



## Summary Report

### **Public Health Supply Chain Management | Batch - IV** *Pakistan's First-Ever Online Certificate Course in Supply Chain Management*

With the technical assistance of  
**USAID Global Health Supply Chain Program**  
Procurement & Supply Management

Funded by:



## CORE MANAGEMENT TEAM



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## **1. Overview of UHS and USAID GHSC-PSM Program Collaboration**

University of Health Sciences is a public-sector university located in Lahore, Pakistan. It offers both graduate and undergraduate programs in the field of health sciences. Recently, in collaboration with the USAID Global Health Supply Chain Program – Procurement and Supply Management (GHSC-PSM) project, UHS Lahore launched its first International Certificate Course in Public Health Supply Chain Management (SCM) in March 2019, building on the success of its first and second national short certificate course launched in May 2018 and November 2018, respectively. This first-ever e-course in Supply Chain Management is primarily designed to train public and private sector officials working in SCM or relevant fields. The course aims to enhance the capacity of the SCM workforce, in order to cope up with the ever rising challenges in the domain of public health supply chain. UHS and GHSC-PSM project's collaboration dates back to May 2017, when a series of consultative sessions held between the Vice Chancellor and faculty of the University of Health Sciences Lahore, the Country Director and team of GHSC-PSM project, the Provincial Minister for Special Education and Tertiary Health Care department, Government of Punjab. As a result of these consultative meetings, UHS initiated short SCM courses for enhancing the workforce capacity of public and private sector organizations with the technical assistance of USAID GHSC-PSM project.

## **2. LOU Background**

On July 12, 2017, the University of Health Sciences (UHS) with the GHSC-PSM project's support, conducted a National Symposium on the introduction of a 3-Credit Supply Chain Management (SCM) course to the wider academic and public health community at UHS, Lahore. The symposium, under the chairmanship of the Punjab Health Minister for Specialized Healthcare and Medical Education, was attended by the Federal Secretary of the Ministry of Health Services, Regulations and Coordination, the Provincial Secretary of the Punjab Population Welfare Department, the Vice Chancellor of UHS, UHS faculty members and course participants, representatives from affiliated medical colleges, vice chancellors of other universities, and officials from the Punjab government's Departments of Health and Population Welfare.

A Letter of Understanding (LoU) was also signed between UHS and the USAID GHSC-PSM project during the event, with the SCM curriculum handed over to the UHS Department of Public Health by the project team. Training of Trainers (ToT) was also conducted by the GHSC-PSM project team for UHS faculty, in order to enable them to independently implement the three-credit course.

## **3. Importance of Public Health Supply Chain Management Course**

A well-functioning health system is only as strong as the people who run it – nurses, pharmacists, health facility staff, warehouse managers, and others – all play a crucial role in ensuring the right supplies reach the right people at the right time. Achieving this vision of a health system requires, at its core, a professional and well-trained supply chain workforce. The purpose of the course was to build a cadre of

a supply chain professional from within the government structures to enable them to translate the knowledge in the job setting, leading towards improved public health supply chain functions.

#### **4. Launching of Online Public Health SCM Certificate Course | Batch – IV**

Department of Public Health, UHS, Lahore in collaboration with i+solutions Netherlands, and technical assistance with the USAID GHSC-PSM project offered Pakistan's first online five days Public Health Supply Chain Management e-course from 17<sup>th</sup> – 21<sup>st</sup> August 2020. United Nations Population Fund (UNFPA) through the funding of Global Affairs Canada (GAC) provided financial support for course fee for all participants of the course. This course was attended by public sector officials working at the federal and provincial level under Health and Population Welfare Departments, as well as participants from the private sector organizations.

#### **5. The Perspective of the United Nations Population Fund – Pakistan (UNFPA – Pakistan)**

Strengthening Supply Chain Management of Reproductive Health Commodities and Security is one of the key focus areas of UNFPA work. In Pakistan procurement of Reproductive Health (RH) Commodities is being managed by respective provincial and federal Governments. Availability of these RH Commodities at last mile is a big challenge due to the availability of trained officials dealing with SCM system at various level. Keeping in view these challenges, UNFPA approached UHS to run this SCM short course to enhance the capacity of SCM HR in procurement, storage, and transportation and distribution.

#### **The Role of i+solutions Academy, The Netherlands**

In order to achieve academic excellence in the field of Public Health Supply Chain Management, UHS conducted a series of online meetings with Dr. Griet Samyn and Dr. Carole Piriou of i+solutions and GHSC-PSM project team. The exchange of ideas from both sides opened new horizons of potential future collaboration. Also, i+solutions arranged a virtual tour of e-Learning Management System for UHS team. As a result of these meetings, UHS took the initiative to launch Pakistan's first-ever online certificate course in supply chain management to resume the suspended training activities amid COVID-19 pandemic and to accomplish the vision of making UHS the Center of Excellence in this important field among the regional countries.

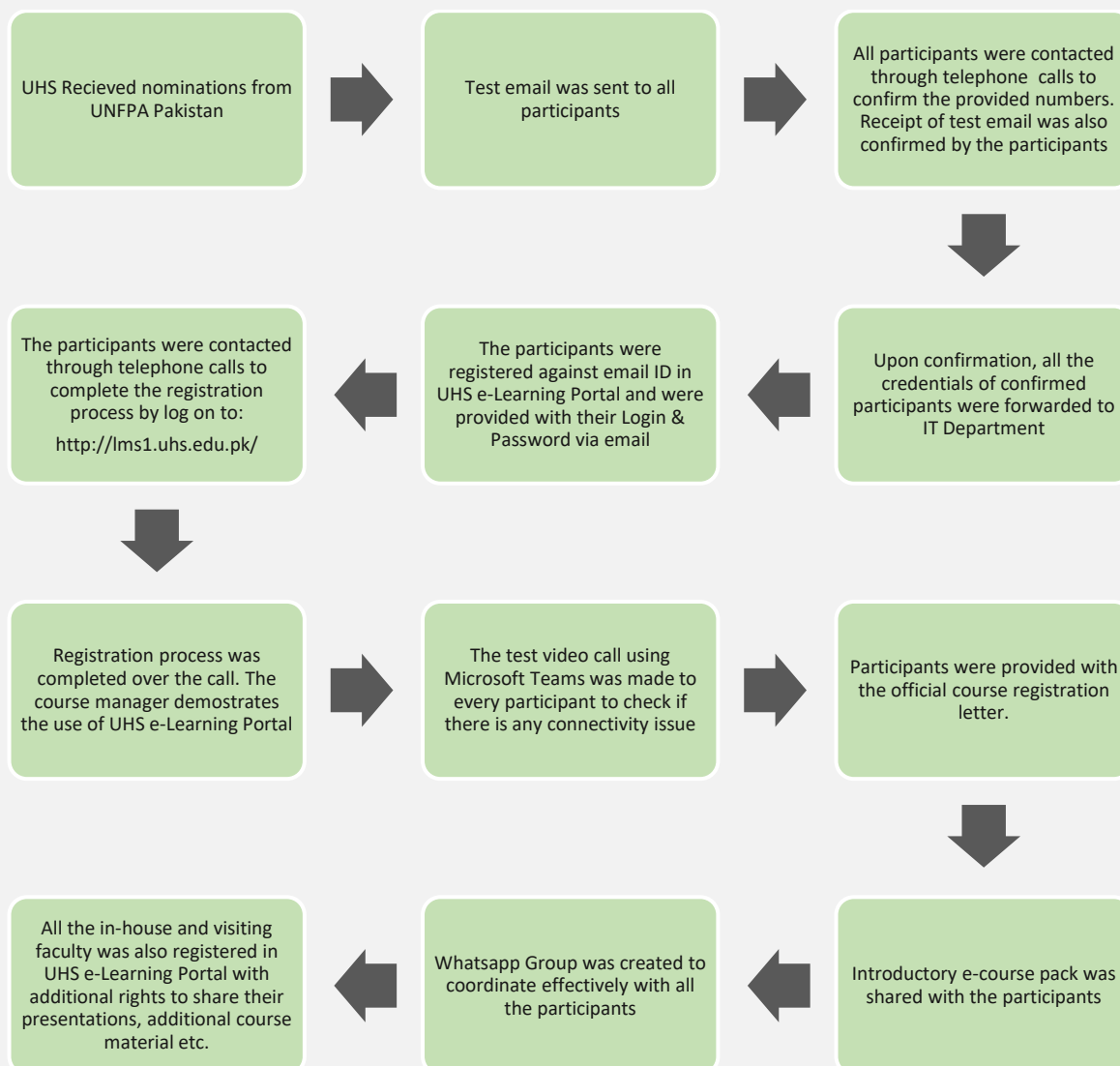
#### **6. Overview of Online Certificate Course Preparation**

The Public Health department, UHS, prepared course outline, handouts, and presentations in consultation with SCM experts of GHSC-PSM project. The course outline covered the overall public health supply chain management content with a special focus on Reproductive Health Commodity and Security. The course outlined the general concepts of public health SCM for infectious/ communicable diseases as well as improving overall basic health services.

