

# PROF. DR. FAIZA SHARIF

## Resume

<b>Personal</b>	<p>Professor/Director Sustainable Development Study Centre, GCU Lahore &amp; Office of Research Innovation and Commercialization Cell: +92(0)3214000818 Off. +92(42)111-000-010 Ext. 256; +92(42)99213698. <a href="mailto:faizasharif@gcu.edu.pk">faizasharif@gcu.edu.pk</a>; <a href="mailto:faizagcu@yahoo.com">faizagcu@yahoo.com</a> <a href="mailto:chairperson.sdsc@gcu.edu.pk">chairperson.sdsc@gcu.edu.pk</a>; <a href="mailto:director_dric@gcu.edu.pk">director_dric@gcu.edu.pk</a></p> <p>ORCID: <a href="https://orcid.org/0000-0002-5142-9136">https://orcid.org/0000-0002-5142-9136</a> Google Scholar: <a href="https://scholar.google.com.pk/citations?user=moYbhYEAAAAJ&amp;hl=en">https://scholar.google.com.pk/citations?user=moYbhYEAAAAJ&amp;hl=en</a> ResearchGate: <a href="https://www.researchgate.net/profile/Faiza-Sharif-2">https://www.researchgate.net/profile/Faiza-Sharif-2</a> LinkedIn: <a href="https://www.linkedin.com/in/faiza-sharif-a388796b?utm_source=share&amp;utm_campaign=share_via&amp;utm_content=profile&amp;utm_medium=android_app">https://www.linkedin.com/in/faiza-sharif-a388796b?utm_source=share&amp;utm_campaign=share_via&amp;utm_content=profile&amp;utm_medium=android_app</a></p>																								
<b>Education:</b>																									
<ul style="list-style-type: none"> <li>PhD (Botany), Government College University Lahore.</li> <li>M. Phil. (Botany), Government College University Lahore.</li> </ul>																									
<b>Research Theses</b>																									
<p>Sharif, F. (1991). Cytological Studies of Some Members of Family Cucurbitaceae. M. Sc. Thesis. Forman Christian College (University of the Punjab) Lahore.</p> <p>Sharif, F. (2002). Monitoring the Relict Stands and Rehabilitating Natural Thorn Forest Species on Derelict Site at Archaeological Mound of Harappa. M. Phil. Thesis. Government College University, Lahore.</p> <p>Sharif, F. (2011). An Investigation into the Refinement of Restoration Techniques for the Rehabilitation of Natural Thorn Forest Species on a Derelict Site. Ph. D. Thesis. Government College University, Lahore.</p>																									
<b>Experience</b>																									
<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>Title</th><th>Institution</th><th>From</th><th>To</th></tr> </thead> <tbody> <tr> <td>Lecturer</td><td>Punjab Government</td><td>17.02.1996</td><td>19-04-2004</td></tr> <tr> <td>Lecturer</td><td>Government College University Lahore</td><td>20.04.2004</td><td>31-05-2008</td></tr> <tr> <td>Assistant Professor</td><td>Government College University Lahore</td><td>31-05-2008</td><td>26.05.2016</td></tr> <tr> <td>Associate Professor</td><td>Government College University Lahore</td><td>26.05.2016</td><td>31-07-2019</td></tr> <tr> <td>Professor</td><td>Government College University Lahore</td><td>31-07-2019</td><td>to-date</td></tr> </tbody> </table>		Title	Institution	From	To	Lecturer	Punjab Government	17.02.1996	19-04-2004	Lecturer	Government College University Lahore	20.04.2004	31-05-2008	Assistant Professor	Government College University Lahore	31-05-2008	26.05.2016	Associate Professor	Government College University Lahore	26.05.2016	31-07-2019	Professor	Government College University Lahore	31-07-2019	to-date
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Professor	Government College University Lahore	31-07-2019	to-date																						

### ***Administrative Positions***

<b>Sr. No.</b>	<b>Designation</b>	<b>From</b>	<b>To</b>
1.	Director, Sustainable Development Study Centre (SDSC)	28-01-2020	to-date
2.	Director, Office of the Research Innovation and Commercialization (ORIC)	26-08-2021	to-date
3.	Warden, Fatima Jinnah Girls Hostel, GCU Lahore	17-06-2016	10-03-2020
4.	Warden, Dr. Ruth Pfau New Girls Hostel, GCU Lahore	17-11-2023	to-date

### ***Honor and Awards***

- Roll of Honour in M. Sc. Botany from FC College Lahore.
- HEC Best University Teacher Award 2016.

#### **International Awards**

- Two months group training on Environmental Education Focused on Fresh Water Environment for Tertiary Level Teaching Staff. Awarded/Funded by Japan International Cooperation Agency (JICA), Osaka, Japan. 22.08.2005- 20.10.2005

### ***Memberships***

- Society for Ecological Restoration International
- Life member Pakistan Botanical Society.

### ***National/ Provincial level tasks performed***

#### **Curriculum Revision and Design at National Level**

- Secretary of HEC National Curriculum Revision Committees in 2012-17, 2017-18 for the revision of National Environmental Science BS and MS curricula.
- Revised National Environmental Science BS and MS curricula as a Member of HEC National Curriculum Revision Committees in 2024.
- Revised syllabus of 'Botany' in 2014 for Federal Public Service Commission CSS examinations (implemented 2016).
- Designed new course of 'Environmental Science' (100 marks) in 2014 for Federal Public Service Commission CSS examinations (implemented from 2016).
- Contributed in the 'Environmental Science' section of 'Everyday Science' course in 2014 for Federal Public Service Commission CSS examinations (implemented 2016).
- Conducted evaluation of 10 Universities affiliated Degree Colleges of Punjab (Lahore District) against minimum quality standards as part of HEC Evaluation Team (February-April, 2014).

