

CURRICULUM VITAE



**Department of Chemistry, Bacha Khan University,
Charsadda (BKUC), Khyber Pukhtunkhawa (KPK), Pakistan.**

Designation: Assistant Professor
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HIGHEST ACADEMIC QUALIFICATION

Ph.D. (Organic Chemistry), H.E.J. Research Institute of Chemistry,
I.C.C.B.S., University of Karachi, Karachi-75270, Pakistan.

RESEARCH INTERESTS

I am working in fields of Organic, Inorganic and Materials Chemistry with the following multidisciplinary areas;

- Synthesis of Mixed Metal Oxides (unsupported)/Perovskite based nanocomposites with emphasis to their catalytic properties (photo and electrocatalysis), Low and intermediate temperature Solid Oxides Fuel Cells, electrical, dielectric and humidity sensing applications.
- Synthesis of Mixed Metal Oxides (supported) based mesoporous materials with enhanced surface area for advanced catalysis.
- Organic and Inorganic Perovskites semiconductor based hybrid materials for solar cells and other applications.

- Synthesis of plant extracts based Metallic nanocomposites (supported and unsupported) with high surface area and their catalytic applications such as detoxification/photodegradation of industrial toxic dyes (such as azo dyes) as well as photoreduction of environmental toxic pollutants such as nitrophenols into useful aminophenolic compounds, oxidation of alcohols to carbonyl compounds/carboxylic acids and direct conversion of nitriles to esters.
- Synthesis of Metal (specifically alkali, alkaline earth metals and transition metals) Organic ligands coordination complexes using Oxygen and Nitrogen donor organic ligands and their bioactivities, magnetic and other applications.
- Synthesis of Metal-Organic Frameworks (MOF) with special emphasis of their bioactivities, magnetic and other applications.
- Synthesis of Heterocyclic Compounds (involving C-C, C=C, C-O, C=N, C-N, N=N) with special emphasis of structure activity relationship based bioactive pharmacophores.
- Atmospheric and Aerosol Chemistry

CURRENT POSITION AND TEACHING/RESEARCH EXPERIENCE

- Currently working as Assistant Professor (BPS-19) on permanent basis at Department of Chemistry, Bacha Khan University, Charsadda, Khyber Pukhtunkhawa, Pakistan since 21st October, 2011 till date.
- Worked as Director Administration, Bacha Khan University, Charsadda, Khyber Pukhtunkhawa, Pakistan during 10th April 2017 till 12th September 2017.
- Worked as Head of the Department of Chemistry, Bacha Khan University, Charsadda, Khyber Pukhtunkhawa, Pakistan during 31st July 2015 till 8th March 2016.
- Remained departmental Controller of examinations during January 2014 till June 2015.
- Member of the Graduate Study Committee (GSC).
- Member of the Board of Studies Study (BOS).
- Declared as HEC Approved Supervisor since 8th August 2012 till date.

ACHIEVEMENTS

- Published a US patent entitled “**Inhibitors of Advanced Glycation End-Products (AGES) Formation**” by Humera Jahan, Muhammad Iqbal Choudhary, **Zarbad Shah**, Khalid M. Khan; Atta-ur-Rahman, US 91387,198 B1, Application No.: 141634,045, Publication date: July 12, 2016.

Link: <http://www.freepatentsonline.com/9387198.html>

- Supervised/Produced first ever Ph.D. student (Mr. Tofail Arshad) in Bacha Khan University Charsadda.
- On the basis of total **Impact factor** of published papers, occupying overall 2nd position among all faculty members of the Department of Chemistry, BKUC.
- Delivered a series of lectures on the topics “**Diclofenac Complexes**” and “**Alkali Metal Complexes**” during his two weeks of September 2019 (September 18-October 2, 2019) visit at the College of Materials Science and Engineering, Beijing University of Technology, Beijing China on special invitation of **Prof. Dr. Yi Wang**.
- Signed MOU between Bacha Khan University Charsadda, KPK and H. E. J. Research Institute of Chemistry, I.C.C.B.S. University of Karachi for joint research collaboration of M.Phil. and Ph.D. students in which I was focal person for the BKUC. So, many M.Phil. and Ph.D. students of the Department of Chemistry, Bacha Khan University Charsadda have been benefitted from it.
- Signed personal MOU between Bacha Khan University Charsadda, KPK and University of Nizwa, Oman for joint research supervision of M.Phil. and Ph.D. students. So far, one of my Ph.D. student (Mr. Syed Raza Shah) are pursuing their Ph.D. research in University of Nizwa, Oman. The host University is also providing handsome scholarship for the aforesaid student. Similarly, many more M.Phil./Ph.D. students will be sent soon to University of Nizwa, Oman under the joint research mutual collaboration between the two institutions.

