

Faculty Resume

Name	AYESHA ROOHI					
Personal	Domicile (Distt:/Provin:)	Lahore/Punjab				
	Nationality:	Pakistani				
	Marital Status:	Married				
	Corresponding Address:	Lahore, Pakistan				
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	Academic Record:					
	Examination	Board/ University	Year	Marks Obtained	Division	Subjects
	Ph.D (Ongoing)	School of Chemistry, University of the Punjab, Lahore	-	-	-	Organic Chemistry
	M.Phil	Institute of Chemistry, University of the Punjab, Lahore.	2007	828/1200	FIRST	Chemistry
M.Sc.	Institute of Chemistry, University of the Punjab, Lahore.	2004	896/1200	FIRST	Chemistry	
B.Sc.	Queen Mary College, Lahore.	2002	566/800	FIRST	Chemistry Zoology, Botany	
F.Sc	Board Of Intermediate And Secondary Education, Lahore	2000	763/1100	FIRST	Chemistry Biology, Physics	
Matric	Board Of Intermediate And Secondary Education, Lahore	1997	676/850	FIRST	Chemistry Biology, Physics, Mathematics	
Experience	2009-Till date Working as a Lecturer at Kinnaird College for Women, Lahore.					

	<p>2008 -09 Worked as a Lecturer at Queen Mary College, Lahore.</p> <p>2007-08 Worked as a Research Scholar in the Institute Of Chemistry, University of the Punjab, Lahore.</p>
Honors And Awards	<ul style="list-style-type: none"> • Punjab University's Merit Scholarship on the basis of M. Phil.Term-1 marks, 2006. • Punjab University's Merit Scholarship on the basis of M. Sc. marks, 2005. • Chief Minister's Merit Scholarship on obtaining 4th position in M. Sc. Part 1, 2005. • Governor's Merit Scholarship on the basis of B. Sc. marks, 2003. • Merit Certificate on Obtaining 4th position in M. Sc. Chemistry, University of the Punjab, LHR, 2005. • Roll of Honour on securing more than 70 % marks in B. Sc. in 19th Convocation of Queen Mary College, Lahore held in 2005. • Talent Award, University of the Punjab, LHR, 2003. • Stood First in Chemistry, Zoology, Botany combination in B. Sc. at Queen Mary College, LHR, 2002.
Workshops/ Conferences/ Seminars/ Webinars	<ul style="list-style-type: none"> • Webinar entitled, "Introducing...ScienceDirect AI" by Elsevier. 26th March, 2025. • Prime Minister's Green Youth Movement Club's Seminar, "From Vision to Action: How PMYP is Shaping Youth Development" Kinnaird College for Women, Lahore. 24th February, 2025 • Seminar entitled "Decoding Life: from Linnaeus to Habert. Kinnaird College for Women, Lahore. 19th February 2025 • Seminar entitled "Iridium Catalyzed Aromatic C-H Activation-Borylation" Kinnaird College for Women, Lahore. 18th February 2025 • Conference entitled, "3rd International Conference on Science, Technology & Innovation" Kinnaird College for Women, Lahore.18th –

