

DOW UNIVERSITY OF HEALTH SCIENCES, KARACHI



SUSTAINABILITY REPORT Year 2021-2022



DUHS

3 GOOD HEALTH
AND WELL-BEING



THE GLOBAL GOALS

SDG-3 GOOD HEALTH AND WELL-BEING



Ensure healthy lives and promote well-being for all at all ages

GOOD HEALTH & WELL BEING - SDG 03

➤ Global and National Collaborations:

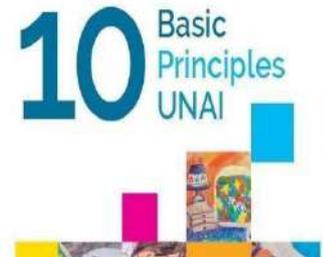
The Dow University of Health Sciences collaborated with different organizations / bodies at local, national and international levels to improve health and wellbeing.

At Global level, DUHS has developed a WHO collaborating Centre at Ojha Institute of Chest

Diseases (OICD)-DUHS for Tuberculosis (TB) Research.

Also, DUHS has acquired United Nation Academic Impact (UNAI) Membership Citation in April 2020, and as a member, values its commitment to its 10 principles, which include:

1. Commitment to the United Nations Charter,
2. Human Rights,
3. Educational opportunity for all,
4. Sustainability,
5. Capacity-building in higher education systems,
6. Global citizenship,
7. Peace and conflict resolution,
8. Addressing poverty,
9. Higher Education opportunity for every interested individual
10. The “unlearning” of intolerance.



Community Outreach Programs:

➤ Department of Community Medicine, Dow Medical College (DMC)

The Department of Community Medicine, DMC organized various outreach and awareness sessions for the community. Below is the event calendar hosted by the Community Medicine Department during 2021-2022.

➤ Outreach & Awareness Sessions

S. No	Event/ Course	Date	Venue	Facilitator/s
1.	Seminar on COVID19 Health promotion and prevention.	9 th July,2021	Arag Auditorium	Prof. Nighat Nisar, DR.Zulfiqar, Dr. Ashraf, Dr. Maham, Dr. Khalid
2.	Community awareness session on GTV child immunization against covid-19	12 th Sept, 2021	GTV	Dr. Khalid Shafi immunization against covid-19
3.	Community awareness Webinar on Child Immunization	28 th June 2021	Hashmanis Hospital	Dr. Khalid Shafi
4.	Effects of smoking on Community	4 April 2021	School of Public Health	Prof.Nighat Nisar, Dr. Khalid Shafi, Dr. Hasia Maham, Dr. Gati Ara
5.	Water Conversation	29 th September, 2021	4th Floor PDC,DMC.	Prof.Nighat Nisar, Dr. Khalid Shafi, Dr. Gati Ara
6.	Polio Advocacy	July, 2021	UC no 5. Khi.	Dr.Khalid Shafi
7.	Baby-Friendly Hospital Initiative	12 th February 2022	4 th Floor PDC,DMC	Prof.Nighat Nisar, Dr. Khalid Shafi, Dr. Hasia Maham, Dr. Gati Ara
8.	Baby-Friendly Hospital Initiative	16 th February 2022	Civil Hospital Khi.	Dr. Khalid Shafi
9.	26 Feb 2022 biennial conference gynae.	26 Feb 2022	P.C hotel	Dr. Khalid Shafi
10.	Green Youth Movement	August 2022	Arag Auditorium	Dr. Ashraf Jahangeer
11.	International APCP conference 10 to	10 th to 13 th March,2022	At PC Hotel. Lahore.	Dr. Khalid Shafi
12.	Baby-Friendly Hospital Initiative	11 th May 2022	NLH-1 at Dow	Dr. Khalid Dr,Hasina Maham Dr.Gati Ara
13.	Baby-Friendly Hospital Initiative	12 th May,2022	NLH-2 at Dow	Dr. Khalid Dr,Hasina Maham Dr.Gati Ara

➤ Evidence of Outreach & Awareness Sessions

HASHMANIS
GROUP OF
HOSPITALS

CHILDHOOD IMMUNIZATION
PROTECT YOUR CHILDREN

SPEAKER
DR. KHALID SHAFI
MBBS, DCH, MCPS, MPH, FCPS
Secretary General
Pakistan Pediatric Association
Associate Prof Dow University
of Health Sciences

MODERATOR
DR. SYEDA SADAF AKBER
MSC, PH.D
HASHMANIS GROUP OF HOSPITAL

28TH JUNE - 2021
DAY: MONDAY
TIME: 11: 00 AM

JOIN THE WEBINAR THROUGH [FACEBOOK.COM/HASHMANIS LIVE](https://www.facebook.com/hashmanislive)
PARTICIPANTS WILL RECEIVE E-CERTIFICATES

FOR REGISTRATION, SEND US AN E-MAIL AT SADAF.AKBER@HASHMANIS.COM.PK | 111-142-273 | www.hashmanis.com.pk | hashmanis



● Department of Community Medicine, Dow International Medical College (DIMC)

The department of Community Medicine has been involved in various community based activities along with DIMC students in coordination with several local NGOs.

S#	Activity	Date	Details	Faculty involved
1.	Breast Cancer Awareness Campaign	6 th October, 2021	An awareness Seminar including free Screening through physical examination was conducted among the community women visiting DUHS for various health related services.	Dr. Munazza along with CARE
2.	Participation with GreenYouth Movement, DUHS	March, 12, 2022	Awareness raising and participation in plantation activities	Dr. Munazza
3.	Children with Disability Day – Dar –UI –Sukoon	5 th March, 2022	The day was celebrated with disabled children at the facility along with members from Care NGO. Goodies and gifts were distributed by the CareNGO.	Dr. Vinod Kumar
4.	Heat stroke awareness campaign	26 th May, 2022	An activity was organized to raise awareness regarding heat stroke and to guide the community about the ways to avoid heat stroke in the hot weather of Karachi.	Dr. Munaza
5.	Visit at old home in Karachi– Dar-ul-Sukoon	4 th June, 2022	A planned visit was conducted at an old home located at Numaish Chowrangi, Karachi to organize playful and healthy activities for the old home residents. They were also provided with food and funds with the courtesy of medical students working with “Care” NGO. 120 Senior citizens were targeted through this activity.	Dr. Sana
6.	Blood Donation Day Drive by DIMC Students	14 th June, 2022	Students of DIMC along with members of Care NGO organized a drive.	Dr. Sana

➤ Evidence of Activities at DIMC



Department of Community Dentistry, Dow International Dental College (DIDC)

The Department of Community Dentistry, DIDC arranged free dental screening and oral hygiene awareness camps to provide quality health services for the benefit of General public. The details of community based projects done by the Department of Community Dentistry, DIDC are provided below.



List of Community Outreach projects of DIDC

S #	Project Name	Participants / Population	Project calendar	Project Area / Location
1.	Baby Mama School	340	June 2022	Banori Town, Gurumandar
2.	Muhammadi Girls School	75	May 2022	Malir
3.	Ali Boys School Dental Camp	150	April 2022	Malir
4.	Rangers 53 Dental Camp	200	March 2022	Punjab Colony
5.	Long Khoso Village Matyari	150	March 2022	Matyari
6.	Rangers 63 Dental Camp-Lyari	300	November 2021	Barrister Zulfiqar Law College- Lyari
7.	Rangers 53 Dental Camp-Qayyumabad	210	October 2021	Raahat Islamia Govt. School-Qayyumabad
8.	Pakistan Youth forum welfareTrust - Dental camp	100	October 2021	Aghaaz School- Lemo Goth
9.	Rangers 53 Dental Camp-Qayyumabad	276	July 2021	Raahat Islamia Govt. School -Qayyumabad
10.	Rangers 63 Dental Camp-Lyari	306	July 2021	Barrister Zulfiqar Law College- Lyari

