

AN EXECUTIVE CERTIFICATE COURSE ON POPULATION HEALTH INFORMATICS



PURPOSE

The main purpose of this initiative is to deliver collaboratively an experiential learning based certificate program in Population Health Informatics by City University of New York (CUNY) Graduate School of Public Health and Health Policy and BRAC James P Grant School of Public Health (JPGSPH), BRAC University, Management Information System (MIS) of Directorate General of Health Services (DGHS) will contribute to the project as a valuable partner representing the Government of Bangladesh.

The program will create skilled workforce in Population Health Informatics in the South and South-East Asian region, essential to solve complex public health challenges of the 21st century. The scope of this project lies beyond capacity building of the health professionals in this region. Individuals trained will use principles of population health informatics to design, develop, implement, and evaluate human centered technology enabled interventions and innovations using community data at grassroots level to guide informed decision-making.

CUNY Graduate School of Public Health and Health Policy (CUNY SPH)'s mission is to promote and sustain healthier populations in New York City and around the world through excellence in education, research, and service and by advocating for sound policy and practice to advance social justice and improve health outcomes for all. CUNY SPH has a global expertise in population health informatics, and has successfully designed, developed, implemented and evaluated several human-centered technological interventions and innovations globally. CUNY SPH has also successfully launched the first CUNY executive program and fully online MS program in Population Health Informatics globally.



BRAC JPGSPH was founded in 2004 as an integral part of BRAC University to address the unmet public health challenges particular to Asia, Africa and South America. BRAC JPGSPH is uniquely known for its global, regional and national recognition. The School was featured by the Bulletin of the World Health Organization (WHO) in 2007 as one of the six innovative schools in the Global South advocating and pursuing ground-breaking, advanced public health education and research. In 2019, the School was featured in John Hopkins University's Global Health as a top School in the region. The mission of BRAC JPGSPH is to create innovative public health leaders and solutions through cutting-edge, experiential Education, Training, Research and Advocacy.

A UNIQUE COURSE ON POPULATION HEALTH INFORMATICS

- Collaborative executive Population Health Informatics training program
- Experiential learning opportunities in population health informatics
- Applying principles of population health informatics learning towards community data to enhance health and well-being of individuals, populations and communities they live in
- Creating a regional network of experts in the field ready to respond as a team to the next public health challenge



WHAT THE CERTIFICATE PROGRAM WILL OFFER?

The Certificate program is designed to help individuals gain an understanding of relationships between data, information, and knowledge. Individuals will also acquire knowledge about data standards, electronic means of data collection, design and evaluation of human-centered health information platforms, mobile health technologies, and multifaceted technology-enabled interventions.

The program will also discuss several health technology assessment approaches such as accessibility, heuristics, and usability. Individuals will acquire knowledge, skills, and expertise regarding the applications of Informatics to improve population health outcomes in various settings through different learning activities including online lectures, case study examples, assignments, reading, and experiential learning project.



MULTIFACETED LEARNING

Real Time Online Interactive Lectures

The course will be conducted through real time online interactive lectures followed by open discussions. Need based support and supervision will be provided by global faculty members and mentors. For flexible opportunities all the interactive lectures will be recorded. For continual support there will be readily available IT team who will support remote troubleshooting of academic and technical issues.

Peer Learning & Networking

Discussion sessions at the classes, presentations by the students and group assignments will provide opportunity for networking and peer learning among the students from different countries and professions.



Experiential Learning Project

The course provides a three months opportunity to each student for individual experiential learning project in any population health informatics research topic. The individual projects are directly supervised by the faculty of Population Health Informatics (PHI) executive certificate course program to give the students a real-time experience in population health informatics research.

REGIONAL HUB ON POPULATION HEALTH INFORMATICS

The project aims to establish a South and Southeast Asian regional hub for capacity building and collaborative research on population health informatics. The students and alumni of the executive certificate course will be recruited as members of the hub along with other academicians and researchers in this field. The Hub provides an excellent opportunity for cross-border collaborative research, learning, and networking among the various professionals of the South and Southeast Asian region who are interested in this field.

STUDENTS OF THE POPULATION HEALTH INFORMATICS EXECUTIVE CERTIFICATE COURSE

Two cohorts have completed the executive certificate course on population health informatics with total 33 students.

Students from different background completed the course. The participants were government officials, teachers, researchers, and public health officials.