LIST OF PUBLICATIONS

Total published papers in **JCR** = **36** (with accumulative **Impact Factor** = **101.24**)

Total accumulative **Impact Factor** of all published papers in **2020** = **57.032**

Year (2021)

1. **Zarbad Shah***, Taj Gul, Shahid Ali Khan, Kausar Shaheen, Yasir Anwar, Hongli Suo, Muhammad Ismail, Syed M. Salman, Synthesis of high surface area AgNPs from *Dodonaea Viscosa* plant for the removal of pathogenic microbes and persistent organic pollutants, *Materials Science & Engineering B: Solid-State Materials for Advanced Technology*, 263 (2021) 114770. (Impact Factor = 4.706/Q1 Ranking).
2. Syed Raza Shah; **Zarbad Shah**, Ajmal Khan, Ayaz Ahmed,; Shariqa Khawja, Rene Csuk, Muhammad Anwar, AhmedAl-Harrasi, Alkali Complexes of Non-Steroidal Anti-inflammatory Drugs Inhibit Lung and Oral Cancers In Vitro, *New Journal of Chemistry, Advance Article*, 2021. (Impact Factor = 3.288/Q1 Ranking).
3. Shah Hussain, Muhammad Kamran, Shahid Ali Khan, Kausar Shaheen, **Zarbad Shah**, Hongli Suo, Qadeer Khan, Abdul Basit Shah, Waseeq Ur Rehman, Youssef O. Al-Ghamdi, Usman Ghani, "Adsorption, kinetics and thermodynamics studies of methyl orange dye sequestration through chitosan composites films" *International Journal of Biological Macromolecules*, 168 (2021) 383–394. (Impact Factor = 5.162 /Q1 Ranking).
4. Kashif Rafiq, Majid Khan, Niaz Muhammed, Ajmal Khan, Najeeb Ur Rehman, Balqees Essa Mohammad Al-Yahyaie, Mohammed Khiat, Sobia Ahsan Halim, **Zarbad Shah**; Rene Csuk, Ahmed Al-Harrasi, "New amino acid-clubbed-schiff bases inhibit carbonic anhydrase-II, α -glucosidase and urease enzymes: In silico and In-vitro" *Medicinal Chemistry Research*, Accepted, 2021. (Impact Factor = 1.783 /Q2 Ranking).

Year (2020)

1. Kausar Shaheen, Hongli Suo*, Tofail Arshad, **Zarbad Shah****, Shahid Ali Khan, Sher Bahadar Khan, Muhammad Naeem Khan, Min Liu, Lin Ma, Jin Cui, Yao Tang Ji, Chunyan Li, Yi Wang, Metal oxide Nanomaterials for the Photocatalytic Mineralization of toxic Water wastes Under Solar light illumination, *Journal of Water Process Engineering*, 34 (2020) 101138 (Impact Factor = 3.465/Q1 Ranking).
2. Kausar Shaheen, Hongli Suo, **Zarbad Shah***, Muhammad Bilal Hanif, Zahid Hussain, Sajid Ali, Min Liu, Lin Ma, Jin Cui, Yao Tang Ji, Yi Wang, Electrochemical performance of multifuel based nanocomposite for Solid Oxide Fuel Cell, *Ceramics International*, 46 (2020) 8832–8838 (Impact Factor = 3.83/Q1 Ranking).