➤ Evidence of Community Outreach programs of DIDC



➤ **List of Awareness Sessions at DUHS**

S. #	Event/ Course	Date	Venue	Facilitator/s
1.	Awareness session on "Monkeypox"	14 th June, 2022.	Dow Medical College	Volunteer Force against Hepatitis Transmission
2.	Awareness session on "Colorectal Cancer Day"	29th May, 2022	DMC Campus	Medical Unit, DMC
3.	Seminar on COVID-19 End of Pandemic	29th March, 2022	ARAG Auditorium, DMC Campus	Dow University of Health Sciences and Infection Control Society Pakistan
4.	One Day Hands-on Workshop on Basic Surgical Skills	19th March, 2022	Dow International Dental College and Hospital. DUHS	Dr. Narender Dr. Raheel Dr. Lubna Dr. Hasaan Department of Oral & Maxillofacial Surgery, DIDC, DUHS
5.	Awareness Session on Diabetes and Ramadan	7th March, 2022	National Institute of Diabetes and Endocrinology, DUHS	Dr. Zareen Kiran Consultant Endocrinologist
6.	Webinar on Rabies Awareness	27th February, 2022	Online Webinar	Dr. Muhammad Ubaid, Medicine & Dr. Sara Haider Director Health Wing by Adal aur Sehat
7.	Voluntary Blood Donation Camp by Patients' Welfare Association	23rd & 24th February, 2022	Dow Medical College, DUHS	DMC Campus, DUHS
8.	Gastrocon Conference	February. 2022	Dow Medical College, DUHS	DMC Campus, DUHS
9.	Awareness session on "Hepatitis History taking" workshop	22nd November 2021	Dow Medical College	Volunteer Force Against Hepatitis Transmission
10.	Session on Child Labour is a Crime	15th November, 2021	Dow Institute of Nursing and Midwifery	Dow Institute of Nursing & Midwifery, DUHS
11.	World Mental Health Day	11th November, 2021	BS Nutrition, School of Public Health	School of Public Health, DUHS
12.	World Diabetes Day 2021	12th November, 2021	National Institute of Diabetes Endocrinology, DUHS	DUHS

13.	(Green Youth Movement) GYM Club Orientation Session; Cleaning Drive-01	09th November, 2021	Institute of Business & Health Management	Ms Yasmeen, IBHM DUHS
14.	Pre Conference Workshop on Respiratory Care 2021	26th October, 2021	Dow Institute of Medical Technology, DUHS Ojha Campus	Respiratory and Critical Care Technology (DIMIT)
15.	Respiratory Care Conference 2021 (Resilience, Strength, Hope)	27th October, 2021	A.Q Khan Auditorium, DIMC, DUHS	Respiratory and Critical Care Technology (DIMIT)
16.	Breast Cancer Awareness Walk & Seminar	26th October, 2021	Dow Institute Medical College, Dow University Hospital, DUHS Ojha Campus	Dow Institute Medical College, Dow University Hospital
17.	Breast Cancer Awareness Drive 2021	23rd October, 2021	DMC Campus	Prof. Farhat Jaleel
18.	American Society for Microbiology (ASM) Webinar Series; COVID-19 and Mental Health	20th October, 2021	Online Webinar	Prof. Dr. Saeed Khan, Dr. Washdev Amar,
19.	American Society for Microbiology (ASM) Webinar Series; Oral Health and Dental Education during COVID Pandemic: Challenges & Way forward for Pakistan	13th October, 2021	Online Webinar	Prof. Dr. Saeed Khan, ASM Ambassador to Pakistan. Prof. Shahjahan Katpar DDC, DUHS
20.	Seminar on Mental Health in an Unequal World	13th October, 2021	A.Q Khan Centre, IBS/DUHS	Institute of Behavioral Sciences, A.Q. Khan Centre, DUHS
21.	Awareness Seminar on Tobacco Control	12th October, 2021	Arag Auditorium, DMC	Department of Community Medicine, DMC
22.	Interactive session on Water Conservation	29th September, 2021	PDC, DMC Campus	Department of Community Medicine, DMC
23.	World Oral Health Day; Oral Health Awareness Walk		DUHS Ojha Campus	Dr Ishrat-ul- Ebad Khan Institute of Oral Health Sciences, DUHS
24.	Plasma Donation Campaign		Online Webinar	DUHS

Smoke-free Campus

Dow University of Health Sciences has the Policy for Tobacco & Smoke Free Environment at DUHS which was created on April 11, 2020 and publicly available on DUHS website. The department of Community Medicine, Dow Medical College – DUHS organized an awareness session for all the staff and students on Smoking and Tobacco Control & Cessation, to encourage a smoke free environment. Moreover, The Marketing department of DUHS organized an anti-smoking team visit by Commissioner Karachi & WHO Representative on 16th June, 2022, in which DUHS was declared as Pakistan First Smoke-Free University.



➤ **Activities related to Culture, Health & Society**

Dow INSTITUTE OF NURSING AND MIDWIFERY

SUICIDE

GROUP MEMBERS

- SADRINA PERVAIZ
- MUSKAN SAMI
- KINZA QUEEN
- ASMA
- SALMA AZEEM
- ANSA INSAF ALI
- KAMLESH MALANI

FACULTY: SIR RAHIM JANDANI

- BSN GENERIC 3RD YEAR 4TH SEMESTER
- CULTURE HEALTH AND SOCIETY

DATE: 8TH NOV 2021

VENUE: LECTURE 2 GROUND FLOOR INSTITUTE OF NURSING AND MIDWIFERY

QUOTES:

- "PEOPLE DO NOT DIE FROM SUICIDE, THEY DIE FROM SADNESS."
- "IF ONLY THEY WOULD SEARCH FOR THEM, IT'S JUST THAT IT WOULD BE HARD TO GET YOU AWAY IN THE END."
- "SUICIDE ISN'T COURAGE. I'LL TELL YOU WHAT IS COURAGE: TREATING PEOPLE SO BADLY THAT THEY WANT TO END THEIR LIVES."

DOW INSTITUTE OF NURSING & MIDWIFERY

WOMEN ABUSE

BSCN YEAR III, SEM VI

SUBJECT: CULTURE HEALTH & SOCIETY

FACULTY: MR. RAHIM JANDANI

GROUP MEMBERS :

- KHEEMCHAND RATHORE
- DANICA DANIEL
- EIMAN RANA
- FARHAT AMAN
- FAZEELA YASEEN
- KAZIA ISHAQ
- SANTOSH KUMAR

WHO WILL SPEAK FOR HER IF YOU DON'T?

DATE: NOV 8, 2021

VENUE: AL-RAZI LECTURE HALL #2

DOW INSTITUTE OF NURSING & MIDWIFERY



➤ Seminar on Tobacco Control



SEMINAR ON TOBACCO CONTROL

In line with the Sustainable Development Goal (SDG) #3 the department of Community Medicine, Dow Medical College is pleased to announce an awareness seminar

Date: 12th October 2021

Time : 1:30- 3:00 PM

Duration:90 minutes

Venue: ARAG auditorium

Audience: Faculty, staff and students of DMC

Speakers:

Dr. Prof. Zulfiqar Shaikh

Dr. Hasina Maham

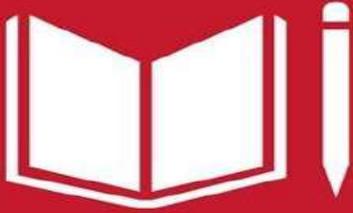
Dr. Sana Tanzil

Dr. Gati Ara

Dr. S. M. Ashraf Jahangeer



4 QUALITY EDUCATION



SDG- 4 QUALITY EDUCATION



Providing outstanding patient centered education, training and clinical care informed by cutting edge research and innovation generating and disseminating new knowledge

