



DR. MUHAMMED SAFAR KORAI



Personal	Father's Name = Deen Muhammad Surname = Korai Date of Birth = 25-01-1983 NIC No. = 43203-1373746-3 Domicile = Village Malook Korai, Larkana, Sindh Religion = Islam Nationality = Pakistani Cell No. = 0333-2703277, 0305-3006079 E-mail = safar.korai@faculty.muett.edu.pk, msafarkorai@gmail.com Address = Institute of Environmental Engineering and Management Mehran University of Engineering & Technology, Jamshoro, Sindh
Experience	<p>(1) Title: Associate Professor (BPS-20) Date: From 17-12-2021 to till today Institution/Organization: Institute of Environmental Engineering & Management, Mehran University of Engineering & Technology, Jamshoro, 76062, Sindh, Pakistan.</p> <p>(2) Title: Assistant Professor (BPS-19) Date: From 12-10-2018 to 16-12-2021 Institution/Organization: Institute of Environmental Engineering & Management, Mehran University of Engineering & Technology, Jamshoro, 76062, Sindh, Pakistan.</p> <p>(3) Title: Lecturer (BPS-18) Date: From 16-07-2011 to 11-10-2018 Institution/Organization: Institute of Environmental Engineering & Management, Mehran University of Engineering & Technology, Jamshoro, 76062, Sindh, Pakistan.</p> <p>(4) Title: Environmental and Social Inspector Date: From 29-09-2009 to 13-07-2011 Institution/Organization: Pakistan Engineering Services (Pvt.) Ltd. Hussain Abad, Hyderabad.</p> <p>(5) Title: Research Assistant Date: From 15-03-2008 to 15-09-2009 Institution/Organization: Institute of Environmental Engineering & Management, Mehran University of Engineering & Technology, Jamshoro, 76062, Sindh, Pakistan.</p>

	<p>(6) Title: Trainee Engineer Date: From 27-02-2007 to 27-02-2008 Institution/Organization: Directorate of Industries Hyderabad Region @ Hyderabad, under national internship programme (NIP), Pakistan.</p>
Administrative Experience	<p>(1) Title: Quality Coordinator Date: From 09-10-2019 to till today Institution/Organization: Institute of Environmental Engineering & Management, Mehran University of Engineering & Technology, Jamshoro, 76062, Sindh, Pakistan.</p>
Honors & Awards	<ol style="list-style-type: none"> 1. Ph.D. Tuition Fee was financed through Prime Minister’s Fee Reimbursement Scheme for the session 2014-15. 2. Ph.D. RESEARCH SCHOLARSHIP awarded by Mehran University of Engineering & Technology Jamshoro, Sindh, Pakistan for the session 2014-18. 3. M.E. SCHOLARSHIP awarded by Mehran University of Engineering & Technology Jamshoro, Sindh, Pakistan for the session 2007-2009.
Brief Statement of Research Interest	<p>Dr. Korai’s main fields of interest are environmental engineering, solid waste management, landfill disposal method, composting technology, anaerobic digestion technology, waste to energy, hazardous waste risk assessment, air/noise pollution control, climate change, water supply engineering and wastewater engineering. His research specifically explores how solid waste is to be managed to recover energy from it and to make cities of Pakistan sustainable for citizens of the country. Additionally, Dr. Korai’s work is helpful to achieve target 11.6 of sustainable development goal-11.</p>
Guest/Invited Speaker	<ol style="list-style-type: none"> 1. As Keynote Speaker by the Organizing Committee of NCEE for 5th National Conference on “Issues, Trends & Developments in the Field of Energy and Environment”, dated: 18-20th January 2023. QUEST, Nawabshah, Sindh, Pakistan. 2. As an Invited Speaker by the Organizing Committee of Sindh Community Foundation for four days workshop on “Training of Trainers: Environmental Sustainability and human Health”, dated: from 26th to 29th December 2022. Hyderabad, Sindh, Pakistan 3. As an Invited Speaker by the Organizing Committee of seminar entitled “Sustainable Solid Waste Management System” organized by Department of Chemical Engineering, University of Karachi, Tuesday, 29th March 2022. Karachi, Sindh, Pakistan. 4. As a Guest Speaker invited by the Chairman of Department of Energy and Environment Engineering, Dawood University of Engineering & Technology, Karachi in a seminar entitled as “Solid Waste Management Issues in Sindh Province (in Focus Karachi), with poster competition”, Thursday, 22nd January 2022.