## 7. The Registration Process of Participants and Course Facilitators

The registration process of the participants involved an exhaustive coordination by multiple stakeholders. Figure 1 shows the flow of the registration process:

**Figure 1.** Steps involved in the registration process of course facilitators and participants



## 8. Background of Participants

Most of the participants who attended the training course were from public and private sector supply chain institutions, including the Population Welfare Department (PWD) Azad Jammu & Kashmir, PWD Balochistan, PWD Khyber Pakhtunkhwa, PWD Sindh, PWD Punjab, PWD Gilgit Baltistan, Lady Health Worker (LHW) Program Balochistan, Maternal, Newborn and Child Health (MNCH) Programme Balochistan, MNCH Khyber Pakhtunkhwa, Population Program Wing – Ministry of National Health Services Regulations and Coordination Islamabad, Directorate General of Health Services (DGHS) Punjab, Greenstar Social Marketing Pakistan, (Guarantee) Limited, Sindh, Rahnuma-Family Planning Association of Pakistan, Punjab, Examination Department, University of Health Sciences, Lahore, United Nations Population Funds – Pakistan, and students from UHS.

## 9. Faculty for Supply Chain Management of Health Commodities (In-House)

Prof. Dr. Shakila Zaman, Head of Public Health Department | Mr. Imran Hameed Khaliq, Course Manager (SCM), Lecturer (Health Economics), Department of Public Health | Dr. Yaseen Abdullah, Lecturer, Department of Public Health | Ms. Khadija Asim, Lecturer (Nutrition), Department of Public Health

## 10. Visiting Faculty for Supply Chain Management of Health Commodities

Mr. Nabeel Ahmed Maqbool, Director Vaccines Preventable Infectious Diseases, | Ms. Ambreen Khan, Director Basic Health Services, | Mr. Masood Anwar, Public Health Supply Chain Specialist, from GHSC-PSM Project, Islamabad | Dr. Abdul Jabbar, Additional Director, EPI program, PSHD Lahore | Dr. Sajjad Ahmed, Prequalification Specialist (Medicine), PSHD Lahore | Dr. Ijaz Yusuf, Assistant Professor, and Director, Center for Supply Chain Research, Department of Operations and Supply Chain, School of Business and Economics, University of Management and Technology, Lahore

## 11. Overall Course Schedule

The overall course schedule of course was designed in chronological order in order to accurately convey the fundamentals of logistics management and the relationship between supply chain logistics and commodity security with a special focus on reproductive health and basic health services to participants.

**Day 1:** comprised of pre – certificate course test, setting the context of the course: commodity security, the significance of public health supply chain management, introduction to health logistics systems, and maximum-minimum inventory control systems.

**Day 2:** included topics such as health commodity storage and distribution, assessing stock status, reverse logistics, and green supply chain and logistics management information systems.

**Day 3:** covered mid-course evaluation, procurement, and quantification of health commodities.

**Day 4:** sessions comprised of monitoring and evaluation and introduction to the cold chain. Group discussion was also conducted on the same day regarding the challenges to and potential solutions for cold chain management in Pakistan.

**Day 5:** included a virtual site visit, final course evaluation, briefing on competency-based assessment, scenario development, and topic assignment for competency-based assignment and course conclusion.

## 12. Evaluation Results

The UHS conducted the pre-, mid-, and final course test as an evaluation method. The results showed that the average score of participants of pre-test was 6.471 score which was nearly half of the score of mid-course i.e. 11.167 and final-course evaluation i.e. 12.160. This indicates that the participants were able to understand the core concepts of supply chain systems which enable them to perform well in mid-



and final course evaluation with significant improvement when compared to their scores of pre-course test.

### **13. Training Delivery Methods**

All the lectures were delivered online using Microsoft Teams. The UHS e-Learning Portal was used as a material sharing platform.

### **14. Continuing Medical Education (CME) Hours**

All the successful participants who have completed the certificate course were granted with the 28 CME hours approved by Pakistan Medical and Dental Council (PM&DC).

### **15. Competency-Based Assessment**

Exams and evaluations are components of an essential didactic method that confirm a definable performance. In professional education, final exams and an official certificate of performance are important prerequisites for entry into the labour market. In order to comply with recent employers' requirements, the exams should be competency-based.

At the end of the course, UHS has assigned every participant with the scenario-based assignment. The successful participants will be rewarded with a certificate of competence once the assessment has been verified.

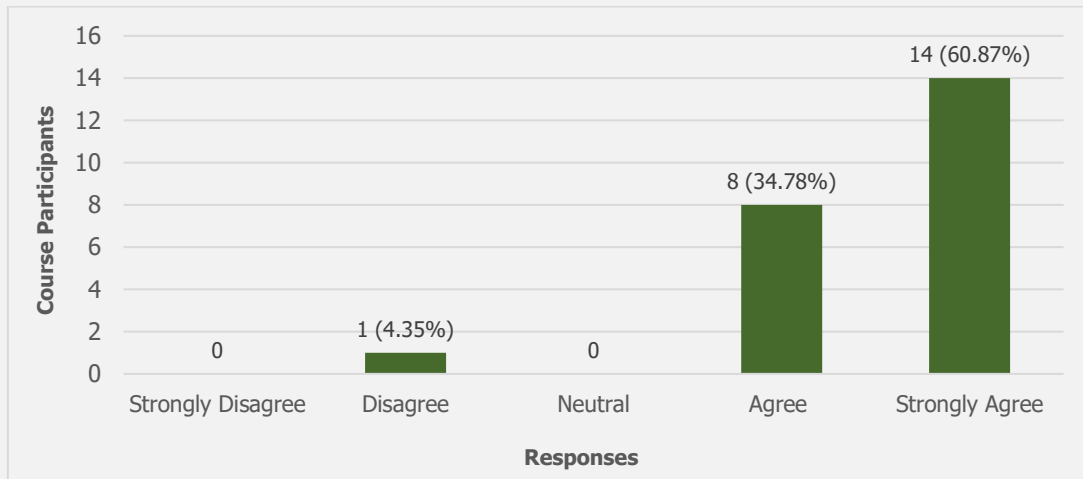
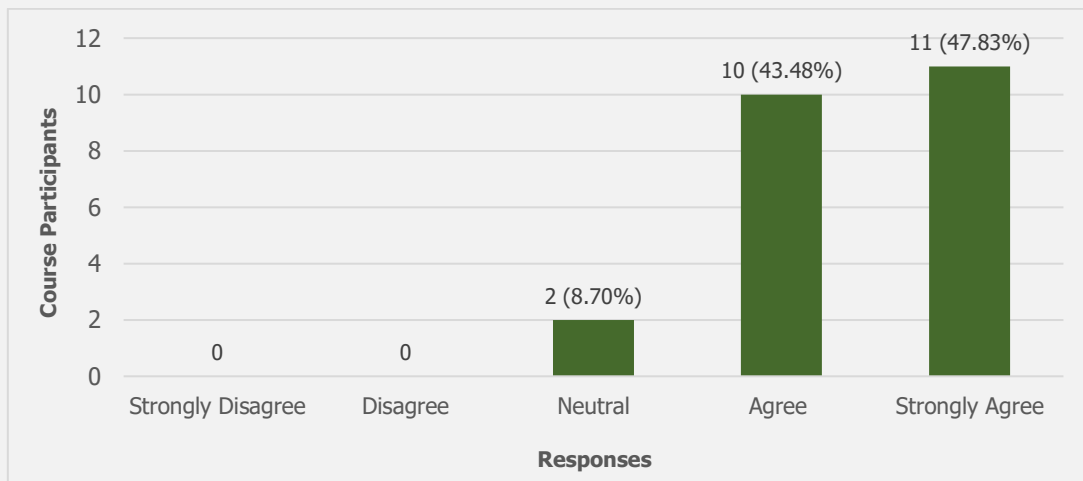
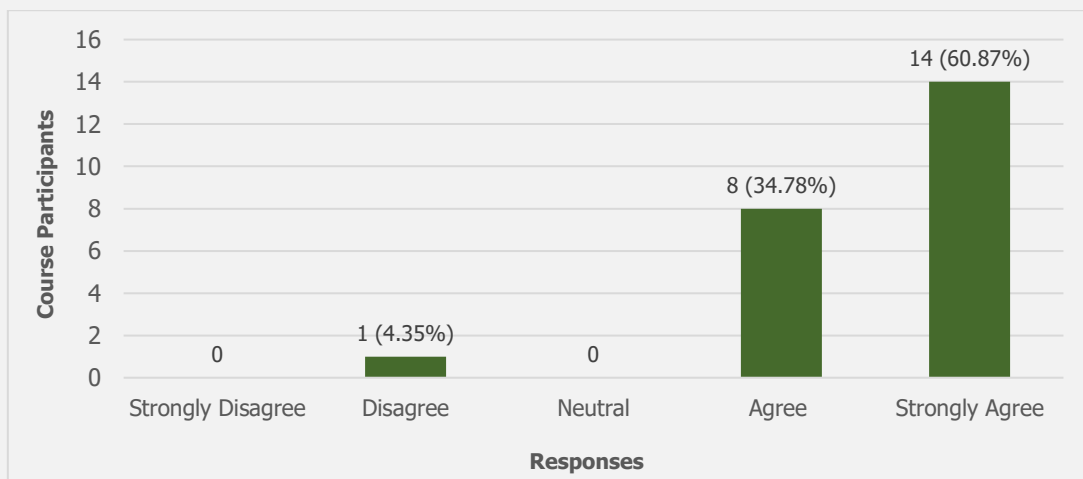
### **16. Participants' Feedback**

