

## CURRICULUM VITAE

**Dr. HUMMERA NAWAZ**



**Assistant Professor**

**(HEC approved Supervisor)**

Department of Botany,

Division of Science and Technology, University of Education,

Lahore, Pakistan

(Faisalabad-Campus)

<https://ue.edu.pk/empprofile.php?id=1991>

### Particulars

Email: hummera.nawaz@ue.edu.pk

Mobile/Phone: +923006503296

CNIC Number: 33203-1381322-0

Passport Number:

Nationality: Pakistani

Postal Address: Department of Botany, University of Education (Lahore),  
Faisalabad-Campus, College Road, Samanabad, Faisalabad,  
38000, Punjab, Pakistan

Permanent Address: House No. 17 B, Street No.15, Sitara Park City, Jaranwala  
Road, Faisalabad

### Highlights of Professional Experience:

- Assistant professor (TTS) of botany university of education Lahore ,Faisalabad campus from 29 November 2020 to date.
- Punjab group of colleges, Sargodha from 28-6-2008 to 28 September 2020.
- Vice Principal, Chenab College Jhang (Shorkot branch) June, 1999 - June 2008)
- PAF Degree College Rafiqui, Shorkot Cantt. Teaching experience from 1998- 1999

- Group training workshop entitled ‘‘Plan implementation and management’’ at AIOU campus, Islamabad from 28th October to 2nd November, 2002
- Group training workshop entitled ‘‘ Basic concepts of Educational Planning’’ at AIOU Campus, Islamabad from 21th to 26th October, 2002.
- Workshop in Educational Management Development conducted by Ali Institute of Education, Ferozepur Road Lahore
- Ten Day Teacher Training Workshop from 18-07-2005 to 27-07-2005 Organized by Chenab College Jhang
- Fehm-e-Quraan Course Organized by Dar-e Arqam Public School Faisalabad
- Al-Islah Public School (Teaching experience) from 1995-1998

### **DISTINCTIONS:**

- Best Teacher Award, Punjab group of colleges, Sargodha
- Long service Award, Punjab group of colleges, Sargodha
- Administrative experience as Vice Principal, Chenab College Jhang (Shorkot Branch)
- Merit scholarship in Matric from President of Pakistan
- Merit scholarship in M.Sc
- Certificate of Merit from Govt. College for Woman for standing Ist in Biology.
- Certificate of Merit from Govt. College for Woman for standing Ist in Chemistry.
- Certificate of Merit from Govt. College for Woman for standing Ist in Physics
- Six months PhD research Fellowship under IRSIP program, HEC for University of Vienna, Austria, 2017.

### **ACHIEVEMENTS AS VICE-PRINCIPAL OF CHENAB COLLEGE:**

- Establishing the Chenab College sub-campus at Shorekot City, Distt.Jhang, as pioneer of the institute.
- I have started the institute as school with only few students and when I left, students were in thousands (both male and female) on the best progress and performance school promoted to college.

- More than 40 staff members (male and female) were working under my supervision→ quite satisfactory. This is the only prominent college in city showing excellent results seeking position FSc in Faisalabad

## ACADEMIC QUALIFICATIONS

Examination /Degree	Subject	year	Obtained marks	Total marks	%/cgpa	Board/university
<b>Ph.D</b>	<b>Botany</b>	<b>2020</b>			<b>3.55</b>	<b>University of Sargodha</b>
<b>M.Phil</b>	<b>Botany</b>	<b>2005</b>			<b>3.30</b>	Bahauddin Zakarya University, Multan
<b>M.Sc</b>	<b>Botany</b>	<b>1998</b>	<b>686</b>	<b>900</b>	<b>3.67</b>	University of Agriculture, Faisalabd
<b>B.Sc</b>	<b>Botany,zoology, chemistry</b>	<b>1996</b>	<b>439</b>	<b>800</b>	<b>54.87</b>	Punjab university, Lahore
<b>HSSC</b>	<b>Premedical</b>	<b>1993</b>	<b>684</b>	<b>1100</b>	<b>62.18</b>	Bise Sargodha
<b>SSC</b>	<b>Science</b>	<b>1991</b>	<b>702</b>	<b>850</b>	<b>82.58</b>	Bise Sargodha

## PROFESSIONAL QUALIFICATION:

Degree/Certificate	Subject	year	marks	Board/university
b.ed	Science group	1998	532/900	AIOU
Women guard		1991-92		

## COMPUTER SKILLS:

I have in depth knowledge of following tools and products

- Microsoft Excel.
- Microsoft Word.
- Microsoft Power point.
- Microsoft Front page.