<p style="text-align: center;">Projects Ongoing</p>	<ol style="list-style-type: none"> 1. Currently working as a Solid Waste Expert since January 2022, in the project entitled “Water Governance for Sindh” funded by HANDS and awarded to US-Pakistan Center for Advanced Studies in Water, Mehran University of Engineering and Technology, Jamshoro, Sindh. <ul style="list-style-type: none"> ➤ Responsibility: <ul style="list-style-type: none"> • To provide supervision during collection of residential, commercial, and recyclable waste sample from urban areas of District Jacobabad, Sindh, Pakistan. • To provide supervision during segregation and weighting of waste components • To characterize solid waste sample (proximate analysis, ultimate analysis, calorific value, energy content) • To compile report of solid waste management practices at household level • To provide training regarding awareness to the community and staff of company • To paper training manual for collection and segregation of solid waste • To conduct baseline transit walkthrough survey • To prepare projects baseline report 2. Working as an Academic Collaborator (w.e.f. March 2022) in Project entitled “Bench-Scale Demonstration of an Integrated Waste-to-Energy Process for Municipal Solid Waste Management: A Step Toward Sustainable circular economy” awarded by Higher Education Commission (HEC), Islamabad through National Research Program for Universities (NRPU), 2021. <ul style="list-style-type: none"> ➤ Responsibility: <ul style="list-style-type: none"> • Characterization and composition analysis of MSW feedstock collected in various sectors (municipality as well as industrial) and proposed various scenarios in comparison to the existing assessment strategies and pyrolysis technology for bench-scale setup for the design and execution of experiments on the pilot-plant and collection and analysis of experimental data. • Characterization of gasification/pyrolysis products collected from the pilot-plant. 3. Working as a Solid Waste Expert ((w.e.f: 1st January 2021 to date), in the project entitled “Turning plastic and other waste into green products, to improve the environment and provide poor people of Sindh improved health and livelihoods” funded by UKAID and awarded jointly to Tearfund and US-Pakistan Center for Advanced Studies in Water (US-PCASW), Mehran University of Engineering & Technology, Jamshoro, Sindh. <ul style="list-style-type: none"> ➤ Responsibility: <ul style="list-style-type: none"> • To provide supervision during collection of residential waste sample from urban areas of District Malir and Kiamari Karachi • To provide supervision during segregation and weighting of waste components • To characterize solid waste sample (proximate analysis, ultimate analysis, calorific value, energy content) • To compile report of solid waste management practices at household level

	<ul style="list-style-type: none"> • To provide training regarding awareness to the community and staff of company • To paper training manual for collection and segregation of solid waste • To conduct baseline transit walkthrough survey • To prepare projects baseline report
Projects Completed	<ol style="list-style-type: none"> 1. Worked as an Environment Specialist (w.e.f: 05-01-2017 to 04-07-2018 in part time) with the Mian Abdul Jabbar & Indus Construction Company (MAJ & ICC) Joint Venture on the Project named “Remediation Contract Lot-III Construction of Municipal Solid Waste Disposal Facility-Jamshoro” funded by Asian Development Bank. <ul style="list-style-type: none"> ➤ Responsibilities: <ul style="list-style-type: none"> • To analyze existing practices of municipal solid waste practices in thermal powerhouse plant residential colony • To design and execute landfill site for disposal of municipal solid waste at thermal powerhouse residential colony. • To prepare design manual of landfill site • To provide supervision during operation of landfill • To monitor air, water, and soil quality within the surrounding of landfill site • To conduct awareness sessions at schools, residential areas, staff of power plant • To prepare monthly progressive report of project and monitoring parameters of environment including air, water, and soil quality. 2. Worked as a Research Assistant (w.e.f: 15-03-2008 to 15-09-2009) at Institute of Environmental Engineering and Management, MUET, Jamshoro on a project “Characterizing the Municipal Solid Waste and Exploiting the Sustainable Disposal” funded by Higher Education Commission (HEC) Islamabad, Pakistan. <ul style="list-style-type: none"> ➤ Responsibilities: <ul style="list-style-type: none"> • Collection of solid waste samples from various areas of selected project site (Hyderabad). • Weighting of collected waste samples to determine generation rate of solid waste. • Separating/Segregating of various solid waste components to determine percentage of each component. • Analyzing the waste samples for determining physical and chemical properties of solid waste. • Composting solid waste to produce valuable compost product. • Design and fabrication of three composting simulators working at different conditions. • Monitoring the various parameters (i.e. Temperature, Moisture content, pH value and Organic & Inorganic contents) during composting process.
