully managing the projects and strengthening the organization.
3. Enhance performance by utilizing digital health in their organization

Benefits to Organization

1. Improved managerial capabilities for dealing with patient care
2. Overall increased performance and productivity of organizations in attaining top ranked position.
3. Efficient health information system
4. Improves patient-doctor relationships, increases disease prevention methods, and creates a shift toward value-based care

13. *Course Certification*

A certificate of successful completion of course will be awarded at the end of the course.

14. *Prior experience of conducting the program*

Department of Community Medicine & School of Public Health, Post Graduate Institute of Medical Education and Research, India has been conducting a 10 day "**International Public Health Management Development Program**" **(IPHMDP) and 5 day ' Public Health Policy and Management Program".**   The program will impart the skills required to effectively manage the

existing and emerging public health challenges and in-turn enhance the capacity of the public health managerial workforce. Till now we have conducted seven physical programs from **2018 and 11 online E ITEC courses in last 3 years.** These program is entirely on **No- Profit Basis** and **first of its kind in the country** being conducted in government set-up in order to enhance management competencies which are absolutely essential for a good manager for improving the performance and productivity of organizations. The institute has been conducting several capacity building programs from last many years for national and internationalparticipants in collaboration with lead institutes and organizations.

Prior Experience of Program Director

Dr. Sonu Goel, Program Director of International Public Health Management Development Program is a medical doctor and specializes in PUBLIC HEALTH. He had done his MBBS and Post-graduation in public health from Indira Gandhi Medical College, Shimla. He is currently Professor in Department of Community Medicine and School of Public Health. He has over 20 years of rich experience in the field. He has written around 100 papers in national and international journals and authored2 books-one of which by Elsevier"s- „Hospital Administration-a problem solving approach" is among the hot-selling books in India. Besides this, he had authored over 35 chapters in several books. He received fellowships of three prestigious associations (Indian Public Health Association, Indian Association of Preventive and Social Medicine, and International Medical Science Association) and MNAMS, which is very unusual for a young faculty of his age. He is also an alumnus of John Hopkins School of Public Health, Baltimore, US and Maastricht University, The Netherlands. He is Adjunct Clinical Associate Professor, Public Health Master's Program, School of Medicine, University of Limerick, Ireland, and Honorary Professor, Faculty of Human and Health Sciences, Swansea University, United Kingdom. He is Director at e-Resource Centre for Tobacco Control, e-Learning for Public Health

Dr. Goel has a vast experience of teaching public health management and has beenactively involved in designing and implementation various courses for last 7 years. He had attended 4 UNION IMDPs viz. CML, PM, BFM, and MOM between years 2009 till 2011. Additionally, he had also participated in many technical courses including Operational Research course. Currently, he is supporting UNION"s technical courses and SORT-IT (South Asia Operational Research course) as external resource person for the last 4 years. He has a vivid experience of conducting trainings in liasion with various international and national organisation and agencies. He conceived as new model namely „**PGIMER-The Union OR model'** in 2014. He has a rich academic background in Public health management and is the reviewer of many journals of repute including WHO Bulletin, International Journal of Tuberculosis and Lung Disease; Public Health Action; Indian Journal of Public Health; Indian Journal of Community Medicine among many. He is member of many national and international scientific bodies. At this young age, he had completed more than 30 projects independently with almost 10 national and international organizations.

Organizational Capacity

PGIMER, Chandigarh:

The Postgraduate Institute of Medical Education and Research (PGIMER) is based in Chandigarh and was established in 1962 by then Prime Minister of India, Pt. Jawahar Lal Nehru. It was declared as an "Institute of National Importance" by an Act of Parliament of India on 1st April 1967 and is currently an autonomous body functioning directly under the Ministry of Health and Family Welfare, Government of India. PGIMER has almost all specialities and super-specialities departments. PGIMER has completed over 1000 research projects and more than 500 research articles are published every year in national and international indexed journals.