	<p>20th February 2025</p> <ul style="list-style-type: none"> • Conference entitled, “4th International Conference on Chemical and Pharmaceutical Science: Innovation to Commercialization. FCCU. 22-24th January, 2025 • KC-ScienceFest-1’25, Kinnaird College for Women, Lahore, 21st January 2025 • Seminar entitled “Smog; An Environmental Threat” Kinnaird College for Women, Lahore. Guest Speaker: Prof. Dr. Jamil Anwar Ch. 14th November, 2024 • Online Conference entitled, “3rd International Conference on Trends and Research In Chemistry”. University of Education, Lahore. 6-7th November, 2024 • Workshop entitled, “Advanced Characterization Techniques in Nanotechnology”. Department of Plant Pathology, University of the Punjab, Lahore. 23-24th October, 2024 • Training on "Outcomes Based Education (OBE)" organized by QAIE (Office of Quality Assurance & Institutional Effectiveness), Resource person: Dr. Naveed Ahmad. 17th August, 2024 • Workshop entitled, “the role of arts and sciences in preparing Women for entrepreneurship and financial security”. Kinnaird College for Women Lahore. 6th June, 2024 • Turnitin: Instructor training Session 23rd May, 2024 11:30 am • Seminar entitled “Navigating the Professional Landscape” Kinnaird College for Women, 07th May 2024 • Conference entitled “International Conference on Material Chemistry and Industrial Technologies (MCIT)”. University of Lahore, 24-25th April, 2024 • Workshop entitled, “Organizing References and Citations with Mendeley Software” Kinnaird college for Women, Lahore. 22nd November, 2023
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	<ul style="list-style-type: none"> • Webinar entitled, “Navigating the pathways of publishing in High-quality journals by using scopus”. By Elsevier. Resource person: Dr. Vinita Saroha. 10th October, 2023 • Conference entitled, “4th International Conference on Chemistry ICC-2023”. Lahore Garrison University, Lahore. 20-21 March, 2023 • Conference entitled , “2nd International Conference on Science, Technology and Innovation”. Kinnaird College for Women, Lahore. 8th-10th March 2023 • Seminar Entitled, “Ionic Liquids As Designer Green Solvents and Their Widespread Applications”. Kinnaird College for Women, Lahore. 9th March, 2023. • Workshop Entitled, “Hands on Training on Basics of Computational Chemistry”. Kinnaird College for Women, Lahore. 12th November, 2022 • Seminar entitled, “Nanomaterials synthesis Protocol for heterogenous Catalyst” Organized by Department of Chemistry, Faculty of Science and Technology, University of Central Punjab, Lahore. 8th June, 2022 • Seminar entitled, “Application and Optimization of Reaction Parameters for Synthesis of Nanomaterials” Department of Chemistry, Kinnaird College for Women, Lahore. 30th May, 2022 • Conference entitled, “International Conference on Ionic Liquids for Sustainable Future” Organized by Centre for Research in Ionic Liquids (CRIL), School of Chemistry, University of the Punjab, Lahore, Pakistan. 10th March, 2022 • Workshop entitled by “ACD/ChemSketch Software” organized by Kinnaird college for women, Lahore. November 2021 • Seminar on “Molecular and Functional Nanomaterials, Department of Chemistry, Kinnaird College. November 2019 • Workshop on “Outcome Based Education and Embedded Assessments: Preparing Graduates for Practical Life Skills” QEC -Kinnaird College for Women, Lahore. December 2020
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	<ul style="list-style-type: none"> • 2nd international conference on Nanoscience and nanotechnology, Lahore University of Management Sciences (LUMS). November 2019 • Three day conference on Nano materials :New Trends In Development And Application, FCCU, Lahore January 2019 • Data Analysis using non parametric means conducted by Quality Enhancement Cell (QEC), Kinnaird College, August 2019 • International symposium on technologies and material for renewable energy, environment and sustainability, Department of chemistry University of Agriculture Faisalabad. February, 2019 • Three Days Kinnaird's 1st International Conference of Science, Technology and Innovation, Kinnaird college for women, Lahore, 2nd -4th April 2019 • Seminar entitled, "Toxicology Screenings in the Process of New Drug Development" held at Kinnaird College for women, Lahore. April 2019 • Advances in polymers materials and biochemistry, 2nd international conference on chemistry (ICC), Department Of Chemistry, Lahore Garrison University. April 2019 • Introductory STATA, QEC Kinnaird college for women, May 2019 • Hands-on Training Workshop on ACD/Chemsketch Software, Department of Chemistry, Kinnaird College for Women Lahore. November 2018 • Workshop entitled, "Citation in Research", held in KCW. February 2013. • Workshop entitled, "MATLAB software", held in KCW. February 2012. • Workshop entitled, "Cyber Literacy and Core Competencies", held in KCW. November 2012. • "18th National Chemistry Conference" Held in Institute Of Chemistry, University Of The Punjab, Lahore. Feb 25-27th 2008
Memberships	Member of Khawarzimi Science Society (Membership ID 1245)