Students from eight countries had participated in the course, namely, Bangladesh, India, Nepal, Afghanistan, Myanmar, Indonesia, Singapore, Cambodia.

GLOBAL FACULTY



Dr Md. Tanvir Hasan is currently working as an Associate Professor and Co-Director of Centre of Excellence for Urban Equity and Health (CUEH) at BRAC James P Grant School of Public Health (JPGSPH), BRAC University. He has more than 12 years of teaching and research experience. His expertise is in advanced statistical analysis, mixed methods research, evaluation research, longitudinal study and spatial epidemiological research.



Dr Jose Florez-Arango is an Assistant Professor/Academic Program Director, Department of Population Health Sciences, Weill Cornell Medicine. He was a Fulbright scholar and has experience in emergency medicine, prehospital care and emergency management, tropical diseases, global health, and telemedicine. As an Informatician, his previous experience includes clinical decision support systems, development of health information systems based-on international standards, mHealth, human-computer interaction, human factors, interoperability and controlled vocabularies.



Dr M. Shafiqur Rahman is an adjunct faculty and technical advisor (part time) at the JPGSPH, BRAC University. He is working as a Professor of Applied Statistics at the Institute of Statistical Research and Training, University of Dhaka. His main research areas include public health, epidemiology and biostatistics, focusing on development of new methods for analyzing data in public health and medical research. He is a member of the Bangladesh Statistical Association, International Biometric Society, International Statistical Institute, International Society of Clinical Biostatistics and an educational ambassador of the American Statistical Association from Bangladesh.



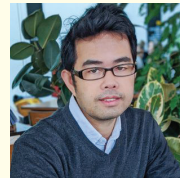
Dr Ashish Joshi, Dean and Distinguished University Professor, School of Public Health of University of Memphis is a global expert in population health informatics and is a primary author of the first book on “Population Health Informatics: Driving Evidence based solutions into Practice”. He is also a recently elected Chair of Global Health informatics Working group at American Medical Informatics Association.



Anis Fuad is a population health informatics researcher and lecturer with over 15 years of experience. He is also a member of the AeHIN (Asia eHealth Information Network) working council. He has been appointed as the Head of the Data and Information Division of PERSI (Indonesian Hospital Association) since 2021. He is currently the Head of the Cross-Cutting Research Group at the UGM Center for Tropical Medicine.



Professor Dr. Abul kalam Azad is the former Director General (DG) of the Directorate General of Health Services (DGHS) of the Government of Bangladesh. He initiated the digitization of the health information system in Bangladesh. He is currently serving as the Project Director for Better Health in Bangladesh at Management Sciences for Health (MSH).



Dr. Siyan Yi is Assistant Professor and UHS-SPH Integrated Research Programme Leader at NUS Saw Swee Hock School of Public Health; Director, KHANA Center for Population Health Research, Cambodia; and Adjunct Professor at Center for Global Health Research, Touro University California, USA. He has over 12 years’ experience in public health research, specially in infectious disease.

ADMISSION REQUIREMENTS

- Health practitioners, researchers, health professionals, and policy makers from both government and non-government organizations having minimum 4 years Bachelor Degree or equivalent Degree can apply.
- Professionals are expected to have 3-5 years of professional experience in the field of public health.
- Proficiency in oral and written English and basic Mathematics are required.
- Basic Computer skills including Microsoft Office and Data Analysis Software are required.
- Relevant experience and interest in the area of public health informatics is preferred.

TUITION & SCHOLARSHIPS

Students will be recruited based on academic merit and public health experience. The tuition fees for the program are fully covered by the project and supported by Students will be given need-based scholarships to complete their experiential learning projects, conduct research and make publications.

FOR ADMISSION INQUIRIES CONTACT

Md. Tanvir Hasan, PhD
Associate Professor
thasan@bracu.ac.bd

Ribica Chowdhury
Research Associate
ribica.chowdhury@bracu.ac.bd



Open Society University Network (OSUN)

www.opensocietyuniversitynetwork.org
info@opensocietyuniversitynetwork.org



CUNY Graduate School of Public Health & Health Policy
55 W 125th St, New York, NY 10027, United States | www.sph.cuny.edu



BRAC James P Grant School of Public Health, BRAC University

6th Floor, Medona Tower, 28 Bir Uttam AK Khandakar Road, Mohakhali C/A, Dhaka 1212, Bangladesh. Telephone: +880-2-48812213-18 | www.bracjgph.org