

Research

TITLE	Page #
i. Research and Development	61
ii. Innovation and Commercialization	96
iii. University Liaison with industry	97
iv. Universities Building Economies	98
v. Outreach Activities	98
vi. Other Activities	101

i. Research and Development

University of Science & Technology Bannu conduct research and development through a well-structured process such as establishment of Office of Research, Innovation and Commercialization (ORIC) and Business Incubation Centers.

Faculty Research Publications

Department: Biotechnology

SN	Name of Faculty	Name of Journal	Title of Research Article	Vol, Issue & Page Nos	Year
1.	Mushtaq Ahmad	Journal of Medicinal Plants Research	Antimicrobial activity of crude methanolic extract of <i>Periploca aphylla</i>	5(32), 7017-7021.	2024
2.	Mushtaq Ahmad	The Journal of Venomous Animals and Toxins including Tropical Diseases	Enzymatic and biochemical characterization of <i>Bungarus sindanus</i> snake venom acetylcholinesterase	18(2): 236-243	2024
3.	Rehmat Ali Khan	<i>BMC Complementary and Alternative Medicine</i>	Estimation of flavonoids, antimicrobial, antitumor and anticancer activity of <i>Carissa opaca</i> fruits	13:372.	2025
4.	Rehmat Ali Khan	BMC Complementary and Alternative Medicine	Effects of <i>Carissa opaca</i> fruits extracts on oxidative pulmonary damages and fibrosis in rats	1472-6882-14-40.	2025
7.	Shoaib ur Rehman	Neurogenetics	Autozygosity mapping of a large consanguineous Pakistani family reveals a novel non-syndromic autosomal recessive mental retardation locus on 11p15-tel	12(3):247-51.	2024
8.	Shoaib ur Rehman	Eur J Hum Genet	Preaxial polydactyly/triphalangeal thumb is associated with changed transcription factor-binding affinity in a family with a novel point mutation in the long-range cis-regulatory element ZRS	18(6):733-736	2024
9.	Adeel Khan	Biosensors 12,	Rapid Capturing and Chemiluminescent Sensing of Programmed Death Ligand-1 Expressing Extracellular Vesicles.	no. 5 (2022): 281.	2024
10.	Adeel Khan	Journal of Oncology	Lung Cancer Nodules Detection via an Adaptive Boosting Algorithm Based on Self-Normalized Multiview Convolutional Neural Network."		2024
11	Dr. Sehroon Khan	Liaquat Medical Research Journal (LMRJ)	THE ASSESSMENT OF THE DOUEPIA TORTUOSA AND HORSETAIL (EQUISETUM ARVENSE) COMPARATIVE AND COMBINE ANTIOXIDANT POTENTIAL	LMRJ Volume 7 Issue 01	2025

Department: Botany

SN	Name of Faculty	Name of Journal	Title of Research Article	Vol, Issue & Page Nos	Year
1	Shahzad Hussain, Faizan Ullah, Amin Shah, Ihsan Ullah, Sultan Mehmood, Iram Gul, Sarvat Rahim, Irfan Ali Shah and Noor Ul Uza	Ethnobotany Research and Applications	Quantitative ethnomedicinal studies of wild edible fruits used by the indigenous people of the Surghar range, Pakistan.	26:58	2023
2	Safi Ullah Khan, Faizan Ullah, Masroor Hussain, Muhammad Zahid Ihsan, Sultan Mehmood, Liaqat Ali, Shah Saud, Shah Fahad, Shah Hassan	King Saud Journal of Science	Phytochemical analysis and phytotoxic evaluation of <i>Chenopodium glaucum</i> L..	35, Issue 3	2023
3	T Gul, MM. Aslam, AS. Khan, T. Iqbal, Faizan Ullah, Gaber E. Eldesoky, Ahmed M. Aljuwayid, Muhammad Saeed Akhtar	Chemosphere.	Phytotoxic responses of wheat to an imidazolium based ionic liquid in absence and presence of biochar.		2023
4	Muhammad Ayaz, Said Khalid Shah, Tahir Iqbal, Khalil Ullah.	IEEE Access.	Automatic Early Diagnosis of Dome Galls in <i>Cordia dichotoma</i> G. Forst. Using Deep Transfer Learning.	11, 59511 – 59523.	2023
5	Naila Sher, Mushtaq Ahmed, Nadia Mushtaq.	Applied organometallic chemistry.	Synthesis, optimization, and characterization of silver/gold allied bimetallic from <i>Hippeastrum hybridum</i> (L.) and their ex-vivo antiacetylcholinesterase activity in rat brain	e7082. 19.	2023
6	Abida Abida, Mikhlid H. Almutairi, Nadia Mushtaq, Mushtaq Ahmed, Naila Sher, Fozia Fozia, Ijaz Ahmad, Bader O. Almutairi, and Zia Ullah.	ACS Omega	Revolutionizing Nanotechnology with Filago desertorum Extracts: Biogenic Synthesis of Silver Nanoparticles Exhibiting Potent Antioxidant and Antibacterial Activities.	8 (38)	2023
7	Naila Sher, Mushtaq Ahmed, Nadia Mushtaq.	BioNanoScience	Green synthesis of silver nanoparticles using <i>Heliotropium eichwaldi</i> L. extracts: acetylcholinesterase modulation in rat brain tissue	13 (2)	2023
8	Khan A, Ullah Faizan, Alkreaty HM, Ahmed M, Khan RA	PLoS ONE	Phytochemical screening, antioxidant and anti-Parkinson activities of <i>Berula erecta</i> : A novel medicinal plant.	19(11)	2024
9	Riaz Hussain, Nadia Mushtaq, Mushtaq Ahmad, Sultan Mehmood Wazir, Steve Harakeh, Muhammad Moulaym, Hajra Hameed, Farhat Badshah, Naila sher, Noshaba Afshin and Saboor Badshah.	Inorganic Chemistry	Holistic exploration of silver nanoparticule synthesized from <i>Carthamus oxycantha</i> leaf extracts characterization and assessment of antioxidant anti-amylase and anticholinesterase activities use comprehensive statistical methods.	170 112300.	2024
10	Noshaba Afsheen, Mushtaq Ahmed, Nadia MushtaqM, Naila Sher.	Nano Biomedicine and Engineering	Antimicrobial, Antioxidant, and Antidiabetic Properties of Polyherbal Formulation-Derived Silver Nanoparticles, and Acetylcholinesterase Activity Modulation in Rat Brain.		
11	Noshaba Afshin, Nadia	Microscopy	Biogenic Synthesis of AgNPs		

	Mushtaq, Mushtaq Ahmed, Naila Sher, and Riaz Hussain	Research and Technique.	via Polyherbal Formulation: Mechanistic Neutralization and Toxicological Impact on Acetylcholinesterase from Bungarus sindanus Venom.		
12	Asif Mehmood, Amir Sultan*, Tahir Iqbal	Pakistan. Pakistan Journal of Botany.	Host range and host preferences of Cuscuta species (Convolvulaceae) in Karak, Kohat and Bannu districts, Khyber Pakhtunkhwa.)	56(5)	
	Khan, H. U., Muhammad Mudasar Aslam, Iqbal, T., Khatoon, A., Jamil, M., Rehman, S.U., Khan, M. N., Iqbal, M., Kaplan, A., Razak, S.A., Ali, B., Afridi, M.S., Hamed, S.A., AbdelLatef, A.A.H	Acta Physiologiae Plantarum	Eco-friendly herbicide tolerance in maize (<i>Zea mays</i> Linn.) using moringa (<i>Moringa oleifera</i> Lam.) leaf extract	Vol 47	March, 2025
13	Khan, J., Fayyaz, M., Muhammad Mudasar Aslam, Gillani, S.R., Masood, S., Jahangir, M., S., Rehman, M., Ullah, Faizan., Jamil, M., Saud, S., Hassan, S., Nawaz, T., Joshi, N., Fahad, S.	Journal of Umm Al-Qura University for Applied Sciences	Fabrication of filter paper with green synthesized iron nanoparticles for heavy metals contaminated wastewater treatments	Vol. 11, Page, 251-258	Jan, 2025
14	Shah, T., Ullah, Faizan., Mehmood, S., Muhammad Mudasar Aslam, Khan, M.U., Nawaz, T., Saud, S., Hassan, S., Zhu, M., Liu, H., Abdelsalam, N.R., Jaremko, M., Fahad, S.	Journal of Hazardous Materials Advances	Exploration and impacts of vehicular-borne potentially toxic elements (VB-PTEs) on <i>Calotropis procera</i> (Aiton) W.T.Aiton: A bioindicator approach	Vol 18, 100753	May, 2025
15	Wazir, Arshad Hussain, Khan, Qudratullah, Ullah Faizan and Yaqoob, Khurram	<i>International Journal of Materials Research,</i>	Green synthesis of highly luminous lemon juice-based carbon dots for antimicrobial assessment and fingerprint detection	1. vol. 116, no. 2, 2025, pp. 102-113.	

Department: Chemistry

SN	Name of Faculty	Name of Journal	Title of Research Article	Vol, Issue & Page Nos	Year
1	Dr. M. Sirajuddin	Inorganic and Nano-Metal Chemistry	Guanidine based copper(II) complexes: synthesis, structural elucidation and biological evaluation	53, 513-522	2023
2	Dr. M. Sirajuddin	Renewable Energy	Synthesis of ternary NiO-CdO-Nd ₂ O ₃ nanocomposite for production of renewable fuel	210, 800-809	2023
3	Dr. M. Sirajuddin	Pharmaceuticals	Synthesis, Structural Elucidation and Pharmacological Applications of Cu(II) Heteroleptic Carboxylates	16, 693	2023
4	Dr. M. Sirajuddin	Pharmaceuticals	Synthesis, Physicochemical characterization, Biological Evaluation, In Silico and Molecular Docking Studies of Pd(II) Complexes with P, S-	16, 806	2023

			Donor Ligands		
5	Dr. M. Sirajuddin	Pharmaceuticals	Designing and Exploration of the Biological Potentials of Novel Centrosymmetric Heteroleptic Copper(II) Carboxylates	16, 1462	2023
6	Dr. M. Sirajuddin	Journal of the Iranian Chemical Society	Synthesis, characterization of ternary metal oxides nanocomposite (ZnO–CdO–Pr ₂ O ₃) for photodegradation of organic pollutants: methylene blue & rhodamine B	20, 2245-2256	2023
7	Dr. M. Sirajuddin	Journal of Chemical Sciences	Experimental and theoretical studies on new organotin(IV) complexes with oxygen donor ligand: DNA binding, molecular docking and antimicrobial activity	135, 1-20	2023
8	Dr. M. Sirajuddin	Journal of Biomolecular Structure and Dynamics	Synthesis, spectral characterisation, biocidal investigation, in-silico and molecular docking studies of 4-[(2-chloro-4-methylphenyl)carbamoyl]butanoic acid derived triorganotin(IV) compounds	42, 1826-1845	2024
9	Dr. M. Sirajuddin	Journal of Organometallic Chemistry	Ferrocene based Schiff bases and their complexes: Synthesis, characterization and biological evaluation, ,	1003, 122944.	2024
10	Dr. M. Sirajuddin	Journal of Molecular Structure	Design, physicochemical confirmation, single crystal structures as well as exploration of antibacterial and anticancer potential of organotin(IV) carboxylates	1300, 137306	2024
11	Dr. M. Sirajuddin	Materials Science and Technology	Novel Ag ₃ PO ₄ -ZnO@GO Ternary composite, synthesis, characterisation and photodegradation of Rhodamine B	40, 1–9	2024
12	Dr. M. Sirajuddin	Journal of Biomolecular Structure and Dynamics	Synthesis, spectral characterisation, biocidal investigation, in-silico and molecular docking studies of 4-[(2-chloro-4-methylphenyl)carbamoyl]butanoic acid derived triorganotin(IV) compounds	42, 1826-1845	2024
13	Dr. M. Sirajuddin	International Journal of Environmental Analytical Chemistry	Antibacterial, Antifungal and Photocatalytic Evaluation of Gd ₂ O ₃ -Fe ₂ O ₃ -CoO Heterostructured Photocatalyst	1-26	2024
14	Dr. M. Sirajuddin	<i>Inorganica Chimica Acta</i>	Synthesis, characterization, exploration of anti-cancer, anti-leishmanial, anti-microbial activities, pharmacokinetic and docking studies of Sn(IV) complexes	568, 122082	2024
15	Dr. M. Sirajuddin	Environmental Geochemistry and Health	Assessment of Growth, Reproduction, and Vermiremediation Potentials of Eisenia	46, 290	2024