	<p><i>Research Papers Published in International Journals (Cumulative Impact = 72.91)</i></p> <ol style="list-style-type: none"> 1. Shahnaz Shahani, Zhongquan Gao, Muhammad. S. Korai, Mumtaz A. Qaisrani, Hussain Sadam, Muhammad A. Saleem, and Muhammad A. Shakoori

<p style="text-align: center;">Publications</p>	<p>“Assessment of Bioenergy Potential of Waste Biomass Through Stoichiometry Analysis in Pakistan”, <i>Journal of Biobased Materials and Bioenergy</i>, (2023), Vol.17, pp. 1-13 (Impact Factor: 1.126).</p> <p>2. Taufique Ahmed Sial, Abdul Majid Teewno, Sheeraz Ahmed Memon, Rasool Bux Mahar, Muhammad Safar Korai “Municipal Solid Waste Leachate Treatment Through Constructed Wetlands of Phragmites australis, Typha latifolia and Scirpus Validus”, <i>Journal of Ecological Engineering</i>, (2023), pp. 1-16 (Impact Factor: 1.48).</p> <p>3. Korai Muhammad Safar, Mahar Rasool Bux, Uqaili Faria, Shaikh Pervez, “Integrated model of municipal solid waste management for energy recovery in Pakistan”, <i>Energy</i>, (2021), 219: pp. 1-16 (Impact Factor: 8.857).</p> <p>4. Imran Nazir Unar, Ghulamullah Maitlo, Suhail Ahmed Soomro, Shaheen Aziz, Syed Abdul Karim Shah, Rasool Bux Mahar, Zulfiqar Ali Bhatti, Mohammad Safar Korai, “Impacts of slurry and dry forms of low-rank coal (lignite) on quality of syngas produced”, <i>Clean Technologies and Environmental Policy</i>, (2020) 22: pp. 613–625 (Impact Factor: 4.700).</p> <p>5. Muhammad Safar Korai, Munawar Ali, Cheng Lei, Rasool Bux Mahar, Dongbei Yue, “Comparison of MSW management practices in Pakistan and China”, <i>Journal of Material Cycles and Waste Management</i>, (2020) 22: pp. 443-453 (Impact Factor: 3.579).</p> <p>6. Muhammad Safar Korai, Rasool Bux Mahar, Muhammad Aslam Uqaili, Khan Muhammad Brohi and Sheeraz Ahmed Memon, “Analysis of the feasibility of fruit and vegetable wastes for methane yield using different substrate to inoculum ratios at Hyderabad, Sindh, Pakistan”, <i>Journal of Material Cycles and Waste Management</i>, (2019) 21: pp. 365-374 (Impact Factor: 3.579)</p> <p>7. Muhammad Safar Korai, Rasool Bux Mahar and Muhammad Aslam Uqaili., “The seasonal evolution of fruit, vegetable and yard wastes by mono, co and tri-digestion at Hyderabad, Sindh Pakistan”, <i>Waste Management</i>, 71, No. 2018, pp. 461-473 (Impact Factor = 8.816).</p> <p>8. Muhammad Safar Korai, Rasool Bux Mahar and Muhammad Aslam Uqaili, “Waste to energy: power generation potential of putrescible waste by anaerobic digestion process at Hyderabad, Pakistan”, <i>Journal of Material Cycles and Waste Management</i>, (2018) 20: pp. 1239-1247 (Impact Factor: 3.579)</p> <p>9. Muhammad Safar Korai, Rasool Bux Mahar, Muhammad Aslam Uqaili, Bhattacharjee A Shankar and Ramesh K Goal “The feasibility of putrescible components of municipal solid waste for biomethane production at Hyderabad, Pakistan”, <i>Waste Management & Research Journal</i>, Volume, No., pp. 1-14, 2018 (Impact Factor: 4.432).</p> <p>10. Muhammad Safar Korai, Rasool Bux Mahar and Muhammad Aslam Uqaili., “The feasibility of municipal solid waste for energy generation and its existing management practices in Pakistan”, <i>Renewable and Sustainable Energy Reviews</i>, Volume 72, pp. 338-353, 2017 (Impact Factor = 16.799).</p> <p>11. Muhammad Safar Korai, Rasool Bux Mahar and Muhammad Aslam Uqaili., “Optimization of waste to energy routes through biochemical and thermochemical treatment options of municipal solid waste in Hyderabad, Pakistan”, <i>Energy Conversion and Management</i>, Volume 124, No. 9, pp. 333-343, 2016 (Impact Factor = 11.533).</p> <p>12. Muhammad Safar Korai, Rasool Bux Mahar, Muhammad Aslam Uqaili, Saeed</p>