## LANGUAGE SKILLS:

- English
- Urdu
- Punjabi

## Research interests

Biochemistry, Molecular Biology, Cell Biology, Plant Biotechnology, Physiology, Genetics, Plant Tissue Culture, Organic Chemistry, Plant Ecology, Pathology, Plant Embryology, Plant Molecular techniques, Water relations of Plants, Cell Structure and Function

## Research title:

<b>PhD Thesis.</b>	Effect of citric acid and EDTA to enhance phytoremediation of Nickle by canola ( <i>Brassica napus.L</i> ).
<b>M.Phil Thesis</b>	Effect of salinity on growth, nodulation and nitrogen content of cowpea.
<b>M.Sc Thesis</b>	Response of wheat to water stress applied at different stages of growth.

## Research Supervised/Co-Supervised:

Sr.#	Name	Registration Number	Role	Thesis Title
1	Faiza Rahmat	18-UE-02792	Supervisor	Screening of different lines of mung bean under salt stress
2	Aqsa Akhtar	18-UE-02818	Supervisor	Effect of sewage water on morpho-physiological attributes of spinach ( <i>Spinacia oleracea</i> L.)
3	Obaid Ur Rahman	18-UE-02875	Supervisor	Effect of cadmium (Cd) stress on different varieties of mung bean
4	Mushaf Ashiq	18-UE-03512	Supervisor	Screening of different varieties of Brassica under salt stress
5	Muhammad Ahmar	18-UE-03250	Supervisor	Effect of salt stress on morpho-physiological and biochemical attributes of <i>Brassica campestris</i>
6.	Maryam Saleem	msf2204483	Supervisor	Green Synthesis and Biological Activity of Silver Nanoparticles by Using Pineapple ( <i>Ananas comosus</i> ) and Papaya ( <i>Carica papaya</i> ) Fruit Peel Extract
7.	Mushaf Ashiq	msf2204460	Supervisor	Citric acid Assisted Phytoremediation of Cadmium (Cd) by Sunflower ( <i>Helianthus annuus</i> L.)

8.	Shafaq Fatima	msf2204482	Supervisor	Effect of Bio, Chemical and Organic Fertilizers on Growth and Yield of Garlic ( <i>Allium sativum L.l</i> )
9.	Ammara Amjad	msf2204461	Supervisor	Green Synthesis and Biological Activity of Cooper Nanoparticles by using aqueous extracts of coriander ( <i>Coriandrum sativum</i> ) and Peppermint ( <i>Mentha piperita</i> )
10.	Muhammad Husnain Asim	msf2204476	Supervisor	Toxic Effects of Cadmium on Morpho-Physiological Attributes of Garlic ( <i>Allium sativum L.</i> )
11.	Muhammad Samiullah	msf2204462	Supervisor	The Alleviation of Cadmium (Cd) Toxicity in Ollseed Rape ( <i>Brossica napus L.</i> )by the Foliar Application of Zinc
12.	Iqra Aslam	21-UE-04886	Co-Supervisor	Effect of Selenium Nanoparticles on Physio-Biochemical attributes of Lemon ( <i>Citrus limon</i> ) seedling under Salinity Stress
13.	Anees Manzoor	21-UE-04573	Co-Supervisor	Influence of Selenium Nanoparticle on the Physiochemical profiling of Maiza ( <i>Zea mays L.</i> )seedlings under Salinity stress
14.	Muhamma Abu Bakar	21-UE-04936	Co-Supervisor	Effect of Sewege Waste water on some selected Vegetables Collected from

				different locations of Faisalabad
15.	Naeem Ahmed	21-UE-04983	Co-Supervisor	Structural and functional adaptations in Bermuda grass ( <i>Cynodon dactylon</i> L.) collected from different locations of Faisalabad
16.	Sania Gilani	21-UE-04605	Co-Supervisor	Morphophysiological adaptations in chickpea ( <i>Cicer arietinum</i> L.) under salt stress
17.	Muhammad Zeeshan	21-UE-04833	Co-Supervisor	Assessment of seed priming with Gibberellic Acid on performance of chickpea ( <i>Cicer arietinum</i> L.) under drought stress
18.	Humaira Ejaz	msf2204465	Co-Supervisor	Mitigation of Lead (Pb) Toxicity in Rice ( <i>Oryza sativa</i> L.) through Vermicompost Application
19.	Awais Manzoor	F22MS020863	Co-Supervisor	Effect of Seed Priming with Gibberellic Acid on the Growth and PhysioBiochemical Attributes of Maize ( <i>Zea mays</i> L.) under Salt Stress
20.	Enza Khalid	msf2204484	Co-Supervisor	Effect of Ultrasonic Treatment Duration on Seed Germination and Morphophysiological Attributes of Maize ( <i>Zea mays</i> L.)