			fetida on Heavy Metal Exposure,.		
16	Dr. M. Sirajuddin	Journal of Molecular Structure	Sustainable biodiesel production via castor oil transesterification using organotin(IV) compounds as catalysts	1318, 139182	2024
17	Dr. M. Sirajuddin	Industrial Crops & Products	Transesterification of Azadirachta indica seed oil into biodiesel using MgO-supported tri-metallic catalyst- synthesis and characteristic evaluation, ..	222, 119801	2024
18	Dr. M. Sirajuddin	Journal of Molecular Structure	Synthesis, spectral, in silico/molecular docking and pharmacological studies of biologically potent triorganotin(IV) carboxylates	1318,139 435	2025
19	Dr. M. Sirajuddin	Polyhedron	Synthesis, characterization, DNA, BSA, antimicrobial, antioxidant and molecular docking studies of gadolinium(III) based complexes	267, 117338	2025
20	Dr. M. Sirajuddin	Journal of Molecular Structure	Heteroleptic tri- and di-organotin(IV) carboxylates: Synthesis, characterization and anticancer evaluation	1323, 140742	2025
21	Dr. M. Sirajuddin	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy	Synthesis, spectroscopic, computational, molecular docking, antidiabetic (in vitro & in vivo) DNA and BSA interaction studies of ruthenium(II) carboxylate complexes	330, 125630	2025
22	Dr. M. Sirajuddin	Journal of Molecular Structure	Synthesis, crystal structure, Hirshfeld and docking studies of one-dimensional copper(II) coordination polymer incorporating adeninato, 5-methyluracilato and ammonia ligands	1341, 142581	2025
23	Dr. M. Sirajuddin	International Journal of Environmental Analytical Chemistry	Biosynthesis of Pr ₂ O ₃ /chitosan nanocomposite using Ricinus communis leaf extract for the evaluation of photocatalytic, antibacterial, and antifungal potential	2515499	2025
24	Dr. M. Sirajuddin	Chemical Engineering Science	Catalytic transesterification and photocatalytic degradation potential evaluation of waste materials based MOF@CaO composite using conventional and response surface methodology approaches	122011	2025

Department: Chemistry

1. M. Alsaiani, **M. I. Zaman**, A. Niaz, S. Khan, B. Sania, M.I.Khan, RA.Khan, Jamie Morgan AFaraj Alharbi. Fabrication of Cu-doped iron oxyhydroxide for phosphate removal: A comprehensive spectroscopic, equilibrium, and thermodynamic approach, *Kuwait Journal of Science* 52 (2025) 100330.
2. Amna Bibi, **M. I. Zaman**, A. Niaz, Sania Bibi, Saba Gul, Naveed Ahmad, Hanan E. Osman, Kinetics of silver ion encapsulation as nanoparticles using *Vaccinium oxycoccos* plant extract for the efficient sensing of Cr^{3+} ions and its biological assessment, *Chemical Engineering Journal* 502, (2024), 158185.
3. S. Bibi, S. Sarfaraz, **M.I. Zaman**, A. Niaz, J. Morgan, M. Ans, K. Ayub., A sensitive voltammetric and density functional theory calculations analysis for the direct interaction of sulfide ion with the multiwalled carbon nanotube., **J. Physics and Chemistry of Solids** 183 (2023) 111608.
4. R. Naveen, A. Niaz, **M.I. Zaman**, S.Khan, A.Rahim, A. Zulfiqar, M.Tariq, T.A. Saleh, D.M. F. Santos, M. Alsaiani Colorimetric detection of phosphate-based on iron complexing catechol-displacement assay in eutrophicated water bodies., **Environmental Nanotechnology, Monitoring & Management** 20 (2023) 100792, 1-6.
5. S. Bibi **M.I. Zaman** A. Niaz, M. Tariq, S.Z. Khan A. Zulfiqar A. Rahim S. Jan, Electrocatalytic response of chitosan modified multiwall carbon nanotube paste electrode toward iodide: A facile voltammetric method for determination of iodide in biological sample. **Materials Chemistry and Physics**.,294 (2023) 126984.
6. M.Inam, M. Jamshed, I.Rehman, W.N.Khan, **M.I. Zaman**, M.A.Akram, T .Chudhary, Impact of L-Pyroglutamic Acid on the Solubility of Puerarin: Preparation, Solid-State Characterization and Physicochemical Evaluation of PuerarinL-Pyroglutamic Acid Co-Crystal., *J. Mex. Chem. Soc.* 67(2) (2023),143-151.

Department: Computer Science

S.No	Author Name:	Name of Journal	Title of the Publication	Vol. No. & Page No	Year Published:
1	R Khan, I Rabbi,+ U Farooq, J Khan, F Alturise	Computers, Materials & Continua 84 (1)	<u>Detection and Classification of Fig Plant Leaf Diseases Using Convolution Neural Network.</u>		2025
2	AU Din, I Rabbi, U Farooq, J Khan, Y Jung	Humanities and Social Sciences Communications 12 (1), 1-15	<u>The development and evaluation of an automatic clitic generator for Pashto language</u>		2025
3	A Hussain, U Farooq, I Rabbi	Journal of Informatics and Web Engineering 4 (2), 262-274	<u>FACILITATING DIGITAL EXPERIENCE SHARING AMONG VEHICLES THROUGH UTILISATION OF PRE-EXISTING COMMUNICATION INFRASTRUCTURE</u>		2025
4	T Ahmad, A Bibi, U Farooq, I Rabbi	JOURNAL OF INFORMATICS AND WEB ENGINEERING 3 (2), 105-115	<u>A BILINGUAL IMMERSIVE ENVIRONMENT FOR KIDS LEARNING</u>		2024
5	Habeeb Balogun, Hafiz Alaka, Eren Demir, Christian Nnaemeka Egwim, Godoyon Ebenezer Wusu, Wasiu Yusuf, Muideen Adegoke, Iqbal Qasim	Scientific Reports 15 (1), 22152	<u>Deconstructability prediction for building using machine learning and ensemble feature selection techniques</u>		2025
6	<u>Shumaila Khan, Iqbal Qasim, Wahab Khan, Khursheed Aurangzeb, Javed Ali Khan, Muhammad Shahid Anwar</u>	Expert Systems	A NOVEL TRANSFORMER ATTENTION-BASED APPROACH FOR SARCASM DETECTION	https://doi.org/10.1111/exsy.13686	2024
7	Shumaila Khan, Iqbal Qasim , Wahab Khan, Aurangzeb Khan, Javed Ali Khan, Ayman Qahmash, Yazeed Yasin Ghadi	PLOS One	An automated approach to identify sarcasm in low-resource language	https://doi.org/10.1371/journal.pone.0307186	2024
8	Muhammad Bilal, Mahmood Alam, Deepa Bapu, Stephan Korsgen, Neeraj Lal, Simon Bach, Amir M Hajivanand, Muhammed Ali, Kamran Soomro, Iqbal Qasim, Paweł Capik, Aslam Khan, Zaheer Khan, Hunaid Vohra, Massimo Caputo, Andrew Beggs, Adnan Qayyum, Junaid Qadir, Shazad Ashraf	arXiv preprint arXiv:2502.06708	<u>TEMSET-24K: Densely Annotated Dataset for Indexing Multipart Endoscopic Videos using Surgical Timeline Segmentation</u>		2025

9	Muhammad Javed	Dialogue Social Science Review (DSSR)	Impact of Missing Values on Machine Learning Classification Using a Mean Imputation Strategy	https://thedssr.com/index.php/2/article/view/580	2025
10	Muhammad Javed	Kashf Journal of Multi disciplinary Research	A deep learning approach to Optimizing COVID-19 Mortality predictions With recurrent Neural networks (RNNs).	DOI: https://doi.org/10.71146/kjmr243	2025
11	Muhammad Javed	Evincepub Publishing.	Basic concepts of artificial intelligence. In B. Tripathy, R. Mandal, & S. Raha (Eds.), Artificial intelligence in classroom teaching (pp. 1–42)		2025
12	Muhammad Javed	Journal Of Multi disciplinary Research	Chemical and physical frontiers in high-temperature superconductivity	, 2(2), 112–126	2025
13	Muhammad Javed	Pakistan Journal Of Scientific Research	Optimizing malicious website Detection through comparative analysis of machine learning techniques.	4(1), 147–161	2024
14	F Malik, M Suliman, AU Rahman, R Hussain, M Javed, A Ullah, A Khalid	Dialogue Social Science Review (DSSR) 3 (6), 221-242	<u>Impact of Missing Values on Machine Learning Classification Using a Mean Imputation Strategy</u>		2025
15	MQ Khan, F Malik, A Khalid, D Khan, A Ullah, R Hussain, M Javed	Kashf Journal of Multidisciplinary Research 2 (04), 1-30	<u>REAL-TIME GENDER AND EMOTION RECOGNITION USING OPTIMIZED DUAL-PATH CNN ARCHITECTURE FOR ENHANCED HUMAN-COMPUTER INTERACTION</u>		2025
16	MDAH Sany, Z Khan, H Ullah, A Khan, A Rahman, M Javed	Kashf Journal of Multidisciplinary Research 2 (02), 112-126	<u>CHEMICAL AND PHYSICAL FRONTIERS IN HIGH-TEMPERATURE SUPERCONDUCTIVITY</u>		2025
17	FMF Malik, H Ullah, A Ullah, SK Shah, R Hussain, M Javed	Kashf Journal of Multidisciplinary Research 2 (01), 230-249	<u>A DEEP LEARNING APPROACH TO OPTIMIZING COVID-19 MORTALITY PREDICTIONS WITH RECURRENT NEURAL NETWORKS (RNNs)</u>		2025
18	M Javed, S Ilyas	Rooh-e-Tahqeeq 2 (4)	<u>ROLE OF POETRY AND LITERATURE IN MEDIA PAST AND PRESENT</u> : دور الشعر والأدب في وسائل الإعلام قديماً وحديثاً		2024
19	Fazal Malik, Muhammad Suliman, Muhammad Qasim Khan, Noor Rahman, Khairullah Khan, Muhammad Khan	Journal of Computing & Biomedical Informatics	<u>Optimizing malicious website detection with the XGBoost machine learning approach</u>		2024
20	U Zada, H Ullah, AR Ghumman, M Khan, M Haris, MUG Javed	International Journal	<u>Investigation of the Mechanical Attributes of Porous Concrete and its Performance Analysis Using Superplasticizers</u>		2024
21	Asif Khan, Khairullah Khan, Wahab Khan, Sadiq	Journal of Informatics and Web Engineering.	Knowledge-based Word Tokenization System for Urdu	Vol. 3 No. 2 (June 2024)	2024