Feedback on the course was collected from participants at the end of the course, in order to identify possible areas for improvement. A total of 23 participants completed the certificate course evaluation questionnaire. Participants' feedback was collected regarding areas for improvement in training delivery and workshop logistics, etc. The responses were recorded using the below-mentioned scale:

<b>Scale:</b>	Strongly Disagree=1	Disagree=2	Neutral =3	Agree=4	Strongly Agree=5
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### ***Relevance of Workshop***

The feedback survey indicates that the course content designed by the UHS was relevant to their work and profession and well designed with the current supply chain trends and terminologies (Figure 2 – 4). Of the 23 participants, 14 (60.9%) participants strongly agreed whereas 34.8% (8) agreed that the course content was relevant to their profession. Moreover, 11 (47.83%) participants strongly agreed that the course was effectively designed and structured. Most of the participants (95.7%) were of the view that the course was related to current trends.

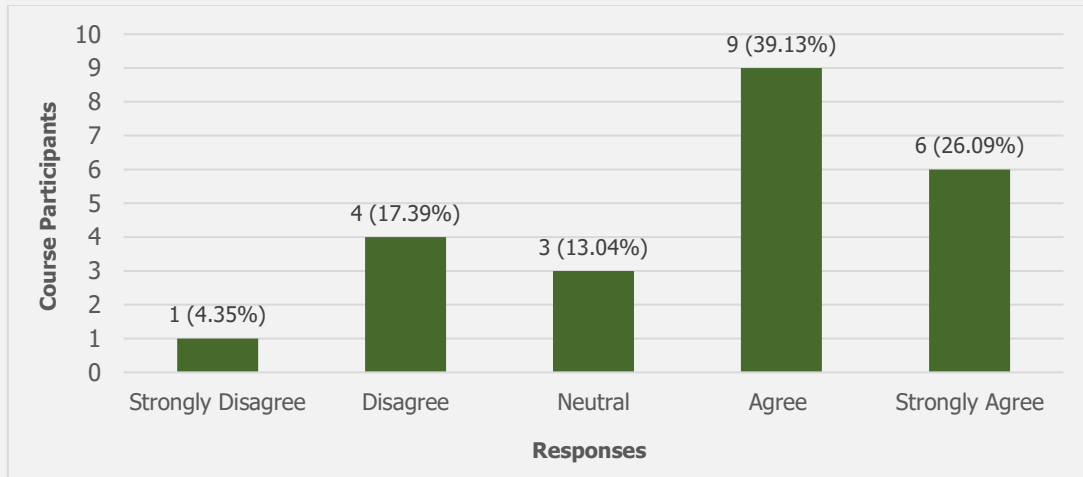
**Figure 2.** I am satisfied with the relevance of course content to my work**Figure 3.** I am satisfied with the topics being in line with my expectations**Figure 4.** I am satisfied with the course relevance to current trends

### **Training Delivery**

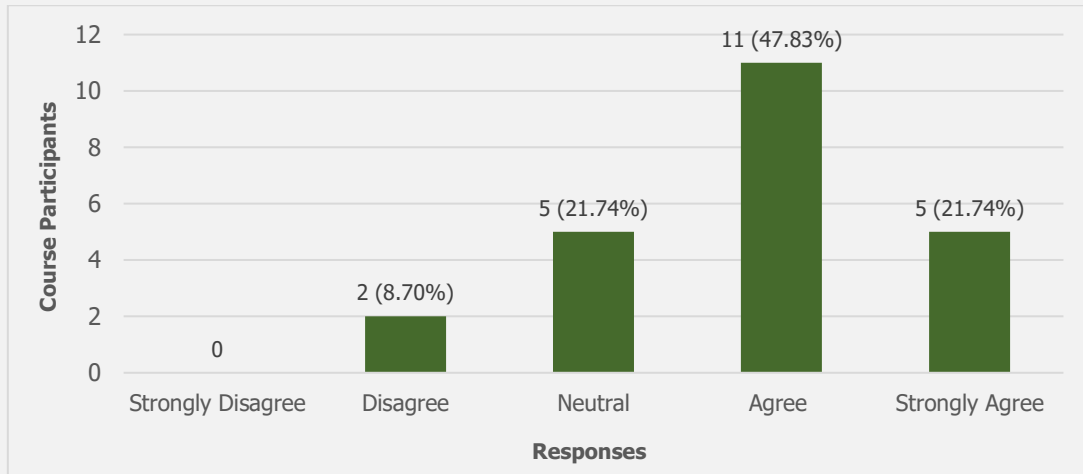
Figure 5 shows that 21.74% of participants were of the view that a greater number of days should be allocated to the course. However, 65.22% of participants were satisfied with the allocated duration of 5

days. Of the 23 participants, all respondents were satisfied with the workshop materials and certificate course aids provided by the UHS (Figure 8).

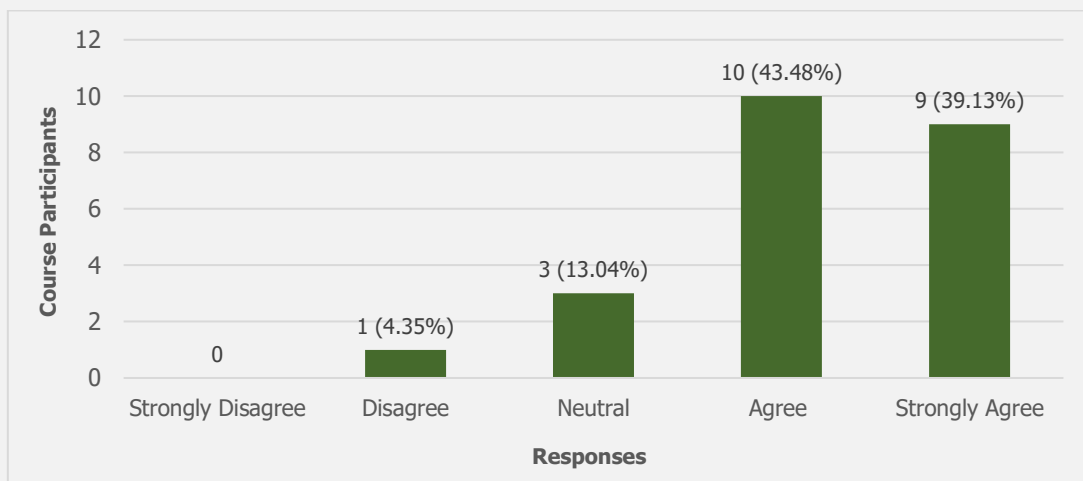
**Figure 5.** I am satisfied with the number of days allocated to the course