QUALITY EDUCATION – SDG 04

➤ Educational Activities

S. #	Event/Course	Date	Hosted by
1.	Endoscopic Hands-on Cadaveric Workshop on Skull /base Surgeries in Collaboration with World Federation of Neurosurgical Societies (WFNS) and Pakistan Society of Neurosurgeons (PSNS)	May. 2022	DMC Campus, DUHS
2.	Workshop on “Digital Markets Whatdo they have for You”	1st April,2022	Dow University BusinessIncubation Center, Ojha Campus.
3.	Exhibition and Competition of 3D- Models of Structural Biology of Viruses	1st April,2022	Dow Research Institute of Biotechnology and Biomedical Sciences (extension), Dow Diagnosticand Research Complex, DUHS
4.	CME Workshop on “Effective TimeManagement of Tools and Tricks”	29th March, 2022	Professional DevelopmentCentre, DMC Campus
5.	Seminar on Bovine Lumpy Disease:“Current Status and Way forward to Therapy and Prevention”	25th March, 2022	Dow College of Biotechnology, DUHS
6.	Live Webinar “AWARE on Management of Pneumonia and Rising threat of AMR in recent times”	21st March, 2022	GSK and Medical Microbiology & InfectiousDiseases Society of Pakistan; (Speaker: Dr. Azizullah Khan Dhilloo Assistant Professor, DMC)
7.	Inauguration Ceremony cumScientific Meeting & Workshop	3rd March, 2022	Karachi University & Association of Molecular &Microbial Sciences (Invited Speaker: Prof. Mushtaq Hussain Principal,DCOB, DUHS & visiting Professor Health Science Division, Loyola University Chicago, USA)
8.	DUHS Career Fair 2022	2nd & 3rd March, 2022	DUHS Ojha Campus
9.	Master Trainer Workshop on “BabyFriendly Hospital Initiative (BFHI)”	23rd- 25th February,2022	DMC Campus, DUHS
10.	International Conference on“Sustainable Development Goals”	21st to 23rd December, 2021	Office of Research Innovation & Commercialization, DUHSOjha Campus.

11.	Workshop on “Qualitative Research Methods”	14th November, 2021	Office of Research Innovation & Commercialization, DUHS Ojha Campus.
12.	Hands-on Workshop on “Scientific Manuscript Writing (for Impact Factor Journals)”	06th to 27th November, 2021	Prof. Kashif Shafique, Office of Research, Innovation & Commercialization, DUHS
13.	Hands-on Workshop on “IBMSPSS”	6th to 20th November, 2021	Office of Research Innovation & Commercialization, DUHS Ojha Campus.
14.	Workshop on “Study Designs”	05th November, 2021	Office of Research, Innovation & Commercialization, DUHS
15.	3rd Cochlear Implant Workshop	3rd November, 2021	ENT- Head & Neck Surgery, DIMC
16.	Seminar on “WHO Intrapartum Labor Care Guide Next Generation Partograph and Respectful Maternity Care”	28th October, 2021	Dow Institute of Nursing & Midwifery, DUHS Ojha Campus
17.	Seminar on “Multidisciplinary Approach to Thyroid Gland Diseases”	27th October, 2021	Professional Development Centre, DUHS
18.	Breast Cancer Awareness Walk & Seminar	26th October, 2021	Dow International Medical College, DUHS Ojha Campus
19.	1st Online Crash Course of Diabetes and Endocrinology for Endocrine Fellows	24th October, 2021	National Institute of Diabetes and Endocrinology, DUHS
20.	Inauguration of New Medical Physics Lab at DIPM&R	September, 2021	Dow Institute of Physical Medicine & Rehabilitation, DUHS
21.	Hands-on Workshop on Advanced Minimally Invasive Surgical Approaches to Spine with collaboration of Pakistan Society of Neurosurgeons (PSN)	July, 2021	DMC
22.	COVID-19: A Focus on Methylprednisolone, LMWH and Ivermectin	17th April, 2021	Online Webinar by The Impact Team UK

Executive Training or Vocational Training Programs

DUHS provides a platform for health care professionals by signing an agreement with Pakistan Institute of Quality. An executive education program which is Certified **Healthcare Quality Professionals**, and is open to all, not just those from the University. This program equips professionals to be certified as a Healthcare quality professional and the 4 months course provides lectures and interactive discussion sessions, each semester, open specifically to personnel working in health services or healthcare management.

Moreover, Dow University of Health Sciences has a separate department for training with the name of **Dow Skills Development Centre (DSDC)**. It is registered/ affiliated with Sindh Board of Technical Education Karachi and National Vocational & Technical Training Commission (NAVTTTC), and conducts Professional Computer Courses as well as regular vocational training for faculty/ staff. The program particularly focuses on key technical skill areas identified as the most crucial for Health Care Professionals at DUHS to improve the level of services DUHS is providing to the nation. However, there are specialized textile sector courses for girls in a safe & secure environment.

DOW UNIVERSITY OF HEALTH SCIENCES
DOW SKILLS DEVELOPMENT CENTRE

Dow Textiles Learning Factory for Disadvantaged Women and Young Girls

ABOUT THE PROJECT:
A learning factory represents a simulation of a real factory environment where students can gain hands on training in a skill by conducting various industry led projects, while also earning an income.

INVITATION FOR COLLABORATION

Why Should You Support This Venture?

The DSDC Stitching Unit was a running programme until the pandemic had to divert funding leaving hundreds of candidates stranded without any access to quality training.

Training in the tailoring trade has led to many women to become self sufficient, while also being able to support their families.

Total Funds Requested : PKR 2,187,000
(donation/grant)

WEB:
<https://www.duhs.edu.pk/new/dow-vocational-training-centre-introduction>
www.facebook.com/DOWVocationalAndTechnicalTrainingCentre

ADDRESS:
1st Floor, DWG Central Library Building,
DUHS Ojha Campus, Separco Road Off
University Road, Karachi, Pakistan.

farhankhan@duhs.edu.pk **0324-2940291** **021-38777111 Ext. 4331**

DOW UNIVERSITY OF HEALTH SCIENCES

The DOW SKILL DEVELOPMENT CENTRE (DSDC)
is now accepting admissions from September 1 to 30th 2022 for the following Government Certified courses:

CERTIFICATE IN INFORMATION TECHNOLOGY
(6 months)

MS-OFFICE ESSENTIALS
(3 months)

ENROLL NOW!
Last Date to apply: **30th September 2022** Classes Start from: **4th October 2022**

FEES:

CIT BATCH 4:
ONE TIME COURSE FEE: **RS 4,800** (payable at time of admission)
BOARD EXAMINATION FEE: **RS. 3,500** (payable at the end of 3rd month)

MS-OFFICE:
ONE TIME COURSE FEE: **RS.3,600** (payable at time of admission)
BOARD EXAMINATION FEE: **RS. 3,500** (payable at the end of 3rd month)

For Admissions and further information Please Visit:
DOW SKILL DEVELOPMENT CENTRE (DSDC)

1st Floor, Digital Library,
Dow University of Health Sciences,
Ojha Campus, G-12/2-e-R/R/Jr,
Superco Road, Scheme-33, Karachi

021-38771111 EXT 4331 **dvtd@duhs.edu.pk** **www.duhs.edu.pk/institutes/dvtd**

Executive Training, Workshop & Online Training Programs

Online Training Course on Infection Prevention & Control
Course Duration: 3.5 hours

What will you learn...

- Overview of Infection Prevention & Control
- Universal Precautions for Infection Prevention & Control
- Cleaning & Disinfection of Patient-care Environment
- ...and much more

Access the course now by following these 3 simple steps:

1. Create your account by visiting: www.duhs.edu.pk/lpc
2. You will receive an email with your log-in details and password
3. Log-in to the LMS with your email and password by visiting: www.duhs.edu.pk/lpc/login.php

Accredited 3.3 CME HOURS

For queries, email us: lpc@duhs.edu.pk

Workshop on QUALITATIVE RESEARCH METHODS

KEY FEATURES:

- Qualitative data collection tools
- Study designs in Qualitative research
- Ethnography phenomenological, grounded theory, and case study
- Validity of qualitative research
- Other important considerations in qualitative research

WHO CAN ATTEND

- Health Professionals
- Postgraduate Trainees

FACILITATOR
DR. SHAHKAMAL HASHMI
Program Director, Masters in Public Health (Health Policy and Management)

Dr. Shahkamal Hashmi is currently working at School of Public Health, Dow University and teaches various courses related to research and Policy. Before this he has previously served at World Health Organization (WHO) Euro head office in Copenhagen, Denmark.