	Nawaz Khan, Rafiul Haq				
22	Bibi Saqia; Khairullah Khan; Atta Ur Rahman; Sajid Ullah Khan; Mohammed Alkhowaiter; Wahab Khan	IEEE Access	Enhancing Immoral Post Detection on Social Networks Using Knowledge Graph and Attention-Based BiLSTM Framework	10.1109/ACCESS.2024.3504258	2024
23	<u>Muhammad Ali Aslam,</u> <u>Khairullah Khan,</u> <u>Wahab Khan,</u> <u>Sajid Ullah Khan,</u> <u>Abdullah Albanyan &Shabbab Ali Algamdi</u>		Paraphrase detection for Urdu language text using fine-tune BiLSTM framework	https://doi.org/10.1038/s41598-025-93260-6	2025
24	Atta ur Rehman, Khairullah Khan, Bibi Saqia	International Journal of Data Mining, Modelling and Management	Identifying Immoral Posts on Social Media Platforms: A Review	Vol 17(3)	2025
25	Ashraf UllahID1 *, Khair Ullah Khan1 , Aurangzeb Khan1 , Sheikh Tahir Bakhsh2 , Atta Ur Rahman3 , Sajida Akbar1 , Bibi Saqia1	PLOS One	Threatening language detection from Urdu data with deep sequential model	https://doi.org/10.1371/journal.pone.0290915	2024
26	R Iqbal, K Khan, S Ullah, NU Shah, I Ahmed	Kashf Journal of Multidisciplinary Research 2 (06), 255-264	DETECTING FAKE NEWS ON SOCIAL MEDIA USING DEEP LEARNING MODEL		2025
27	B Saqia, Khairullah Khan, AU Rahman, A Khan, DK Jain	Multimedia Tools and Applications, 1-20	Immoral post detection using a one-dimensional convolutional neural network-based LSTM network		2025
28	Shoukat Ullah, Aurangzeb Khan, Khairullah Khan, Aman Ullah	Kashf Journal of Multidisciplinary Research	EVOLUTION OF SENTIMENT ANALYSIS IN REVIEWS FOR INTELLIGENT PRODUCT RECOMMENDATIONS		2025
29	B Saqia, K Khan, AU Rahman, W Khan	International Journal of Data Informatics and Intelligent Computing 3 (4), 62-76	Contextual Analysis of Immoral Social Media Posts Using Self-attention-based Transformer Model		2025
30	B Saqia, K Khan, AU Rahman, W Khan	International Journal of Data Informatics and Intelligent Computing	<u>Deep Learning-Based Identification of Immoral Posts on Social Media Using Fine-tuned Bert Model</u>		2025
31	Fazal Malik, Muhammad Suliman, Muhammad Qasim Khan, Noor Rahman, Khairullah Khan, Muhammad Khan	Journal of Computing & Biomedical Informatics	<u>Optimizing malicious website detection with the XGBoost machine learning approach</u>		2024
32	SK Shah, MBM Su'ud, A Khan, MM Alam, M Ayaz	Engineering Reports 7 (7), e70178	<u>PLDC-Net: Potato Leaf Disease Classification Network Based on an Efficient Convolutional Neural Network</u>		2025
33	A Hameed, SK Shah, SU Khan, S Alanazi,	International Journal of Imaging Systems	<u>Dermatology 2.0: Deploying YOLOv11 for Accurate and Accessible Skin</u>		2025

	SA Algamdi	and Technology 35 (2), e70050	<u>Disease Detection: A Web-Based Approach</u>		
34	M Toseef, A Khan, K Ullah, S Ahmad, I Hussain, SK Shah	Dialogue Social Science Review (DSSR) 3 (2), 103-116	<u>Enhancing Breast Cancer Diagnosis Through Virtual Biopsy and Machine Learning</u>		2025
35	Ayman Qahmash Muhammad Khalid Hamid, Said Khalid Shah, Ghassan Husnain, Yazeed Yasin Ghadi, Shahab Ahmad Al Maaytah	EngineeringReports	<u>Enhancing Agricultural Disease Detection: A Multi-Model Deep Learning Novel Approach</u>		2025
36	M Suliman, F Malik, MQ Khan, A Ullah, N Rahman, SK Shah	VAWKUM Transactions on Computer Sciences 12 (2), 264-284	<u>A Convolutional Neural Network (CNN) Based Framework for Enhanced Diagnosis and Classification of COVID-19 Pneumonia</u>		2024
37	U Khan, S Khan, S Mussiraliyeva, NA Samee, M Alabdulhafith, K Shah	Neural Computing and Applications, 1-16	<u>Empowering privacy and resilience: a decentralized federated learning approach to cyberbullying detection</u>		2024
38	F Khan, S Sattar, SM Zaid, M Bilal, M Ilyas, SK Shah, M Ayaz	Int. J. Innov. Sci. Technol	<u>'Enabling early treatment: A deep learning approach to MultiClass potato leaf disease identification</u>		2024
39	Said Khalid Shah Muhammad Suliman, Fazal Malik, Muhammad Qasim Khan, Ashraf Ullah, Noor Rahman	VAWKUM Transactions on Computer Sciences	<u>A Convolutional Neural Network (CNN) Based Framework for Enhanced Diagnosis and Classification of COVID-19 Pneumonia</u>		2024
40	AU Din, I Rabbi, U Farooq, J Khan, Y Jung	Humanities and Social Sciences Communications 12 (1), 1-15	<u>The development and evaluation of an automatic clitic generator for Pashto language</u>		2025
41	Asif Khan, Khairullah Khan, Wahab Khan, Sadiq Nawaz Khan, Rafiul Haq	Journal of Informatics and Web Engineering.	Knowledge-based Word Tokenization System for Urdu	Vol. 3 No. 2 (June 2024)	2024
42	Shumaila Khan, Iqbal Qasim, Wahab Khan, Khursheed Aurangzeb, Javed Ali Khan, Muhammad Shahid Anwar	Expert Systems	A novel transformer attention-based approach for sarcasm detection	https://doi.org/10.1111/eaxy.13686	2024
43	Bibi Saqia; Khairullah Khan; Atta Ur Rahman; Sajid Ullah Khan; Mohammed Alkhowaiter; Wahab Khan	IEEE Access	Enhancing Immoral Post Detection on Social Networks Using Knowledge Graph and Attention-Based BiLSTM Framework	10.1109/ACCESS.2024.3504258	2024
44	Shumaila Khan, Iqbal Qasim, Wahab Khan, Aurangzeb Khan, Javed Ali Khan, Ayman Qahmash, Yazeed Yasin Ghadi	PLOS One	An automated approach to identify sarcasm in low-resource language	https://doi.org/10.1371/journal.pone.0307186	2024
45	Muhammad Ali	Scientific Reports	Paraphrase detection for Urdu language		2025

	Aslam, Khairullah Khan, Wahab Khan, Sajid Ullah Khan, Abdullah Albanyan & Shabbab Ali Algamdi		text using fine-tune BiLSTM framework	https://doi.org/10.1038/s41598-025-93260-6	
46	Shumaila, Iqbal Qasim, Wahab Khan	JMIR Bioinformatics and Biotechnology	Ethnic-Specific Mutation Frequency Databases: A Systematic Review of Genetic Diversity and Its Implications for Genetic Disorders		2025

Department: Economics

SN	Name of Faculty	Name of Journal	Title of Research Article	Vol, Issue & Page Nos	Year
1	Dr. Abdur Rauf	The Geographical Journal	The troika of energy consumption, economic growth, and CO2 emission: Quantile regression evidences for five Asian economies	90(3)	Dec. 2023
2	Dr. Abdur Rauf	Resources Policy	Natural resource endowment and human development: Contemporary role of governance	Vo.81-103334	Marc. 2023
3	Dr. Abdur Rauf	Resources Policy	Critical metals in uncertainty: How Russia-Ukraine conflict drives their prices?	Vol.85, Part B. 104000	Aug.2023
4	Dr. Abdur Rauf	Resources Policy	Effect of geopolitical risk on resources prices in the global and Russian-Ukrainian context: A novel Bayesian structural model.	Vo. 88-104536	Jan. 2024
5	Dr. Abdur Rauf	Romanian Journal of Economic Forecasting	Green Finance and Industrial Optimization: Pathways to Financial Development and Sustainable Goals in Europe	vol. 0(2), pages 111-126	July. 2024
6	Dr. Abdur Rauf	Climate Risk Management	Behind the floodwaters: Violence against women and disaster management capacities in flood affected areas of Pakistan	<u>Volume 46</u>	Sep. 2024
7	Dr. Abdur Rauf	Romanian Journal of Economic Forecasting	Green Financing Strategies and Policy Interventions: Driving Sustainable Development in Europe's Largest Economies.	vol. 0(3), pages 161-178,	Oct. 2024

Department: Electrical Engineering

SN	Name of Faculty	Name of Journal	Title of Research Article	Vol, Issue & Page Nos	Year
1	Liaqat Ali	Neurocomputing	ChiGa-Net: A genetically optimized neural network with refined deeply extracted features using χ^2 statistical score for trustworthy Parkinson's disease detection	Volume 624, Page 129450	22 May 2025
2	Liaqat Ali	IEEE Sensors Journal	Handwriting-Based Detection of Schizophrenia and Bipolar Disorder Using Machine Learning	Vol 25, Issue 5, pp 9113–9120	March 1, 2025
3	Liaqat Ali	Scientific Reports	<u>Parkinson's disease detection based on features refinement through L1 regularized SVM and deep neural network</u>	Volume 14, Issue 1, Article No. 1333	January 16, 2024
4	Liaqat Ali	Complex & Intelligent Systems	CNN-GRU-FF: a double-layer feature fusion-based network intrusion detection system using convolutional neural network and gated recurrent units	Vol 10, No 3 (2024) — pp 3353–3370	February 2, 2024
5	Liaqat Ali	<i>Applied Sciences</i> (MDPI)	<u>Decision support system for predicting mortality in cardiac patients based on machine learning</u>	Vol 13, Issue 8 (2023), Article 5188	August 2023
6	Liaqat Ali	<i>Biomedicines</i> (MDPI)	Early Prediction of Dementia Using Feature Extraction Battery (FEB) and Optimized Support Vector Machine (SVM) for Classification	Vol 11, Issue 2, Article No. 439 (2023)	2 February 2023
7	Liaqat Ali	<i>Journal of Medical Systems</i> (Springer)	Machine Learning for Dementia Prediction: A Systematic Review and Future Research Directions	Vol 47, Article 17 (2023)	1 February 2023

Department: English

SN	Name of Faculty	Name of Journal	Title of Research Article	Vol, Issue & Page Nos	Year
1	Dr Abdul Karim Khan	Journal of Applied Linguistics and TESOL (JALT)	<i>Decolonizing Discourse: Postcolonial Perspective on Language Use and Communication in Finnegans Wake.</i>	Volume: 08 Issue: 01 Pages: 204-212	08.01.2025
		Harf-o-Sukhan	<i>Phonological Variations in Waziri and Marwat Dialects.</i>	Volume: 8 Issue: 03 Pages: 1023-1051	31-12-2024
		Kashf Journal of Multidisciplinary Research	<i>Affect Analysis of Tariq Rahman's "Deaf, Dark, Walls": A Systemic Functional Linguistics Study.</i>	Volume: 01 Issue: 12 Pages: 30-39	28.12.2024
		Contemporary Journal of Social Science Review	<i>Investigating Graphological Parallelism in Tariq Rahman's "Deaf, Dark, Walls".</i>	Volume: 02 Issue: 04 Pages: 2244-2257	31.11.2024
		Harf-o-Sukhan	<i>Contact Analysis of Tariq Rahman's "Deaf, Dark, Walls": A Systemic Functional Linguistics Approach.</i>	Volume: 08 Issue: 03 Pages: 1072-1084	21.11.2024
		Journal of Applied Linguistics and TESOL (JALT)	<i>Phonological Variations in Waziri Dialect in District Bannu.</i>	Volume: 7 Issue: 04 Pages: 970-1011	19.11.2024
		Harf-o-Sukhan	<i>Investigating Semantic Deviation in Tariq Rahman's "Deaf, Dark, Walls".</i>	Volume: 08 Issue: 02 Pages: 1626-1637	30.09.2024
		Jahan-e-Tahqeeq	<i>Lexical Variations in Marwat and Waziri Dialects.</i>	Volume: 7 Issue: 03 Pages: 792-812	30.09.2024
		Jahan-e-Tahqeeq	<i>A Study of Code-switching in Tariq Rahman's "Deaf, Dark, Walls" through Foregrounding.</i>	Volume: 7 Issue: 03 Pages: 832-841	21.08.2024
		Jahan-e-Tahqeeq	<i>Status Analysis of Tariq Rahman's "Deaf, Dark, Walls": A Systemic Functional Linguistics Approach.</i>	Volume: 7 Issue: 02 Pages: 906-916	28.06.2024
Jahan-e-Tahqeeq	<i>Exploring Graphological Parallelism in Shadab Zeest Hashmi's "THE GREEN WALLS."</i>	Volume: 7 Issue: 01 Pages: 1412-1430	28.03.2024		
2	Aziz Ullah Khan	<i>Pakistan Languages and Humanities Review</i>	A Comparative Study of Punjabi and English Word Order: SOV vs SVO	Volume: 07 Issue: 01 Pages: 146-158	09/02/2023