21.	Obaid Ur Rahman	msf2204457	Co-Supervisor	Effect of Tea Waste on Physiological and Biochemical Attributes of Wheat ( <i>Triticum aestivum</i> L.) under Salt Stress
22.	Muhammad Faizan	msf2204458	Co-Supervisor	Influence of Press Mud on the Growth and Physiology of Canola ( <i>Brassica napus</i> L./ under Salinity Stress
23.	Muhammad Usman Ikram	msf2204478	Co-Supervisor	Accumulation of Heavy Metals in Vegetables Grown In Wastewater Irrigated Areas of Bahawalnagar, Punjab, Pakistan
24.	Pervez Hussain	msf2204474	Co-Supervisor	EDTA Assisted Phytoremediation of Lead (Pb) by Using Canola ( <i>Brassica napus</i> L.)
25	Maira Khadam	msf23005300	Co-Supervisor	Effect of Pseudomonas on Physiological and Biochemical Attributes of Canola ( <i>Brassica napus</i> L.) under Cadmium Stress
26	Mohammad Aqib Asgher	msf23005296	Co-Supervisor	Alleviating the toxic effect of salinity stress on Maize ( <i>Zea mays</i> L.) by Pseudomonas Applications.
27	Ayesha Ashraf	msf23005306	Co-Supervisor	Exogenous Application of Thiourea to Improve Drought Stress Tolerance in Maize ( <i>Zea mays</i> L.)



28	Amna Shafaqat	msf23005307	Co-Supervisor	Efficacy of Biochar to Reduce phytotoxic effect of Industrial Waste Water on Maize ( <i>Zea mays</i> L.)
29	Mohammad Shahid	msf23005294	Supervisor	Synergistic effect of Pseudomonas and silver nanoparticles for mitigate cadmium toxicity in wheat ( <i>Triticum aestivum</i> L.)
30	Mohammad Umer Ayaz	msf23005297	Supervisor	Exploring the potential of iron oxide nanoparticles for mitigating lead chloride-induced oxidative stress in wheat( <i>Triticum aestivum</i> L.)
31	Humna Faryad	msf23005295	Supervisor	Enhancing Drought Tolerance in wheat ( <i>Triticum aestivum</i> L.) seedlings through Potassium Application.
32	Mohammad Bilal	msf23005312	Supervisor	Anatomical and physiological responses of canola ( <i>Brassica napus</i> L.) to sulfur application under salinity stress
33	Sehar Maqsood	msf23005310	Supervisor	Evaluating the role of zinc application on the growth and yield of wheat ( <i>Triticum aestivum</i> L.) under Drought Stress

## PUBLICATIONS

### 2025

- Noor, F., Nawaz, H., Khan, A., Shani, M. Y., Azmat, M., Abbas, S. M., ... & Coccozza, C. (2025). Effect of foliar application of potassium on wheat tolerance to salt stress. *Plos one*, 20(11), e0336407.
- Ameer, A., Nawaz, H., Abbas, S., Nazar, S., Khan, A., Minghzou, Q., ... & Mukhtiar, A. (2025). Impacts of Ellagic Acid and Hydrogen Peroxide on Wheat (*Triticum aestivum*) Physiological Attributes Under Saline Stress: A Seed Priming Approach. *Journal of Agronomy and Crop Science*, 211(3), e70074.

### 2024

- Nawaz, H., Ahmad, K. S., Aslam, I., Mahmood, A., Mehmood, A., Khan, A., ... & Hussain, S. (2024). Modulations in Physiological and Biochemical attributes of Citrus Limon by selenium nanoparticles (SeNPs) under salinity stress. *Biocatalysis and Agricultural Biotechnology*, 62, 103438.
- Sultan AB, Nawaz H, Saleem F, Nawaz S, Danial M, Iftikhar R, Maqsood U, Areej A, Shakoor S, Aljarba NH, Maqbool R, Rizwan M and Serfraz S (2024) Divergent evolution of *NLR* genes in the genus *Glycine*: impacts of annuals and perennials' life history strategies. *Front. Plant Sci.* 15:1383135. doi: 10.3389/fpls.2024.1383135

### 2023

- Shani, M.Y., Ahmed, S.R., Ashraf, M.Y., Khan, Z., Coccozza, C., De Mastro, F., Gul, N., Pervaiz, S., Abbas, S., Nawaz, H. and Brunetti, G., 2023. Nano-Biochar Suspension Mediated Alterations in Yield and Juice Quality of Kinnow (*Citrus reticulata* L.). *Horticulturae*, 9(5), p.521.
- Nawaz, H., Asghar, N., Ali, A., Ameer, A., Shehzad, M.A., Nawaz, F., Mehmood, A., Iqbal, M.S., Iqbal, U., Kaleem, M. and Khan, A., 2023. Optimization of Citric Acid and EDTA Levels Under Ni Stress Using

Rapeseed *Brassica napus* L. for Phytoremediation. *Water, Air, & Soil Pollution*, 234(4), p.244.