**Figure 6.** I am satisfied with the delivery method used



**Figure 7.** I am satisfied with the effectiveness of MS Teams for online lecture delivery



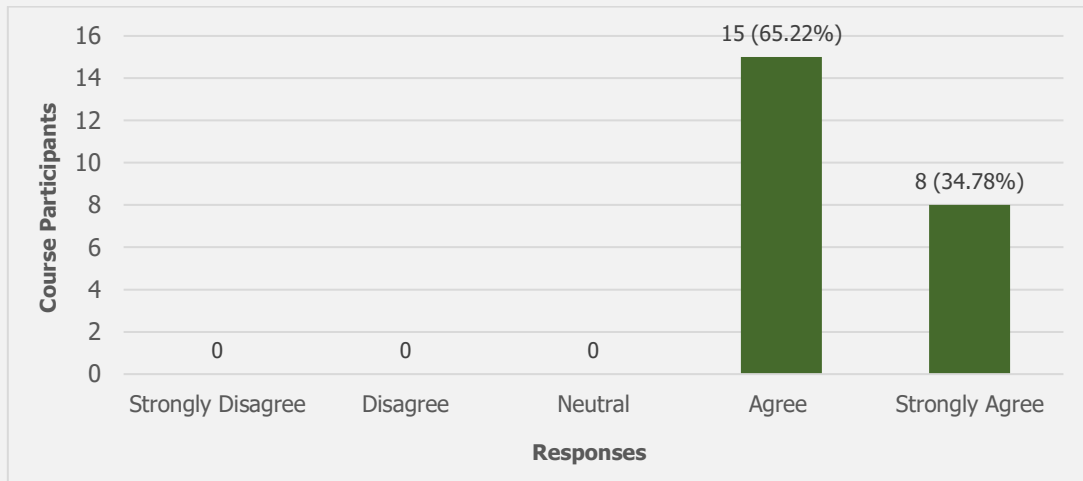
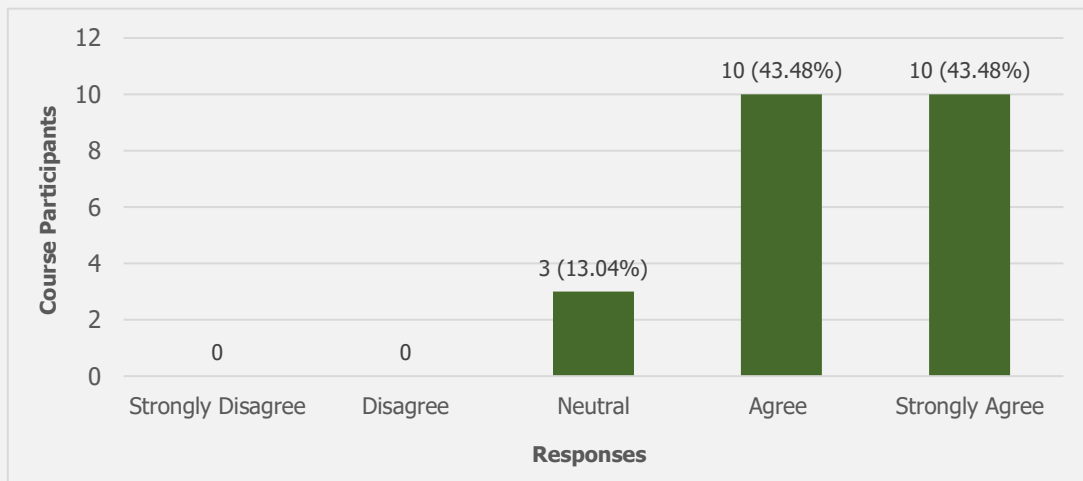
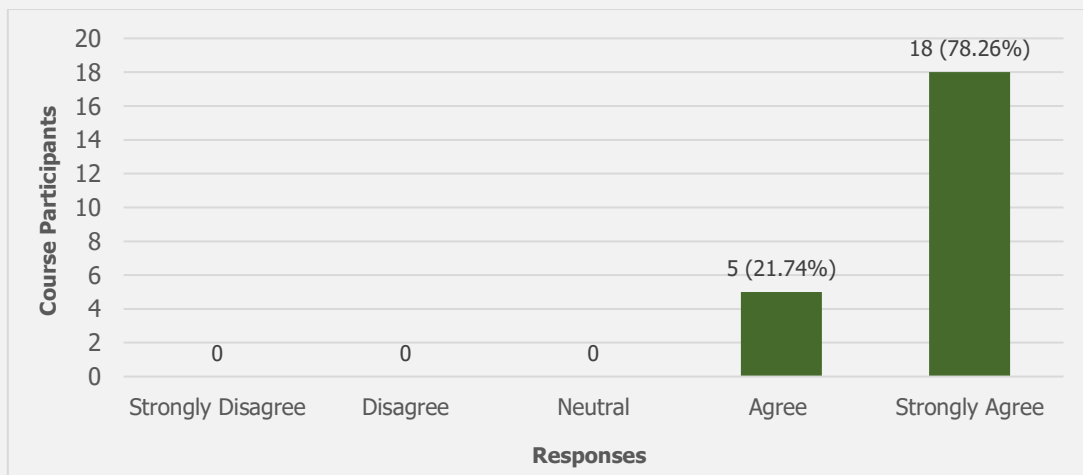
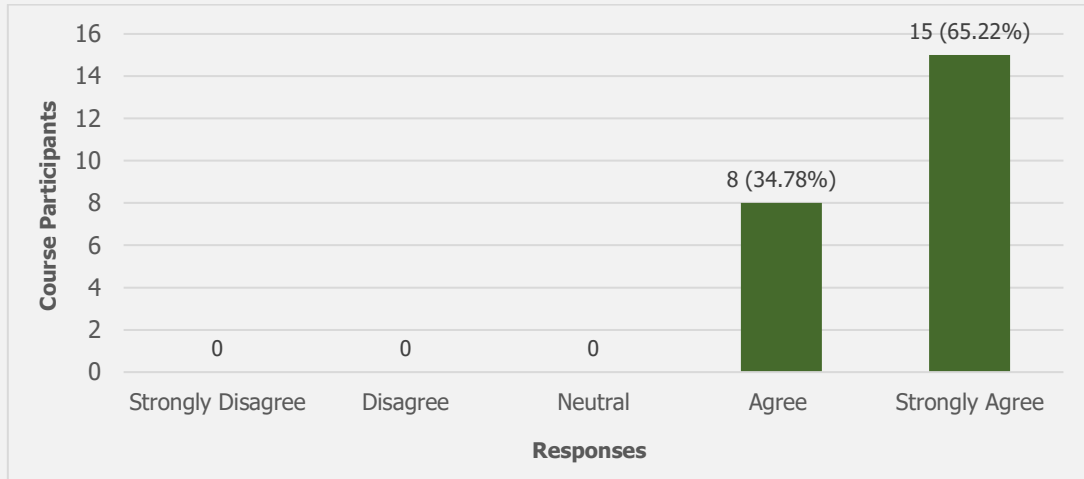
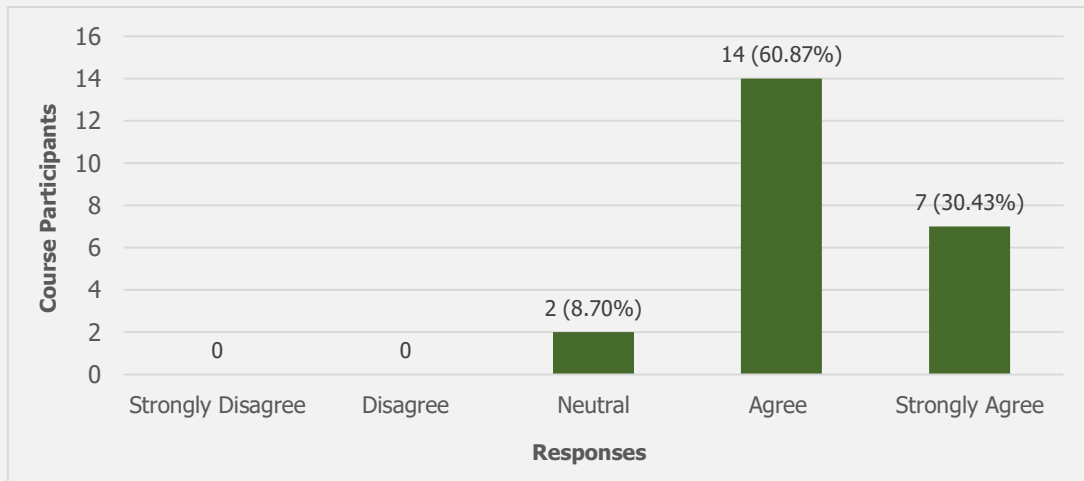
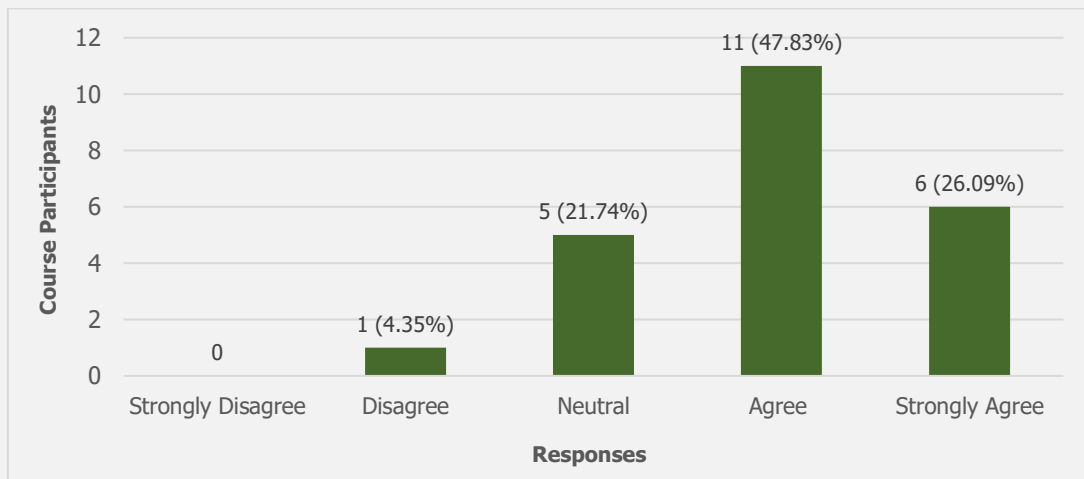
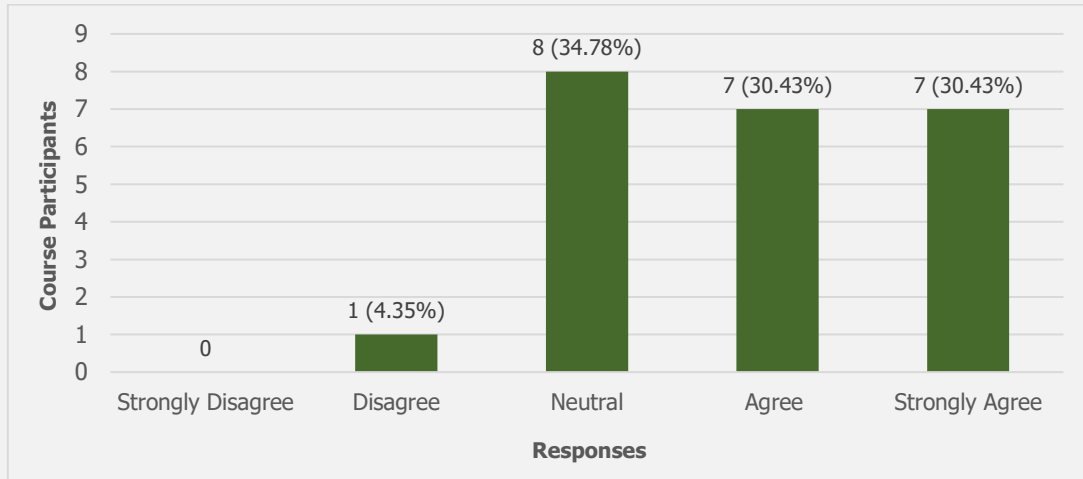
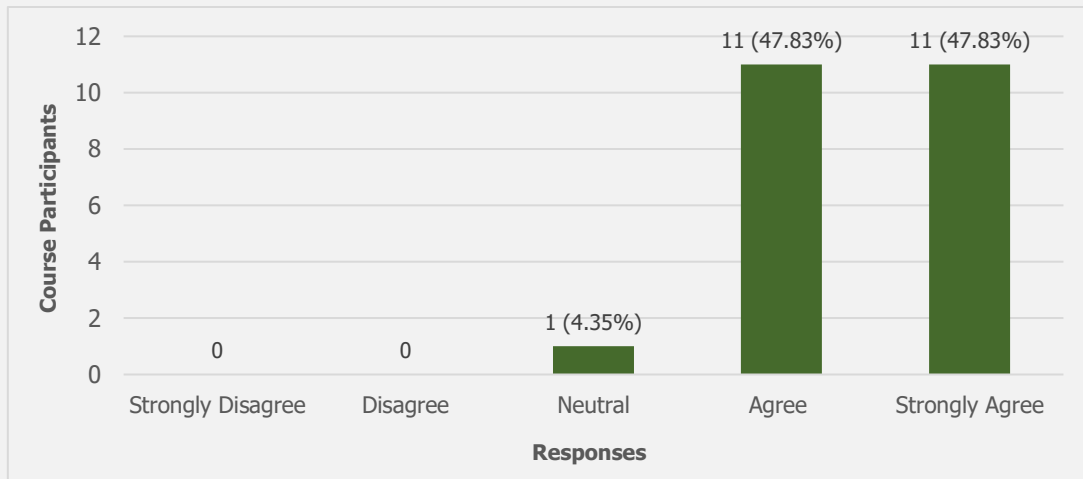
**Figure 8.** I am satisfied with the workshop materials and workshop aids