3. Kausar Shaheen, **Zarbad Shah***, Tofail Arshad, Lin Ma, Min Liu, Yi Wang, Jin Cui, Yao Tang Ji, Hongli Suo, Electrical, Dielectric and Photocatalytic Applications of Iron based Nanocomposites, *Applied Physics A: Materials Science and Processing*, (2020) 126:149 (**Impact Factor = 1.81/Q2 Ranking**)
4. Kausar Shaheen, Hongli Suo, **Zarbad Shah***, Lintha Khush, Tofail Arshad, Sher Bahadar Khan, Mohsin Siddique, Lin Ma, Min Liu, Jin Cui, Yao Tang Ji , Yi Wang, Ag-Ni and Al-Ni Nanoparticles for Resistive Response of Humidity and Photocatalytic Degradation of Methyl Orange dye, *Materials Chemistry and Physics*, 244 (2020) 122748. (**Impact Factor = 3.408/Q2 Ranking**).
5. M. N. Khan, Waqar Ali, **Zarbad Shah**, M. Idrees, H. Gulab, and Adnan, A Validated Spectrofluorimetric Method for the Determination of Moxifloxacin in its Pure Form, Pharmaceutical Preparations and Biological Samples, *Analytical Sciences*, 36 (2020), 361-366 (**Impact Factor = 2.049/Q2 Ranking**).
6. Kausar Shaheen, **Zarbad Shah***, Hussain Gulab, Muhammad Bilal Hanif, Shah Faisal, Hongli Suo, Metal Oxide Nanocomposites as Anode and Cathode for Low Temperature Solid Oxide Fuel Cell, *Solid State Sciences*, 102 (2020) 106162 (**Impact Factor = 2.434/Q2 Ranking**).
7. **Zarbad Shah***, Sara Hassan, Kausar Shaheen, Shahid Ali Khan, Taj Gul, Yasir Anwar, Majed A. Al-Shaeri, Momin Khan, Rasool Khan, Muhammad Abdul Haleem, Hongli Suo, Synthesis of AgNPs coated with secondary metabolites of Acacia Nilotica: An Efficient Antimicrobial and Detoxification agent for Environmental toxic Organic Pollutants, *Materials Science and Engineering C*, 111 (2020) 110829. (**Impact Factor = 5.88 /Q1 Ranking**).
8. Kausar Shaheen, **Zarbad Shah***, Hongli Suo, Behramand Khan, Adnan, Muhammad Omer, Muhammad Alamzeb, Electrical, Photocatalytic and Humidity Sensing Applications of Mixed Metal Oxides Nanocomposites, *ACS Omega*, 5 (2020), 7271–7279 (**Impact Factor = 2.87/Q2 Ranking**).
9. Syed Raza Shah, **Zarbad Shah**, Mohammed Khiat, Ajmal Khan, Leila R. Hill, Shakeel Khan, Javid Hussain, René Csuk, Rashid Al-Harrasi, Muhammad U. Anwar and Ahmed Al-Harrasi, Complexes of N- and O-donor Ligands as Potential Urease Inhibitors, *ACS Omega*, 5 (2020), 10200–10206 (**Impact Factor= 2.87/Q2 Ranking**).
10. Syed Raza Shah, **Zarbad Shah**, M. Khiat, Sobia A. Halim, A. Khan, L. R. Hill, J. Hussain, M. U. Anwar, A. Al-Harrasi, New s-block Complexes of 1, 10-Phenanthroline and 1,3-

benzothiazole-2-thiolate Inhibit Urease in silico and in vitro, *Applied Organometallic Chemistry*, 2020; e5842 (Impact Factor = 3.14/Q1 Ranking).

11. Mohsin Siddique, Noor Muhammad Khan, Muhammad Saeed, Sajid Ali, **Zarbad Shah**, *Zeitschrift fur Physikalische Chemie*, 1-19, 2020. (Impact Factor = 2.03/Q4 Ranking).
12. Kausar Shaheen, **Zarbad Shah***, Ambreen Asad, Tofail Arshad, , Sher Bahadar Khan, Shahid Ali Khan, Hongli Suo*, Synthesis, Characterization, and Multifunctional Applications of Cu-Fe and Ni-Fe Nanomaterials, *ACS Omega*, 5 (2020), 15992–16002. (Impact Factor = 2.87/Q2 Ranking).
13. Kausar Shaheen, **Zarbad Shah***, Tofail Arshad, Sher Bahadar Khan, Muhammad Naeem Khan, Hongli Suo, Electrical Conductance, Dielectric Properties and Photodegradation Ability of Aluminium based Heterogeneous Nanoparticles, *Materials Chemistry and Physics*, 254C (2020) 123546. (Impact Factor = 3.408/Q2 Ranking).
14. Kausar Shaheen, **Zarbad Shah***, Rizwana Marwat, Tofail Arshad, Sher Bahadar Khan, Naveed Iqbal, Behramand Khan, Jin Cui, Yao Tang Ji, Lin Ma, Min Liu, Yi Wang, Synthesis of silver and aluminum doped magnetic nanoparticles: New fascinating materials with multipurpose applications, *Chemical Physics Letters*, 742 (2020) 137167. (Impact Factor = 2.029 /Q2 Ranking).