- Nawaz, H., Khan, A., Ali, A. and Ameer, A., 2023. Screening of canola (*Brassica napus* L.) cultivars for nickel stress tolerance. *International Journal of Applied and Experimental Biology*, 2(2), pp.125-131.
- Anwar, T., Qureshi, H., Parveen, N., Mahmood, S., Haider, M.Z., Mumtaz, S., Nawaz, H., Khan, S.A., Hafeez, A., Tipu, M.I. and Abd El-Rahim, I.H., 2023. Herbicidal effectiveness of wild poisonous plant *Rhazya stricta* using different media by the sandwich method. *Pak. J. Bot*, 55(2), pp.749-754.
- Areej, A., Nawaz, H., Aslam, I., Danial, M., Qayyum, Z., Rasool, U.A., Asif, J., Khalid, A., Serfraz, S., Saleem, F. and Mubin, M., 2023. Investigation of NLR genes reveals divergent evolution on NLRome in diploid and polyploid species in genus *trifolium*. *Genes*, 14(4), p.867.
- Deng, H., Li, Y., Ashraf, U., Gui, R., Wang, Z., Nawaz, H., Tang, X., Duan, M. and Mo, Z., 2023. The Application of Liquid Fertilizer with Reduced Nitrogen Rate Improves the Lodging Resistance in Fragrant Rice. *Journal of Soil Science and Plant Nutrition*, pp.1-17.
- Anwar, T., Qureshi, H., Parveen, N., Mahmood, S., Haider, M.Z., Mumtaz, S., Nawaz, H., Khan, S.A., Hafeez, A., Tipu, M.I. and Abd El-Rahim, I.H., 2023. Herbicidal effectiveness of wild poisonous plant *Rhazya stricta* using different media by the sandwich method. *Pak. J. Bot*, 55(2), pp.749-754.

## 2022

- Chen, F., Ma, J., Akhtar, S., Khan, Z.I., Ahmad, K., Ashfaq, A., Nawaz, H. and Nadeem, M., 2022. Assessment of chromium toxicity and potential health implications of agriculturally diversely irrigated food crops in the semi-arid regions of South Asia. *Agricultural Water Management*, 272, p.107833.
- Nawaz, H., Ali, A., Saleem, M.H., Ameer, A., Hafeez, A., Alharbi, K., Ezzat, A., Khan, A., Jamil, M. and Farid, G., 2022. Comparative effectiveness of EDTA and citric acid assisted phytoremediation of Ni contaminated soil by using canola (*Brassica napus*). *Brazilian Journal of Biology*, 82, p.e261785.

- 11. Asma Aslam , Hummera Nawaz , Ameer Khana, Rabia Ghaffar and Ghulam Abbas .2022. Effect of exogenous application of citric acid on growth of maize (Zea mays L.) under sodium fluoride stress. FLUORIDE.

## 2020

- Khan, A., Nawaz, M., Lang, I., Ashraf, M. Y., Ul-Allah, S., Nawaz, H., ... & Hussain, M. (2020). Modulation of Growth and Physicochemical Assays in Salt Stressed Rice by Application of Potassium and Salicylic Acid. International Journal of Environmental Sciences & Natural Resources, 23(4), 139-153.

## 2018

- Humera Nawaz, Stephan Manhalter, Aamir Ali, Muhammad Yasin Ashraf and Ingeborg Lang. 2018. Ni tolerance and its distinguished amelioration by chelating agents is reflected in root radius of B. napus cultivars. Protoplasma <https://doi.org/10.1007/s00709-018-1287-0>

## 2017

- Ameer Khan, Sonaina Nazar, Ingeborg Lang, Humera Nawaz & Muhammad Ajaz Hussain 2017. Effect of ellagic acid on growth and physiology of canola (Brassica napus L.) under saline conditions. Journal of Plant Interactions. DOI: 10.1080/17429145.2017.1400122

## 2014

- Ameer Khan, Iram Iqbal, Sadaf Javed , Amin Shah, Humera Nawaz and Maria Nawaz. 2014. Role of proline in improving growth and physiological attributes of sunflower (Helianthus annuus L.) subjected to salt stress. Sci., Tech. and Dev. 2014
- . Ameer Khan, Sadaf Javaid, Iftikhar Ahmad, Zafar Iqbal Khan, Amin Shah, Irfan Mustafa, Maria Nawaz, Farzana Shaheen, Humera Nawaz, and Asim Shaheen, 2014. Influence of foliar application of triacontanol on maize (Zea mays L.) under saline conditions. Jokull journal. Vol 64, No. 7; Jul 2014

- Ameer Khan, Sadaf Javaid, Maria Nawaz, Farzana Shaheen, Irfan Mustafa, Iftikhar Ahmad and Humera Nawaz. **2014**. Heavy Metals Assessment in Vegetables Irrigated with Wastewater: 2014. A Case Study in District Sargodha, Pakistan. British Journal of Applied Science & Technology. 4(20).

