

# CENTRE FOR COASTAL AND DELTAIC STUDIES

## UNIVERSITY OF SINDH THATTA CAMPUS

### TRAININGS AND AWARENESS

#### **Introduction:**

Pakistan has a coastal line of about 990 km, out of this Sindh coastal zone is about 350 km which support to the world 7<sup>th</sup> largest mangrove forest and Indus Delta RAMSAR site an International Heritage. The Sindh coastal area in Pakistan is a disaster prone area that is frequently affected by natural calamities such as, cyclones, rains, floods and some time droughts. Keeping in view the regional challenges, the Centre for Coastal and Deltaic Studies (CCDS), University of Sindh Pakistan aim to produce trained human resource by providing higher education, applied natured research, technical trainings and awareness on climate change impacts, coastal ecosystems and biodiversity of Marine and coastal environment. Applied nature trainings are being arranged at coastal villages on fish culture development in the connection of two marine research projects funded by Petroleum Marine Development Committee PMDC Sujawal and PMDC Thatta. The project titles are given below.

Reference 1: Establishment of Oceanographic Survey Unit: Climate Change, Freshwater Scarcity and Pollution Impact Assessment on Geomorphology, Mangrove, Fisheries and Wildlife Occurring in Coastal and Marine Waters of District Thatta”. Notification No.DC/PS/Coord:Branch/387/2021 Office of DC Thatta dated: August 13, 2021.

Reference2: Establishment of Marine Research Laboratory and Survey Unit: Population Dynamics, Pollution Impact Assessments, and Way-Forward of Coastal and Marine Biodiversity in Creeks of Sujawal Sindh Pakistan. Notification No. DC/SJ/1018-H OF 2021 Dated 14.09.2021.

#### **Explanation:**

Disseminated awareness related to climate change impacts, conservation of natural resources and minimization of aquatic pollution especially focused on plastic and chemical pollution impacts on fish and fisheries and drinking waters.

More than 100 trainings related to ecological conservation of mangroves, fish culture development, drinking water purification and early warning systems are organized during last 2 years (copies of Certificates are attached). Environmental conservation awareness programs and sessions among coastal community at villages, cities and capital places have been organized. The major focus of the awareness are the environmental conservations of biodiversity, livelihood, coastal vulnerable community, fish culture development, mangrove forest development, disaster risk reduction, livelihood options, WASH, Socio-economic development and green Pakistan, solutions to minimize plastic pollution. iv. Published and printed training manuals, booklets, brochures, calendars, pictorial messages related to healthy environment, water testing and purification, applications of modern technology.

Published awareness brochures, calendars and conservation manuals on under size catches of endangered and threatened fish species of *Tenualosa ilisha*, *Macrobrachium rosenbergi* and *M. malcomsoni* in collaboration to District administration of Thatta, Sujawal, Jamshoro and Hyderabad, Sindh Pakistan. The awareness materials are publishing in English and local languages Urdu and Sindhi. In the environment awareness; the research scholars, university students, community peoples, officials and officers politicians, policy makers and legislators are participating and engaging. More than 35000 awareness calendars are distributed among stakeholders. Five thousand copies of calendars printed on mangrove forest conservation, 10,000 calendars on conservation of migratory fish *Tenualosa ilisha* (Palla), 20,000 copies of annual calendars were printed on minimization of plastic pollution “Solutions to plastic pollution. The same were distributed among all stakeholders during and after a seminar on World Environment Day June 05, 2023 being organized at University of Sindh Jamshoro and Karachi, Thatta, Sujawal and Badin districts of Sindh.





## Trainings

- Three month **Basic Japanese Language course** (February 2022 to May 2022), in collaboration with Pakistan-Japan Intellect Forum and the Consulate General of Japan in Karachi



Area Study Centre Launches Three-month Japanese Language Course at the Centre. The course has been launched in collaboration with Japanese Consulate in Karachi and Pakistan Japan Intellect Forum. Dr. Kazunori Matsuda will be teaching the Japanese Language to the students

at ASEAN Seminar Hall of the Area Study Centre from February 2022 to May, 2022.

**LIST OF EVENTS ATTENDED BY CENTER DURING 2021-22****1. 1st International Symposium on “ADVANCED MATERIALS AND EMERGING TECHNOLOGIES”**

Prof. Dr. Najma Memon delivered a talk on “Carbon material from waste for water purification” in the mentioned symposium organized by DEPARTMENT OF METALLURGY AND MATERIALS ENGINEERING MUET JAMSHORO during 29-30 July 2021.

**2. 18th International Symposium on Electro-Analytical Chemistry (Online)**

Prof. Dr. Shahabuddin Memon and Prof. Dr. Amber Rehana Solangi delivered invited lectures at “18th International Symposium on Electro-Analytical Chemistry from August 25 to 27, 2021 being held at Changchun Institute of Applied Chemistry, Chinese Academy of Sciences 5625 Renmin Street, Changchun, Jilin, China.

**3. Training Program on Digital Transformation for the BRI countries**

Prof. Dr. Najma Memon (attended), The 3rd Joint Training Program on Digital Transformation for the BRI countries, by BTBU-ECOSF Joint Training Center on Scientific, Technological and Economic Cooperation under the Belt and Road Initiative (online) 11 October 2021.