Year (2019)

1. Syed Raza Shah, **Zarbad Shah**, Najeeb Ullah, Javid Hussain, Rashid Al-Harrasi, Ajmal Khan, Jeremy M. Rawson, Ahmed Al-Harrasi and and Muhammad U. Anwar, Crystal structure, shape analysis and bioactivity of new Li^{I} , Na^{I} and Mg^{II} complexes with 1,10-phenanthroline and 2-(3,4-dichlorophenyl)acetic acid, *Acta Crystallographica. Section C, Structural Chemistry*, C75 (2019) 294-303 (Impact Factor = 1.09/Q4 Ranking).
2. Kausar Shaheen, **Zarbad Shah***, HongLi Suo, Min Liu, Lin Ma, Khan Alam, Alia Gul, Jin Cui, Chunyan Li, Ya Wang, Shahid Ali Khan, Sher Bahadar Khan, Aerosol clustering in an urban environment of Beijing during (2005–2017), *Atmospheric Environment*, 213 (2019) 534-547 (Impact Factor = 4.012/Q1 Ranking).
3. Shahid Ali Khan, Tofail Arshad, Md. Faisal, **Zarbad Shah**, Kausar Shaheen, Hongli Suo, Abdullah M. Asiri, Kalsoom Akhtar, Sher Bahadar Khan, Al–Sr metal oxides and Al–Cd layered double hydroxides for the removal of Acridine orange dye in visible light exposure, *Journal of Materials Science: Materials in Electronics*, 30 (2019) 15299–15312 (Impact Factor = 2.489/Q2 Ranking).
4. S. A. Khan, S. Maher, N. Naheed, Maria, T. Mahmmad, K. Ayub, A. Farroq. S. B. Khan, **Zarbad Shah**, Isolation, Spectroscopic and Density Functional Theory of two Withanolide

Glycosides, *Journal of Molecular Structure*, 1177 (2019) 449-456 (**Impact Factor = 2.463/Q3 Ranking**).

5. Syed Raza Shah, **Zarbad Shah**, Ajmal Khan, Ayaz Ahmed, Sohani, Rene Csuk, Muhammad U. Anwar and Ahmed Al-Harrasi, Sodium, Potassium, and Lithium Complexes of Phenanthroline and Diclofenac: First Report on Anticancer Studies, *ACS Omega*, 2019, 4 (25), 21559-21566 (**Impact Factor = 2.87/Q2 Ranking**).

Year (2018)

1. N. Akhtar, Y. Y. Teo, M. A. Najeeb, Z. Ahmad, **Zarbad Shah** and M. A. Hasan, Synthesis and Characterization of Magnetic Nanostructured Lipid Carriers (mNLCs) for Drug Delivery, *International Journal of Electrochemical Science*, 13 (2018) 12040-12048 (**Impact Factor = 1.573/Q4 Ranking**).
2. H. Gulab, **Zarbad Shah**, M. Mahmood, S. R. Shah, S. Ali, M. Iqbal, M. N. Khan and Ulrich Flörke, Synthesis, Characterization and Antibacterial Activity of a New Calcium Complex Using Sodium 2-Mercaptobenzothiazole and 1,10-Phenanthroline as Ligands, *Journal of Molecular Structure*, 1154 (2018) 140-144. (**Impact Factor = 2.463/Q3 Ranking**).
3. Muhammad Naeem Khan, Rainaz Begum, **Zarbad Shah**, Sang Hak Lee, Development and Validation of an Ecofriendly Chemiluminescence Method for the Determination of Citalopram in Pharmaceutical Preparations using Cu²⁺-grafted Oxidized Multiwall Carbon Nanotubes, *South African Journal of Chemistry*, 71 (2018) 118–126. (**Impact Factor = 1.49/Q3 Ranking**).