## 2013

- Ameer Khan, Iftikhar Ahmad, Amin Shah, Abdul Ghani, Farooq Ahmad, Maria Nawaz, Farzana Shaheen, Arooj Fatima, Faiza, Sadaf Javed, Fatima Hayat, Humera Nawaz and Rabia Zubair. **2013**. Amelioration of adverse effects of salt stress in wheat (*Triticum aestivum* L.) by application of phosphorus as a foliar spray. Journal of Phyton. , YTON 82 .

## 2012

- Ameer Khan, Ingeborge Lang, Muhammad Amjid, M. Ashraf, Humera Nawaz, Iftikhar Ahmad and Amin Shah. **2012**. Inducing salt tolerance on growth and yield of sunflower (*Helianthus annuus* L.) by applying different levels of ascorbic acid. Journal of Plant Nutrition. 36:1.
- Ameer Khan, Iftikhar Ahmed, Ingeborge Lang, Farooq Ahmed, Abdul Ghani, Amin Shah, M. Ashraf, Humera Nawaz and Saima Tufail. **2012**. Physiological and biochemical 5 changes produced in maize (*Zea mays* L.) by the application of nickel. Journal of medicinal plant research. Vol. 6(7), pp. 1340-1343,

## 2010

- Ameer Khan, Iram Iqbal, Amin Shah, Humera Nawaz, Farooq Ahmad and M. **Ibrahim** **2010**. Alleviation of Adverse Effects of Salt Stress in Brassica (*Brassica campestris*) by Pre-Sowing Seed Treatment with Ascorbic Acid. American-Eurasian J. Agric. & Environ. Sci., 7 (5): 557-560, 2010.

## Book chapter published by International Publishers

- Abid, H., Ahmed, K. S., Mehmood, A., Khan, M. F., Hussain, S., & Nawaz, H. (2026). **Nanoparticles in plant sciences: Types, synthesis, and applications**. In J.-T. Chen (Ed.), *Nano-Delivering for Plant Genetic*

*Engineering* (pp. 187–201). Springer Singapore.

<https://doi.org/10.1007/978-981-95-4165-2>

- Wazir, N., Nawaz, H., Mammadov, E., Zaidalkilani, A. T., & AL-Farga, A. Therapeutic Insights into the Anti-Inflammatory Properties of *Ocimum basilicum*, *Rosmarinus officinalis* and *Cymbopogon citratus* Essential Oils. *Medicinal Plants and Aromatics: A Holistic Health Perspective*, 47.
- Prakash, Channa S., Sajid Fiaz, Muhammad Azhar Nadeem, Faheem Shehzad Baloch, and Abdul Qayyum, eds. *Sustainable Agriculture in the Era of the OMICs Revolution*. Springer International Publishing, 2023.
- Khan A, Hussain MA, Nawaz H, Muhammad G, Lang I, Ashraf U. Physiological Interventions of Antioxidants in Crop Plants Under Multiple Abiotic Stresses. In *Sustainable Agriculture in the Era of the OMICs Revolution 2023 Jan 1* (pp. 431-471). Cham: Springer International Publishing.
- Chauhan, Nar Singh, and Sarvajeet Singh Gill, eds. *The Impact of Nanoparticles on Agriculture and Soil*. Elsevier, 2023.

## **Resource Presentation & Trainings / Workshops Attended**

- Attended 14th training course on “*sustainable & integrated management of insect pest and disease on crops*” from NIAB Faisalabad from October 29, 2025
- Attended 13th training course on “*Modern technique in research on abiotic stress tolerance in plant*” from NIAB Faisalabad from February 13-16, 2024
- Attended 12th training course on “*Modern technique in research on abiotic stress tolerance in plant*” from NIAB Faisalabad from July 18-21, 2023
- Attended international training on agricultural science and technology personal innovation personal ability enhancement China (online) from January 23-28, 2023
- Attended course on “*Diagnosis of viral diseases*” from NIAB Faisalabad from December 5-7, 2023

## **Conferences/Seminars/ Symposium Attended**

- Oral presentation in the 3rd international conference on recent approaches in plant sciences (RAPS-2025) on November 12,13 2025
- Oral presentation in the 4th international conference (hybrid) on recent trends in natural science (RTNS-2025) on April 22-23, 2025
- Oral presentation in the 3rd international conference (hybrid) on recent trends in natural science (RTNS-2024)
- Oral presentation in Two-Day International Symposium on “Medicinal Plants and Natural Product (ISMPNP-2024).”
- Oral presentation in the 2<sup>nd</sup> International Conference on Recent Approaches in Plant Sciences (RAPS-2023)
- Oral presentation in the 2<sup>nd</sup> international conference (hybrid) on recent trends in natural science (RTNS-2023)
- Oral presentation in the 1<sup>st</sup> international conference (hybrid) on recent trends in natural science (RTNS-2022)
- Oral presentation in the 1<sup>st</sup> international conference on recent approaches in plant sciences (RAPS-2022)
- Oral presentation in an international conference (hybrid) on water and plants: overview of allied factors and strategies worldwide, 2022

### **Conferences/Seminars/ Symposium Organized**

- Organizer; One-Day Seminar on climate change and food security held on February 13, 2025; University of Education, Lahore, Faisalabad-Campus, Pakistan
- Organizer; plantation campaign held on March 20, 2025; University of Education, Lahore, Faisalabad-Campus, Pakistan.
- Organizer; Pink Ribbon Day held on November 10.10.2025; University of Education, Lahore, Faisalabad-Campus, Pakistan.