Workshop Date & Time
Sunday 14th Nov. 2021
12:00 - 3:00 pm

Last Date of Registration
13rd Nov. 2021

INVESTMENT PKR 1,000/-

WORKSHOP VENUE
2nd Floor (School of Public Health), Nursing Building, DUHS OJHA Campus, Gulzar-e-Hijri, Scheme-33, Karachi

REGISTRATION
+92 3333554749
jawaid.ali@duhs.edu.pk

Workshop on STUDY DESIGNS

KEY FEATURES:

- Observational Studies + Experimental Studies
- Case Studies and Case Series
- Cross sectional studies
- Case control studies
- Cohort studies
- Experimental studies
- Choosing a proper study design for your research

Workshop Date & Time
Sunday 6th Nov. 2021 | 12:00 - 3:00 pm

FACILITATOR
DR. M. ZAFAR IQBAL HYDER
MBS (Doh), MPH (Biostatistics), MPH (Int. Community Health), PhD in Public Health (Epidemiology & Child, Post Doc. Canada), Professor of Public Health, School of Public Health, DUHS

Dr. M. Zafar Iqbal Hyder is a Professor of Public Health at School of Public Health, DUHS where he is teaching graduate and postgraduate students. Previously he served as a Research Supervisor in Post graduate training program in Community and Preventive Medicine, Jeddah, KSA. He has vast experience in research and medical writing with over 50 papers.

Last Date of Registration
5th Nov 2021

INVESTMENT PKR 1,000/-

WORKSHOP VENUE
2nd Floor (School of Public Health), Nursing Building, DUHS OJHA Campus, Gulzar-e-Hijri, Scheme-33, Karachi

For Registration
+92 333 3554749
jawaid.ali@duhs.edu.pk

RESPIRATORY CARE CONFERENCE 2021
RESILIENCE ♥ STRENGTH ♥ HOPE

CHEIF GUEST
Prof. Dr. NUSRAT SHAH (Pro VC DIMC)

CHAIR PERSON
Prof. Dr. SAMEER QURESHI (Principal DIMT)

GUESTS
Prof. Dr. Syed M. Zahid Azam (Medical Superintendent) DUH, DUHS
Prof. Dr. Salia Zafar Siddique (HOD Surgical ICU, CHK)

Speakers
Dr. Faisal Asad (HOD Pulmonology and Sleep Lab, DUH, DUHS)
Dr. Fakhir Raza (Associate Professor Critical Care SICU)
Ms. Iqra Abid Ali (Sidra Medicine Doha, Qatar)
Mr. Mohammad Shoukat (RT, RCP, Governor for Pakistan International Council for Respiratory Care)

PRE CONFERENCE WORKSHOP HANDS ON PRACTICES
Application of:
Non-Invasive ventilation
Invasive Mechanical Ventilation
Capnography

RESPIRATORY CARE CONFERENCE TOPICS

- Sleep pattern, Sleep disorders, Sleep health and role of RTs
- ARDS in Covid-19
- Weaning, Troubleshooting, and problem solving in ventilator management
- Experience and Role of RTs in Intensive Care Unit

PANEL DISCUSSION
COVID-19 Case presentation & Closing the gap: improving critical thinking skills for the RTs.

For Workshop:
DATE: 26th OCT 2021
TIME: 9:00am - 2:00pm
VENUE: DIMT 3rd floor Nursing building DUHS Ojha

For Conference:
DATE: 27th OCT 2021
TIME: 9:00am - 2:00pm
VENUE: Dr. A.Q Khan Auditorium, Ground Floor DIMC, DUHS (Ojha)

For Registration:
Email: row.int2021@gmail.com
FEE: 300/-
Contact: Phone: 0335-8467792
Mafia: 0321-2381012
Malahra: 0345-345021
Last date for registration: 24th Oct 2021

Targeted Audience:
Physicians, Respiratory therapists, Nurses, Paramedics and medical students

Organized by: Respiratory and Critical Care Technology (DIMT)

Hands-on Workshop on IBM SPSS

KEY FEATURES:

- Data management, data entry, transformation, re-coding, sorting,
- Descriptive statistic including tables & graphs.
- Testing of hypothesis using parametric tests.
- Correlation Analysis - Simple linear regression analysis.

WHO CAN ATTEND !!
HEALTH PROFESSIONALS & POSTGRADUATE TRAINEES

Last Date of Registration
5th Nov 2021

Every Saturday from 6th Nov to 20th Nov 2021

Time: 3:00 - 7:00 PM
Investment PKR 3,000

FACILITATOR
MS. SABA MUJHAL
M.Sc., M.Phil (Statistical), Lecturer, School of Public Health, Coordinator, PhD Advisory Committee
Ms. Saba Mujhal has been teaching to undergraduate and postgraduate students and taking them in research regarding data analysis since the year 2016. She has conducted several workshops of data analysis. Her research interests include categorical analysis, regression analysis, design of experiment, factor and principal component analysis and forecasting.

MS. HIRA FATIMA WASEEN
M.Sc., (Statistical), PhD Scholar (Statistics), Lecturer, School of Public Health, Coordinator, Scientific Committee
Ms. Hira Fatima Waseen has been teaching to undergraduate and postgraduate students since the year 2016. Her research interests include application of statistical techniques and modeling functional time series data. She has conducted training for data analysis using IBM SPSS in various educational institutions across Karachi.

WORKSHOP VENUE
Digital Library 2nd Floor (School of Public Health), Nursing Building, DUHS OJHA Campus, Gulzar-e-Hijri, Scheme-33, Karachi

For Registration
+92 333 3554749
jawaid.ali@duhs.edu.pk

1ST ONLINE CRASH COURSE OF DIABETES AND ENDOCRINOLOGY FOR ENDOCRINE FELLOWS
By National Institute of Diabetes and Endocrinology (NIIE), Dow University of Health Sciences (DUHS)

MODULE
REPRODUCTIVE DISORDERS

LECTURE
HYPOGONADOTROPIC HYPOGONADISM

SPEAKER
DR. UROOJ LAL REHMAN
Assistant Professor, JINRAH PGSD GRADUATE MEDICAL CENTRE, Karachi

DATE
24TH OCT. 2021 Sunday

TIME
3 - 4 PM.

Course Director:
Professor Akhtar Ali Baloch
Professor of Medicine
Director and Head of National Institute of Diabetes and Endocrinology

Course Coordinator & Moderator:
Dr. Zaroon Khan
Assistant Professor Endocrinology,
National Institute of Diabetes and Endocrinology

Course Facilitator:
Dr. Farooq Hassan
Senior Lecturer of Endocrinology,
National Institute of Diabetes and Endocrinology

WHO SHOULD ATTEND:
Primary target: Endocrine Fellows
Secondary target: MSc, Diabetes & Endocrinology, Diploma in Diabetes

For course registration, please CLICK:

CME Credit Hours for each Lecture: 1 hour
Registration Fee: 100 Rs. / Participant / Lecture

Lecture will be conducted for 40 min each, with a pre lecture and post lecture evaluation through 5 MCQs. There will be a Q & A session for 15-20 min. after each lecture.

Courtesy by
BH
Barrett Hodgson Pakistan (Pvt) Ltd

5

GENDER
EQUALITY



'EQUALIZING THE DIFFERENCE'



STOP GENDER DISCRIMINATION!

SDG- 5 GENDER QUALITY

An illustration on a light blue background. A man and a woman are sitting on a purple seesaw that is perfectly balanced. The man is on the left, wearing a blue t-shirt and dark pants. The woman is on the right, wearing a blue sleeveless top and white pants. In the center, a large light blue speech bubble contains the text 'GENDER EQUALITY' with an equals sign above and below it. The entire scene is set against a light blue background with some faint circular patterns.