Year (2017)

1. Tofail Arshad, S. A. Khan, M. Faisal, **Zarbad Shah**, K. Akhtar, A. M. Asiri, A. A. Ismail, B. G. Alhogbi, S. B. Khan, Cerium based photocatalysts for the degradation of acridine orange in visible light, *Journal of Molecular Liquids*, 241 (2017) 20–26. (**Impact Factor = 5.065/Q2 Ranking**).
2. Humera Jahan, M. I. Choudhary, **Zarbad Shah**, K. M. Khan and Atta-ur-Rahman, Derivatives of 6-Nitrobenzimidazole Inhibit Fructose-Mediated Protein Glycation and Intracellular Reactive Oxygen Species Production, *Medicinal Chemistry*, 13 (2017) 577-584. (**Impact Factor = 2.577/Q3 Ranking**).

Year (2016)

1. S. A. Khan, S. B. Khan, **Zarbad Shah**, A. M. Asiri, Withanolides: Biologically Active Constituents in the Treatment of Alzheimer Disease, *Medicinal Chemistry*, 12 (2016) 238-256. (2.577/Q3 Ranking).
2. H. Gulab, K. Hussain, S. Malik, Z. Hussain and **Zarbad Shah**, Catalytic co-pyrolysis of Eichhornia Crassipes biomass and polyethylene using waste Fe and CaCO₃ catalysts, *International Journal of Energy Research*, 7 (2016) 940–951. (Impact Factor = 3.741/Q1 Ranking).
3. Sajid Ali, M. Nisar & **Zarbad Shah**, Production of biologically active oxidized derivatives of finasteride through metabolism by Aspergillus niger culture, *Pharmaceutical Biology*, 11(2016) 2771-2776. (Impact Factor = 2.971/Q2 Ranking)
4. M. N. Khan, S. Kalsoom, R. Hussain, **Zarbad Shah** and M. Saadiq, Development of Indirect Spectrophotometric Method for Quantification of Cephalexin in Pure Form and Commercial Formulation Using Complexation Reaction, *Pakistan Journal of Analytical and Environmental Chemistry*, 2016, 18-123. (Impact Factor = 0.00).

Year (2013)

1. K. M. Khan, M. Ali, N. Ambreen, F. Naz, M. Arshad, N. A. Rao, S. Perveen, **Zarbad Shah**, Free Radical Scavenging Potential of Anilinoacridines and Acridinylhydrazides, *Journal of the Chemical Society of Pakistan*, 35 (2013) 202-205. (Impact Factor = 0.30/Q4 Ranking).

Year (2012)

1. K. M. Khan, **Zarbad Shah**, V. U. Ahmad, M. Khan, M. Taha, S. Noreen, and M. I. Choudhary, 6-Nitrobenzimidazole Derivatives: Potential Phosphodiesterase Inhibitor: Synthesis and Structure-activity relationship, *Bioorganic and Medicinal Chemistry*, 20, (2012) 1521-1526. (Impact Factor = 3.073/Q2 Ranking).
2. Rasool Khan, F. Alam, S. Anwer, B. M. Khan and **Zarbad Shah**, Isolation of Flavones from Indigenous *Dodonaea viscosa*, *Journal of the Chemical Society of Pakistan*, 2012, 34 (2012) 95-200. (Impact Factor = 0.30/Q4 Ranking).
3. K. M. Khan, **Zarbad Shah**, V. U. Ahmad, M. Khan, M. Taha, F. Rahim, N. Ambreen, S. Ali and M. I. Choudhary, 2,4,6-Trichlorophenyl Hydrazine Schiff Bases, as DPPH Radical and Superoxide Oxide Anion Scavengers, *Medicinal Chemistry*, 8 (2012) 452-461. (Impact Factor = 2.577/Q3 Ranking).

Year (2011)

1. K. M. Khan, **Zarbad Shah**, V. U. Ahmad, Momin Khan, Muhammad Taha, H. Jahan, M. I. Choudhary, Synthesis of 2,4,6-Trichlorophenyl Hydrazones and Their Antigliycation Activity of Protein, *Medicinal Chemistry*, 7(2011), 572-580. (Impact Factor = 2.577/Q3 Ranking).

RESEARCH EXPERIENCE

(a). Ph.D. Students supervised/under supervision

S #	Name of Student	Program	Session	Status	Awarding year
1	Mr. Tufail Arshad	Ph.D.	2014-17	Ph.D. awarded	2020
2	Mr. Syed Raza Shah	Ph.D.	2014-17	Thesis writing	.....
3	Mr. Shakeel Ahmad Khan	Ph.D.	2016-19	Research in Progress	.....
4	Ms. Sara Hassan	Ph.D.	2020-23	Research in Progress	.....
5	Mr. Wajid Ali	Ph.D.	2020-23	Research in Progress	.....