#### **Trainings Conducted**

- 4 Weeks Workshop on Biology new Course for Secondary School Teachers (01.08.02-31.08.02). Organized by Directorate of Staff Development, Punjab.
- Conducted series of 2-day workshops organized by Higher Education Commission of Pakistan for University faculty of Punjab (March 27-28 at Lahore), KPK & AJK (May 28-29 at Bara Gali) and Baluchistan (August 07-08, at Quetta) as a resource person during 2014.

- A resource person for within and outside university professional trainings conducted for faculty/staff from time to time.

#### **Technical Editor Provincial Level Reports**

- Environmental Protection Agency, Punjab (2024). Punjab State of the Environment Report 2022. Strategic Planning and Implementation Unit, Punjab Green Development Program, Environment Protection Department, Government of the Punjab, Pakistan. <https://epd.punjab.gov.pk/system/files/Report%202022-hi-es%20%284%29.pdf>.
- Environmental Protection Agency, Punjab (2023). Punjab State of the Environment Report 2023. Strategic Planning and Implementation Unit, Punjab Green Development Program, Environment Protection and Climate Change Department, Government of the Punjab, Pakistan. <https://epd.punjab.gov.pk/system/files/SOE%20Report%2020June%20low%20res.pdf>.  
<https://epd.punjab.gov.pk/soe/>.

#### **Advisory Roles for the Provincial Government Agencies**

- Member Advisory Committee on Environmental Quality Standards, Environment Protection Department Punjab, from 27-11-2015 to 2017.
- Member Committee of experts for Reviewing Environmental Assessments pertaining to all sectors define in regulations “Review of IEE/EIA Regulations 2000”, Environmental Protection Agency Punjab from 2016-2019.
- Member Committee to examine brick kilns to control smog (Environmental Protection Agency Punjab, vide notification dated 20-01-2021.
- Member Committee to provide technical assistance to brick kilns owners for conversion of old technology brick kilns to Zig Zag methodology in Punjab, vide notification dated 12-04-2023.
- Panel of Experts for Expert Opinion on Issues relating to smog in Punjab, Strategic Planning & Implementation Unit, Environment Protection Department, Punjab, vide notification dated 07-07-2023.
- Member Committee for examination and evaluation of new air pollution control technologies in the Environmental Sector Regarding Brick Kilns, vide notification dated 05-09-2024.
- Member Committee for designing training modules for Ph.D. research supervisors, Punjab Higher Education Commission, vide notification dated 24-10-2023.
- Expert for Supporting Preparedness for Article 6 Cooperation (SPAR6C) Pakistan second National COP ASIC Round. SPAR6C, GGGI, IKI UNEP and Ministry of Climate Change, Pakistan, 01-11-2024.
- Judge for the PHEC Punjab Innovation and Technology Expo (PINTECH) for Environmental Science and Engineering category, 2024 and 2025.

#### ***Trainings Received***

- 3 weeks Master Trainer Workshop on Biology (07-27 July, 2002) Directorate of Staff Development, Govt. of the Punjab.
- Science Workshop on Biology Intermediate level (10-19 June, 2002) Directorate of Staff Development, Govt. of the Punjab.
- Workshop on “Professional Development” (26-31 March, 2007). Higher Education Commission of Pakistan.

<ul style="list-style-type: none"> <li>• National Impact Assessment Programme. Improvement of EIA Curricula of Tertiary Level Academic Institutions: Sharing the Detailed Curriculum (27 June, 2013). Organized by IUCN, Netherlands Commission for Environmental Assessment.</li> <li>• Improving review mechanism of EIA reports and introduction to accreditation system for EIA consultation (15-16 April, 2013). Organized by IUCN, Netherlands Commission for Environmental Assessment.</li> <li>• Course on Biodiversity Inclusive EIA (02-03 December, 2013). Organized by IUCN, Netherlands Commission for Environmental Assessment.</li> <li>• e-Course on Higher Education's Policy on Protection Against Sexual Harassment at Higher Education Institutes. (2020). Offered by National Academy of Higher Education (NAHE).</li> <li>• One Day Training on the Protection Against Sexual Harassment on the Workplace (02-09-2020). Organized by the Ombudsperson Punjab.</li> <li>• Training on GHG Emissions &amp; Carbon Foot printing organized by WWF-Pakistan (14-15 June, 2022).</li> <li>• Women Leadership Program (29-11-2021 to 4-12-2021). Organized by The National Academy of Higher Education (NAHE), Islamabad.</li> <li>• One Day Workshop on "Divisional Dialogue to Identify Challenges Faced by Members of Anti-Harassment Inquiry Committees in all Public and Private Sectors" (20-06-2022). Ombudsperson Punjab.</li> <li>• Capacity Development Training program on "Intellectual Property and Patent Filing" for Public Sector Universities (22-02-2023). Organized by Punjab Higher Education Commission.</li> <li>• Exposure Visit to Vietnam "Navigating Green Productivity and Sustainability: Understanding and Implementing Green Practices in the Textile and Apparel Sector" (22-29 June, 2024). Organized by WWF-P, National Productivity Organization and Asian Productivity Organization.</li> <li>• Intellectual property Protection and Stakeholder Consultation on Adoption of WIPO Treaty on Intellectual, Genetic Resources and Associated Traditional Knowledge (21-10-2024). UVAS, IPO Pakistan.</li> <li>• Knowledge sharing Workshop on Gender specific Roles and Vulnerabilities in Poaching and Illegal wildlife Trade (30-10-2024). WWF Pakistan.</li> <li>• Prevention from Sexual Exploitation and Abuse - Leadership Responsibility (12-13 June, 2025). Organized by UNFPA and Civil Services Academy Lahore.</li> </ul>
<b><i>Trainings Conducted</i></b>
<ul style="list-style-type: none"> <li>• 4 Weeks Workshop on Biology new Course for Secondary School Teachers (01.08.02-31.08.02). Organized by Directorate of Staff Development, Punjab.</li> <li>• Conducted series of 2-day workshops organized by Higher Education Commission of Pakistan for University faculty of Punjab (March 27-28 at Lahore), KPK &amp; AJK (May 28-29 at Bara Gali) and Baluchistan (August 07-08, at Quetta) as a resource person during 2014.</li> <li>• A resource person for within and outside university professional trainings conducted for faculty/staff from time to time.</li> </ul>
<b><i>Research Supervision</i></b>
<b>Undergraduate</b>