GENDER
EQUALITY

Achieve Gender Quality and Empower All Women and Girls

GENDER EQUALITY - SDG-05

The Dow University of Health Sciences practices equal access to resources and opportunities, regardless of gender, including employment, admission and decision-making.

Women Applications and Entry

The scope of non-discrimination with regards to gender on admission of students is covered in the **DUHS Act 2004** (Policy document of the University) which states in Clause No. 5.1 Under Section that the University is Open to All,

“The University shall be open to all persons of either sex of whatever religion, race, creed, color who are academically qualified for admissions to the courses of study offered by the university and no such person shall be denied to the privilege on the ground of only sex, religion, creed, race, class, color”.

Furthermore, **DUHS demonstrates equal employment opportunity** without any discrimination to genders and encourages a participative work culture of equality and professionalism in all the endeavors at DUHS. These aspects include, hiring, learning, development, performance enhancement etc.

Women’s Access Schemes

Mentoring programs are being offered at constituent Institutes/ Colleges/ Schools at DUHS such as DCOP & DIPM&R. Furthermore, DUHS also have scholarship programs in which different scholarships are awarded to students and Ehsaas Undergraduate Scholarship Program is one of them. It is the country’s largest undergraduate scholarship program provided by the Higher Education Commission (HEC) -Pakistan, in which students are given need and merit-based scholarships, with 50% scholarships reserved for girls.

Maternity Policy

At DUHS, the maternity policy is in place from 2007 as mentioned in the Statutes of DUHS, Maternity Leave Clause No. 11 of the Section, Leaves Statutes of DOW University Statues 2007, which are translations of the Act (policy document for every university). However, the formal policy was created in 2019. As a semi-autonomous organization, we follow all Sindh government rules and regulations, which has granted paternity leave to employees as allowed through the Gazette of Pakistan 2019.

Childcare facilities for students, staff and faculty

Dow University of Health Sciences has Dow Day Care Center which offers a subsidized day care facility to the students, staff and faculty which allow them to continue their studies and ensure work compliance of all the employees. The Day Care provides child care services to infants of age 3 months to 5 years. It maintains a good hygienic environment by following standard child care practices under supervision of trained professionals. It also promotes early childhood development by providing facilities and engaging children in physical and interesting age-appropriate learning activities, day celebrations and by providing best hygiene, furniture equipment, meal, snack time, play time & sleeping time. The details can be found at provided web links of Day Care Centers at both campuses of DUHS.



Justice of Gender Discrimination



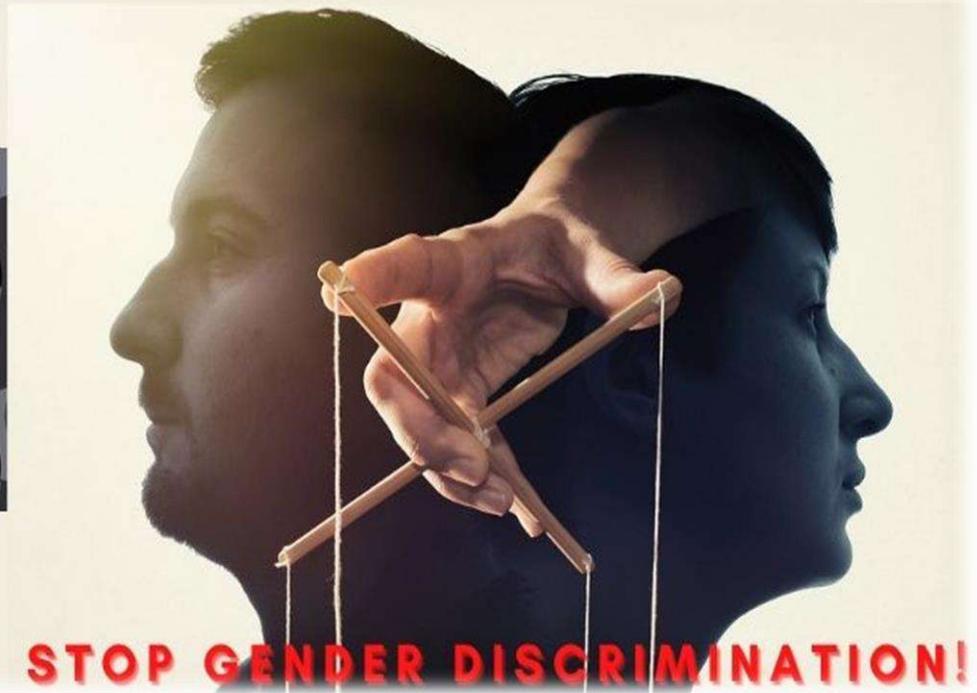
DOW INSITUTE OF NURSING & MIDWIFERY CULTURE, HEALTH & SOCIETY

'EQUALIZING THE DIFFERENCE'

**PRESENTED BY: BS NURSING GENERIC (SEMESTER VI)
FACULTY: MR. RAHIM JANDANI**

GROUP MEMBERS:

- MUSKAAN FAZAL
- INARA HAMEED
- VANESSA ARIF
- ANARA ASLAM
- SHALOM BURKIE
- MICAL JOHN
- FAZILA ZULFIQUAR

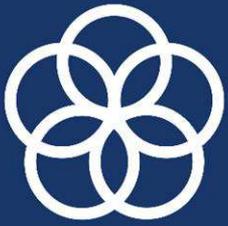


STOP GENDER DISCRIMINATION!

JOIN US AS WE STRIKE A POSE FOR THE JUSTICE OF GENDER DISCRIMINATION

**DATE: NOVEMBER 8TH, 2021
VENUE: LECTURE HALL 2 DIONM (GROUND FLOOR)**

**17 PARTNERSHIPS
FOR THE GOALS**



SDG- 17 PARTNERSHP FOR THE GOALS



**Strengthen the means of implementation and revitalize the goal partnership
for sustainable development**

PARTNERSHIP FOR THE GOALS – SDG 17

Collaboration with NGOs to tackle the SDGs

Dow University of Health Sciences has its own student run non-profit, non-political welfare organizations i.e. Pakistan Welfare Association (PWA), Dow Patient Care Association (DPCA), & Serve Our Community Health (SOCH).

PWA was established to help those in need, to remove the despair and unease from the lives of those patients who are struggling with poverty. Some activities by PWA for the year 2021-22 are as follows:

- AJM pharma celebrated Thalassemia Day with Thalassemia services of PWA and arranged a small celebratory activity in Thalassemia Day-Care Centre Hall 2.
- PWA held an awareness session 'Tackling Thalassemia' for the students and faculty of Dow Medical College in the Muin Auditorium on 18th May 2022 pm. The session included a panel discussion with esteemed hematologists Dr. Saqib Hussain Ansari, General Secretary of Omair Sana Foundation and Dr. Samra Waheed, consultant hematologist at Patients' Welfare Association who answered queries related to Thalassemia necessary for building adequate awareness. As a public service effort, Essa laboratory sponsored free HB Electrophoresis testing for the attendees so they may know if they are Thalassemia minor and can take adequate measures in the future. Gracing the event was a parent of our Thalassemia patient, Abdul Hadi who shared her story of providing Thalassemia management for Abdul Hadi and about her experience at PWA.
- June 2022, Out of hospital cardiac arrest, training sessions were conducted for volunteers of PWA to ensure improved efficiency of volunteers in the field, and they are ready to serve whenever needed.
- In collaboration with Saaya, Mental health awareness session was conducted for parents and gift distribution for patients on 28th June 2022,



PATIENTS' WELFARE ASSOCIATION®
A NON-GOVERNMENTAL, NON-POLITICAL, DMC STUDENT-RUN ORGANIZATION

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امیدیں بے حساب

اپنی زکوٰۃ و عطیات PWA کو دے کر
امید بھری ان آنکھوں کو نئی زندگی دیں

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PATIENTS' WELFARE ASSOCIATION

SPONSOR BLOOD TRANSFUSION OF A THALASSEMIC

RS. 3,000
PER MONTH PER CHILD

DPCA, or Dow Patient Care Association, was founded in 2012 and is a resident non-profit, non-political welfare organization that aims to bridge the gap between needy patients and healthcare.