		Journal of Nambian Studies	<i>Struggle for autonomy: A psychoanalytical study of Lawrence's The Stone Angel</i>	Volume: 34 Issue: 01 Pages: 2177-2193	19/06/2023
		Journal of Applied Linguistics and TESOL	<i>A nihilistic and existential exploration of Santiago's struggle in The Old Man and the Sea</i>	Volume: 08 Issue: 02 Pages: 649-654	13/05/2025
		Al-Hayat Research Journal (AHRJ), 2(1)	Discursive constructions of power and class in Mohsin Hamid's <i>Moth Smoke</i> : A critical discourse analysis approach	Volume: 02 Issue: 1 Pages: 35-40	23/10/2025
		Journal of Arts and Linguistics Studies, 2(4), 38.	Farzana Aqib's poem <i>Little Sparta</i> in the Mind's Eye: A cognitive stylistic approach through text world theory	Volume: 02 Issue: 04 Pages: 2453-2464	30/12/2024
		International Research Journal of Arts, Humanities, and Social Sciences (IRJAHSS), 2(2), 63.	<i>Exploring Sara Suleri's Meatless Days through Heidegger's concepts of thrownness, facticity, and authenticity</i>	Volume: 02 Issue: 02 Pages: 759-764	31/03/2025
		International Research Journal of Arts, Humanities, and Social Sciences (IRJAHSS), 2(3).	<i>Framing conflict through language: A text world theory analysis of DG ISPR's 2025 war statements.</i>	Volume: 02 Issue: 03 Pages: 375-383	04/07/2025
		Journal of Applied Linguistics and TESOL	<i>Exploring Farzana Aqib's Chase through Derrida's theory of deconstruction</i>	Volume: 08 Issue: 03 Pages: 30-33	30/06/2025
		Journal of Applied Linguistics and TESOL	<i>Repression and identity crisis in A Passage to India: A Freudian and Lacanian psychoanalytic reading of Adela Quested's Psychological Breakdown</i>	Volume: 08 Issue: 02 Pages: 610-614	09/05/2025
		Contemporary Journal of Social Science Review (CJSSR), 3(1).	<i>Exploring Farzana Aqib's Chase through a Jungian psychoanalytic lens.</i>	Volume: 03 Issue: 01 Pages: 2269-2262	11/03/2025
		Contemporary Journal of Social Science Review (CJSSR)	<i>The beautiful, the good, and the agreeable: Kantian aesthetic layers in Farzana Aqib's Seasons of Heart</i>	Volume: 03 Issue: 02 Pages: 1971-1974	13/06/2025
		AI-Aasar, 2(2), 38	<i>Exploring Farzana Aqib's Down to the Dust through linguistic deviations: A stylistic study</i>	Volume: 02 Issue: 02 Pages: 848-852	10/06/2025
		AI-Aasar	<i>Applying prototype theory to character analysis in Deborah Ellis's The Breadwinner (2001)</i>	Volume: 02 Issue: 02 Pages: 922-	13/06/2025

				925	
		Al-Aasar	<i>Exploring Farzana Aqib's poem Where Am I Gone through syntactic and lexical parallelism</i>	Volume: 01 Issue: 04 Pages: 101-108	19/12/2024
		Al-Aasar	<i>Foregrounding through parallelism: A stylistic analysis of Farzana Aqib's When Will These Walls Go Down</i>	Volume: 02 Issue: 02 Pages: 221-227	17/05/2025
		Contemporary Journal of Social Science Review (CJSSR)	<i>Exploring Farzana Aqib's An Impetus Promise through Heidegger's concepts of thrownness, facticity, and authenticity</i>	Volume: 03 Issue: 01 Pages: 2267-2267	12/03/2025
		Contemporary Journal of Social Science Review (CJSSR)	<i>From soil to soul: A stylistic analysis of phonological parallelism in Farzana Aqib's poem</i>	Volume: 03 Issue: 02 Pages: 1569-1573	09/06/2025
		Journal of Applied Linguistics and TESOL (JALT)	Semantic and lexical parallelism in From Soil to Soul: A stylistic analysis of oppression and resilience	Volume: 08 Issue: 01 Pages: 1911-1912	25/03/2025
		Journal of Arts and Linguistics Studies	A critical discourse analysis of Farzana Aqib's poem Reluctant: Unveiling silence, power, and emotional resistance	Volume: 03 Issue: 02 Pages: 3033-3042	15/06/2025
		Journal of Arts and Linguistics Studies	Building mental worlds in Farzana Agib's Chase: A cognitive stylistic analysis.	Volume: 03 Issue: 02 Pages: 3277-3290	26/06/2025
		Journal of Positive School and Psychology	<i>Unveiling linguistic beauty: A stylistic analysis of Composed Upon Westminster Bridge, September 3, 1802 by William Wordsworth</i>	Volume: 07 Issue: 05 Pages: 1185-1193	06/03/2023
3	Dr Ihsan Ullah Khan	TESOL (JALT) Vol. 7 No. 4 (2024),	Glossing in Sara Suleri's Meatless Days (1989): A Postcolonial Perspective.	Vol. 7 No. 4 (2024)	2024
		Journal of Arts and Linguistics Studies.	2. <i>Farzana Aqib's Poem Little Sparta in the Mind's Eye: A Cognitive Stylistic Approach through Text World Theory.</i>	Volume 2 Issue 4 2024 (Pages 2453-2464).	2024
		AL-AASAR Journal	<i>Psychological Frontiers: Hemingway's For Whom the Bell Tolls and The Old Man and the Sea Through a Jungian Lens.</i>	Vol. 2, No. 2 (2025)	2025

		Research Journal for Social Affairs	The Effect of Innovative Communicative Language Teaching Techniques on Students' English Language Learning: The Case of District Lakki Marwat	02 (04) 2025.(pp 245-261).	2025
		ACADEMIA International Journal for Social Sciences	<i>Exploring the Role of Dialogic Teaching in Improving Learners' L2 Writing Skill at Intermediate Level in District Bannu.</i>	Volume 4, Issue 1, 2025	2025
		Policy Journal of Social Science Review.	<i>Exploring The Concept of Life and Death in Poetry of William Wordsworth, Percy Besseshe Shelley , and Imran Shahid: A Comparative Analysis</i>	Vol.3 No.4 (2025).	2025
		Journal of Social Signs Review	<i>Psychoanalytical interpretation of the Alfred Lord Tennyson's poem "The Two Voices"</i>	Vol. 3 No. 05 (2025).	2025
		Journal for Current Sign	<i>Exploring Tariq Rahman 's' 'Frenemies' Through Leech And Short's Framework Of Narrative Viewpoint: A Stylistic Analysis.</i>	Vol.3 No.2 (2025).	2025
		Journal of Social Sciences Research & Policy (JSSRP).	<i>Analyzing and Comparing The Poetry of William Wordsworth and Ghani Khan: An Eco-critical Perspective.</i>	Vol.3,No.2(2025)Pages:16 9-177	2025
		AL-AASAR Journal.	<i>EXPLORING FARZANA AQIB'S DOWN TO THE DUST THROUGH LINGUISTIC DEVIATIONS: A STYLISTIC STUDY.</i>	Vol. 2, No. 2(2025).	2025
		CONTEMPORARY JOURNAL OF SOCIAL SCIENCE REVIEW.	<i>EXPLORING FARZANA AQIB'S CHASE THROUGH A JUNGIAN PSYCHOANALYTIC LENS</i>	Vol.03 No.01(2025).	2025
		CONTEMPORARY JOURNAL OF SOCIAL SCIENCE REVIEW.	<i>EXPLORING FARZANA AQIB'S AN IMPETUS PROMISE THROUGH HEIDEGGER'S CONCEPTS OF THROWNNESS, FACTICITY, AND AUTHENTICITY.</i>	Vol.03 No.01(2025).	2025
		Journal of Asian Development Studies.	<i>Comparative Analysis of "The Hunger Artist" by Franz Kafka and "The Happy Prince" by Oscar Wilde: Postmodernist Perspective.</i>	Vol 14, Issue 2 (June 2025).	2025
		AL-AASAR Journal.	<i>EXPLORING FARZANA AQIB'S POEM WHERE AM I GONE THROUGH SYNTACTIC AND LEXICAL PARALLELISM</i>	Vol. 1 No. 4 (2024):	2024

Department : English

S N	Author's Name	Title	Journal	Year of Publication	Vol /Issue No
4	Mr. Aziz Ullah Khan	Building mental worlds in Farzana Agib's Chase: A cognitive stylistic analysis.	Journal of Arts and Linguistics Studies,	2025	Vol. 3(2).
		Exploring Farzana Aqib's Down to the Dust through linguistic deviations: A stylistic study.	Al-Aasar,	2025	Vol. 2(2)
		Applying prototype theory to character analysis in Deborah Ellis's The Breadwinner (2001). Al-Aasar, 2(2), 922-925.	Al-Aasar,	2025	Vol.2(2)
		Exploring Farzana Aqib's Chase through Derrida's theory of deconstruction.	Journal of Applied Linguistics and TESOL	2025	Vol.8(3).
		A critical discourse analysis of Farzana Agib's poem Reluctant: Unveiling silence, power, and emotional resistance.	Journal of Arts and Linguistics Studies,	2025	Vol.3(2)
		Repression and identity crisis in A Passage to India: A Freudian and Lacanian psychoanalytic reading of Adela Quested's psychological breakdown.	Journal of Applied Linguistics and TESOL (JALT),	2025	Vol.8(2)
		From soil to soul: A stylistic analysis of phonological parallelism in Farzana Aqib's poem.	Contemporary Journal of Social Science Review (CJSSR),	2025	Vol. 3(2)
		Exploring Farzana Aqib's Chase through a Jungian psychoanalytic lens.	Contemporary Journal of Social Science Review (CJSSR),	2025	Vol.3(1).
		A nihilistic and existential exploration of Santiago's struggle in The Old Man and the Sea.	Journal of Applied Linguistics and TESOL,	2024	2(1)
		Exploring Farzana Aqib's poem Where Am I Gone through syntactic and lexical parallelism.	Al-Aasar Journal,	2025	4(26).