The Department of Community Medicine was instituted in 1977 with the purpose of developing effective models of health service delivery for rural communities and for providing community health orientation to public health professionals. To address emerging challenges in public health education and research, the Department was upgraded to School of Public Health (SPH) in the Tenth Five Year Plan of India (2002-06). It has a WHO supported LearningResource Centre within the premises. SPH also offers regular PhD, MD, Post Graduate Diplomain Public Health Management (PGDPHM), and Master of Public Health (MPH), along with various short-term courses in areas of epidemiology, health management, health promotion,communicable and non-communicable diseases. SPH is also involved in several research projects in collaboration with national and international organizations and state governments. Each year nearly 45 training programs are conducted with an average attendance of 30 participants per course. Department also works in coordination with several leading national and international agencies such as DBT, ICMR, WHO, UNICEF, UNFPA, DFID, MOH&FW, and MOE&F that financially support research and training projects covering most public health areas

Executive Summary of last online Course- Management and Leadership in Public Health

Achieving universal health coverage by 2030 requires positioning qualified and skilled public health professionals, especially from developing countries and continents (India and other developing nations alike), who can plan, implement and monitor national health programmes and public health initiatives in order to improve performance of health care delivery system. Further, it is documented that Sustainable Development Goals (SDG) cannot be achieved without addressing availability and distribution of trained public health management officials. The available literature has cited that health initiatives in developing countries often fail because of lack of managerial competence.

In this context, an **International Public Health Management Development Program (IPHMDP)** was conceptualized in 2016 by School of Public Health and Department of Community Medicine which aims at enhancing the skills and competencies of middle and senior level program managers for strengthening efficiency of organizations in resource limited settings. In this well-ordered series, a five day **19th IPHMDP** was organized by Department of Community Medicine and School of Public Health, PGIMER, Chandigarh from 12th -16th December 2022. The program was fully sponsored by Ministry of External Affairs, Government of India under Indian Technical and Economic Cooperation (ITEC) Scheme. In this program, 41 participants from 9 countries namely Cambodia, Ethipia, Iraq, Maldives, Morocco, Myanmar, Nepal, Tanzania, Tunisia participated.

The current program is "**first of its kind'** public health management program in the country which endeavours to boost skills and competencies of public health professional for addressing local public health challenges and increase competency of organizations. The modules covered during this comprehensive program were specifically targeted to improve the health system strengthening related concepts and skills in the participants in order to enable them to apply this knowledge in their respective settings.

In order to ensure the application of learning during the program, every participant has submitted an '**A Management case** after completion of the program, in which they prioritised the areas (from the program) of implementation in their respective organization. The **key highlights** of the program were; its design which focused on learning through a mix of traditional formal learning methods (lecture, power point presentations, case studies) and informal learning methods (role plays, exercises, real case scenarios, management games and videos); its concept wherein focus was on application based learning in which the participants prepared an a management case on a problem for their organization they want to improve.

'IPHMDP Contests' was also organized during the program wherein various awards pertaining to different activities viz., most active social media participant, most participatory participant, best selfie and tag line, best logo representing the program, voracious reader, best cultural performer and best logo were honoured during the 'valedictory ceremony' of the program. The active participation by delegates was ensured by presentation of the reflection of key concepts/ teaching of previous day, participation in IPHMDP contest, management games/ energisers in between the sessions.

Beside academics, participants interacted informally with each other which actually helped in peer learning and developing network for future endeavours. Every day, few participants were also given opportunity to present daily recap of the event on preceding day.We also ensured to provide best resource material to participants, which will help them to design similar program in their country. All the activities during the program were actively uploaded on the IPHMDP Facebook page and Twitter page with appropriate hash tags social media (eg. #ITECNetwork, #MEA_INDIA #MOHFW_INDIA, #IPHMDP #PGIMER etc). A parallel e- mail account and whatsapp group was also maintained by the organizers to keep the participants updated (on daily basis) and to provide them assistance during the program.

During the program, the participants appreciated the overall quality of training along with the mixed teaching methodology. They felt that it was a wonderful experience with a blend of learning, through various teaching methods which they can apply in their organization. They revealed that the program was well planned, organized, managed and full of knowledge which can be truly implemented in their settings and across different organizations. They expressed their willingness to scale up the program in their respective organizations and countries.