- Organizer; One-Day Seminar on “Drug Abuse and its impact on student life and social circles” held on April 24, 2025; University of Education, Lahore, Faisalabad-Campus, Pakistan
- Secretary; One-Day Seminar on “International Earth Day” held on May 08, 2025; University of Education, Lahore, Faisalabad-Campus, Pakistan.
- Secretary; One-Day Seminar on “World Soil Day” held on December 05, 2024; University of Education, Lahore, Faisalabad-Campus, Pakistan.
- Organizer; One-Day Seminar on “Drug Awareness” held on February 15<sup>th</sup>,2024 ; University of Education, Lahore, Faisalabad-Campus, Pakistan
- Co-Organizer; One-Day Workshop on “Organic Kitchen Gardening” held on November 14<sup>th</sup>,2023; University of Education, Lahore, Faisalabad-Campus, Pakistan.
- Organizer; Breast Cancer Awareness Campaign held on November 02<sup>nd</sup>,2023; University of Education, Lahore, Faisalabad-Campus, Pakistan.
- Organizer; One-Day Seminar on “World Diversity Day” held on May 18<sup>th</sup>,2023 ; University of Education, Lahore, Faisalabad-Campus, Pakistan.
- Organizer; One-Day Seminar on “Scientific Writing and Research Skill in Plant Sciences” held on March 9<sup>th</sup>,2023; University of Education, Lahore, Faisalabad-Campus, Pakistan.
- Organizer; One-Day Workshop on “Advanced Techniques for Development of Nursery in Botanical Garden” held on Feb 8<sup>th</sup>,2023 ; University of Education, Lahore, Faisalabad-Campus, Pakistan.
- Coordinator; Awareness Seminar on Pink Ribbon, Prevention and Control of Cancer 202



- Organizer; One-Day International Conference on “Saline Agriculture for Food Security” held on June 23<sup>rd</sup>,2022 ; University of Education, Lahore, Faisalabad-Campus, Pakistan.
- Organizer; 1<sup>st</sup> International Conference on “Recent Approach in Plant Sciences (RASP-2022)” held on March 30-31,2022; University of Education, Lahore, Faisalabad-Campus, Pakistan.
- Organizer; Two-Day International Conference on “Innovation in Chemistry and Physics (ICP-2022)” held on March 14-15<sup>th</sup>,2022; University of Education, Lahore, Faisalabad-Campus, Pakistan.
- Chief Organizer, One-Day Seminar on World Environment Day 2022 held on June16<sup>th</sup>,2022, University of Education, Lahore, Faisalabad-Campus, Pakistan.
- Organizer, One-Day Workshop on “Establishment of Plant Nursery and Floriculture in Botanical Garden” held on February 23<sup>rd</sup>,2022; University of Education, Lahore, Faisalabad-Campus, Pakistan.

**(i) Coordinator/In-charge/Convener of Committees**

1. **Convener**, Committee constituted for Intra-Campus Annual Sports Gala, March 2022, (Table Tennis Category) for female students, University of Education, Faisalabad Campus.
2. **Convener**, Committee constituted for Intra-Campus Annual Sports Gala, March 2023, (Table Tennis Category) for female students, University of Education, Faisalabad Campus.
3. **Convener**, Committee constituted for Intra-Campus Annual Sports Gala, March 2024 (Badminton Category) for female students, University of Education, Faisalabad Campus.
4. **Convener, Departmental Sports** Committee for Girls, Notification no. UEFC/2024/Bot/230 dated February 26, 2024

5. **Convener, Smog Awareness Committee,** Notification no. UEFC/2024/Bot/230 dated 6<sup>th</sup> November, 2025
6. **Convener, Departmental Sports Committee for Girls' Badminton,** Notification no. UEFC/2024/Bot/230 dated February 26, 2024

**(ii) Secretary/Member of Committee**

1. **Member,** Committee constituted for PhD interview for the admission Fall, University of Education, Faisalabad Campus vide notification No.UEFC/A&R/2025/1042 dated 30.06, 2025
2. **Member,** Judges/Evaluation Committee regarding Jashne Baharaon 2025, University of Education, Faisalabad Campus vide notification No.UEFC/2025/841 dated 24/02/2025
3. **Member,** Registration Committee in the 3rd international conference on recent approaches in plant sciences (RAPS-2025) on November 12,13 2025, University of Education, Faisalabad Campus vide notification No.UE/2025/3134 dated August 29, 2025
4. **Member,** Committee constituted for Drug and Abuse in Higher Educational Institutions, University of Education, Faisalabad Campus vide notification No.UE/AD-II/2022/95, dated December 16, 2022
5. **Program Team Member,** for preparation of Self-Assessment Report (SAR) 2022-23 for BS Botany Program, University of Education, Faisalabad, Campus vide notification No.,