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Publications	<p>Ahmed Memon, and Imtiaz Ahmed Lashari, “Energy recovery from organic fractions of municipal solid waste: a case study of Hyderabad city, Pakistan”, Waste Management & Research Journal, Volume 34, No. 4, pp. 327-336, 2016 (Impact Factor: 4.432).</p> <p><u>Research Papers Published in National Journals</u></p> <ol style="list-style-type: none"> Muhammad Safar Korai, Altaf Alam Noonari, Munawar Ali Pinjaro, Nida Rabab, Rizwan Rasheed, Zulfiquar Ali Solangi, Zulfiquar Ali Bhatti “Anaerobic Biodegradability and Biomethanation Potential of Fruit-Vegetable Wastes at Sindh, Pakistan”, Pak. J. Anal. Environ. Chem. accepted (2023) xx-xx (Y-Category by HEC). Muhammad Safar Korai, Rasool Bux Mahar and Muhammad Aslam Uqaili, “Estimation of Energy Potential from Organic Fraction of Municipal Solid Waste by Using Empirical Models at Hyderabad, Pakistan”, Mehran University Research Journal of Engineering & Technology , Volume 35, No. 1, pp. 129-138, 2016 (X-Category by HEC). Muhammad Safar Korai, Rasool Bux Mahar and Abdul Razaque Sahito, “Characterization and Aerobic Biological Treatment of MSW: A Case Study of Hyderabad City”, Mehran University Research Journal of Engineering & Technology, Volume 33, No.3, pp.322-329, 2014 (X-Category by HEC). Muhammad Safar Korai, Rasool Bux Mahar and Mohammad Aslam Uqaili, “Assessment of Power Generation Potential from Municipal Solid Wastes: A Case Study of Hyderabad City, Sindh, Pakistan”, Pak. J. Anal. Environ. Chem. Vol. 15, No. 1 (2014) 18-27 (Y-Category by HEC). <p><u>International Proceedings</u></p> <ol style="list-style-type: none"> Muhammad Safar Korai, Rasool Bux Mahar, Muhammad Aslam Uqaili and Khan Muhammad Brohi, “Assessment of Municipal Solid Waste Management Practices and Energy Recovery Potential in Pakistan”, Proceedings of the 14th International Conference on Environmental Science and Technology Rhodes, Greece. 3-5 September 2015. Muhammad Safar Korai, Rasool Bux Mahar and Abdul Razaque Sahito, “Characterization and Quantification of Municipal Solid Waste of Hyderabad, Pakistan”, Proceedings of the 12th International Conference on Environmental Science and Technology, Rhodes, Greece. 8-10 September 2011. <p><u>National Proceedings</u></p> <ol style="list-style-type: none"> Farooq Umar Sidhu, Muhammad Safar Korai and Muhammad Ali Memon, “Assessment of Yard Waste For Biological Treatment In The Mehran UET, Jamshoro”, AIP Conference Proceedings 2119, 020021 (2019); https://doi.org/10.1063/1.5115380, Published Online: 11 July 2019. Muhammad Safar Korai, Rasool Bux Mahar and Muhammad Aslam Uqaili, “Estimation of Energy Potential from Organic Fraction of Municipal Solid Waste by Using Empirical Models at Hyderabad, Pakistan”, Proceeding of the 3rd International Conference on Energy, Environment & Sustainable Development (EESD2014), Oct 22-24, 2014. Muhammad Safar Korai, Rasool Bux Mahar, Muhammad Aslam Uqaili and Khan Muhammad Brohi, “Composting the Organic Fractions of Municipal Solid Wastes (OFMSW) of Hyderabad City”, Proceeding of the 2nd International Conference on Energy, Environment and Sustainable Development