		Exploring Farzana Aqib's An Impetus Promise through Heidegger's concepts of thrownness, facticity, and authenticity.	Contemporary Journal of Social Science Review (CJSSR),	2025	3(1).
		Semantic and lexical parallelism in From Soil to Soul: A stylistic analysis of oppression and resilience.	Contemporary Journal of Social Science Review (CJSSR),	2025	3(2).
		Farzana Agib's poem Little Sparta in the Mind's Eye: A cognitive stylistic approach through text world theory.	Journal of Arts and Linguistics Studies,	2024	2(4)
		Foregrounding through parallelism: A stylistic analysis of Farzana Aqib's When Will These Walls Go Down.	Al-Aasar,	2025	2(2)
		Glossing in Sara Suleri's Meatless Days (1989): A postcolonial perspective.	Journal of Applied Linguistics and TESOL	2024	7(4)
		The beautiful, the good, and the agreeable: Kantian aesthetic layers in Farzana Aqib's Seasons of Heart.	Contemporary Journal of Social Science Review	2025	3(2).
		Discursive constructions of power and class in Mohsin Hamid's Moth Smoke: A critical discourse analysis approach.	Al-Hayat Research Journal	2024	2(1)
		A stylistic analysis of Farzana Aqib's poetry through parallelism and deviation. (Working title; details TBD if applicable)		2025	
5	Dr. Abdul Karim Khan	Exploring Graphological Parallelism in Shadab Zeest Hashmi's "THE GREEN WALLS.	Jahan-e-Tahqeeq,	2024	Vol.7(1)
		Phonological Variations in Waziri Dialect in District Bannu.	Journal of Applied Linguistics and TESOL	2024	Vol.7(4)
		Lexical Variations in Marwat and Waziri Dialects.	Jahan-e-Tahqeeq,	2024	Vol.7(3)
		Phonological Variations in Waziri and Marwat Dialects.	Harf-o-Sukhan,	2024	Vol.8(3)

		Status Analysis of Tariq Rahman's "Deaf, Dark, Walls": A Systemic Functional Linguistics Approach.	Jahan-e-Tahqeeq,	2024	Vol.7(2)
		A Study of Code-switching in Tariq Rahman's "Deaf, Dark, Walls" through Foregrounding.	Jahan-E-Tahqeeq,	2024	Vol.7(3)
		Affect Analysis of Tariq Rahman's "Deaf, Dark, Walls": A Systemic Functional Linguistics Study. Multidisciplinary Research,	Kashf Journal of	2024	Vol.(12), 30-39.
		Investigating Semantic Deviation in Tariq Rahman's "Deaf, Dark, Walls".	Harf-o-Sukhan,	2024	Vol.8(2)
		Contact Analysis of Tariq Rahman's "Deaf, Dark, Walls": A Systemic Functional Linguistics Approach.	Harf-o-Sukhan,	2025	Vol.8(3)
		Investigating Graphological Parallelism in Tariq Rahman's "Deaf, Dark, Walls".	Contemporary Journal of Social Science Review,	2025	Vol.2(04)
		Decolonizing Discourse: Postcolonial Perspective on Language Use and Communication in Finnegans Wake.	Journal of Applied Linguistics and TESOL	2025	Vol.8(1)
		Khan, A. K.(2025). Tracing Meaning Through Sound: A Stylistic Analysis of Farzana Aqib's Chase.	Journal of Applied Linguistics and TESOL	2025	8(2)
6	Dr. Ihsan Ullah Khan	Glossing in Sara Suleri's Meatless Days (1989): A Postcolonial Perspective.	Journal of Applied Linguistics and TESOL	2024	Vol. 7 No. 4
		Farzana Aqib's Poem Little Sparta in the Mind's Eye: A Cognitive Stylistic Approach through Text World Theory.	Journal of Arts and Linguistics Studies.	2024	Volume 2 Issue 4
		Psychological Frontiers: Hemingway's For	AL-AASAR Journal.	2025	Vol. 2, No. 2

		Whom the Bell Tolls and The Old Man and the Sea Through a Jungian Lens.			
		The Effect of Innovative Communicative Language Teaching Techniques on Students' English Language Learning: The Case of District Lakki Marwat.	Research Journal for Social Affairs,	2025	02 (04)
		Exploring the Role of Dialogic Teaching in Improving Learners' L2 Writing Skill at Intermediate Level in District Bannu.	ACADEMIA International Journal for Social Sciences	2025	Volume 4, Issue 1
		Exploring The Concept of Life and Death in Poetry of William Wordsworth, Percy Besseshe Shelley , and Imran Shahid: A Comparative Analysis.	Policy Journal of Social Science Review.	2025	Vol.3 No.4 (2025).
		Psychoanalytical interpretation of the Alfred Lord Tennyson's poem "The Two Voices".	Journal of Social Signs Review.	2025	Vol. 3 No. 05
		Exploring Tariq Rahman 's' Frenemies' Through Leech And Short's Framework Of Narrative Viewpoint:	A Stylistic Analysis. Journal for Current Sign.	2025	Vol.3 No.2
		Analyzing and Comparing The Poetry of William Wordsworth and Ghani Khan: An Eco-critical Perspective.	Journal of Social Sciences Research & Policy	2025	Vol.3,No.2
		EXPLORING FARZANA AQIB'S DOWN TO THE DUST THROUGH LINGUISTIC DEVIATIONS: A STYLISTIC STUDY.	AL-AASAR Journal.	2025	Vol. 2, No. 2
		EXPLORING FARZANA AQIB'S CHASE THROUGH A JUNGIAN PSYCHOANALYTIC LENS.	CONTEMPORARY JOURNAL OF SOCIAL SCIENCE REVIEW.	2025	Vol.03 No.01
		EXPLORING FARZANA AQIB'S AN IMPETUS PROMISE THROUGH HEIDEGGER'S CONCEPTS OF THROWNNESS, FACTICITY, AND	CONTEMPORARY JOURNAL OF SOCIAL SCIENCE REVIEW.	2025	Vol.03 No.01

		AUTHENTICITY.			
		Comparative Analysis of “The Hunger Artist” by Franz Kafka and “The Happy Prince” by Oscar Wilde: Postmodernist Perspective.	Journal of Asian Development Studies.	2025	Vol 14, Issue 2

Students’ Research Contribution:

Performance Measures/Author’s Name	Title	Journal	Year of Publication	Vol /Issue No
Mr. Fahim Ullah Mr. Mehran	The Concept of life and death in poetry of Willum Wordsworth, P.B Shelley and Imran Shahid: A comparative analysis	Policy Journal of Social Science Review	2025	Vol.3 (4)
Sawera Ishaq	Psychoanalytical interpretation of the Alfred Lord Tennyson’s poem “The Two Voices”.	Journal of Social Signs Review	2025	Vol. 3 No. 05
Mehtad Ullah Anis Ur Rehman	Exploring Tariq Rahman’s ‘Frenemies’ Through Leech And Short’s Framework Of Narrative Viewpoint:	A Stylistic Analysis. Journal for Current Sign.	2025	Vol.3 No.2
Abdullah Mansoor	Analyzing and Comparing The Poetry of William Wordsworth and Ghani Khan: An Eco-critical Perspective.	Journal of Social Sciences Research & Policy	2025	Vol.3, No.2
Mehtad Ullah Anis Ur Rehman	Comparative Analysis of “The Hunger Artist” by Franz Kafka and “The Happy Prince” by Oscar Wilde: Postmodernist Perspective.	Journal of Asian Development Studies.	2025	Vol 14, Issue 2

Institute: Education & Research

SN	Name of Faculty	Name of Journal	Title of Research Article	Vol, Issue & Page Nos	Year
1	Dr. Safdar Rehman Ghazi	Dialogue Social Science Review	Availability of ICT Resources for the Research and Supervision Process: Perspectives from the Supervisors' and Supervisee Experiences of Public and Private Universities of Khyber Pakhtunkhwa, Pakistan	3(5), 486-499	2025
2	Dr. Safdar Rehman Ghazi	Dialogue Social Science Review (DSSR)	Alignment between Single National Curriculum (Snc-2022) and Textbooks of English for Grade 5, Published by Khyber Pakhtunkhwa Textbook Board, Pakistan	2(5), 104-117	2024
3	Dr. Safdar Rehman Ghazi	International Journal of Social Science Archives	The Addiction of Mobile Games in Secondary School Students	7(2), 739-751	2024
4	Dr. Safdar Rehman Ghazi	International Journal of Business and Management Sciences	Resilience to Stress by Executive Leaders: A Comparative Study	5(2), 182-191	2024
5	Dr. Safdar Rehman Ghazi	Global Educational Studies Review"	Effect of Mnemonic Instructional Strategy (Keywords) on Students' Memory at Secondary School Level	8(1), 534-540.	2023
6	Dr. Rahmatullah Shah	<i>International Journal of Mobile Learning and Organization</i>	Relationship between mobile application model and teachers' behavior intention. Evidence from 2emerging economy	19(1), 59-86	2025
7	Dr. Rahmatullah Shah	<i>Policy Journal of Social Science Review</i>	Quality of Early Childhood Education in Context of Availability of Learning Facilities and Daily Routine Activities in Public and Private School of Bannu Division.	3(1), 185-198	2025
8	Dr. Rahmatullah Shah	<i>Journal of Social Signs Review</i>	Gender Wise Comparison of Teachers' Professional Characteristics at Secondary School Level	2(4). 481-493.	2024
9	Dr. Rahmatullah Shah	<i>Journal of Psychology, Health and Social Challenge</i>	Examining Physical Facilities and Personality Development in Schools	, 2(2) 101-112	2024
10	Dr. Gulap Shahzada	ProScholar Insights (PSI)	Effect of Multiple Intelligences-Based Teaching on Secondary School Students' Learning Attainments	4(1), 156-165	2025
11	Dr. Gulap Shahzada	Journal of Early Childhood Care and Education (JECCE)	A Study on the Pre-School Teachers' Beliefs about Children's Play at their Pre-school Aged Level	2(7), 99-122	2023
12	Dr. Gulap Shahzada	Frontiers in Education	Does academic motivation contribute to the self-esteem of students at the graduate level? A case study of universities in the southern districts of Khyber Pakhtunkhwa, Pakistan	9 - 2024	2024
13	Dr. Gulap Shahzada	PAKISTAN ISLAMICUS (An International Journal of Islamic and Social Sciences)	PARTICIPATION IN LITERARY ACTIVITIES AND ITS RELATIONSHIP TO STUDENTS' ACADEMIC ACHIEVEMENT AT SECONDARY SCHOOL LEVEL	4(2), 33-40	2024

14	Dr. Gulap Shahzada	Qlantic journal of social sciences and Humanities	Relationship between Emotional Intelligence and Leadership Abilities of Head Teachers of Girls Secondary Schools in District Rahim Yar Khan	5(3), 97-111	2024
15	Dr. Gulap Shahzada	Research Consortium Archive	<i>EARLY CHILDHOOD CARE AND EDUCATION: A COMPARATIVE STUDY R2EGARDING ACCESS AND TEACHING</i>	2(4), 188-195	2024
16	Dr. Uzma Syed Gilani	Journal of Psychology, Health and Social Challenges	TEACHING AIDS AND PHYSICAL FACILITIES IN PRESCHOOL EDUCATION	3(1), 8-12	2025
17	Dr. Uzma Syed Gilani	The Knowledge	QUANTITATIVE ANALYSIS OF ICT'S ROLE IN COMMUNICATION, COLLABORATION, CREATIVITY, AND CRITICAL THINKING: PERSPECTIVES OF STUDENTS AND TEACHERS	4(1), 26-36	2025
18	Dr. Uzma Syed Gilani	Remittances Review	<i>A PERSPECTIVE FROM UNIVERSITY TEACHERS AND STUDENTS ON RELIGIOUS INTOLERANT BEHAVIOR</i>	9(4), 2635-2648	2024