Academic and Research Collaboration	Dr. Muhammad Imran Din, Associate Professor, School of Chemistry, University of the Punjab, Lahore.
Certification	ACP Trainer certified by British Council of Pakistan “Active Citizenship Training Workshop”, held by British Council at Kinnaird College for Women, Lahore. January 7-11, 2019
B.Sc. Honours Research Reports	<p style="text-align: center;">Title of Research Report</p> <p>2014 Synthesis And Biological Evalution Of Azomethines From Toluidines Under Various Conditions</p> <p>2015 Physicochemical Study Of Irrigation Water In Selected Areas Of North East Punjab</p> <p>2015 Spectroscopic Determination Of Essential And Non-Essential Elements In Agricultural Soil From Selected Areas Of North East Punjab</p> <p>2016 Chloromethylation Of Selected Derivatives Of Benzene”</p> <p>2016 Chloromethylation Of Selected Condensed Aromatic Rings Under Different Conditions</p> <p>2017 Determination Of Heavy Metals In Potato Chips And Nimko</p> <p>2017 Extraction and Antioxidant Evaluation Of Phytoconstituents From Seeds Of <i>Citrullus Colocynthis</i> Under Different Conditions</p> <p>2017 Extraction and Antioxidant Evaluation of phytoconstituents of Leaves of <i>Swertia Chirata</i></p>

	<p>2018 Antibacterial Evaluation And Determination Of Selected Heavy Metal Concentrations In Various Extracts Of <i>Swertia Chirata</i> And <i>Citrullus Colocynthis</i></p> <p>2018 Determination Of Heavy Metal Concentrations (Cd, Cr, Cu, Mn, Ni And Zn) In Selected Herbal Medicines By AAS Using HNO₃-H₂O₂ Digestion Method</p> <p>2018 Determination Of Heavy Metal Concentrations (Zn, Mn, Cu, Ni, Cd And Cr) In Selected Herbal Medicines By AAS Using HNO₃ Digestion Method</p> <p>2018 Phytochemical Screening And Determination of Free Radical Scavenging Potential Of Selected Commercial Samples of Herbal Medicines”</p> <p>2018 Detection and evaluation of Heavy metal Remnants in Meat, Feed, Water, Eggs and Claws of Chicken marketed in Selected areas of Punjab</p> <p>2019 Synthesis and characterization of Silver Nanoparticles using aqueous extracts of selected parts of <i>P. granatum</i></p> <p>2020 Study on the effect of change in pH, Temperature and Extraction time o the λ_{\max} of synthesized Silver nanoparticles using extracts of <i>Cinnamomum zeylanicum</i> and <i>Myristica fragrans</i></p> <p>2020 Qualitative and Quantitative Determination of Phytoconstituents in Various Extracts of <i>Withania somnifera</i> and <i>Ilex purpurea</i> and Their Potential in the Synthesis of Silver Nanoparticles</p> <p>2021 Phytochemical Screening, Green Synthesis and Antimicrobial evaluation of Silver Nanoparticles using <i>Cerica papaya</i> Fruit and Peel extract</p>
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	<p>2022 Honey Assisted Green Synthesis of Silver Nanoparticles and Determination of Their antimicrobial Potential against <i>S.aureus</i> and <i>E.coli</i></p> <p>2022 Determination of selected heavy metal concentrations in some herbs collected from local market of Lahore</p> <p>2023 Phytochemical screening and anti-oxidant potential of selected herbal medicines from local market of Lahore</p> <p>2024 Optimization of conditions for the removal of Methylene blue using synthesized nickel oxide nanoparticles</p> <p>2024 Synthesis and characterization of nickel oxide nanoparticles using <i>Trapa natans</i> fruit extract and it's application in the removal of methylene blue</p> <p>2025 Synthesis of metal oxides nanoparticles using <i>Glycyrrhiza glabra</i> extract</p> <p>2025 Synthesis of iron oxide nanoparticles using <i>Psoralea corylifolia</i> leaf extract</p> <p>2025 Phytochemical studies of <i>Smilax aristolochiifolia</i> and evaluation of its antioxidant potential</p> <p>2025 Synthesis of selected thiosemicarbazones and their characterization</p>
Service Activity	<ul style="list-style-type: none"> • PT member SAR, Department of Chemistry, Kinnaird College for Women, Lahore • Student mentoring