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<p style="text-align: center;">Publications</p>	<p>(EESD2012), Feb 27-29, 2012.</p> <p><u>Research Papers Presented at Conferences in Pakistan</u></p> <ol style="list-style-type: none"> 1. Muhammad Safar Korai, Altaf Alam Noonari, Rasool Bux Mahar, Zulfiqar Ali Solangi, Muhammad Yousif Mangi, Munawar Ali Pinjaro, “Integrated Waste Management Approach for Waste to Energy in Pakistan” presented in 5th National Conference on “Issues, Trends & Developments in the Field of Energy and Environment”, dated: 18-20th January 2023. QUEST, Nawabshah, Sindh, Pakistan. 2. Farooq Umar Sidhu, Muhammad Safar Korai and Muhammad Ali Memon, “Assessment of yard waste for biological treatment in the Mehran UET Jamshoro” presented in 5th International Conference on Energy, Environment and Sustainable Development (EESD-2018) November 14-16, 2018. MUET, Jamshoro, Sindh, Pakistan. 3. Muhammad Safar Korai, Rasool Bux Mahar, Muhammad Aslam Uqaili and Khan Muhammad Brohi, “Biomethanation Potential of Vegetable and Fruit Wastes at Hyderabad, Sindh, Pakistan” presented in 1st National Conference on “Environmental Engineering & Management”, at Auditorium Hall, MUET Jamshoro, Sindh, Pakistan. 13-14th April 2016. 4. Muhammad Safar Korai, Rasool Bux Mahar and Muhammad Aslam Uqaili, “Estimation of Energy Potential from Organic Fraction of Municipal Solid Waste by Using Empirical Models at Hyderabad, Pakistan”, Presented in 3rd International Conference on Energy, Environment & Sustainable Development (EESD2014) at Auditorium Hall, MUET Jamshoro, Pakistan. Oct. 22-24, 2014. 5. Muhammad Safar Korai, Rasool Bux Mahar, Muhammad Aslam Uqaili and Khan Muhammad Brohi, “Composting the Organic Fractions of Municipal Solid Wastes (OFMSW) of Hyderabad City”, Presented in the 2nd International Conference on Energy, Environment and Sustainable Development (EESD2012), at Auditorium Hall, MUET Jamshoro, Pakistan. Feb 27-29, 2012. 6. Muhammad Safar Korai, Rasool Bux Mahar and Abdul Razaque Sahito, “Characterization and Quantification of Municipal Solid Waste of Hyderabad, Pakistan”, Presented in the 2nd International Conference on “Energy & Environment: Role of Energy Resources in Sustainability of Environment” at Energy and environment Department, QUEST, Nawabshah. January 16-18, 2012.
<p style="text-align: center;">Postgraduate and Undergraduate Students Honor</p>	<p>Thesis guided [Postgraduate]</p> <ol style="list-style-type: none"> 1. Title/Name: Valorization of Biogas Production from the Co-Digestion of Petroleum Sludge and Switchgrass (<i>Panicum virgatum</i>) Degree: M.E. (Energy and Environmental Engineering), IEEM, MUET Jamshoro Year: 2023 2. Title/Name: Biogas Production from Anaerobic Co-digestion of Petroleum Sludge and Animal Dung Degree: M.E. (Energy and Environmental Engineering), IEEM, MUET Jamshoro Year: 2022 3. Title/Name: Evaluation and Mapping of Physiochemical Parameters and Risk Assessment of Ground Water of Sanghar District, Sindh, Pakistan Degree: M.E. (Energy and Environmental Engineering), IEEM, MUET Jamshoro Year: 2022.