- Afzal, A. (2009). Effect of Saagian drain water on physico-chemical characteristics of soil in Shahdara area, Lahore, Pakistan. B. Sc. (Hons.) Thesis. Government College University, Lahore.
- Alam, Z. (2011). Some ecological studies of saline-sodic soil rehabilitated by *Salvadora persica* L. at Harappa Archaeological Site. B. Sc. (Hons.) Thesis. Government College University, Lahore.
- Sarwar, F. (2011). Use of limestone quarry waste to facilitate the growth and establishment of *Prosopis cineraria* L. on a salt-affected land. B. Sc. (Hons.) Thesis. Government College University, Lahore.
- Yousaf, W. (2011). Use of limestone quarry waste to facilitate the growth and establishment of *Salvadora oleoides* Decne. on a salt-affected land. B. Sc. (Hons.) Thesis. Government College University, Lahore.
- Umar, Z. (2011). A comparative study on the use of earthworms for composting of paper and sugar industrial wastes. B. Sc. (Hons.) Thesis. Government College University, Lahore.
- Munawar, A. (2012). Effect of chemical industry effluent on germination and growth of *Sorghum bicolor* (PSC-1010). B. Sc. (Hons.) Thesis. Government College University, Lahore.
- Ali, F. (2012) Assessment and Planning of solid waste management practices: a case study of GCU, Lahore. B. Sc. (Hons.) Thesis. Government College University, Lahore.
- Naseer, S. (2012). Effect of Urbanization on butterfly diversity and abundance in city district Lahore. B. Sc. (Hons.) Thesis. Government College University, Lahore.
- Shehzadi, A. and Siddiqui, R. (2013). Water-use Efficiency of some ornamental shrubs grown under irrigated conditions at GCU Botanic Garden. B. Sc. (Hons.) Thesis. Government College University, Lahore.
- Naseem, A. and Asghar, S. (2013). Effect of substrate characteristics on the efficiency of rooftop gardens in Sheikhpura city. B. Sc. (Hons.) Thesis. Government College University, Lahore.
- Tabassum, A. and Toor, M. (2013). Domestic Energy use and lighting patterns in a rural community of Gujranwala: a case study of Nangray Bhatti. B. Sc. (Hons.) Thesis. Government College University, Lahore.
- Khan, W.A. and Mushtaq, T. (2013). Energy consumption and lighting trends in urban community of Lahore city. B. Sc. (Hons.) Thesis. Government College University, Lahore.
- Jamil, H.I. and Sajid, M. (2014). Effect of green open spaces on social health and behavior of urban residents: A case study of communities in Lahore city. B. Sc. (Hons.) Thesis. Government College University, Lahore.
- Majeed, A. and Tanweer, S. (2014) Evaluation of social and economic impacts of BCI (Better cotton initiative) project in some villages of District Rahim Yar Khan.
- Safdar, H. and Sheikh, N.A. (2014). Waste quantification and consumer reflection on the use of plastic carrier bags in the Lahore city.
- Naqvi, M., and Asad, K. (2014). Comparative analysis of occupational health and safety hazards in power house and tissue-line manufacturing at Packages Limited.