Institute: Management Sciences

SN	Name of Faculty	Name of Journal	Title of Research Article	Vol, Issue & Page Nos	Year
1	Muhammad Niaz Khan	Future Business Journal	Market volatility and crisis dynamics: a comprehensive analysis of U.S., China, India, and Pakistan stock markets with oil and gold interconnections during COVID-19 and Russia-Ukraine war periods	Volume 10, No. 22	2024
2	Dr. M. Niaz Khan	SN Business & economics	The impact of the COVID 19 pandemic on stock market volatility: evidence from a selection of developed and emerging stock markets	Volume 5, Article No.63	2024
3	Dr. M. Niaz Khan	Journal of Economic Integration	Impact of COVID-19 Crisis on Volatility Spillovers across Global Financial Markets: Evidence from Asymmetric GARCH Models	Vol. 39, No. 2	2024
4	Dr. M. Niaz Khan	Journal of Economic Integration	Assessing the Impact of Geopolitical Crises on Global Financial Markets: Insights from the Novel TVP-VAR Model	Vol. 40, No. 1, 29-52	2025
5	Dr. M. Niaz Khan	Journal of Social Research Development	exploring the linkages between green bonds and international financial markets: an international portfolio perspective	<u>Vol. 5 No. 2:</u> <u>JUNE 2024</u>	2024
6	Dr. Ikram Ullah Khan	International Journal of Emerging Markets	The role of digital payments in overspending behavior: a mental accounting perspective	ahead-of-print	2024
7	Dr. Rahman Ullah Khan	Business and Economics Review	FINANCIAL PATTERN OF SMALL AND MEDIUM ENTERPRISES (SMEE) OF PAKISTAN	<u>Vol. 13 No. 4</u> <u>(2021):</u> <u>December</u>	2021
8	Dr. Rahman Ullah Khan	Qualitative Research in Financial Markets	REGULATORY CONSTRAINTS, RESPONSIBILITIES AND CONSULTATION (CRC) FOR LEGAL INSTITUTIONALIZATION OF CRYPTOCURRENCIES IN PAKISTAN	Vol. 16 No. 4, 2024	2024
9	Dr. Rahman Ullah Khan	Journal of Islamic Business and Management	SMART PARTICIPATION CONTRACT MATRIX FOR ISLAMIC BANKS: AN INSTITUTIONAL THEORY PERSPECTIVE	15(01), xx-xx	2025
10	Dr Naveed saif	International Journal of Knowledge and Learning	Knowledge toward employee's behaviour during job insecurity: evidence from four different sectors of developing country context	16-02	2023
11	Dr Naveed saif	Administrative Sciences	Role of Organizational Justice in Linking Leadership Styles and Academics' Performance in Higher	13-04	2023

			Education		
12	Dr Naveed saif	Cognition, Technology & Work	Investigating the dynamic relationship between stigma of fear, discrimination and employees performance among healthcare workers during Covid-19 pandemic	25	2023
13	Mr. Rizwan Ullah	Future Business Journal	<u>Unveiling the optimal factor model in Pakistan: a machine learning approach using support vector regression and extreme gradient boosting algorithms</u>	11(1), 1-20	2025
14	Fahad Nawaz	Business & Economic Review	Kirkpatrick Model and Training Effectiveness: A Meta-Analysis 1982 To 2021	Volume: 14 Issue: 2 Pages: 35-56	2022

Department: Islamic Studies & Research

SN	Name of Faculty	Name of Journal	Title of Research Article	Vol, Issue & Page Nos	Year
1	Dr. Abdul Qadoos	Khairuluma	Comparative and Analytical Study of Al-Sair-ul-Kabir and Geneva Convention about Human Rights in War	Vol:04 Issue:01	2024
		Journal of Religion and Society	A Comparative Study of Grihia Sutra and Islamic Jurisprudence about Marital and Family Laws	Vol:03 Issue: 02	2025
2	Irfan Ullah	Acta Islamica	A Review of the Types of Rennet Availibel in Pakistan in a Shariah Context	Vol: 12, Issue 1	2024
3	Dr Muhammad Fakhar ud Din	International journal of islamic studies & culture	The role of water in achieving food security in islamic economics	V 4. Issue 2, pp225-235	2024
4	Amir Nawaz Khan	BURJIS, UST Bannu	تفسیری ادب پر تجدد پسندانہ اسلوب کے اثرات کا علمی جائزہ (برصغیر پاک و ہند کے تناظر میں)	Vol.11 No.02, Pages: 12-25	2024
		Journal of Religion and Society	AN ANALYTICAL STUDY OF THE POINTS OF CONVERGENCE AND DIVERGENCE IN THE PRINCIPLES OF HADITH BETWEEN MUHADDITHIN (HADITH SCHOLARS) AND FUQAHA (JURISTS)	Vol.03 No.1	2025

Department: Physics

SN	Name of Faculty	Name of Journal	Title of Research Article	Vol, Issue & Page Nos	Year
1	Dr. Imran Khan	Modern Physics Letters A	Mass, charge and centrality dependency of freeze-out parameters in Xe + Xe collisions at 5.44 TeV	Vol. 40 (2025) 2550063 (34 pages)	2025
2	Dr. Imran Khan	Chinese Physics C	Analysis of transverse momentum spectra of protons, deuterons, and tritons in symmetric heavy-ion collisions at 200 GeV at the RHIC	Vol. 49, 014104	2024
3	Dr. Imran Khan	Scientific Reports	Centrality Dependency of Proton, Deuteron, and Triton's Temperatures in Au+Au Collisions at 200 GeV	Vol. 14, 10299	2024
4	Dr. Imran Khan	Arabian Journal for Science and Engineering	Centrality Versus Temperature of Protons, Deuterons, and Tritons in Au + Au Collisions at 54.4 GeV	N/A	2024
5	Dr. Abdul Manan	Journal of Materials Engineering and Performance	Enhanced energy storage characteristics of Bi (Mg _{0.5} Ce _{0.5}) ₀₃ modified (Sr _{0.7} Bi _{0.2})TiO ₃ lead-free ceramics	Vol. 33, Issue 3, 1538-1547	2024
6	Dr. Abdul Manan	International Journal of Applied Ceramic Technology	(K _{0.5} Bi _{0.5})(Mg _{1/3} Nb _{2/3}) ₀₃ -modified Sr _{0.7} Bi _{0.2} TiO ₃ lead-free ceramics for energy storage applications	Vol. 21, Issue 2, 947-956	2024
7	Dr. Abdul Manan	Journal of Materials Science: Materials in Electronics	Photoluminescence properties of Eu ³⁺ and Al ³⁺ -doped Ca ₂ ZnSi ₂ O ₇ red phosphors for plant growth LEDs	Vol. 35, Issue 12, 863	2024
9	Dr. Abdul Manan	International Journal of Applied Ceramic Technology	Dielectric, impedance, and energy storage properties of Bi (Mg _{0.5} Sn _{0.5}) ₀₃ modified Bi _{0.5} Na _{0.5} TiO ₃ based ceramics	Vol. 22, Issue 3, e15030	2025
10	Dr. Abdul Manan	Ceramics International	Enhanced dielectric energy storage properties of PLZST relaxor-antiferroelectric ceramics achieved via phase transition modulation and processing optimization	N/A	2025
11	Dr. Abdul Manan	Ceramics International	Achieving improved dielectric energy storage properties in Na _{0.45} Bi _{0.3825} Sr _{0.085} Er _{0.015} TiO ₃ ferroelectric ceramics via La ₁₃₆ Nb ₀ modification and processing optimization	N/A	2025
12	Dr. Abdul Manan	Journal of the American Ceramic Society	Enhanced electrocaloric effect in BaTiO ₃ -based ceramics over a wide working temperature range by domain engineering	N/A, e20545	2025
13	Dr. Abdul Manan	Journal of the American Ceramic Society	Achieving high electrostrain performance in BNT-based lead-free piezoelectric ceramics modified by Sr (Sn _{0.5} Ta _{0.4}) ₀₃	Vol. 108, Issue 8, p.e20595	2025
14	Dr. Abdul Manan	International Journal of Applied Ceramic Technology	Structural, dielectric, electrical, and energy storage properties of Mn-doped Ba _{0.55} Sr _{0.45} TiO ₃ ceramics	Vol. 21, Issue 5, 3413-3421	2024
15	Dr. Abdul Manan	International Journal of Applied Ceramic Technology	Achievement of high energy density and efficiency in Bi (Mg _{0.5} Hf _{0.5}) ₀₃ modified Ba _{0.55} Sr _{0.45} TiO ₃ ceramics	N/A, e70004	2025
16	Dr. Abdul	Computational and	A DFT study to explore structural,	Vol. 1240,	2024

	Manan	Theoretical Chemistry	electronic, optical and mechanical properties of lead-free Na ₂ MoXO ₆ (X=Si, Ge, Sn) double perovskites for photovoltaic and optoelectronic applications	114834	
17	Dr. Dil Faraz Khan	Computational Materials Science	Site preference and elastic properties of L21 -Ni ₂ TiAl doped with refractory metal elements from first principles	Vol. 232, 112594	2024
18	Dr. Dil Faraz Khan	International Journal of Modern Physics B	First-principles investigation of structural, electronic and thermoelectric properties of SmMg ₂ X ₂ (X=P, As, Sb, Bi) zintl compounds	N/A	2024
19	Dr. Dil Faraz Khan	Journal of Rare Earths	Electronic and thermoelectric properties of YbMg ₂ X ₂ (X=P, As, Sb, Bi) zintl compounds by first-principles method	Vol. 42, Issue 1, 147-154	2024
20	Dr. Dil Faraz Khan	Jordan Journal of Physics	Thermodynamic Analysis of Al-Ni, Al-Cu Alloys System Using Calphad Method	Vol. 17, Issue 1, 35-43	2024
21	Dr. Dil Faraz Khan	Journal of Steel Research International	Homogenization Treatment and Plastic Deformation Improve the Carbide Homogeneity of M42 High-Speed Steel	Vol. 59, Issue 9, DOI: 10.1002/srin.202400205	2024
22	Dr. Dil Faraz Khan	Journal of Acta Scientiae	Thermodynamic Properties of Binary Alloy System (Fe-V) Using Calphad Method	Vol. 07, Issue 2, 473-482	2024
23	Dr. Dil Faraz Khan	International Journal of Minerals, Metallurgy and Materials	Unveiling the Cellular Microstructure-Property Relations in Martensitic Stainless Steel via Laser Powder Bed Fusion	Vol. 31, Issue 11, 2476-2487	2024
24	Dr. Dil Faraz Khan	Journal of Alloys and Compounds	Screening the TiZrHfNbVMoTa refractory high-entropy alloys with multi-property constraints	N/A, 179284	2025
25	Dr. Dil Faraz Khan	Ceramics International	Enhancing thermal conductivity of aluminum nitride ceramics through control of oxygen impurities and heavy rare earth doping: A first-principles and experimental study	N/A	2025
26	Dr. Aman Ullah	Ceramics International	Large electrostrictive response via tailoring ergodic relaxor state in Bi _{1/2} Na _{1/2} TiO ₃ -based ceramics with Bi (Mn ^{1/2} Ce ^{1/2})O ₃ end-member.	Vol. 50, no. 6, 8790-8799	2024
27	Dr. Aman Ullah	Chemical Engineering Journal	Mapping the low tolerance factor Bi (Li ^{1/3} Zr ^{2/3})O ₃ end member and MPB composition nexus in Bi _{1/2} Na _{1/2} TiO ₃ -based ceramics.	Vol. 485, 150087	2024
28	Dr. Aman Ullah	International Journal of Modern Physics B	Dissociation of CO ₂ in non-thermal atmospheric pressure planer dielectric barrier discharge.	Vol. 38, no. 04, 2450062	2024
29	Dr. Naseeb Ullah	Modern Physics Letters A	Mass, charge and centrality dependency of freeze-out parameters in Xe+Xe collisions at 5.44 TeV	Vol. 40 (2025) 2550063 (34 pages)	2025
30	Dr. Naseeb Ullah	Chinese Physics C	Analysis of transverse momentum spectra of protons, deuterons, and tritons in symmetric heavy-ion collisions at SNN=200 GeV at the RHIC	Vol. 49, 014104	2024
31	Dr. Naseeb Ullah	Physica Scripta	Analysis of charged hadrons' transverse momentum distributions in p+Pb and Xe+Xe collisions at LHC	Vol. 99 (3), 035022	2024