In addition to their focus on addressing patient financial needs, DPCA regularly participates in community awareness initiatives and public health movements to improve the quality of life on Ojha Campus and the surrounding area.

- Breast Cancer Awareness Day Bake Sale (September 6th, 2021)
A sale of baked goods in order to fundraise in honor of breast cancer awareness day with literature to educate regarding this condition for visiting students.
- Stress and Anxiety Workshop with Dr. Anil Wadhawani (Oct 16th, 2021)

A workshop in which our dear professor, psychiatrist Dr. Anil Wadhawani led a workshop for students on how to define and manage stress.

- World Diabetes Day (November 12th, 2021)

A collaboration of DPCA with the Diabetes and Endocrinology department (Dr. Akhtar Ali Baloch) on Ojha Campus, where a large event was hosted to educate the public of the dangers of untreated diabetes and a march was conducted in support of early diagnosis and management.

- Heat Stroke Awareness (May 26th, 2022)

The distribution of 1,000 ice-cold water bottles with educational literature was disseminated in front of the OPD of Ojha Campus as a result of the facilitation by Dr. Iftekhar and supporting faculty.

- DPCA Blood Drive (June 14th, 2022)

Over 70 blood donors were received for blood donation.



Serve Our Community Health (SOCH) is a non-profit, non-governmental welfare organization run by the students of Dow Medical College, and it's working for the betterment of Dr. Ruth Pfau Civil Hospital, Karachi and the promotion of community health. Their aim is to upgrade the infrastructure and maintenance of proper hygiene conditions of Civil Hospital Karachi.

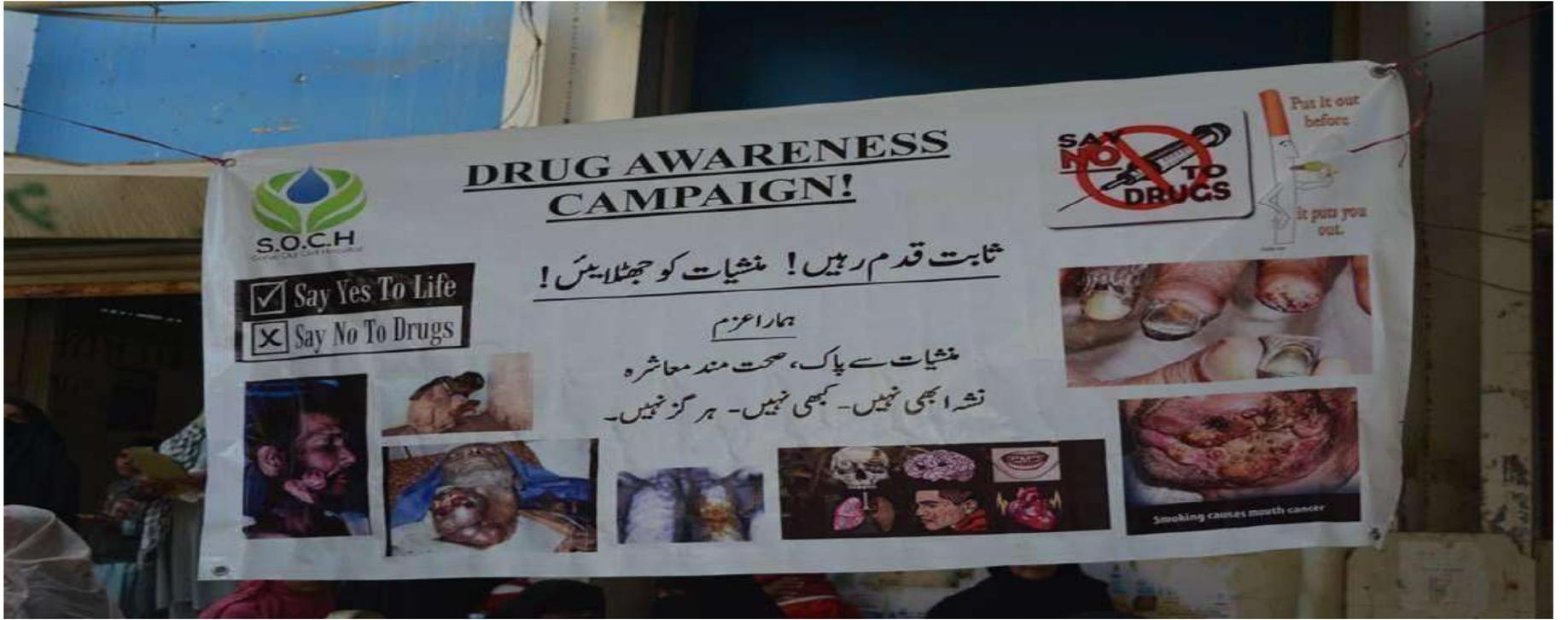
In March 2021, SOCH had the honor of forming a partnership with Koochi Goth Women's Hospital. A 2-day Surgical Camp conducted by Koochi Goth Hospital on the 23rd and 24th of March, 2021. This surgical camp enabled their members to not only observe and learn valuable clinical skills but also allowed them to practice these skills hands-on.



➤ Activities by **SOCH** for the year 2021-2022

- Free Medical and Dental Camp at Idara Al Khair Campus 1 (19th March 2022)
- Colorectal Cancer Awareness Walk (27th March 2022)
- Blood Donation Awareness Campaign at CHK (10th March 2022)
- Epilepsy Awareness Campaign at CHK (16th February 2022)
- Midwives Teaching Session (13th November 2021)
- SOCH Leaders Ambassador Programme (7th November 2021)
- Breast Cancer Awareness Session at Habib University (26th October 2021)
- Free Medical Camp and Health Awareness Campaigns at Baldia Town (10th October 2021)

- Students Learning Project 2021 (25th to 29th August 2021)



➤ List of DUHS Events Collaborations with NGOs and other Organizations

S.#	Event/Course	Date	Collaborations with
1.	Endoscopic Hands-on Cadaveric Workshop on Skull /base Surgeries	May, 2022	World Federation of Neurosurgical Societies (WFNS) and Pakistan Society of Neurosurgeons (PSNS)
2.	Dow University of Health Sciences Career Fair 2022	2nd & 3rd March, 2022	NabiQasim Industries (Pvt.) Ltd. AGP Limited DR Education Consulting PharmEvo Pvt. Ltd. DVAGO Pharmacy & Wellness Experts Bios Co. 1 stall (TA) ABN Overseas Education Pvt. Ltd. Amarant Pharma AusPak International Education Consultant Berlitz – Language Learning Institute Bosch Pharmaceuticals Pvt. Ltd. British Council CATCOS Pvt. Ltd. Creek Hospital Pharmacy Services D' Educationist Dawaaee.pk Ehad Healthcare Pvt. Ltd. Hilton Pharma Pvt. Ltd. HR Consultants Humwell Pvt. Ltd. Kair Pharma Nutraceuticals Pvt. Ltd. Pakistan American Cultural Center (PACC) SAMI Pharmaceuticals Pvt. Ltd. Shine Humanity Sigma Pharma Sindh Integrated Emergency and Health Services Subcontinent Education Consultant Success Factor Times consultant Yousuf ELT.
3.	Webinar on Rabies Awareness	27th February, 2022	Health Wing by Adal Aur Sehat