- Aslam, K. and Anwar, Z. (2015). Effect of *Eucalyptus* on understory vegetation and soil properties in a riparian plantation near Lahore.
- Shahid, A. and Shauquat, S. (2015). Designing an energy management and conservation plan for a casting industry in Lahore.
- Komal, H. and Aslam, S. (2015). Vulnerability and capacity assessment of flood prone Hafizabad community.
- Mushtaq, A. (2015). Socio-economic and Environmental impacts of landslides in Hajira Azad Jammu Kashmir.
- Asghar, A. and Shabir, I. (2015). Role of *Salvadora oleoides* in assisting the recovery of ecosystem functions of Thorn Forest at Harappa.
- Arooj, F. and Attira H,R. (2016). Monitoring of Noise Pollution and its Effects on Traffic Wardens in Lahore City.
- Sikander, A. and Fatima, I. (2016). Comparative study on the effect of exclosure on vegetation status of scrub forest at Khabeki.
- Anwar, H. and Mushtaq, M. (2016). Impact of different soil substrata on assisted natural regeneration of scrub forest at Khabeki.
- Faheem, M, S. and Afroz, D. (2017). Socio-economic and environmental impacts of peat extraction in Phandar valley, Gilgit Baltistan.
- Razzaq, I. and Shafique, K. (2017). Impacts of indoor daylight environments on behavior, workplace performance and employee productivity.
- Shahzad, M. and Ali, M. (2017). Assessment of Water Footprint of Urban Green Spaces of Lahore City.
- Anjum, S. and Rehan. (2018). Modeling and valuation of Carbon storage services provided by *Salvadora oleoides* at Harappa mound.
- Altaf, S. and Sohail, H. (2018). Valuation of Regulatory services provided by scrub forest Hayat Ul Mir, Soan Valley.
- Umar, H, M. (2019). Assessment of health impacts on waste pickers working in Data Gang Baksh Town, Lahore.
- Ali, B. (2019). Economics of informal municipal solid waste recycling: a case study of Data Gang Baksh Town, Lahore.
- Iqbal, A. and Naeem, D. (2019). Assessment of food waste generation and consumer behavior at different restaurants of Lahore city.
- Hassan Shafiq and Ayesha Rasheed. (2020). Assessment of ambient air pollutants and occupational health risks of brick kiln workers in Lahore District.
- Tayyaba Sattar and Sharafat Ali. (2020). Effect of brick kilns emissions on surrounding soil and crops.
- Amna Naeem and Qureshi, M. (2021). Plastic waste generation rate and recycling practices among residential communities of Lahore city.
- Muhammad Musab Khan and Sahib-e- Alam Khan. (2021). Plastic waste management at commercial scale and its integration into circular economy: case study of Lahore.
- Mehak Zahra and Ayesha Qazi. (2022). Developing an optimized waste collection system for Lahore City.

Infa Ahmed and Areej Khalid. (2022). Investigating safety, access and inclusiveness of urban green spaces of Lahore city.

Qamar Javed Pirzada and Gul e Lala. (2022). Ecological footprint assessment of Government College University Lahore.

Shanzay Asghar and Rabia Aman. (2022). Climate change adaptations for rice-wheat and citrus farming systems in Hafizabad and Sargodha Districts.

Qurat ul Ain and Ahmad (2022). Comparative life cycle analysis of garment washing processes in jeans manufacturing.

Kashaf Irshad and Aleeha Sharjeel. (2023). Population status, habitat preferences and threats to Indian monitor lizard (*Varanus bengalensis*) at New Campus of GCU, Lahore.

Zargham Arshad. (2023). Air Quality Assessment and Ventilation Adequacy of different indoor work spaces at Government College University Lahore.

Abdullah, M. and Amjad, K. (2023). Assessing carbon footprint from energy and food waste at Government College University, Lahore.

Amna Dawood and Muhammad Ali. (2023). Analysis of waste recycling practices at Government College University, Lahore.

Fatima Asif and Zarmeen. (2024). Integrated analysis of social justice implications for climate change adaptation in rice farming at district Narowal.

Talha Sial and Abdullah Chand. (2024). Carbon footprint assessment of a medium scale textile industry.

Hamza Zafar. (2024). Assessing the carbon footprints of a medium-scale readymade garments industry in Lahore.

Khalida Parveen and Saba Nawaz. (2024). Valuation of regulatory and cultural ecosystem services provided by Miyawaki forest at GCU Lahore

Yumnah Jahanzeb. (2025). Life cycle assessment and litter deodorization of controlled poultry shed.

#### **M. Sc.**

Javaid, S. (2005). Effect of sodium chloride salinity on germination, growth, water status and ion contents of *Suaeda fruticosa* (L.) Forssk. M. Sc. Thesis. Government College University, Lahore.

Ashraf, S. (2006). Effect of various doses and time of application of Urea on growth and yield of Sunflower 64A93. M. Sc. Thesis. Government College University, Lahore.

Fatima, S. (2008). Environmental attitudes of the students of GC University Lahore. M. Sc. Thesis. Government College University, Lahore.

Tariq, S. (2009). Environmental knowledge and sustainable consumption practices of the students of GC University Lahore. M. Sc. Thesis. Government College University, Lahore.