Figure 9 shows that the majority of the participants (86.96%) were satisfied with the effectiveness of the UHS e-Learning Portal. Most of the participants (78.3%) were strongly agreeing that the facilitators had a vast knowledge of the subject matter (Figure 10). The respondents were also satisfied with the information provided by the facilitator, the logical sequence of the topics and knowledge gained during the workshop, etc.

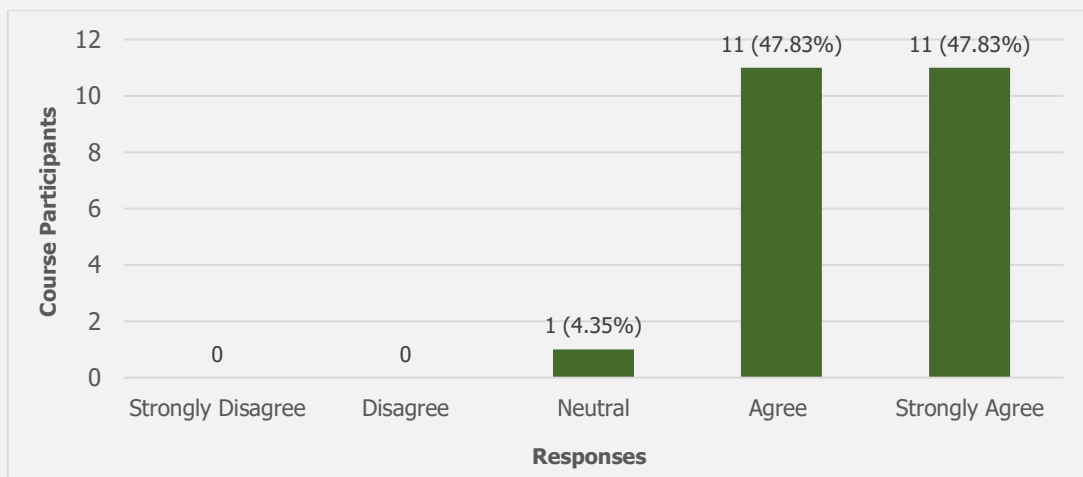
**Figure 9.** I am satisfied with the effectiveness of UHS e-Learning Portal for material sharing**Figure 10.** I am satisfied with the facilitator's knowledge of the subject matter

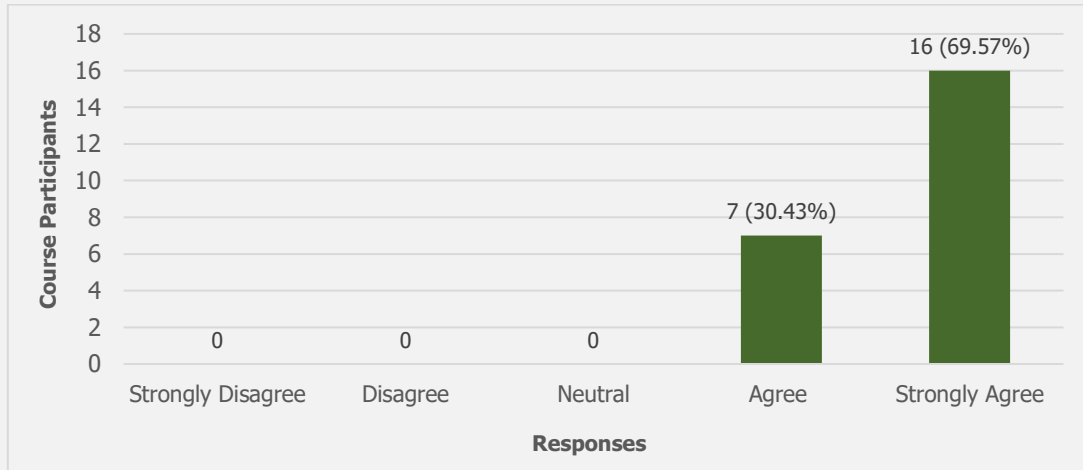
**Figure 11.** I am satisfied with the information provided and the presentation skills of the facilitator**Figure 12.** I am satisfied with the logical sequence of the topics**Figure 13.** I am satisfied with the illustration, examples, and practice sessions