	<ul style="list-style-type: none"> • Faculty workload management • Management of Departmental Record enlisting the students with CGPA less than 2.5 and issuance of warning letters • Maintenance the database of stationary items used within the department
ACP Projects regarding SDG's	ACP projects entitled, <ul style="list-style-type: none"> • “Empowering her Creativity: Sewing Machine for Needy to Stitch their Dreams” • “Hope Harbour • “Empowering Dreams: Catalyzing Change through Active Citizenship” • “Educating Young Minds”
Brief Statement of Research Interest	<ul style="list-style-type: none"> • Green Synthesis of Metal Nanocomposites • Extraction of Phytoconstituents • Phytochemical analysis • Antimicrobial evaluation of plant extracts and nanoparticles • Analysis of heavy metals • Synthesis of Organic Compounds
Publications	<ul style="list-style-type: none"> • Munir, R., Zaib, S., Zia-ur-Rehman, M., Javed, H., Roohi, A., Zaheer, M., ... & Khan, I. (2024). Exploration of morpholine-thiophene hybrid thiosemicarbazones for the treatment of ureolytic bacterial infections via targeting urease enzyme: Synthesis, biochemical screening and computational analysis. <i>Frontiers in Chemistry</i>, 12, 1403127. • Akram, F., Mir, AS., Haq, IU., & Roohi, A. (2023). An appraisal on prominent industrial and biotechnological applications of bacterial lipases. <i>Molecular Biotechnology</i>, 65(4), 521-543. • Ahmed I., Roohi N., Roohi A., (2022) “Impact of chitosan oligosaccharide and valine supplementation on blood biochemical profile of broilers”. South African Society for Animal Sciences. 52: 366-373 • Akram F., Haq IU., Roohi A., Akram R.(2022). “Acinetobacter indicus CCS-12: A New Bacterial Source For the Production and Biochemical Characterization of Thermostable Chitinase with Promising Antifungal

	<p>Activity".Waste and Biomass Valorization. 13:3371–3388</p> <ul style="list-style-type: none"> • Munir, R., Javid, N., Rehman, M.Z., Zaheer, M., Huma, R., Roohi, A. & Athar, M.M. (2021) "Synthesis of Novel N-Acylhydrazones and their C-N/N-N Bond Conformational Characterization by NMR Spectroscopy" Molecules, 26, 4908 DOI:10.3390/molecules26164908 • Ahmed I., Roohi N., Roohi A., (2021) Effect of chitosan oligosaccharide and valine on growth, serum hormone levels and meat quality of broilers. South African Journal of Animal Sciences, 51(1). • Munir, R., Rehman, M. Z., Athar, M. M., Javid, N., Roohi, A. & Razavi, S. F. (2021) "Novel Quinolinyl – Sulphonamide Hybrid Schiff Bases as Potent Radical Scavengers to Combat Oxidative Stress" Pakistan Journal of Zoology, 53(1), 87 – 92. (Published Online on 3rd June 2020) • Batool T., Roohi A., Roohi N. and Mahmud A., Impact of Different Dietary lysine Regiments on blood Biochemical Profile and Immune Response in Indigenous Aseel Varieties. Pakistan Veterinary Journal. 37(4):393-398, 2017 • Husain I., Ashiq MI., Nadeem M. and Roohi A. Spectroscopic, Antifungal and Antibacterial studies of 1,4-Bis-(chloromethyl)-Naphthalene. Journal of Chemical Society of Pakistan. 36(4): 674-682, 2014 • Tariq MI., Tahir MN., Hussain I. and Roohi A. 1, 4 Bis (Chloromethyl) Naphthalene, Acta Crystallographica, Section E (64), 2008.
Research Grants and Contracts	N.A
Other Research or Creative Accomplishments	<p>2007-08 On the HEC funded project entitled, "Development of Brightener for Electroplating, Institute of Chemistry".</p>