#### **M. Phil.**

- Hassan, A.U. (2005). Effect of Soil Replacement Treatments on the Rehabilitation of Thorn Forest Species on the Derelict Periphery of Harappa Mound. M. Phil. Thesis. Government College University, Lahore.
- Rafiq, T. (2008). Impact of Environmental Education on knowledge, skills and attitude of the students of some schools in Lahore. M. Phil. Thesis. Government College University, Lahore.
- Qamar, S. (2008). Introduction of *Salvadora persica* L. to ameliorate saline sodic soil at the archaeological mound of Harappa. M. Phil. Thesis. Government College University, Lahore.
- Afiffa Malik. (2010). Ecological studies of the remnant stand of plain thorn forest community at Harappa mound. M. Phil. Thesis. Government College University, Lahore.
- Andleeb, S. (2011). Determination of heavy metals in poultry feed, tissues and litter in district Lahore. M. Phil. Thesis. Government College University, Lahore.
- Habeeb, N. (2012). Improving waste management practices of primary school students: case study of a public school in Lahore. M. Phil. Thesis. Government College University, Lahore.
- Muhammad Farooq. (2012). Effect of different vermi-amendments on growth of *Sorghum bicolor* in saline-sodic soil. M. Phil. Thesis. Government College University, Lahore.
- Khan, M. (2014). Effect of gender & major study stream on awareness, knowledge and attitudes of university students and researchers on biosafety issues/legislations of GM crops. M. Phil. Thesis. Government College University, Lahore.
- Ali, I. (2014). Socio-economic and environmental valuation of urban green spaces: A case study of Jilani park. M. Phil. Thesis. Government College University, Lahore.
- Ali, A.S. (2014). Estimation of the aboveground and belowground carbon sequestered by *Salvadora oleoides* Decne. and *Salvadora persica* L. in a restored forest at Harappa mound. M. Phil. Thesis. Government College University, Lahore.
- Iqbal, A. (2014). An evaluation of socio-economic, environmental and infrastructural indicators of community wellness of the inhabitants of Lahore city. M. Phil. Thesis. Government College University, Lahore.
- Memoona Urooj. (2014). Evaluation of the role of urban green spaces in the conservation of native plant species. M. Phil. Thesis. Government College University, Lahore.
- Arooj Fatima. (2015). Assessment of the ecosystem goods and services provided by the floodplains of River Ravi around Lahore City. M. Phil. Thesis. Government College University, Lahore.
- Zawar Haider. (2015). Valuation of soil ecosystem services of scrub forest at Soan Valley. M. Phil. Thesis. Government College University, Lahore.
- Muhammad Naeem Ishfaq. (2015). Quantification of above and below ground carbon sequestered by *Salvadora oleoides* Decne. at Harappa mound.
- Asma Mansoor. (2015). Evaluation of current status and proposing management interventions for the rehabilitation of Jhok reserve forest along River Ravi Lahore. M. Phil. Thesis. Government College University, Lahore.



- Akram, S. (2015). Quantifying above and below ground carbon sequestered by an urban garden: A case study of Bagh-e-Jinnah. M. Phil. Thesis. Government College University, Lahore.
- Sobia Shakeel. (2015). Setting-up an enclosure to see the successional trends and community dependence on *Butea monosperma* (Lam.) Kuntze forest at Kolian, Shakargargh. M. Phil. Thesis. Government College University, Lahore.
- Pakiza Saleem. (2015). Quantification of Scrub Forest ecosystem services with special emphasis on the role of *Dodonaea viscosa* (Linn.) Jacq. at Soan Valley.
- Kawishn Akram. (2015). Estimation of regulatory services of two colonizer shrubs *Justicia adhatoda* L. and *Buxus sempervirens* L. in Scrub Forest at Soan Valley. M. Phil. Thesis. Government College University, Lahore.
- Nauman Ahmed. (2016). Monitoring and nutritional quality assessment of some wild forage species in Soan Valley. M. Phil. Thesis. Government College University, Lahore.
- Aatika Subhani. (2016). Monitoring and determining the relationship among multiple ecosystem services provided by open urban green spaces associated with Lahore Fort.
- Maham Sajid. (2017). Biodiversity richness and environmental, cultural and economic services provided by urban domestic gardens: A case study of Lahore city.
- Fareeha Javaid. (2017). Valuation of Ecosystem Services Provided by River Ravi Lahore.
- Waqar Hussain. (2017). Assessment of mountain water quality, community vulnerability and socioeconomic and environmental loss due to flash flood in District Ghanche Baltistan, Pakistan.
- Rabia Ahmed. (2017). Effects of Air Pollution on Morphology and Physiology of Roadside Plant Species.
- Hina Gul. (2017) Valuation of provisional, regulatory and cultural ecosystem services provided by the GCU botanic garden Lahore.
- Hina Hanif. (2017). Quantification of Carbon Sequestered by Jhok Reserve Forest, Lahore.
- Lina Maqbool. (2017). Calculation of carbon, water and ecological footprint as environmental performance indicators of textile industry
- Attiq, Z. (2017). Calculation of carbon, water and ecological footprint as environmental performance indicators of textile industry- A case study of Crescent Textiles limited.
- Nauman Ashraf. (2018). Valuation of ecosystem services provided by Trees along Lahore Canal.
- Tayyaba Akhtar. (2018). Valuation of ecosystem services provided by roadside trees in Lahore city.
- Humayun Chaudhary. (2019). Mapping of habitat quality and valuation of some regulatory services provided by plain thorn forest community at Harappa.
- Afsheen Aslam. (2019). Mapping of Habitat quality and valuation of avoided runoff service provided by Hayat-ul-Mir Forest, Soan Valley.
- Syeda Khadija Tirmizi. (2019). Mapping and valuation of Cultural Ecosystem Services provided by scrub Forest Hayat-ul-Mir and Thorn Forest Harappa.
- Ammara Taufeeq. (2019). Assessment of Organochlorine (OC) residues in water and sediments from Barandu River, District Buner, Swat.