4.	Seminar on “COVID-19: End of Pandemic”	29th March, 2022	Infection Control Society of Pakistan
5.	Seminar on Bovine Lumpy Disease: “Current Status and Wayforward to Therapy and Prevention”	25th March, 2022	Association of Molecular & Microbial Sciences (AMMS)
6.	World Oral Health Day; Oral Health Awareness Walk		FDI World Dental Federation, Institute of Advanced Clinical Sciences & Research, OICD International College of Dentists, Dental Hygienist Association Karachi (DHAK) & Dental Tribune Pakistan (dti)
7.	Seminar on “WHO Intrapartum Labor Care Guide Next Generation Partograph and Respectful Maternity Care”	28th October, 2021	Midwifery Association of Pakistan (MAP)
8.	Breast Cancer Awareness Walk & Seminar	26th October, 2021	ROCHE Martin Dow The Nation Nawa-e-Waqt
9.	Breast Cancer Awareness Drive 2021	23rd October, 2021	Pink Ribbon SOCH The Nation Nawa-e-Waqt
10.	DUHS Launches E-Coordinator for Healthy Aging Care	October, 2021	EDUCAST
11.	Hands-on Workshop on Advanced Minimally Invasive Surgical Approaches to Spine	July, 2021	Pakistan Society of Neurosurgeons (PSN)
12.	COVID-19: A Focus on Methylprednisolone, LMWH and Ivermectin	17th April, 2021	Online Webinar by The Impact Team UK

➤ Calculation of Carbon Emission at DUHS (2021-22)

In order to monitor the progress and to promote environmental awareness, DUHS is calculating carbon emission each year for continuous improvement.

• Carbon Emission Scope 1 and Scope 2

Combustion of fossil fuels (direct emissions) Scope 1				
Emissions (in metric tons of CO ₂)	=	Fuel consumption (in volume or mass)	*	Emission factor
Emissions (in metric tons of CO ₂)	=	9270000	*	2.56
Emissions (in metric tons of CO₂)	=	23731200		
Emissions (in metric tons of CO₂)	=	23731.2 tco2e		

Electricity consumption (indirect emissions) Scope 2				
Emissions (in metric tons of CO ₂)	=	Electricity consumption (in kilowatt-hours)	*	Emission factor of the electricity grid
Emissions (in metric tons of CO ₂)	=	22359722	*	0.5
Emissions (in metric tons of CO₂)	=	11179861		
Emissions (in metric tons of CO₂)	=	11179.9 tco2e		

Total Scope 1 & 2	34911.1 tco2e
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- Carbon Emission Scope 3

SCOPE 3				
1	Upstream emissions (Purchased Goods and Services)			
	Upstream emissions	Total annual expenditure	*	Emission factor Upstream
	Upstream emissions	15125117.1	*	0.5
	Upstream emissions	7562558.6 kgCO2e		
	Upstream emissions	7562.6 tco2e		

2	Upstream emissions (Employee commuting emissions)					
	Employee commuting emissions	Number of employees	*	Average round-trip distance	*	Emission factor Employee commuting emission
	Employee commuting emissions	2135	*	10	*	0.1
	Employee commuting emissions	2135 kgCO2e				
	Employee commuting emissions	2.1 tco2e				

3	Upstream emissions (Business travel emissions)			
	Business travel emissions	Total distance traveled	*	Emission factor Business travel emissions
	Business travel emissions	92458.8	*	0.2
	Business travel emissions	18491.76 kgCO2e		
	Business travel emissions	18.5 tco2e		

Total Scope 3	7583.2 tco2e
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➤ Facilities for Differently-Abled

At Dow University of Health Sciences, the facilities for differently-abled are characterized by at easy access to buildings, to the rooms, to the toilets, to the recreation areas. It is achieved by accessible environment, i.e. even paths and specially prepared walkways.



Other Measures for Sustainability at DUHS

➤ Dedicated Courses That Address Sustainability and the Sustainable Development Goals

Apart from a commitment to meaningful education through all programs around the SDGs across the University, Dow University of Health Sciences also offers dedicated courses (full degrees and electives) that address sustainability and the SDGs. In this regard, Fundamentals of Public Health, Environmental Occupational Health, Reproductive Health & MCH, Community and Preventive Dentistry, Biomechanics and ergonomics, International Relations and Current Affairs, Environmental Sciences, Sociology, Development Economics, Legal & Regulatory Environment for Business and Health Policy Economics etc. are some courses which are offered in BS Nutrition, MS in Public Health, Bachelor of Business Administration, Bachelor of Dental Surgery and Doctor of Physical Therapy.

Program	Semester	Courses	Goals(SDGs)
Masters of Public Health – MPH	I	Fundamentals of Public Health	GOAL 1: No Poverty GOAL 2: Zero Hunger GOAL 3: Good Health and Well-being GOAL 4: Quality Education GOAL 5: Gender Equality
		Social & Behavioral Sciences	GOAL 1: No Poverty GOAL 2: Zero Hunger GOAL 3: Good Health and Well-being GOAL 12: Responsible Consumption and Production
	II	Basic Human Nutrition	GOAL 2: Zero Hunger GOAL 3: Good Health and Well-being GOAL 5: Gender Equality
		Environmental & Occupational Health	GOAL 12: Responsible Consumption and Production GOAL 13: Climate Action GOAL 14: Life Below Water GOAL 15: Life on Land GOAL 17: Partnerships to achieve the Goal
		Health Services & Administration	GOAL 3: Good Health and Well-being GOAL 5: Gender Equality GOAL 8: Decent Work and Economic Growth GOAL 11: Sustainable Cities and Communities GOAL 12: Responsible Consumption and Production
		Reproductive Health & MCH	GOAL 1: No Poverty GOAL 2: Zero Hunger GOAL 3: Good Health and Well-being GOAL 5: Gender Equality

			GOAL 3: Good Health and Well-being GOAL 6: Clean Water and Sanitation GOAL 11: Sustainable Cities and Communities GOAL 13: Climate Action	Program	Semester	Courses	Goals (SDGs)
III	Health Promotion			Masters of Science in Public Health – Health Promotion & Management (MSPH-HPM)	II	Health Economics	GOAL 1: No Poverty GOAL 2: Zero Hunger GOAL 3: Good Health and Well-being GOAL 4: Quality Education GOAL 11: Sustainable Cities and Communities
	Demography	GOAL 4: Quality Education GOAL 5: Gender Equality GOAL 10: Reduced Inequality GOAL 11: Sustainable Cities and Communities GOAL 12: Responsible Consumption and Production	III				Leadership & Change Management
	Chronic Non Communicable Diseases	GOAL 1: No Poverty GOAL 2: Zero Hunger GOAL 3: Good Health and Well-being GOAL 5: Gender Equality	IV		Nutritional Problems in Developing Countries	GOAL 1: No Poverty GOAL 2: Zero Hunger GOAL 3: Good Health and Well-being GOAL 4: Quality Education	

			GOAL 5: Gender Equality GOAL 11: Sustainable Cities and Communities GOAL 17: Partnerships to achieve the Goal	Program	Semester	Courses	Goals (SDGs)
	Health Policy and Economic Development		GOAL 1: No Poverty GOAL 2: Zero Hunger GOAL 3: Good Health and Well-being GOAL 8: Decent Work and Economic Growth GOAL 10: Reduced Inequality GOAL 11: Sustainable Cities and Communities GOAL 17: Partnerships to achieve the Goal	Masters of Science in Public Health – Nutrition (MSPH-NS)	II	Nutrition across lifecycle	GOAL 2: Zero Hunger GOAL 3: Good Health and Well-being GOAL 5: Gender Equality
	Strategic Management and Marketing in Health Care	GOAL 11: Sustainable Cities and Communities GOAL 17: Partnerships to achieve the Goal	III				Public Health and Community Nutrition
					GOAL 1: No Poverty GOAL 2: Zero Hunger GOAL 3: Good Health and Well-being GOAL 5: Gender Equality		Nutrition Chronic Diseases
			GOAL 11: Sustainable Cities and Communities GOAL 17: Partnerships to achieve the Goal			Food Microbiology & Safety	GOAL 3: Good Health and Well-being GOAL 6: Clean Water and Sanitation GOAL 14: Life Below Water GOAL 15: Life on Land GOAL 17: Partnerships to achieve the Goal