(b). M.Phil. students supervised/under supervision

S #	Name of Student	Program	Session	Status	Awarding year
1	Ms. Naseem Akhtar	M.Phil.	2013-15	M.Phil. Awarded	2017
2	Mr. Ismail	M.Phil.	2016-18	M.Phil. Awarded	2018
3	Mr. Hazrat Bilal	M.Phil.	2016-18	M.Phil. Awarded	2019
4	Mr. Nasim Ullah	M.Phil.	2016-18	M.Phil. Awarded	2019
5	Ms. Noshi Alam	M.Phil.	2015-17	M.Phil. Awarded	2019
6	Ms. Faiza Gul	M.Phil.	2016-18	M.Phil. Awarded	2019
7	Ms. Sara Hassan	M.Phil.	2017-19	M.Phil. Awarded	2019
8	Mr. Taj Gul	M.Phil.	2017-19	M.Phil. Awarded	2019
9	Mr. Wajid Ali	M.Phil.	2018-20	M.Phil. Awarded	2020
10	Mr. Abdur Rahman	M.Phil.	2018-20	M.Phil. degree in process	.....

11	Mr. Sajjad Ali	M.Phil.	2018-20	Thesis Writting	.....
12	Mr. Abdul Qayyum	M.Phil.	2019-21	Research Under process	.....
13	Ms. Neelam Pari	M.Phil.	2019-21	Research Under process	.....
14	Ms. Zainab Zaman	M.Phil.	2019-21	Research Under process	.....
15	Mr. Noor Rahman	M.Phil.	2019-21	Research Under process	.....
16	Mr. Wisal Khan	M.Phil.	2019-21	Research Under process	.....
17	Mr. Abdul Wahid	M.Phil.	2019-21	Research Under process	.....
18	Mr. Waseem Jan	M.Phil.	2019-21	Research Under process	.....
19	Mr. Tajmeer Khan	M.Phil.	2020-22	Research Under process	.....
20	Mr. Qadeer Khan	M.Phil.	2020-22	Research Under process	.....
21	Muhammad Rayyan	M.Phil.	2020-22	Research Under process	.....

(c). M.Phil. Students co-supervised

S #	Name of Student	Program	Supervisor/ University	Co-supervisor/ University	Status
1	Mr. Mazhar Mahmood	M.Phil.	Dr. Hussain Gulab/ (BKUC)	Dr. Zarbad Shah/ (BKUC)	Degree awarded
2.	Mr. Pasham Gul	M.Phil.	Dr. Syed Muhammad Salman/ (ICUP)	Dr. Zarbad Shah/ (BKUC)	Degree awarded
3.	Mr. M. Wisal Khan	M.Phil.	Dr. Syed Muhammad Salman/ (ICUP)	Dr. Zarbad Shah/ (BKUC)	Degree awarded

(d). BS/M.Sc. Research Students supervised

S #	Name of Student	Program	Status
1	Ms. Fahima Hassan	M.Sc.	M.Sc. Degree awarded
2	Ms. Fatima Hassan	M.Sc.	M.Sc. Degree awarded
3	Ms. Zarmeena Farman	M.Sc.	M.Sc. Degree awarded
4	Ms. Ghazal Janisar	M.Sc.	M.Sc. Degree awarded
5	Ms. Rabia Noureen	M.Sc.	M.Sc. Degree awarded
6	Ms. Shabana Gul	M.Sc.	M.Sc. Degree awarded
7	Ms. Asma Gul	M.Sc.	M.Sc. Degree awarded
8	Ms. Sawaira Rahman	M.Sc.	M.Sc. Degree awarded
9	Mr. A. Haseeb Mohsin	BS	BS Degree awarded
10	Ms. Sohani	BS	BS Degree awarded
11	Mr. Najeeb Ullah	BS	BS Degree awarded
12	Mr. Amir Kareem	BS	BS Degree awarded
13	Ms. Sakeena Zahoor	BS	BS Degree awarded
14	Ms. Lintha Khush	BS	BS Degree awarded
15	Ms. Rizwana Marwat	BS	BS Degree awarded
16	Ambreen Asad	BS	BS Degree awarded

REFERENCES

References will be provided when required.