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32	Dr. Naseeb Ullah	The European Physical Journal Plus	Tsallis fits of K^* (892) ⁰ and $\varphi(1020)$ ⁰ mesons in P-Pb collisions	Vol. 139 (1), 88	2024
34	Dr. Naimat Ullah	Inorganic Chemistry (likely, as per KISTI ScienceON)	The lead-free double perovskites X ₂ CuBiF ₆ (X= Na, Cs): A promising class of materials for optoelectronic applications	Volume 164 (estimated)	2024
35	Dr. Naimat Ullah	Journal of Materials Science: Materials in Electronics (likely, based on similar papers by authors)	Investigation of a new group of low band-gap semiconducting double perovskite K ₂ MgSnZ ₆ (Z = Cl, Br, & I) materials and their structural, electronic, mechanical, and optical behaviors via DFT study	Not specified in public search	2024
37	Dr. Naimat Ullah	Computational and Theoretical Chemistry	A DFT study to explore structural, electronic, optical and mechanical properties of leadfree Na ₂ MoXO ₆ (X=Si, Ge, Sn) double perovskites for photovoltaic and optoelectronic applications	Vol. 1240, 114834	2024
38	Dr. Naimat Ullah	Physica Scripta	Enchanting optical, electronic, and mechanical properties of the sodium based Na ₂ MgSiZ ₆ (Z= I, Br, Cl) halides have been explored through DFT	Not specified in public search	2024
39	Dr. Naimat Ullah	Optical and Quantum Electronics	Theoretical insight into stabilities and optoelectronic properties of RbZnX ₃ (X= Cl, Br) halide perovskites for energy conversion applications.	Vol. 57, Issue 1, 109	2025
40	Dr. Naimat Ullah	Inorganic Chemistry Communications	Evaluating A ₂ SrGeI ₆ (A=K and Rb) Lead-Free double Perovskites: Structural, Elastic, and optoelectronic insights for clean energy.	Vol. 174, 113949	2025
41	Dr. Naimat Ullah	Journal of Electronic Materials (likely, based on similar papers by authors)	DFT-based study of Na ₂ AgAlX ₆ (X= Cl, Br) halide double perovskites: insights from PBEsol, TB-mBJ, and HSE06 calculations for photovoltaic and photocatalytic applications	Not specified in public search	2025
42	Dr. Naimat Ullah	Journal of Inorganic and Organometallic Polymers and Materials (likely, as per Scilit and Google Scholar)	Comprehensive stability assessment and solar cell applications of double oxide perovskites Rb ₂ MoXO ₆ (X= Si, Ge, and Sn): a first-principles study	Not specified in public search	2025
43	Dr. Naimat Ullah	Journal of Sol-Gel Science and Technology	Lead-free, stable, and effective double Ca ₂ TiXO ₆ (X= Ge, Sn) perovskites for photovoltaic application.	1-13	2025
44	Dr. Naimat Ullah	Chemical Papers (likely, as per Crossref)	Comprehensive stability assessment and photovoltaic applications of double halide perovskites K ₂ TlAlX ₆ (X=Cl, Br): a DFT study	Not specified in public search	2025
45	Dr. Farman Ullah	Electrochemistry Communications	Exploration of the structural, optical, and dielectric performance of mg-doped Sr ₂ FeNbO ₆ double perovskite for wireless applications.	107981	2025
46	Dr. Farman Ullah	Surfaces and Interfaces	Systematic Computational Screening and Design of Double Perovskites Q ₂ LiMH ₆ (Q= K, Rb; M= Ga, In, Tl) for Efficient Hydrogen Storage: A DFT and AIMD Approach.	106608	2025
47	Dr. Dr. Farman Ullah	Materials Chemistry and Physics	Synergistic enhancement in PEC hydrogen production using novel GQDs and CuO modified TiO ₂ based heterostructure photocatalyst.	Vol. 340, 130781	2025

48	Dr. Farman Ullah	Heliyon	Numerical study on the prediction of oil recovery rates in unconventional reservoirs at high temperatures using ecologically friendly hybrid nanofluids.	Vol. 11, no. 1	2025
49	Dr. Farman Ullah	ARPN Journal of Engineering and Applied Sciences	Mathematical Modeling of Nanofluid Flow for Enhanced Oil Recovery Under the Effect of the High Temperature.	Vol. 29, Issue 1, 86-101 (based on typical ARPN J. Eng. Appl. Sci. formatting)	2025
50	Dr. Farman Ullah	N/A (Accepted for Publication)	An Improved Mathematical Model for Hypothetical Oil Reservoir for Optimum Oil Recovery using Magnetic nanomaterials	N/A	2025
51	Mr.Asif Nawaz Khan	Computational and Theoretical Chemistry	A DFT study to explore structural, electronic, optical and mechanical properties of leadfree Na ₂ MoXO ₆ (X=Si, Ge, Sn) double perovskites for photovoltaic and optoelectronic applications	Vol. 1240, 114834	2024
52	Mr.Asif Nawaz Khan	Inorganic Chemistry Communications	Evaluating A ₂ SrGeI ₆ (A=K and Rb) Lead-Free double Perovskites: Structural, Elastic, and optoelectronic insights for clean energy.	Vol. 174, 113949	2025
53	Mr.Asif Nawaz Khan	Optical and Quantum Electronics	Theoretical insight into stabilities and optoelectronic properties of RbZnX ₃ (X= Cl, Br) halide perovskites for energy conversion applications.	Vol. 57, Issue 1, 109	2025
54	Mr.Asif Nawaz Khan	Journal of Sol-Gel Science and Technology	Lead-free, stable, and effective double Ca ₂ TiXO ₆ (X= Ge, Sn) perovskites for photovoltaic application.	1-13	2025
55	Mr.Asif Nawaz Khan	Surfaces and Interfaces	Systematic Computational Screening and Design of Double Perovskites Q ₂ LiMH ₆ (Q= K, Rb; M= Ga, In, Tl) for Efficient Hydrogen Storage: A DFT and AIMD Approach.	106608	2025
56	Mr.Asif Nawaz Khan	Physical Chemistry Chemical Physics	Insight into NaSiCl ₃ : a lead-free perovskite for the next generation revealed by DFT and SCAPS-1D.	Vol. 27, Issue 25, 13490-13507	2025
57	Dr. Ibrahim Khan	RSC Advances	Fabrication of Cu-doped iron oxyhydroxide for phosphate removal: A comprehensive spectroscopic, equilibrium, and thermodynamic approach	Volume 15, Issue 7 (Estimated from current year's issues)	2025

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The lead-free double perovskites X ₂ CuBiF ₆ (X= Na, Cs): A promising class of materials for optoelectronic applications

Investigation of a new group of low band-gap semiconducting double perovskite K_2MgSnZ_6 ($Z = Cl, Br, \& I$) materials and their structural, electronic, mechanical, and optical behaviors via DFT study
A DFT study to explore structural, electronic, optical and mechanical properties of leadfree Na_2MoXO_6 ($X = Si, Ge, Sn$) double perovskites for photovoltaic and optoelectronic applications
Enchanting optical, electronic, and mechanical properties of the sodium based Na_2MgSiZ_6 ($Z= I, Br, Cl$) halides have been explored through DFT
Theoretical insight into stabilities and optoelectronic properties of $RbZnX_3$ ($X=Cl, Br$) halide perovskites for energy conversion applications
Evaluating A_2SrGeI_6 ($A= K$ and Rb) Lead-Free double Perovskites: Structural, Elastic, and optoelectronic insights for clean energy
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Fabrication of Cu-doped iron oxyhydroxide for phosphate removal: A comprehensive spectroscopic, equilibrium, and thermodynamic approach
Dissociation of CO ₂ in non-thermal atmospheric pressure planer dielectric barrier discharge
Metrology of Ar-N ₂ /O ₂ Mixture Atmospheric Pressure Pulsed DC Jet Plasma and its Application in Bio-Decontamination
Spectroscopic investigation of atmospheric pressure ‘micro-plasma needle’

Department: Political Science

SN	Name of Faculty	Name of Journal	Title of Research Article	Vol, Issue & Page Nos	Year
1	Dr. Fayyaz Ali	Marine Development	<u>An integrated approach to strengthening maritime security: a case study of Gwadar Port of Pakistan</u>	Vol 2 Issue 1 Pg 14	2024
			<u>Assessing Xi Jinping's vision of modernization and its implications for global trade dynamics: a case study of the Belt and Road Initiative</u>	Vol 12 Issue 1 Pg 106-126- 106-126	2024
			<u>The nexus between climate change and political stability: Security challenges to Pakistan</u>	Vol 3 Issue 2 Pg 41-52	2024
			<u>Social Media Influence on Students Voting Behavior: A Case Study of District Bannu.</u>	Vol 7 Issue 3	2024

Department: Zoology

- Khan, Feroz, Sarmir Khan, Tariq Rahim, Summan Aslam, Azhar Abbas Khan, Malik Niaz Ahmed, Ihsan Ullah, and Rahmat Ali Khan. "Study on ichthyofaunal diversity and physiochemical parameters of Baran Dam, district Bannu Khyber Pakhtunkhwa (KP) Pakistan." *Journal of Advanced Zoology* 45, no. 6 (2024).
- Khan, Fawad, Saira Abbas, Aqsa Nisar, and Nimra Malik. "Ichthyofaunal diversity of kurram river at District Bannu, Khyber Pakhtunkhwa." *Journal of Animal and Plant Research* 1, no. 4 (2024): 10-15.
- Jalander Shah , Ashfaq Ahmad , Hilal Ahmad , Ubaid Ullah , Fayyaz Ahmad , Huma Bahri. "Population Structure And Hunting Of Demoiselle Cranes In District Bannu, Khyber Pakhtunkhwa, Pakistan." *Journal of Population Therapeutics & Clinical Pharmacology*.
- Shah, Mir Sadiq, Fahim Ullah Khan, Muneeba Wali, Autif Hussain Mangi, Zahid Rehman, Zakim Ullah, Junaid Ali et al. "The isolation and characterization of diarrheagenic Escherichia coli strains from sources of meat in Bannu, KP, Pakistan." *Journal of Xiangya Medicine* 9 (2024).