**Figure 14.** I am satisfied with the time allocated for learners to discuss and ask questions**Figure 15.** I am satisfied with the knowledge gained during the workshop

### Course Logistics

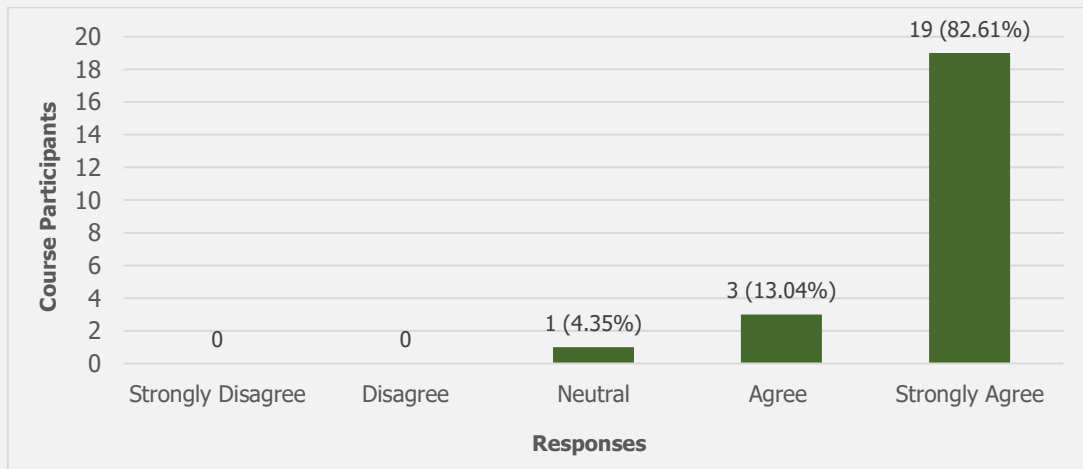
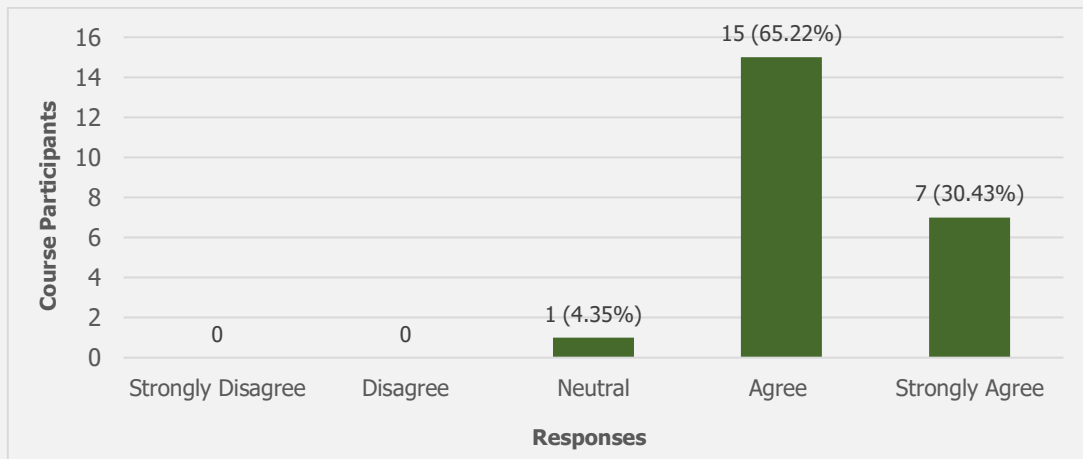
The course logistics provided by the UHS were well-regarded by the participants. Of the 23 respondents, 22 (95.7%) were satisfied with the support provided by the UHS and applauded it to a great degree (Figure 16). Figure 17 shows that 69.6% of the participants were strongly agreed and 30.4% of the participants were agreed that they were satisfied with the registration process.

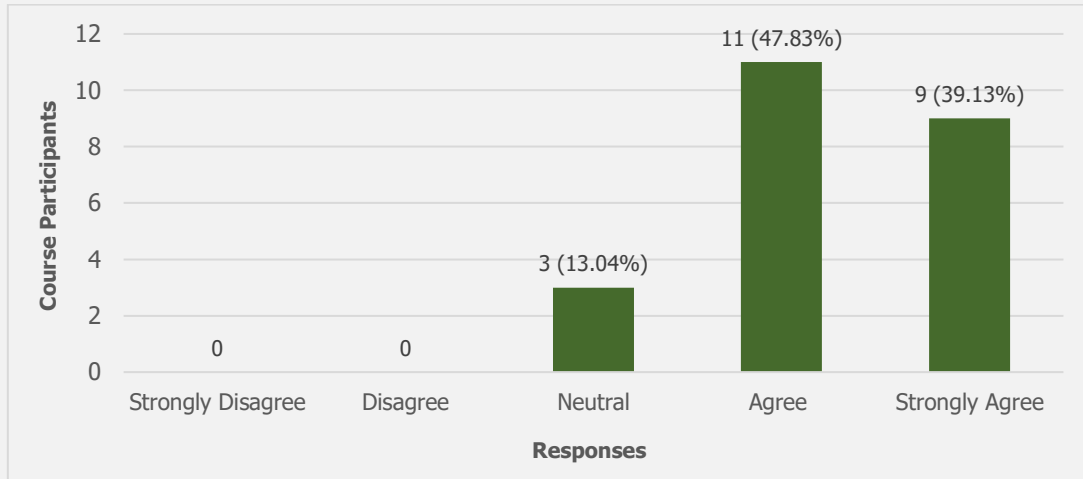
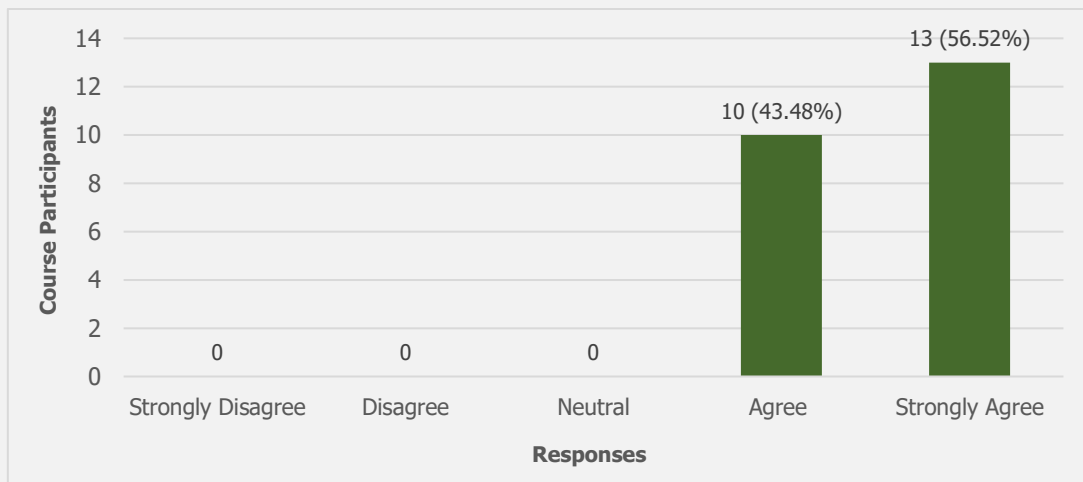
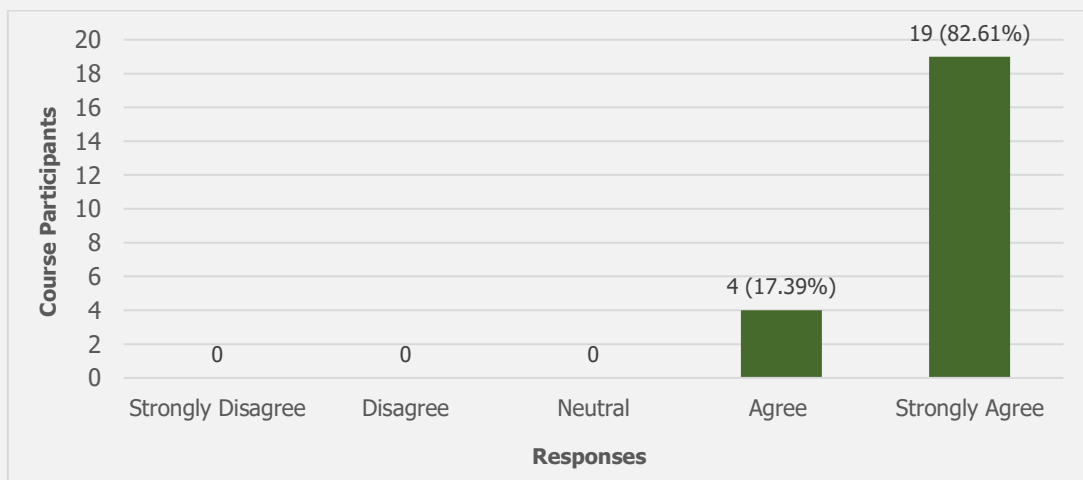
**Figure 16.** I am satisfied with the support during the certificate course