Postgraduate and Undergraduate Students Honor	<ol style="list-style-type: none"> 4. Title/Name: Windrow Composting of Food and Yard Wastes at Mehran University of Engineering & Technology, Jamshoro Degree: M.E. (Energy and Environmental Engineering), IEEM, MUET Jamshoro Year: 2022 5. Title/Name: Co-digestion of Fruit Waste and Crop Residue by BMP Test System Degree: M.E. (Energy and Environmental Engineering), IEEM, MUET Jamshoro Year: 2022 6. Title/Name: Production of Syngas from Plastic Waste Through Gasification Process Degree: M.E. (Energy and Environmental Engineering), IEEM, MUET Jamshoro Year: 2021 7. Title/Name: Analysis of Hazardous and Non- Hazardous Waste of Kadanwari Field Degree: M.E. (Energy and Environmental Engineering), IEEM, MUET Jamshoro Year: 2021 8. Title/Name: Evaluation of Biochemical Methane Potential of Fish And Vegetable Wastes Degree: M.E. (Energy and Environmental Engineering), IEEM, MUET Jamshoro Year: 2020 9. Title/Name: Modeling A Single-Channel, Counter-Flow Polymer Electrolyte Membrane (Pem) Fuel Cell Degree: M.E. (Energy and Environmental Engineering), IEEM, MUET Jamshoro Year: 2020 10. Title/Name: Quantification, Characterization and Assessment of Yard Waste in the Mehran UET Jamshoro Degree: M.E. (Energy and Environmental Engineering), IEEM, MUET Jamshoro Year: 2019 11. Title/Name: Characterization & Quantification of Wastewater of Latifaabad and Its Disposal Method Degree: M.E. (Environmental Engineering), IEEM, MUET Jamshoro Year: 2014 <p>Thesis guided [Undergraduate]</p> <ol style="list-style-type: none"> 1. Title/Name: Co-composting of Vegetable Waste and Banana Crop Residue Degree: B.E. (Environmental Engineering), 18-Batch, IEEM, MUET Jamshoro, Year: 2022. 2. Title/Name: Methane Emissions from Open Dumping Sites of Municipal Solid Waste at Tharparkar, Sindh, Pakistan Degree: B.E. (Environmental Engineering), 17-Batch, IEEM, MUET Jamshoro, Year: 2021. 3. Title/Name: Kitchen Waste Composting Degree: B.E. (Environmental Engineering), 17-Batch, IEEM, MUET Jamshoro, Year: 2021. 4. Title/Name: Municipal Solid Waste Management Practices at Latifaabad, Hyderabad, Sindh, Pakistan Degree: B.E. (Environmental Engineering), 17-Batch, IEEM, MUET Jamshoro, Year: 2021. 5. Title/Name: Municipal Solid Waste Management Practices at Qasimabad,
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<p style="text-align: center;">Postgraduate and Undergraduate Students Honor</p>	<p>Hyderabad, Sindh, Pakistan Degree: B.E. (Environmental Engineering), 17-Batch, IEEM, MUET Jamshoro, Year: 2021.</p> <p>6. Title/Name: Conversion of Organic Waste into Fertilizer by Vermicomposting Degree: B.E. (Environmental Engineering), F16 Batch, IEEM, MUET Jamshoro, Year: 2020.</p> <p>7. Title/Name: Design and Fabrication of a Gasifier Reactor for Production of Syngas by Using Plastic Waste Degree: B.E. (Environmental Engineering), 16 Batch, IEEM, MUET Jamshoro, Year: 2019</p> <p>8. Title/Name: Design and Fabrication of Pyrolysis Reactor for Production of Oil by Using Waste Plastic Degree: B.E. (Environmental Engineering), 15 Batch, IEEM, MUET Jamshoro, Year: 2018</p> <p>9. Title/Name: Design and Fabrication of Aerated Static Pile Composter Degree: B.E. (Environmental Engineering), 14 Batch, IEEM, MUET Jamshoro, Year: 2017</p> <p>10. Title/Name: Separation of Particulate Matter from Gaseous Emissions of MSW Incinerator by Cyclone Degree: B.E. (Environmental Engineering), 11 Batch, IEEM, MUET Jamshoro, Year: 2014</p> <p>11. Title/Name: Modification in Municipal Solid Waste Incinerator to Maximize Heat Recovery Degree: B.E. (Environmental Engineering), 10 Batch, IEEM, MUET Jamshoro, Year: 2013</p> <p>12. Title/Name: Health and Safety Environment Practices in Construction Sector of MUET Jamshoro Degree: B.E. (Environmental Engineering), 10 Batch, IEEM, MUET Jamshoro, Year: 2013</p> <p>13. Title/Name: The Fabrication of Lab Scale Incinerator for Incinerating The Hospital Waste Degree: B.E. (Environmental Engineering), 09 Batch, IEEM, MUET Jamshoro, Year: 2012</p>
<p style="text-align: center;">Webinars/Seminars Conducted</p>	<p>1. Two days CPD Workshop on “Solid Waste Management: Current Status and Resource Recovery Potential for Future in Pakistan”, conducted from 9th to 10th August 2023 at ORIC, Mehran University of Engineering and Technology, Jamshoro, Sindh, Pakistan.</p> <p>2. The one-day seminar on “Challenges and opportunities of recycling wastes in Pakistan”, conducted on 23rd September 2022.</p> <p>3. The One-day webinar on “Application of Geographical Information System in Ecological Management”, conducted on 2nd February 2022.</p> <p>4. Awareness webinar on “Environmental Monitoring of Smog in Pakistan”, conducted on 2nd September 2021.</p> <p>5. One day awareness webinar on “Application of Information Technology in the Field of Environmental Engineering” was conducted on 17th December 2020.</p> <p>6. One day awareness webinar on “Integrated Solid Waste Management in</p>

	Pakistan” was conducted on 12 th September 2020.