- Zahra Anwar. (2019). Valuation of ecosystem services provided by Model Town Park, Lahore.
- Muhammad Shahzad. (2019). Monitoring the recovery of ecosystem services and functions of Thorn Forest Community after ecological restoration at Harappa Mound.
- Raabia Shahzad. (2020). Evaluation of power generation potential of sediments of Kallar Kahar Lake using microbial fuel cells.
- Naabeeha Lodhi. (2020). Alleviation of lead toxicity in spinach by using biochar.
- Uzma Sarfraz. (2021). Assessment of indoor air pollution and associated health impacts in residential areas of Lahore city.
- Mubbara Arshad. (2021). Integrated management of *Fusarium oxysporum* infection in *Solanum lycopersium*, Roma.
- Zoha Tariq. (2021). Determination of Lithium concentration in selected automobile sector.
- Sher Zaman. (2022). Socio-economic and environmental impacts of water conservation strategies adopted under Drought Mitigation and Preparedness Program in Soon Valley.
- Hafiza Saba. (2022). Developing bio-formulations and determining their mode of action against *Alternaria alternata* in *Capsicum annum* var. *Talhar*.
- Misbah Shahzadi. (2022). Developing an efficient food waste based composting system for Government college University Lahore.
- Faatima Naqvi. (2022). Monitoring and risk assessment of currently used pesticides (CUPs) in lakes and agricultural settings of Uchali Wetland Complex.
- Uswa Aamir. (2022). Profile distribution and ecological risk assessment of persistent organic pollutants (PoPs) in environmental matrices of Khabeki and Uchalli lakes.
- Rabia Qayyum. (2023). Nutrient removal efficiency of aquatic plant consortium in floating treatment wetland for municipal wastewater.
- Muhammad Musab Khan. (2023). Determination of microplastics in different environmental compartments of Sulemanki headworks and their transfer to food chain.
- Muhammad Ramzan. (2024). Estimation of losses and damages caused by 2022 flood in the rural areas of district Layyah.
- Sabrina Rahman. (2025). Analyzing the effectiveness of Community-Based Wildlife Conservation: A case study of Tehsil Gojal, Hunza Valley.

#### **Ph.D.**

#### **Supervision**

- Nazir, S. (2015). A comparative study of insect-plant associations of old groves and newly rehabilitated stands of thorn forest community at Harappa Mound. Ph. D. Thesis. Government College University, Lahore.
- Mahmood, R. (2015). Physiochemical characterization and role of indigenous bacteria for the degradation and de-colorization of textile effluent. Ph. D. Thesis. Government College University, Lahore.
- Gulzareen Ghafoor. (2021). Assessment of carbon stock and climate warming impacts on some regulatory services of Hayat-ul-Mir Forest, Soan Valley, Pakistan.

Rabia Irfan (2023). Assessment of Asthma prevalence and its association with Semi Volatile Organic compounds in blood and urinary biomarkers among the population of Lahore city.

Waqas Khan (2024). Monitoring and assessment of criteria air pollutants and carcinogenic polycyclic aromatic hydrocarbons (PAHs) in Lahore city.

### **Co-Supervision**

Laila Shahzad (2019). Assessment of socio-ecological impacts of climate change and natural disasters on the livelihood of Balakot Mountainous Community.

### **Research in Progress**

#### **Undergraduate**

Total 8 students' Research in Progress (2021-25)

Ayesha Yahya and Shoaib Saleem. Assessing the environmental and social impacts of a medium-scale textile industry in Lahore under EU's Corporate Sustainability Reporting Directive.

Haris Abdullah and Javeria Shabbir. Gap Analysis of Social and Environmental Sustainability Factors under the EU CSDD Directives: Case study of a Large-Scale Textile Industry.

Sharoon Riasat and Amna Farooq. Integrating Life Cycle Analysis in Eco-labeling of Motorcycle Safety Apparels.

Mah-e-Munir and Hira Arshad. Identification and screening of plastic degrading bacteria from dumping site soil

#### **M.Phil.**

Javed, Muskan (2025). Readiness assessment of Ready-made Garment Industries in Sialkot for the implementation of the EU Corporate Sustainability Due Diligence Directive.

Rashid Fiza (2025). Optimizing E-Waste Management through Life Cycle Assessment of Resource Recovery and Disposal Techniques.

Idrees, E. (2025). Exploring the potential of electric mass transit system to claim carbon credits: A pathway for sustainable transportation system in Pakistan.

Dawood Amna (2025). Assessing Carbon Credit opportunities through Waste-to-Energy and composting strategies for Municipal Solid Waste (MSW).

#### **Ph.D.**

Breeha Adnan (2020). Spatiotemporal Modelling and Environmental Performance of Selected Urban Green Spaces in Lahore, Pakistan.

Muhammad Shahzad (2021). Integrating genetic variation, ecosystem functions and life cycle assessment in measuring the restoration success of thorn forest community at Harappa.

Lina Maqbool (2021). Assessment of climate change risks, vulnerabilities and environmental performance of water resource management systems in Jalalpur canal command area, District Jhelum.

Ifrah Ali. Environmental and Health impact analysis of surface mining in Mianwali District.

Bushra Azhar. Coursework completed.