	<p>2005-07 During M.Phil (Chemistry) for thesis entitled, “Synthesis of Mono- and Di- (Carboxymethyl) Naphthalene and Their Biological Properties”.</p> <p>2003-04 During M.Sc. (Chemistry) for thesis entitled, “Extraction of Sterols by Esterification”.</p>
<p>Selected Professional Presentations</p>	<ul style="list-style-type: none"> Nasir H., Roohi A., Yousaf A., Munir R. “Optimization of Conditions for the Removal of Methylene Blue Using Nickel Oxide Nanoparticles”. 3rd International Conference on Science, Technology & Innovation. Kinnaird College for Women, Lahore. 18th – 20th February 2025 Siddique L., Munir R., Chaudhry F., “Synthesis of quinoline-sultam hybrid scaffolds: Design, optimization & characterization” Roohi A., 3rd International Conference on Science, Technology and Innovation. Kinnaird College for Women, Lahore. 18th – 20th February 2025 *Zulfiqar M., Roohi A., Munir R., Chaudhry F., ““Synthesis and Characterization of Nickel Oxide Nanoparticles using <i>Trapa natans</i> fruit extract and its application in the removal of Methylene Blue” “4th International Conference on Chemical and Pharmaceutical Science: Innovation to Commercialization. FCCU. 22-24th January, 2025 Khalid R., Fatima L., Chaudhry F., Huma R., Munir R., Roohi A. “Synthesis and <i>In Silico</i> Pharmacokinetic Profiling of 4-(Furan-2-ylmethylene)-pyrazolones” “4th International Conference on Chemical and Pharmaceutical Science: Innovation to Commercialization. FCCU. 22-24th January, 2025 *Zulfiqar M., Roohi A., Munir R., Bisma I., Mushtaq S. “Phytochemical studies of <i>Swertia chirata</i> leaves; heavy metal determination and evaluation of antibacterial and antioxidant potential” <i>International Conference on Material Chemistry and Industrial Technologies (MCIT)</i>. University of Lahore 24th – 25th April, 2024 Choudhary S., Roohi A.,*¹, Tasadduq R., Munir R., Shakir R., Razi

	<p>FN. Phytochemical Screening and Antimicrobial Studies of <i>Carica papaya</i> Fruit and Peel Extract and Their Role In Synthesis of Silver Nanoparticles. <i>4th International Conference on Chemistry ICC-2023. Lahore Garrison University. 20-21 March, 2023</i></p> <ul style="list-style-type: none"> • Sana R., Roohi A., Munir R , Fatima A · Determination of Heavy Metals in Selected Samples of Potato Chips and Nimko Collected From Local Market of Lahore. <i>2ND International Conference on Science, Technology and Innovation. Kinnaird College for Women, Lahore 8TH-10th March 2023</i> • Zahra M, Roohi A., Rubina M, Mumtaz A. Determination of Selected Essential and Non- Essential Elements in Irrigation Water and Soil Collected from Some Areas of North East Punjab. <i>2nd International Conference on Chemistry, LGU, Lahore. April 26-27, 2019</i> • Afzal H., Roohi A., Rubina M., Butt MF. and Zahid H., “Comparison of selected Aromatic Compounds using two different catalysts”. Poster Presented in <i>2nd International Conference on Chemistry, LGU, Lahore. April 26-27th , 2019</i> • Munir R., Huma, R., Sheikh, A.A., Javid, N. and Roohi, A., “Assay of Pesticide Residues on the Surface of Selected Fruits and Vegetables Collected from Lahore, Pakistan”. Paper presented in Conference <i>Emerging Scientist 2019.</i> • Munir, R., Tariq, N., Javid, N., Roohi, A., Huma, R. and Hayat, A., “Synthesis and Antibacterial Activity of Anisidyl Azomethines”. <i>Proceeding Emerging Scientist.</i> • Munim, A., Munir, R., Huma, R., Roohi, A., Saeed, S.M., “Study on Variation of Reaction Time and Reactant Concentration on Refractive Index of Synthesized Resols”. Paper presented in Conference <i>Emerging Scientist 2019.</i> • Islam, Z.T., Roohi, A., Munir, R., Huma, R. and Hayat, A., “Synthesis and Antibacterial Screening of Toluidine-Based Anils against <i>Eschericia coli</i> and <i>Staphylococcus aureus</i>”. Paper presented
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	<p>in Conference <i>Emerging Scientist 2019</i>.</p> <ul style="list-style-type: none"> • Roohi A., Hussain I. And Tariq MI. “Synthesis of bis (chloromethyl) naphthalene and biological study of its intermediate bis (chloromethyl) naphthalene” Poster Presented in 18th National Chemistry Conference held in Institute Of Chemistry, University Of The Punjab, Lahore. Feb 25-27, 2008
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