6. **Program Team Member**, for preparation of Self-Assessment Report (SAR) 2023-24 for MS Botany Program, University of Education, Faisalabad, Campus vide notification No. UE/R/2024/415, dated February 1, 2024.
7. **Member**, Committee constituted for the Adoption of HEC Policy Drug and Tobacco Abuse in Higher Educational Institutions, University of Education, Faisalabad Campus vide notification No.UE/R/2023/2706, dated October 13,2023
8. **Member**, Committee constituted for Approval of Thesis Title/ Supervision of BS Botany Session 2018-22, University of Education, Faisalabad Campus vide notification No.UEFC/2022/8, dated July19,2022
9. **Member**, Committee constituted for Establishment of Botanical Garden, University of Education, Faisalabad Campus vide notification No.UEFC/2020/2350, dated October 21,2020
10. **Member**, Committee constituted for Establishment of Green House and Nursery in Botanical Garden, University of Education, Faisalabad Campus vide notification No.UEFC/2021/1472, dated March 2,2022
11. **Member**, Discipline Committee constituted for Prize Distribution Ceremony of Annual Sports Gala 2022, University of Education, Faisalabad Campus vide notification No.UEFC/2022/369, dated April 7,2022.
- 12.**Member**, **Admission Committee**
13. **Member**, Purchase Committee, University of Education, Faisalabad Campus vide notification No.UEFC/2023/1181, dated February 23,2023
14. **Member**,Discipline Committee constituted for Annual Prize Distribution, University of Education, Faisalabad Campus vide notification No.UEFC/2023/1240, dated March 15,2023

- 15. Member,** Tender Committee constituted for Purchase of Lab Apparatus and Accessories, University of Education, Faisalabad Campus vide notification No.UEFC/2023/1249, dated March 31,2023
- 16. Member,** Committee constituted for Interview/Selection of the Visiting Faculty for the Semester Fall 2023, University of Education, Faisalabad Campus vide notification No.UEFC/2023/1654, **dated**
- 17. Member,** Committee constituted for , University of Education, Faisalabad Campus vide notification No.UEFC/202, dated
- 18.Co-Advisor,**Student Societies, , University of Education, Faisalabad Campus vide notification No.UER/2023/1960, dated September 15,2023
- 19.Member,** Committee for Annual Prize Distribution constituted for , University of Education, Faisalabad Campus vide notification No.UEFC/2024/199, dated May 3,2024
- 20.Member,** Committee for Degree Distribution constituted for , University of Education, Faisalabad Campus vide notification No.UEFC/Admin/2024/56, dated January 30,2024
- 21.Member,** Admission Committee for Fall 2024 , University of Education, Faisalabad Campus vide notification No.UEFC/A&R/2024/196, dated April 30,2024
- 22.Member,** Refreshment Committee for Students for Annual Sports Gala 2024, University of Education, Faisalabad Campus vide notification **No.UEFC/2024/,  
dated**
- 23.Member,** Committee for Supervisor Allocation of MS Botany Student Session 2021-23, University of Education, Faisalabad Campus vide notification No.UEFC/BOTN/361, dated March 16,2022

- 24.Member,** Committee for Spring Tree Plantation Campaign, University of Education, Faisalabad Campus vide notification No.UEFC/BOTN/361, dated March 16,2022
- 25.Incharge,** Student Affairs Department of Botany, University of Education, Faisalabad Campus vide notification No.UEFC/BOTN/385, dated March 18,2022
- 26.Incharge,** Collection of Marked Answer Sheets and Award List, Department of Botany, University of Education, Faisalabad Campus vide notification No.UEFC/BOTN/2022/719, dated June 21, 2022
- 27.Incharge,** Timetable for Fall 2022, Department of Botany, University of Education, Faisalabad Campus vide notification No.UEFC/BOTN/2022/41, dated September 19, 2022
- 28.Member,** Tree Plantation Campaign 2023, Department of Botany, University of Education, Faisalabad Campus vide notification No.UEFC/BOTN/353, dated March 10, 2023
- 29.Member,** One-Day Workshop for Advanced Technique for Development of Plant Nursery in Botanical Garden, Department of Botany, University of Education, Faisalabad Campus vide notification No.UEFC/2023/1113, dated February 7, 2023
- 30.Member,** Departmental Sport Committee for Boys to participate in Annual Sports Gala 2024, Department of Botany, University of Education, Faisalabad Campus vide notification No.UEFC/2024/BOTN/229, dated February 26, 2024
- 31.Member,** Committee for Annual Spring Festival and Flower Exhibition, Department of Botany, University of Education, Faisalabad Campus vide notification No.UEFC/2024/BOTN/235, dated March 01, 2024
- 32.Member;** Pink Ribbon Day held on November 10.10.2025;; University of Education, Lahore, Faisalabad-Campus, Pakistan.