<p style="text-align: center;">Virtual Trainings/ Webinars Attended and Presented Paper</p>	<ol style="list-style-type: none"> 1. One day CPD (01point) webinar on “Dynamic Entrepreneurship for Engineers” organized by Pakistan Engineering Council (PEC), Islamabad, Pakistan. Dated: 14th June 2023. 2. One day CPD (01point) webinar on “Construction Safety and Management” organized by Pakistan Engineering Council (PEC), Islamabad, Pakistan. Dated: 07th June 2023. 3. One day CPD (01point) webinar on “Solar and Wind Power Potential in Pakistan” organized by Pakistan Engineering Council (PEC), Islamabad, Pakistan. Dated: 19th May 2023. 4. One day CPD (01point) webinar on “Online Earning Skills for Engineers” organized by Pakistan Engineering Council (PEC), Islamabad, Pakistan. Dated: 22nd March 2023. 5. One day CPD (0.5point) webinar on “Health, Safety & Environment Management in Construction Industry” organized by Pakistan Engineering Council (PEC), Islamabad, Pakistan. Dated: 28th February 2023. 6. One day educational webinar on “A guide to Writing high impact publications: getting published in top journals” organized LetPub Learning Nexus, Accdon LLC, USA. Dated: 19th January 2023. 7. Navigating the pathways of publishing in high-quality journals by using Scopus, at Higher Education Commission Pakistan, on Tuesday 15th November 2022. 8. 6th International Training Workshop of Waste to Energy: October 18th to November 1st, 2022, Hangzhou, China (Online) 9. One day CPD (01point) webinar on “Procurement and Contract Management” organized by Pakistan Engineering Council (PEC), Islamabad, Pakistan. Dated: 25th August 2022. 10. One day CPD (01point) webinar on “Public Policy: Concepts, Issues & Challenges-Engineer’s Prospective” organized by Pakistan Engineering Council (PEC), Islamabad, Pakistan. Dated: 26th July 2022. 11. One day CPD (01point) webinar on “Chemical Management System” organized by Pakistan Engineering Council (PEC), Islamabad, Pakistan. Dated: 23rd July 2022. 12. One day CPD (01point) webinar on “Planning and Design of Micro Hydropower Plan” organized by Pakistan Engineering Council (PEC), Islamabad, Pakistan. Dated: 16th July 2022. 13. One day CPD (01point) webinar on “Industrial Wastewater treatment & Recycling Technologies” organized by Pakistan Engineering Council (PEC), Islamabad, Pakistan. Dated: 22nd June 2022. 14. Attended One day webinar on “Application of Geographical Information System in Ecological Management” organized by Institute of Environmental Engineering & Management (IEEM), Mehran University of Engineering & Technology (MUET) at Seminar Hall of IEEM, MUET, Jamshoro, February 2022. 15. Attended Virtual Training on “Entrepreneurship” organized by Institute of Environmental Engineering & Management (IEEM), Mehran University of Engineering & Technology (MUET) at Seminar Hall of IEEM, MUET,

	<p>Jamshoro, September 2021.</p> <p>16. Presented a paper entitled “Conversion of Putrescible Components of Municipal Solid Waste into Organic Fertilizer by Aerobic Composting” in International Webinar on Recycling; Theme: Reuse the Past, Recycle the Present and Reduce Pollution in the Future, held during July 26, 2021/Dubai, UAE.</p> <p>17. Attended One day webinar on “Consultative Meeting on Electricity Distribution Efficiency Improvement project (EDEIP)” by Hyderabad Electricity Supply Company (HESCO) on 16th July 2021.</p>