**Figure 17.** I am satisfied with the registration process

### General Feedback

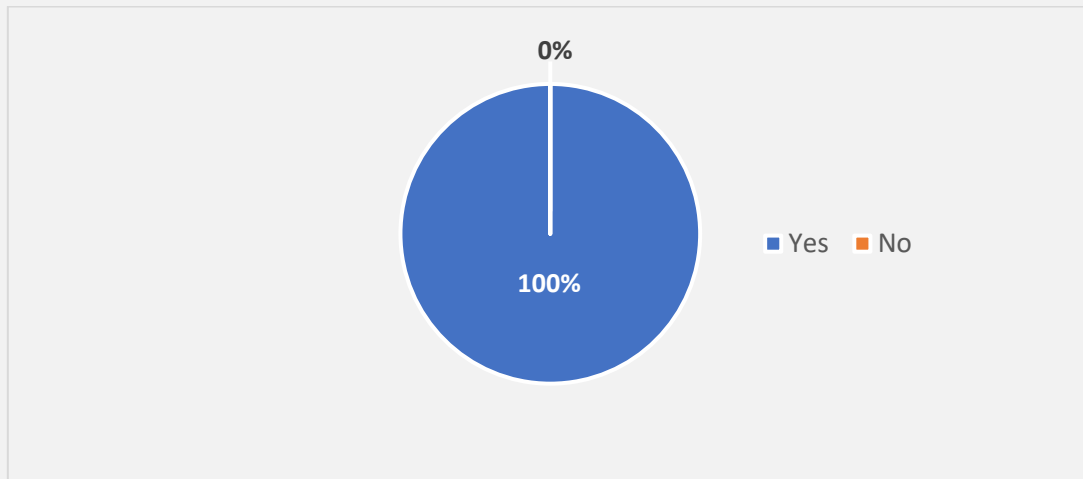
Figure 18 shows that most of the respondents (82.6%) were strongly agreed that the resource person was responsive. The satisfaction level of the participants concerning the overall delivery and content of the certificate course was also quite high (95.7%). Of the 23 participants, 82.6% were highly satisfied with the Course Manager's cooperation and administrative support (Figure 21). Also, all the respondents stated that their complaints were effectively redressed in real-time (Figure 22).

**Figure 18.** The resource person was responsive**Figure 19.** I am satisfied with the overall delivery and content of the certificate course

**Figure 20.** I am satisfied with how this workshop met my expectations**Figure 21.** I am satisfied with the Course Manager being able to refer my queries appropriately**Figure 22.** I am satisfied with the Course Manager's cooperation and administrative support

In response to the question, 'would you recommend this workshop to others?', all the participants (100%) stated that they will highly recommend this certificate course to the others (Figure 23). Figure 24 depicts a few responses of the course participants that why would they recommend this certification course to others.



**Figure 23.** Would you recommend this workshop to others?**Figure 24.** Why would you recommend this certificate course to others?

The training sessions were largely met with satisfaction and approval from all participants, as illustrated by the evaluation feedback results and comments from UNFPA and participants in the opening and closing

remarks of each session. This feedback provided a detailed insight into the elements of the training that went well, as well as the other elements that proved to challenge and could be improved moving forward.

### **17. Quality Assurance**

Quality assurance has been a vital element of the five days of training. The following approaches were adopted to monitor and ensure the quality of training:

1. The UHS team held regular pre- and post-session virtual/in-person meetings to address any issues.
2. Pre- and post-training assessment of participants was conducted to gauge their level of comprehension and impact of training.
3. UNFPA team had deputed an observer responsible to see overall session progress.

### **18. UNFPA Observer's Remarks**

The coordination and administration in conducting the course were found to be excellent right from registering the participants until completion of the course. The training was found to be throughout interactive with one on one support was provided by the University of Health Sciences (UHS) staff including the registration process, quizzes and ensuring proactive participation in the sessions. Some of the salient features offered by UHS during the course are as follows:

1. Easy and user-friendly access to the portal and along with supporting materials, uninterrupted connectivity.
2. The training material shared on the portal was coherent with the work by the participants and was found to be of great utilization in their day to day work
3. Attendance of the participants was ensured in all the session
4. The delivery of sessions and knowledge of the faculty was up to the mark
5. Most of the faculty members/facilitator were found to be a good listener as well, they provided ample time to the participants to express their views and resolve their queries.
6. Facilitators engaged all the participants and maintained the interest of the participant even being delivering online sessions
7. The limitation was observed on group work/exercise during sessions due to the virtual nature of the training.
8. Follow up of the training within 3-6 months was suggested to assess the utilization of training and on the job/ refresher training are suggested for participants to address the challenges faced by the participants' onward mentoring

### **19. Launch of UHS e-Learning Portal for Certification Course**

In 2011, the team of UHS IT Department including Mr. Faisal Amin Director and Mr. Masoud Rauf Database Administrator developed the e-Learning Portal to facilitate the Traditional Doctor of Physical Therapy. Until now, only a few departments of UHS including Public Health Department has used e-

Learning Portal for academic activities. For this online course, Department of Public Health and Department of Information Technology jointly customized e-Learning Portal by integrating MS Teams for online delivery of lectures.

## 20.Challenges

Noteworthy challenges include:

1. Setting up the UHS e-Learning Portal for virtual training.
2. Coordination with visiting faculty for timely virtual sessions.
3. Internet connectivity issues at times causing disconnects during the sessions.

## 21.Closing Remarks by UHS, GHSC-PSM Project, and UNFPA – Pakistan

“I have to once again thank my dedicated and committed Team for successfully running this very important e-course. Not only the Instructors at UHS but the visiting faculty rendered the support that made the programme a recognizable success. The support staff from IT did a wonderful job by taking up the challenge. My colleagues from i+solutions, Netherland were the ones from whom we took up the idea and finally completed it to the satisfaction of the participants and the facilitators. Some of the suggestions put forth by the Honourable UNFPA’s Observer for continuing with the follow-up and reconnecting for a refresher session with the participants were extremely useful. The follow up keeps the chain of learning going and can be an excellent way to add up newer knowledge and skills to the participants. I have to thank Dr Tariq for his consistent belief in our capabilities which makes us work even harder. Dr Jamil has always been very forthcoming and the support we got from UNFPA was extremely welcome in this time of COVID-19 pandemic. My thanks to the worthy Vice chancellor for making this e-course possible. My best wishes also would go out to the participants for showing patience and keenness to learn. In future, I look forward to plan out a course on Research in Supply Chain Management for developing a better insight into this important subject.”

*Prof. Shakila Zaman – Professor Emeritus, UHS*

The Country Director, GHSC-PSM project, Dr. Muhammad Tariq congratulated the UHS for successfully conducting the first-ever online five-year certification course on public health supply chain and thanked UNFPA for financial support. He acknowledged the leadership support of Dr. Javed Akram and appreciated the dedicated efforts of the UHS team under Dr. Shakila Zaman’s guidance for not only taking out time for interaction with i+solutions, a Netherlands based organization who offer online courses but also articulating the learning to the needs for Pakistan in-terms of a robust curriculum. He expressed the need to take this initiative forward in terms of launching specialized supply chain courses, that would allow professionals to get advanced knowledge on supply chain management. He assured to continue technical assistance by the project for UHS.

Dr. Jamil Ahmad Chaudhry, Program Specialist UNFPA Pakistan acknowledged the support of PSM-Chemonics and UHS management including VC Prof. Javed Akram, Prof. Shakila Zaman and especially Mr. Imran Hameed Khaliq, Course coordinator for hard work and dedication in completing this virtual

training in short span of time. He also thanked Federal and Provincial Officials of DOH and PWD for nominating relevant staff members for undertaking this short course. He shared that UNFPA will support in holding of short refresher course early part of 2021 by inviting this cohort at UHS Lahore. UNFPA will also look at the possibility of supporting another batch in 2021. He hoped that after attending training course participants will apply the knowledge in their daily work and also document the issues and bottlenecks and discuss and share with this cohort along with faculty members, and in this regards it will be a good idea to create WhatsApp group of the training participants.