## Reviewer for the National/International Journals

Sr. no	Manuscript ID	Title	journal	Date
1.	MS-23-05	Floristic Composition of Ingenuous Vegetations of Namal Valley, Mianwali, Punjab, Pakistan	SABRAO Journal of Breeding and Genetics (ISSN:1029-7073)	February 4, 2023
2,	PONE-D-22-15992R1	Phenotyping for Circumferential Expansion of Field Paddy-wheat Root System Architecture	PLOS ONE	November 2,2022
3.	MS-95190v1	Characteristics of soil heavy metal pollution and health risks in Chenzhou City	PeerJ	February 24,2024
4.	MS 13636	Heat Stress Responses and Mitigation Strategies in Wheat	NBHA (Notulae Botanicae Horti Agrobotanici Cluj-Napoca.)	February 12,2024
5.	MS 13855	Chilling and Drought Stresses in Maize: Mitigation Strategies and Potential Management Opportunities	NBHA (Notulae Botanicae Horti Agrobotanici Cluj-Napoca.)	April 29,2024
6.	MS 13584	Synergic Effect of Sulfur and Nitrogen on Morpho-Physiological and Biochemical Traits of Sunflower	NBHA (Notulae Botanicae Horti Agrobotanici Cluj-Napoca.)	February 6, 2024
7	1576058	Agro-Meteorological Services in the Era of Climate Research Trends, Knowledge Gaps, and Global Collaboration"	Frontiers	4/18/25
8	1624071	"Treasure Lying Beneath the Waters: Exploring the Economy"	Frontiers	6/15/25
9		"Novel Approaches to Overcome Antibiotic Resistance: Phage Therapy in Animal Biology	Letters In Animal Biology	5/29/25,
10	1554433	Perspectives of Youth on Climate Crisis Awareness Factors: An Assessment of Pakistan's Human and Economic Security Profile	Frontiers	4/28/25
11	1558700	Rethinking 2S/LGBTQI+ food security with co-design: a study protocol	Frontiers	1/21/26,

## Evaluation of Research Work (External Examiner)

Sr.#	Name	Registration/Roll No.	University Name
1	Asma Bashir	2020-ag-994	University of Agriculture Faisalabad
2	Zunaira Ahmed	2020-ag-920	University of Agriculture Faisalabad
3	Sumia Ameer	2020-ag-935	University of Agriculture Faisalabad
4	Riaz Khan	2020-ag-1686	University of Agriculture Faisalabad
5	Muhammad Sajjad	18-UE-05500	University of Education, D.G Khan Campus
6	Romaisa Hareem	18-UE-05283	University of Education, D.G Khan Campus
7	Rabia Altaf	bsf1901279	University of Education, Bank Road Campus,Lahore
8	Noor Fatima	Bsf1901380	University of Education, Bank Road Campus,Lahore
9	Hafiz Saeed Ahmed	2021-ag-1297	University of Agriculture Faisalabad
10	Abdul Jabbar	2021-ag-2430	University of Agriculture Faisalabad
11	Tahreem Arshad	2019-ag-3218	University of Agriculture Faisalabad
12	Sabiha Abbas	SU/CE/Secrecy/53	
13	Aimen Asif Iqbal	bsf2001565	University of Education, Bank Road Campus,Lahore
14	Ayesha Ikram	bsf2001562	University of Education, Bank Road Campus,Lahore
15	Tayyaba Nasir	bsf2001430	University of Education, Bank Road Campus,Lahore
16	Samreen	bsf2001596	University of Education, Bank Road Campus,Lahore
17	(2025) Qurat ul Ain	SU/BOT/290	University of Sargodha
18	Mr.Mohammad Usman	2019-ag-5866	University of Agriculture Faisalabad
19	Miss Faiza Batool	2022-ag-3049	University of University of SargodhaAgriculture Faisalabad
20	Miss Anum Akbar	2022-ag-3051	University of Agriculture Faisalabad
21	Miss RidaYaseen	2022-ag-3055	University of Agriculture Faisalabad
22	Miss Sumaira Farooq	2022-ag-3047	University of Agriculture Faisalabad
23	Miss Marwah saif	2019-ag-5780	University of Agriculture Faisalabad
24	Mr.Muhammad Anwar ul Hassan	SU/CE/Secrecy/859	University of Sargodha
25	Miss Alyiha	2023-ag-1676	University of Agriculture Faisalabad

	Azmat		
26	Miss Izza Suhail	2017-ag-5275	University of Agriculture Faisalabad
27	Miss Maria Maham	2023-ag-1670	University of Agriculture Faisalabad