## ***University Level Tasks Performed***

### **Member Statutory Bodies**

- Member/Secretary Board of Studies at the Department of Botany from 2005 to 2008.
- Member/Secretary Board of Studies for the subject of Environmental Science at Sustainable Development Study Centre from 31-10-2008 to 31-10-2011.
- Elected member of Academic Council as Associate Professor from 10-04-2017 till Professorship (July 31, 2019).
- Member Board of Faculty of Languages, Islamic and Oriental Learning 2017-19.
- Member of Academic Council as a Professor since July 31, 2019.
- Ex-officio member of Board of Studies Sustainable Development Study Centre as Associate Professor from 31-10-2016 to 31-07-2019, and as Professor from 31-07-2019 to 28-01-2020.
- Convenor Board of Studies Sustainable Development Study Centre from 28-01-2020 to date.
- Member Board of Faculty of Mathematical and Physical Sciences from 03-03-2021 to date.
- Member Advanced Studies and Research Board (ASRB) since 11-10-2021
- Member GCU Discipline Committee for two years vide notification dated 13-10-2021.
- Member Scrutiny Committees for Academic & Administrative posts since 18-04-2022 to date.
- Member GCU anti-harassment committee 28-11-2016 to 30-09-2022
- Convenor GCU anti-harassment committee since 30-09-2022

### **Other Important Assignments at University**

- Teaching BS, M. Phil. and Ph. D. Students at SDSC
- Supervising undergraduate and post graduate research
- Advisor Scientific Ravi 2008-2020.
- Co-Advisor Hiking and Mountaineering Club from 2015 to 2020.
- Member Advisory Board GCU Botanic Garden, since 04-03-2016.
- Advisor Environment Protection Society, GC University, Lahore since 2017.
- Member Endowment Fund Selection Committee, 29-11-2017 to 2020.
- Convener all Departmental Committees of SDSC since January, 2020.
- Member GCU Employee Loan Committee, Category-B (BS-01 to BS-15), since 2020.
- Evaluation Committee for HEC Distinguished National Professor (DNP), 2021 & 2025.
- Convener Research Fund Allocation Committee (ORIC), since 07-09-2021.
- Committee to Review the HEC Nominations for HEC Best Teacher University Award (BUTA), 2021 & 2023.
- Focal Person for Collaboration with Punjab Education Foundation since, February 2023.
- Member GCU-PRGMEA Decarbonisation Committee since June, 2023.
- Institutional Biosafety Committee, since August, 2024.
- Focal Person for International Linkages of GCU Lahore since, August 2024.
- Member Faculty Grievance Redressal Committee since 2024.
- Focal Person YOUNGs Group (Youth Universities Network on SDGs) Planning Commission, Ministry of Planning, Development and Special Initiatives Government of Pakistan.
- Focal Person for all activities related to SDGs within and outside university
- WWF-P External Link Coordinator.

<ul style="list-style-type: none"> <li>• President Various Female Sports from time to time (Mountaineering, Tennis, Badminton).</li> <li>• Focal Person for Lahore Academic Alliance for Climate Action (LAACA) on Behalf of GCU Lahore since 31-01-2025</li> <li>• Institutional Quality Circle since, May 2025.</li> <li>• Focal Person for Pakistan One Health University Network (PAKOHUN) on behalf of GCU Lahore from 08-07-2025 to-date.</li> </ul>
<b>Tasks Performed for Statutory Bodies of Other Universities</b>
<ul style="list-style-type: none"> <li>• Member Board of Studies Kinnard College for Women University, Lahore Since 2018.</li> <li>• Subject Expert for Environmental Science in Selection Board of University of Engineering and Technology Lahore held on 27-05-2025.</li> </ul>
<b>Brief Statement of Research Interest</b>
<ul style="list-style-type: none"> <li>• Conservation Biology</li> <li>• Restoration Ecology</li> <li>• Urban Ecology</li> <li>• Ecosystem Services Valuation</li> <li>• Environmental Education</li> <li>• Environmental Impact Assessment</li> <li>• Environmental Monitoring and Assessment</li> <li>• Sustainable Development</li> </ul>
<b>Research Publications</b>
<p><b>Journal Articles</b></p> <p>Sharif, F. and A. U. Khan. (2009). Alleviation of salinity tolerance by fertilization in four thorn forest species for the reclamation of salt-affected sites. <i>Pakistan Journal of Boatny</i>, 41(6): 2901-2915.</p> <p>Mahmood, R., Sharif, F., Ali, S., Hayyat, M.U., Cheema, T.A. (2012). Isolation of indigenous bacteria and consortia development for decolorization of textile dyes. <i>Biologia (Pakistan)</i>, 58 (1&amp;2): 53-60.</p> <p>Khan, A.U., F. Ahmad and F. Sharif. (2013). Rapid ranking method for prioritizing restoration by evaluating human influences on the status of scrub forest: a case study. <i>Pakistan Journal of Boatny</i>, 45(1): 11-16.</p> <p>Mahmood, R., F. Sharif, S. Ali and M.U. Hayyat. (2013). Bioremediation of Textile Effluent by Indigenous Bacterial Consortia and its effects on <i>Zea mays</i> L. <i>CV C1415. The Journal of Animal and Plant Sciences</i>, 23(4): 1193-1199.</p> <p>Nazir, S., Sharif, F., Khan, A.U. and Qamar, F. (2013). Measurement of diversity indices of trophic guilds of insects associated with the thorn forest community at Harappa archaeological site. <i>Pakistan Entomologist</i>, 35(2): 115-122.</p> <p>Umar, Z. and F. Sharif. (2013). Use of Earthworms for composting of sugar industry waste. <i>Biologia (Pakistan)</i>, 59(1): 115-123.</p> <p>Mahmood, R., M.U. Hayyat, F. Sharif, S. Ali, S.T. Rizwan and Z. Haider. 2013. Evaluation of Treated Textile Effluent for Irrigation and its Effects on Growth of <i>Zea mays</i> l. <i>Cv c1415. Biologia (Pakistan)</i>, 59 (2): 347-353.</p> <p>Yousaf, W. and F. Sharif. 2013. Use of limestone quarry waste to facilitate the growth and establishment of <i>Salvadora oleoides</i> Decne. on a salt affected soil. <i>Biologia (Pakistan)</i>, 59(1): 157-164.</p>