<p>Trainings/ Workshops/ Conferences/ Seminars attended.</p>	<ol style="list-style-type: none"> 1. International Conference on Integrated Flood Management under Changing Climate Scenario (IFMCC 2023” organized by US-PCASW, MUET, Jamshoro, 1-3rd March, 2023. 2. 5th National Conference on “Issues, Trends & Developments in the Field of Energy and Environment (NCEE)” organized by QUEST, Nawab Shah, 18-20th January 2023. 3. Four days workshop on “Training of Trainers: Environmental Sustainability and human Health”, organized by Committee of Sindh Community Foundation, dated: from 26th to 29th December 2022. Hyderabad, Sindh, Pakistan 4. Training on “Internal Quality Audit (ISO 9001:2015)” organized by MUET, Jamshoro, 1st June 2022. 5. One Day “World Water Day: Ground Water-Making the Invisible Visible”, at USPCAS-W Auditorium, organized by USPCAS-W, MUET Jamshoro, Wednesday, 30th March 2022. 6. One Day Seminar on “Sustainable Solid Waste Management System” organized by Department of Chemical Engineering, University of Karachi, Tuesday, 29th March 2022. 7. International Conference on “Environmental Sustainability”, at USPCAS-W, organized by US-Pakistan Center for Advanced Study in Water, MUET, Jamshoro, 3rd - 4th March 2022. 8. One Day “World Wetlands Day Celebration Event”, at USPCAS-W Auditorium, MUET, organized by IEEM, MUSEE and USPCAS-W, MUET, Jamshoro Wednesday, 9th February 2022. 9. One Day Seminar on “Solid Waste Management Issues in Sindh Province (in Focus Karachi), with post competition”, organized by Department of Energy and Environment Engineering, Dawood University of Engineering & Technology, Karachi, Thursday, 22nd January 2022. 10. Three Days, 6th International Conference on “Energy, Environment & Sustainable Development (EESD-2022)”, at USPCAS-W, organized by Department of Electrical Engineering, Textile Engineering, and IEEM, MUET, Jamshoro, December 2021. 11. Training on “Internal Quality Audit (ISO 9001:2015)” organized by MUET, Jamshoro, 13th October 2020. 12. Two days “New Faculty Boot Camp for Effective Teaching, Research and Mentoring” December 11-12, 2019, U.S. – Pakistan Centers for Advanced Studies in Water. 13. 5th International Conference on Energy, Environment & Sustainable Development (EESD-2018), Nov. 2018, MUET, Jamshoro 14. 4th International Conference on Energy, Environment & Sustainable

	<p>Development (EESD-2016), Nov. 2016, MUET, Jamshoro</p> <ol style="list-style-type: none"> 15. 1st National Conference on “Environmental Engineering & Management”, 13-14th April 2016, MUET, Jamshoro 16. 3rd International Conference on Energy, Environment & Sustainable Development (EESD-2014), Oct. 22-24, 2014, MUET, Jamshoro 17. One Day Symposium on "Applications of Thar Coal" held at MUET, Jamshoro, July 11, 2013 18. Professional Course “ArcGIS Software” July 06-15, 2012. 19. 2nd International Conference on “Energy, Environment and Sustainable Development” February 27-29, 2012 20. International Program of Training for Trainers on “Integrated Water Resources Management” 16-21 January 2012. 21. 2nd International Conference on “Energy & Environment: Role of Energy Resources in Sustainability of Environment” 16-18 January 2012. 22. Training Course on “Arsenic Problems in Sindh and its Remediation” November 15-17, 2011. 23. Training Workshop on “Analytical Techniques in Soil and Water Analysis” June 15-17, 2010. 24. Stakeholder’s Consultation Workshop on “Waste Agriculture Biomass (WAB) Utilization as Energy/Material Source) January 13-14, 2010. 25. Seminar on “Recovery of Value-Added Products from Wastes” December 24, 2009. 26. 1st International Conference on “Energy, Environment & Sustainable Development for Growing Economies (EESD2009)” May 4-6, 2009. 27. Seminar on “Water Resources Depletion, Treatment and Recycling” February 16, 2009. 28. Workshop on “Gender mainstreaming Environmental Decision making & Education” November 18, 2008. 29. Training course on “Introduction to Gender & Environment” November 10-15, 2008.
Skills	<ul style="list-style-type: none"> ➤ Good verbal and written communication skills. ➤ Good management skills together with technical expertise. ➤ Able to handle independent projects. ➤ Able to work as a Team Member. ➤ Ability to adjust in new and different environments. ➤ Ability to work under stress and strain conditions. ➤ Ability to work as a Group Member. ➤ High motivated with a can-do attitude. ➤ Well-groomed with a presentable personality.