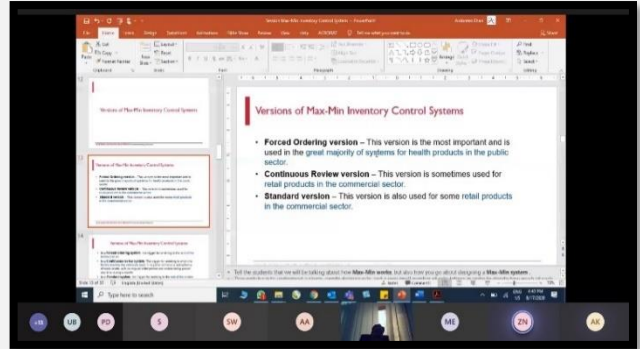
## **22.Way Forward**

1. Refresher training of the same participants will be supported by UNFPA in February – March 2021.
2. Customized supply chain training courses will be launched by UHS.

## 23.Event Photographs



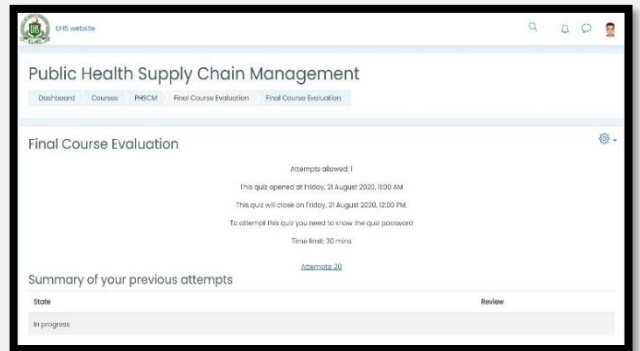
PROF. SHAKILA ZAMAN TAKING FIRST SCM ONLINE SESSION



MS. AMBREEN KHAN TAKING ONLINE SESSION – PRESENTATION VIEW



MS. KHADIJA ASIM CONDUCTING FINAL COURSE EVALUATION TEST



PREVIEW OF FINAL COURSE EVALUATION AT UHS E-LEARNING PORTAL



CLOSING REMARKS BY DR. JAMIL AHMAD CH – UNFPA PAKISTAN



CLOSING REMARKS BY DR. MUHAMMAD TARIQ – GHSC-PSM PROJECT



PARTICIPANT'S FEEDBACK – MS. GHAZALA (LEFT) AND MR. TAJ (RIGHT)



E-GROUP PHOTO



PREVIEW OF UHS E-LEARNING PORTAL

## 24.Social Media Response

**Muhammad Tariq** • 1st  
Country Director Supply Chain Systems: NUST Science and Technology Park, Isl...  
1mo • Edited • 🌐

University of Health Sciences, Lahore, [i+solutions](#), the Netherlands and the [USAID](#) funded [USAID Global Health Supply Chain Program-Procurement and Supply Management](#) partner to offer Pakistan's first online five days Public Health Supply Chain Management e-course starting from tomorrow. This first e-portal cohort is [Department for International Development \(DFID\)](#) funded through [United Nations Population Fund \(UNFPA\)](#). This was not possible without Professors and Associates [Javed Akram](#), [Shakila Zaman](#), [Imran Hameed Khaliq](#), [Griet Samyn](#), [Carole Piriou](#), [Yilma Melkamu Alazar](#), [Jamil Ahmed Jamey Butcher](#), [Andrew Brown](#), [Rebecca Logan](#), [Dr. Nisar Ahmad Cheema](#), [Ramy Guirguis,Ph.D](#), [Kate Crawford](#), [John Eyres](#), [Khalid Mahmood](#), [Muhammad Ahmed Isa](#), [Danielle Ulrich](#), [Thuy huong Ha](#), [Bahaa A.](#), [Wayne Lifshitz](#), [Nabeel Malik](#), [Ambreen Khan](#), [Khurram Shahzad](#), [Zafar Jamil](#), [Inamullah Khan](#) et al.....

Please accept [USAID Global Health Supply Chain Program-Procurement and Supply Management](#) & [Chemonics International](#) gratitude and thanks to you all for this multi-disciplinary partnership, this shall go a long way for countries in Asia and the World..... University of Health Sciences and [i+solutions](#), you have made all the difference.....

#pakistan #internationaldevelopment #partnership #Asia #academia



### PUBLIC HEALTH SUPPLY CHAIN MANAGEMENT

28 CME CREDITS    5-Days Online SHORT CERTIFICATE COURSE

Course Content	Facilitator	Time Allocation
<b>Day 1, Monday, 17 August 2020</b>		
<b>Inaugural Session</b>		
Recitation of the Holy Quran	Mr. Qazi Abulhasan Noor	09:55 AM to 10:00 AM
Welcome to Participants	Prof. Shakila Zaman, Head of Public Health Dept.	10:00 AM to 10:05 AM
Welcome Note	Prof. Javed Akram, VC, UHS	10:05 AM to 10:15 AM
Global Health Supply Chain Management	Dr. Muhammad Tariq, Country Director USAID-GHSC-PSM	10:15 AM to 10:25 AM
UNFPA Perspective	Dr. Yilma Alazar, Int. Family Planning Advisor UNFPA	10:25 AM to 10:35 AM
Introduction to the Course	Mr. Imran Hameed Khaliq, Course Manager SCM	10:35 AM to 10:50 AM

153 • 33 Comments

**Reactions**



**Muhammad Haq** • 3rd+  
Chief Medical Officer/ Senior Lecturer at Multipurpose Paramedical Tra  
How to get register in this online course?

**Brig Zafar Jamil (retd)** • 2nd  
Chief Executive Officer at SysReform International  
Congratulations for another milestone achieved.

**Amer Hasan** • 2nd  
Deputy General Manager at FFBL  
Congratulations

**Asif Aziz** • 2nd  
Head Of Supply Chain Management at Aman Health Care Services  
How to register in this course? Pls advise

**Durenaz Jamal** • 2nd  
Director- Sindh Blood Transfusion Authority at Department of Health-GoS  
Way To Go!!!!

**Muhammad Omair Asif** • 2nd  
Senior Procurement Officer at Pakistan Kidney and Liver Institute and Res...  
Want to join

**Andrew Brown** • 1st  
Senior Director, Health Workforce Development at IntraHealth International  
It has been a privileged to be part of the process

**Dr. Tabinda Sarosh** • 2nd  
Country Director, PK, Pathfinder International, Project Director #NayaQad...  
Excellent news. An important step forward for sustainability

**Mubarak Balarabe** • 2nd  
Pharmacist/Public Health logistician/Adaptive leadership Scholar  
I went to apply please, although am not from Pakistan

**Inamullah Khan** • 2nd  
Supply Chain & Procurement Advisor, COVID-19 & Hep-C, GHSC-PSM Pr...  
Wonderful and great achievement. Congratulations to Dr. Tariq and team. Now we have a public sector sustainable platform for supply chain capacity building and systems strengthening for the people of Pakistan as well as regional countries.  
Bravo... 🍌🍌

**Dr. Mazhar Iqbal** • 2nd  
Nutrition Officer at UNICEF  
Great initiative, congratulations. Can I discuss with you Individually,

**Sarfraz Hussain Kazmi** • 2nd  
Director at Rahnuma-Family Planning Association of Pakistan/IPPF  
Congrats Dr Tariq and team for another great initiative, keep doing great work.

**UNFPA Pakistan** @UNFPAPakistan · Aug 21

23 officials from Fed/Provincial DOH, PWD & NGOs trained on different components of Supply Chain Management in 1st of its kind, 5-days virtual training to improve management capacities & processes.

@UNFPAPakistan in partnership with University of Health Sciences Lahore.



**University of Health Sciences Lahore** @uhslhrofficial · Aug 19

A 5-day e-course on procurement and supply chain management started here at the University of Health Sciences(UHS), on Monday. The course has a technical collaboration of [i+solutions](#), the Netherlands, and the [USAID Global Health Supply Chain Program](#).



## SUPPLY CHAIN MANAGEMENT

Certificate Course (28 CME Credits)

University of Health Sciences (UHS) Department of Public Health in collaboration with [USAID Global Health Supply Chain Program – Procurement and Supply Management](#) proudly announces SCM certificate course in recognition of the growing importance of supply chain management with special focus on Public Health Supply Chain in Pakistan. The course is specifically designed to focus on all major areas of any logistics and supply chain that constitute an effective supply chain management system with particular reference to public health sector.

**Learning Objective:**  
The basic concept of this course is to equip students with the concept of knowledge and skills in supply chain management with the ability to build, manage and improve supply chains. This course will also help students in understanding the importance of management information system in any supply chain.



**Report Editor**

Imran Hameed Khaliq  
Course Manager (Supply Chain Management)  
Department of Public Health  
University of Health Sciences, Lahore

**Co-Editor**

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