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- Mahmood, R., Ali, S., Hayyat, M.U., Sharif, F., Cheema, T.A. and Ahmad, F. (2014). Biodegradation of the textile dye by the indigenously isolated bacteria *Bacillus* and *Pseudomonas* species and their discard after the biotreatment. *Asian Journal of Chemistry*, 26(10): 2945-2948.
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- Mahmood, R., Sharif, F., Hayyat, M.U., Ali, S., Siddiq, Z., Rizwan, S.T. (2015). Biotreatment of Textile Effluent for Irrigation Purpose Using Indigenous Bacterial Consortium (BMP1/SDSC/01): A Step Towards Reducing Fresh Water Scarcity. *Environment and Ecology Research*, 3(1): 9-14.
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- Shahzad, L., Khan, A.U., Sharif, F., Mansoor, A. and Nasir, R. (2016). Identifying and Mapping the Elements of Botanic Garden in a Public Park: Case Study of Jilani Park, Lahore. *Biologia (Pakistan)*, 62 (1): 111-119.
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- Shahzad, L., Ali, M., Zubair, H., Sharif, F., Hayyat, M.U. and Ghafoor, G.Z. (2022). Detection of heavy metals in children playing products and its associated health risk assessment in Lahore, Pakistan. *International Journal of Environmental Analytical Chemistry*, pp.1-13.
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### Book Chapters

- Shahzad, L., Riaz, U., & Sharif, F. (2022). Assessment of Remediation Efficiency: Microbial Indicators of Soil Health. In *Bioremediation and Phytoremediation Technologies in Sustainable Soil Management* (pp. 225-239). Apple Academic Press.
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- Shahzad, L., Yasin, A., Sharif, F., & Hayyat, M. U. (2023). Sustainable Management of Waste in Developing Countries: Insight into Sustainability and Waste Management: Why It Is Needed?. In *Waste Problems and Management in Developing Countries* (pp. 73-98). Apple Academic Press.
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- Khan, Q. F., Shabir, M., Ghafoor, G. Z., Sharif, F., Khurshid, M., Rasheed, R., ... & Barq, M. G. (2024). Biodegradation of POPs in Contaminated Land/Water. In *Contaminated Land and Water: Remediation and Management* (pp. 101-118). Cham: Springer International Publishing.
- Farhan, M., Khan, Q. F., Sharif, F., Ahmad, M., Kanwal, A., Butt, Z. A., ... & Ali, M. (2024). Nutrient Contamination in Water. In *Contaminated Land and Water: Remediation and Management* (pp. 91-100). Cham: Springer International Publishing.
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### Research Projects

NO.	TITLE AND PLACE OF RESEARCH	DONOR AGENCY	DURATION		REMARKS
			FROM	TO	
1	Rehabilitation of Natural Thorn Forest Species on the Derelict Peripheries of Harappa Mound.	(WWF-P)	2002	2003	Co-PI
2	Extension of Rehabilitation of Natural Thorn Forest on the Derelict Peripheries of Harappa Mound.	(WWF-P)	2004	2005	Co-PI
3	Raising Environmental Awareness and Developing Skills among School Students through Experiential Learning Programs.	(GCU Lahore)	2006	2008	PI
4	Maintenance and Management of Rehabilitated Thorn Forest Species on the Derelict Peripheries of Harappa Mound.	(WWF-P)	2006	2008	Co-PI
5	Maintenance and Management of Rehabilitated Thorn Forest Species on the Derelict Peripheries of Harappa Mound.	(WWF-P)	2009	2010	Co-PI
6	Conserving Dry-Land Ecosystems in the Indus Plains of Pakistan	Botanic Gardens Conservation International (BGCI)	2010	2016	Co-PI & PI
7	Ecological Valuation of Scrub Forest (Hayat-ul-Mir) and Plain Thorn Forest Community at Harappa: Pleading the Case for their Conservation and Sustainable Utilization.	Higher Education Commission of Pakistan	2017	2020	PI
8	Investigating the Environmental Benefits of Energy Efficient Brick Kilns	International Growth Centre-CDPR	2017	2018	PI
10	Biopesticides: a sustainable approach to manage the fungal infections of vegetable crops.	Higher Education Commission of Pakistan	2021	2022	Co-PI
11	Review of Global Citizenship Education (GCED) and Education for Sustainable Development (ESD) integration in Pakistan's primary and secondary education curriculum.	UNESCO	Oct 2023	June 2024	PI

### **Consultative Projects**

- Ecological Study of Ravi Riverfront Urban Development Project 2014, and updated in 2021.
- Ecological Study of Masterplan of Lahore Division, 2016.
- Ecological Impact Assessment for Shahi Bagh Project Lahore.
- Ecological Study of Tarbela Dam 5<sup>th</sup> Extension Hydropower Project Floating Solar Installation 2020-21
- Ecological Study of Masterplan of Lahore Division, 2021.
- Environmental Audit and up-dating Biodiversity Action Plan for Gulpur Hydropower Project at Mahaseer National Park, AJK from 2023-24.