				Program	Semester	Courses	Goals (SDGs)
	IV	Nutrition in Complex Emergency	GOAL 1: No Poverty GOAL 2: Zero Hunger GOAL 3: Good Health and Well-being GOAL 5: Gender Equality GOAL 17: Partnerships to achieve the Goal	BACHELOR OF SCIENCE IN NUTRITION	I	Introduction to Social Sciences	<ul style="list-style-type: none"> GOAL 4: Quality Education GOAL 5: Gender Equality GOAL 10: Reduced Inequality
		Health Education & Communication skills	GOAL 3: Good Health and Well-being GOAL 4: Quality Education GOAL 5: Gender Equality GOAL 17: Partnerships to achieve the Goal		II	Microbiology	<ul style="list-style-type: none"> GOAL 6: Clean Water and Sanitation
III	Human Development		<ul style="list-style-type: none"> GOAL 5: Gender Equality GOAL 10: Reduced Inequality 				
IV	Nutrition During Lifecycle		<ul style="list-style-type: none"> GOAL 2: Zero Hunger GOAL 3: Good Health and Well-being GOAL 5: Gender Equality 				
V	Nutrition & Disease		<ul style="list-style-type: none"> GOAL 3: Good Health and Well-being 				
	Food Safety & Sanitation		<ul style="list-style-type: none"> GOAL 6: Clean Water and Sanitation GOAL 9: Industry, Innovation and Infrastructure 				
VI	Food Service & Institution Management	<ul style="list-style-type: none"> GOAL 6: Clean Water and Sanitation GOAL 9: Industry, Innovation and Infrastructure 					
	Principles of Management	<ul style="list-style-type: none"> GOAL 11: Sustainable Cities and Communities GOAL 12: Responsible Consumption and Production 					
				VII	Policy & Program in Public Health Nutrition	<ul style="list-style-type: none"> GOAL 1: No Poverty GOAL 2: Zero Hunger 	

	Health Nutrition Track		<ul style="list-style-type: none"> GOAL 3: Good Health and Well-being GOAL 5: Gender Equality GOAL 17: Partnerships to achieve the Goal
		Introduction to Environmental Health	<ul style="list-style-type: none"> GOAL 13: Climate Action GOAL 14: Life Below Water GOAL 15: Life on Land GOAL 17: Partnerships to achieve the Goal
	Clinical Dietetics Track	Nutrition Care Process in Clinical Nutrition	<ul style="list-style-type: none"> GOAL 3: Good Health and Well-being GOAL 11: Sustainable Cities and Communities
		Medical Nutrition Therapy	<ul style="list-style-type: none"> GOAL 3: Good Health and Well-being GOAL 11: Sustainable Cities and Communities
Nutrition & Diet Therapy across life cycle		<ul style="list-style-type: none"> GOAL 3: Good Health and Well-being 	

Bachelors of Dental Surgery (BDS) – DIDC, DDC & DIKIOHS

1. Oral Pathology	SDG 3 (Environment)
2. General Pathology and Bacteriology	SDG3 (Environment)
3. Science of Dental Materials and Laboratory Techniques	SDG 3 (Environment)
4. Community and Preventive Dentistry	SDG 3, SDG 17 (Environment, cultural)
5. Periodontology	SDG 3 (Environment)
6. Oral Medicine and Oral Diagnosis	SDG 3 (Environment)
7. Operative Dentistry including Paedo-dontics and Endo-dontics	SDG 3 (Environment)
8. Prosthodontics	SDG 3 (Environment)
9. Oral and Maxillofacial Surgery	SDG 3 (Environment)
10. Orthodontics and Oral Radiology	SDG 3 (Environment)

Institute of Physical Medicine & Rehabilitation

1. Sociology
2. Behavioral Sciences (Psychology And Ethics)
3. Biomechanics and ergonomics

Institute of Business & Health Management

1. Microeconomics
2. Macroeconomics
3. International Relations and Current Affairs
4. Environmental Sciences
5. Pakistan Economy
6. Sociology
7. Development Economics
8. Managerial Economics
9. Macro Economics & International Political Economy
10. Legal & Regulatory Environment for Business
11. Health Policy Economics

Dow College of Pharmacy

Course Title (Related to Sustainability)	Notes
1. M.Phil. pharmacology-chemotherapy and toxicology course PCL-706	Covers environmental and occupational toxicology, metal toxicity, pesticides, animal venoms and anti-venoms
2. Pharmaceutical Biochemistry (PD-310 & PD-311)	In Pharmaceutical Biochemistry covers the nutrients, vitamins, minerals, Carbohydrates, Fats & lipids, Proteins and amino acids, Hormones from the natural sources, their significance, Synthesis, metabolism and utilization by the human body.
3. Pharmacology and therapeutics Theory (PD-502, & Lab PD-504)	These courses contain title of topics: Toxicology; Environmental, Occupational; Heavy metal poisoning; pesticides poisoning; Treatment and antidotes for Poisons.
4. Chemical Pharmacognosy I & II Theory & Lab (PD-415, PD-417, PD-416, PD-418)	These courses contain information concerning origin of different natural sources of medicine, their efficacy and standardization.
5. Advance Pharmacognosy I & II Theory & Lab PD-513, PD-515, PD-514, PD-516	These courses provides information to the students concerning different chemical constituents presents in plant source that is used as medicine and standardization.
6. Clinical Pharmacognosy PD-615	This course covers clinical use of herbal/ natural origin source medicines for supportive treatment of different pathologies. It also covers drug-herb, herb-herb and herb-food interactions.
7. Pharmaceutical Organic Chemistry (PD-306)	This course in cooperates stereochemistry, preparation & properties of medicinally important compounds, essential & trace elements role and their toxicity; inorganic compounds & free radicals.
8. Pharmaceutical Microbiology & Immunology (PD-402 & PD-404)	Industrial Microbiology, Immunology, Biologicals, antibiotics, microbiological assays of air, water and soil.
9. Clinical Pharmacy (PD-612)	This course in cooperates clinical toxicology and target organs of toxicology; Pharmaceutical care services and provision of pharmaceutical care in multiple environments.

10.MPhil (Pharmacognosy) Natural Product Drug Discovery and Regulatory Affairs of Herbal 11.Medicines [PCG-702]	It in cooperates natural products drug discovery and regulations.
12.MPhil (Pharmacognosy) Cosmeceuticals and Nutraceuticals [PCG-704]	Deals with Cosmeceuticals & Nutraceuticals significance, preparation, efficacy, safety and regulations.
13.Toxicology of Natural Substances [PCG-706]	Types of natural toxins and their effects.
14.Good Agriculture Practice of Herbal Medicine [PCG- 708]	It deals with good agricultural practice.
15.MPhil (Pharmacy Practice) Regulatory Guidelines In Clinical Pharmacy Practice [PHP 709]	This course demonstrates drug regulatory compliance, auditing and inspecting clinical research in the Global environment, GMP and GLP compliance.
16.MPhil (Pharmacy Practice) Applied Clinical Techniques – [PHP 704]	Deals with gene technology
17.MPhil (Pharmacy Practice) Social & Administrative Pharmacy [PHP – 807]	Drug Management System, Social and Cultural Aspects of Health, Drug Policy Analysis, Health Outcome Assessment, Pharmaceutical Anthropology and Healthcare Strategic Management.
18.MPhil (Pharmacy Practice) Advances in Community Pharmacy Practice and Public Health - [PHP 804]	Concept of community health care, health needs of the community, different levels of health care, elements & principles of primary health care. Public health & its application.
19.MPhil (Pharmaceutical Chemistry) Drug Development -I [PCH-805]	Drug development, screening of natural products, Identification of lead molecules

Dow International Medical College

Course/ Subject Title

Notes

1. Community Medicine

Course has had changes approved in the Curriculum, which includes specific areas of environmental health including environmental sustainability

2. Behavioural Sciences

Course has had changes approved in the Curriculum, which includes specific areas related to living conditions, personal behaviour affecting sustainability



DOW UNIVERSITY OF HEALTH SCIENCES

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