**4. Yangling International Agri-Science Forum 2021**

Prof. Dr. Tufail Hussain Sherazi delivered a talk on “Fabrication of Lipid Derived Silver Nanostructures for their Potential Applications” at Yangling International Agri-Science Forum 2021; organized by Northwest A&F University, Yangling, China during October 22 to 26, 2021.

**5. 4th 2 day Training workshop on “Bio and Food Processing”**

Dr. Farah Naz Talpur participated as Resource Person in 4th 2 day Training workshop on “Bio and Food Processing” organized by Department of Chemical Engineering, Mehran University of Engineering and Technology, Jamshoro, during 23-24 November, 2021.

**6. Training workshop on “Women Leadership Program”**

Prof. Dr. Amber Rehana Solangi attended training workshop on “Women Leadership Program” offered by HEC, Islamabad (sponsored by British Council), from 29 November to 4th December, 2021.

**7. International Webinar on Post-pandemic Research Strategies**

Prof. Dr. Tufail Hussain Sherazi, Prof. Dr. Najma Memon and Prof. Dr. Najma Memon attended International Webinar on Post-pandemic Research Strategies, “Post-pandemic Research transformations”, 8 December 2021. Organized by GCU, Hyderabad

**8. 19th International and 31st National Chemistry Conference on Emerging Trends in Chemistry 2021**

Prof. Dr. Tufail Hussain Sherazi, Prof. Dr. Amber Rehana Solangi, Prof Dr. Najma Memon, Dr. Farah Naz Talpur, Dr. Hassan Imran Afridi and Dr. Jamil Ahmed Baig delivered invited lectures in 19th International and 31st National Chemistry Conference on Emerging Trends in Chemistry 2021, 16-18 December 2021 at UMT, Lahore.

**9. Flashback of career in Science**

Prof. Dr. Najma Memon attended “Flashback of career in Science”, Online seminar on ‘Star Scientist and Technology Transfer from University to Industry’, 12 January 2022. Organized by MUET.pk and GRIPS, Japan

**10. 6th International Conference on Energy, Environment and Sustainable Development,**

Prof. Dr. Najma Memon, delivered a talk on “Characterization and Capacitive Performance Assessment of Potato Peels derived salt-induced porous Carbons”, 6th International Conference on Energy, Environment and Sustainable Development, 17-19 January 2022 at MUET, Jamshoro.

**11. Kromatografi XX (Hybrid)**

Prof. Dr. Syed Tufail Hussain Sherazi, Prof. Dr. Shahabuddin Memon, Dr. Farah Naz Talpur and Dr. Huma Shaikh delivered invited lectures (online) in Kromatografi XX conference during 24-25th February 2022, Organized by Hacettepe University, Department of Chemistry, Ankara, Turkey.

**12. International Conference on Environmental Sustainability**

Prof. Dr. Tufail Hussain Sherazi delivered a lecture on “Sustainable Strategy to Control the Land Pollution” at International Conference on Environmental Sustainability

organized by US-Pakistan Center for Advanced Studies in Water, Mehran University of Engineering and Technology, Jamshoro, Pakistan during March 3-4, 2022.

**13. HEC-BC Research Capacity Building Program for Principal Investigators (PIs)**

Prof. Dr. Tufail Hussain Sherazi and Dr. Ayaz Ali Memon attended Five days Training Workshop Organized by World Bank, British Council and HEC, Pakistan at Marriot Hotel, Islamabad, Pakistan during 7-11 March 2022.

**14. 2nd European Sample Preparation e-Conference (EuChemS 2022 Online Event)**

Dr. Sarfaraz Ahmed Mahesar participated in the mentioned event during March 14-16, 2022.

**15. National Conference on Chemical Sciences: A Multidisciplinary Approach (ICCS-MA)-2022**

Prof. Dr. Tufail Hussain Sherazi, Prof. Dr. Shahabuddin Memon and Prof. Dr. Amber Rehana Solangi delivered Invited lectures at “National Conference on Chemical Sciences: A Multidisciplinary Approach (ICCS-MA)-2022” held on 29-31 March 2022 at Shah Abdul Latif University (SALU), Khairpur Mir’s, Sindh-Pakistan.

**16. Empowering Women for Leadership**

Prof. Dr. Najma Memon attended “Empowering Women for Leadership” Training Course, 9-13 May 2022 Organized by National Academy of Higher Education, Islamabad at Islamabad.

**17. International Training Course on “Environmental Toxicology and Health**

Prof. Dr. Amber Rehana Solangi attended International Training Course on “Environmental Toxicology and Health” from June 15 – 20, 2022 Organized by Chulabhorn Research Institute, Bangkok, Thailand.

**18. Joint Research and Training Program of PC-1 entitled Establishment of a Center for Advanced Technologies in Biomedical Materials**

Dr. Ayaz Ali Memon attended Joint Research and Training Program of PC-1 entitled Establishment of a Center for Advanced Technologies in Biomedical Materials. COMSATS University Islamabad, Lahore Campus