5. Shah, Jalander, Bilal Ahmad, Hira Nawaz, Fahim Ullah Khan, Jadoon Khan, Majid Ayaz, Muhammad Mustafa, and Yafes Ali. "HUNTING OF DEMOISELLE CRANES IN DISTRICT BANNU, KHYBER PAKHTUNKHWA, PAKISTAN." *Journal of Liaoning Technical University* 18, no. 1 (2024): 134-137.
6. Noureen, Fazilat, Fahim Ullah Khan, Adnan Khattak, Razaq Khan, Hashim Khan, Shahid Khan, Shahid Ullah, Arif Ullah, Aamir Khan, and Ali Khan. "The assessment of the douepia tortuosa and horsetail (equisetum arvense) comparative and combine antioxidant potential." *LIAQUAT MEDICAL RESEARCH JOURNAL* 7, no. 1 (2025).
7. Khan, Fahim Ullah, Maria Niazi, Surayia Shahab Rani, Khadija Khattak, Khalid Wahab, Zia UD Din, Osama Alam et al. "The assessment of aristida adscensionis and rumex hypogaeus comparative and combine antioxidant potential." *LIAQUAT MEDICAL RESEARCH JOURNAL* 6, no. 2 (2024).
8. Afzal, Sumera, Laiq Zaman, Shawana Nawaz, Shehzad Zareen, Zaib Un Nisa, Saira Jabeen, Batab Khan, Sumbal Nisar, and Muhammad Wali. "ANTIBACTERIAL POTENTIALS OF ALOE BARBADENSIS MILLER AND CITRUS LIMON PLANT EXTRACTS AGAINST SKIN INFECTING PROPIONIBACTERIUM ACNES: BOTH IN-VITRO AND IN-VIVO ATTEMPTS." *Insights-Journal of Health and Rehabilitation* 3, no. 3 (Health & Rehabilitation) (2025): 166-172.
9. Khan, Feroz, Sarmir Khan, Rahmat Khan, Shafiq ur Rehman, and Ihsan Ullah. "Current position of brucella infection among the hospitalized human population." *LIAQUAT MEDICAL RESEARCH JOURNAL* 6, no. 3 (2024).
10. Din, Zia Ud, Majid Ayaz, Junaid Hussain, Hafsa Anwar, Muhammad Afnan Khattak, Aimal Khan, and Arif Ullah. "The assessment of antioxidant potential of Olea europaea and Ocimum basilicum and their comparative and combine study." (2024). *World Journal of Advanced Research and Reviews*, 2024, 24(01), 1584–1588
11. Khan, Fahim Ullah, Muhammad Afnan Khattak, Majid Ayaz, Naveed Ullah Khan, Muhammad Yasir Shah, Shanab Ali Shah, Yafes Ali Shah et al. "Influence of variants mutations on the progression and outcome of COVID-19 in Pakistan." *Liaquat Medical Research Journal (LMRJ)* 6, no. 1 (2024): 49-58.
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13. Shah, Yafes Ali, Muhammad Yasir Shah, Syed Mujtaba Hassan, Iqra Mumtaz, Qazi Athar Ud Din, Muhammad Sharjeel, Abdullah Rehman, Muhammad Sufyan Khan, and Rasab Javed. "Exploring the Physiological and Biochemical Investigation of Nile Tilapia by Application of Biochars." *Haya Saudi J Life Sci* 10, no. 2 (2025): 26-33.
14. Noor Muhammad , Ali Hamza , Ahmad Ali , Asif Ullah , Muhammad Abideen , Musharaf Khan. EFFECTIVENESS OF METHYLE EUGENOLE AND CUE LURE TRAPS TO ATTRACTED GENUS BACTROCERA (FRUIT FLIES) SPECIES IN PEACH AND PERSIMMON ORCHARDS IN DISTRICT SWAT OF KPK, PAKISTAN. *Journal of Population Therapeutics & Clinical Pharmacology*. Vol. 31 No. 09 (2024): JPTCP (1242-1253)
15. Naz, Sabeela, Niaz Muhammad, Shehzad Zareen, Shawana Nawaz, Bibi Ibtessam Shagufta, Shamim Khan, Hamza Yousaf et al. "ISOLATION, IDENTIFICATION AND ANTIBIOGRAMS OF BACTERIA ISOLATED FROM CUTANEOUS LEISHMANIASIS WOUNDS." *Journal of Medical & Health Sciences Review* 2, no. 2 (2025).
16. Khan, Muhammad Tayyab, Faiz Ur Rehman, Sajida Noreen, Najeeb Ullah, Muhammad Ilyas, Sultan Muhammad, and Zarkish Tariq. "Population Estimation and Habitat Preference of Grey Francolin and Black Francolin Species in Darmalak and Darwazai Game Reserve." *District Kohat, Khyber Pakhtunkhwa Province, Pakistan. INTERNATIONAL JOURNAL OF AGRICULTURE & BIOLOGY*. 2024. 31:129–136
17. Ullah, Farman, Sana Bibi, Muhammad Azam Khan, Umar Rashid, Ali Asgher Shuja, Mir Sadiq Shah, Syed Izhar Ullah Shah, Saba Babar, and Muhammad Atiq Ur Rehman. "A STUDY TO PREDICT PATHOGENIC VARIANTS OF METTL5 GENE CAUSING INTELLECTUAL DISABILITY USING IN-SILICO ANALYSIS." *Journal of Medical & Health Sciences Review* 2, no. 2 (2025).

Department: Electrical Engineering

Title of Paper	Journal/Conference	Year	Author
ChiGa-Net: A genetically optimized neural	Neurocomputing	2025	Liaquat Ali

network with refined deeply extracted features using χ^2 statistical score for trustworthy Parkinson's disease detection			
Handwriting-Based Detection of Schizophrenia and Bipolar Disorder Using Machine Learning	IEEE Sensors Journal	2025	Liaqat Ali
The Role of Artificial Intelligence in Early Diagnosis and Management of Cardiovascular Diseases	Indus Journal of Bioscience Research	2025	Fakhar Anjam

Department/Institute: Visiting Lecturers

SN	Name of Faculty	Name of Journal	Title of Research Article	Vol, Issue & Page Nos	Year
01	Jamil ur Rehman	<i>LIAQUAT MEDICAL RESEARCH JOURNAL</i>	SSESSMENT OF ANTI-MALARIAL POTENTIAL OF ALLIUM SATIVUM AGAINST PLASMODIUM VIVAX	Vol. 5 No. 03 (2023)	30. 09.2023
02	Laiq Zaman	<i>LIAQUAT MEDICAL RESEARCH JOURNAL</i>	SSESSMENT OF ANTI-MALARIAL POTENTIAL OF ALLIUM SATIVUM AGAINST PLASMODIUM VIVAX	Vol. 5 No. 03 (2023)	30. 09.2023
03	Laiq Zaman	<i>PAKISTAN BIOMEDICAL JOURNAL</i>	Impact of COVID-19 on the Sleep and Mental Status of University Students	<u>2023:</u> <u>Volume 06</u> <u>Issue 10</u>	31-10. 2023-
04	Laiq Zaman	<u><i>Journal of Infection and Public Health</i></u>	Detection of linezolid resistance cfr gene among MRSA isolates VIVAX	<u>Volume 15,</u> <u>Issue</u> <u>10, October</u> <u>2022, Pages</u> <u>1142-1146</u>	30. 09.2023
05	Laiq Zaman	<i>Journal of Pharmaceutical Research International</i>	The Assessment of the Allium sativum and Tamarix aphylla Comparative and Combined Antioxidant Potential	<u>Vol. 5 No.</u> <u>03 (2023):</u>	1 July 2022
06	Laiq Zaman	<i>Sindh University Research Journal</i>	The Prevalence of Hepatitis-B and Hepatitis-C Virus Infection in Selected Areas of Northern KP, Pakistan	2791-0547	2024-06-28
07	Laiq Zaman	<u><i>The Research of Medical Science Review</i></u>	BACTERICIDAL POTENTIAL OF SELECTED MEDICINAL PLANTS AGAINST STAPHYLOCOCCUS AUREUS ISOLATED FROM FISH	<i>Volume 3,</i> <i>Issue 5,</i> <i>2025</i>	28 May 2025
08	Laiq Zaman	<i>INSIGHTS-JOURNAL OF HEALTH AND REHABILITATION</i>	ANTIBACTERIAL POTENTIALS OF ALOE BARBADENSIS MILLER AND CITRUS LIMON PLANT EXTRACTS AGAINST PROPIONIBACTERIUM ACNES: BOTH IN-VITRO AND IN-VIVO ATTEMPTS	<i>Volume 3,</i> <i>Issue 5,</i> <i>2025</i>	2025-05-15
09	Laiq Zaman	<u><i>Journal of Medical & Health Sciences Review</i></u>	ISOLATION, IDENTIFICATION AND ANTIBIOGRAMS OF BACTERIA ISOLATED FROM CUTANEOUS LEISHMANIASIS WOUNDS	<i>Volume 3,</i> <i>Issue 5,</i> <i>2025</i>	06-06-2025

ii. Innovation and Commercialization

Office of Research, Innovation and Commercialization (ORIC)

The Office of Research, Innovation and Commercialization (ORIC) was established at University of Science & Technology Bannu for achieving the following objectives:

- To promote research culture by encouraging high quality research among the faculty and students
- To initiate collaborative and interdisciplinary research initiatives
- To identify national and international funding opportunities and assist in submitting and managing research proposals and grants
- To assist in commercialization and patenting of research products

To establish effective academia-industry linkages

Research Projects awarded to University of Science & Technology Bannu during the Year 2024 – 25

S. No	Principal investigator	Project Name	Donor agency	Department
1	Dr. Muhammad Siraj-ud-Din	To Develop a facile and economical method for the synthesis of dinitramidic acid	National Engineering and Scientific Commission Islamabad	Chemistry
2	Dr. Faizan Ullah	Synthesis, characterization and Biological evaluation of <i>Lactuca serriola</i> derived silver nanoparticles	Directorate General of Science and Technology Peshawar	Botany

ORIC Achievements / Performance in the year 2024-25

- Approval was obtained from HEC Islamabad, for arranging 2nd international conference on “Recent Advances in Computing, AI, and Data Science. 21-22 November, 2024.
- Registration of UST, Bannu with National Institutes of Health (NIH) United States of America to fulfill eligibility criteria for applying to research grants
- A MoU was signed with Helping Hand International for the joint conduction of seminars/workshops and involvement of university students in various co-curricular and social activities.
- A MoU was signed with Bannu Medical Collage Bannu for collaboration in academic excellence, teaching, research and co-curricular activities.
- Establishment of Youth Empowerment Club to train students in organizing various social and co-curricular activities.
- ORIC assisted the UNICEF in the celebration of World Immunization Week

iii. University Liaison with Industry

University-industry collaboration is a necessary component of effective research and development, particularly in developing economies that need to translate academic research into real world impact. During the year 2024-2025, the following industries and institutes collaborated in the completion of various research projects.

- Attock Oil Refinery
- Ecolife (Pvt.) Ltd, Islamabad, Pakistan,
- Research Centre College of Pharmacy King Saud University, Saudi Arabia



Memorandum of Understanding between UST, Bannu and Helping Hand International



Memorandum of Understanding between UST, Bannu and Bannu Medical College Bannu

iv. University Building Economies:

The University of Science and Technology Bannu is steadily enhancing its **building economies** through focused infrastructure development and modernization projects. New academic blocks, including advanced laboratories and lecture halls, have been added to support growing student and faculty needs. Solar power systems and water pumping installations have also been introduced to improve sustainability and reduce utility costs. In addition, upgraded research and innovation facilities are helping the university forge stronger industrial partnerships. Overall, UST Bannu's investments in its building economy reflect a commitment to long-term educational excellence and community development.

v. Outreach Activities

University of Science & Technology Bannu has made efforts to connect with and provide services or information to a broader audience, to raise awareness, and deliver community benefits by conducting a series of workshops, seminars and conferences during the year 2024-2025. Moreover, to provide community services, different societies are established.

Workshops/seminars

- Workshop on role of dendrochronology for the determination of climate changes-30/5/2024
- Celebration of World immunization week-30/4/2024
- Awareness session National Financial Literacy program by Allied Bank Ltd-15/11/2024
- One month National outreach program for Higher Education Faculty 31 December, 2024
- Celebration of Youm-E-Tashakkur 28th May, 2025

Conferences

2nd international conference on “recent advances in computing, AI and data science” 21, 22 November, 2024

Societies

- Green Youth Movement Club
- Blood Donor Society
- Society for Awareness about Thalassemia
- Environmental Club
- Youth Empowerment Club

Festivals

- Spring Cultural Festival-2025
- 4th Dosti Peshawar Literature Festival-2025



Oath Taking of Youth Empowerment Club UST, Bannu



Plantation Drive by Green Youth Movement Club



Celebration of world immunization week



4th Dosti Peshawar Literature Festival-2025



Celebration of Youm-E-Tashakkur 28th May, 2025



National Outreach Program for faculty

vi. Other Activities:

In August 2024, Stanford University, in collaboration with Elsevier, published a list of the top 2% of scientists. Fortunately, Dr. Liaqat Ali, Assistant Professor in the Department of Electrical Engineering, has had his contributions to the fields of AI and Signal Processing recognized internationally, and his name is included in the list of the top 2% of scientists worldwide.

(Source: <https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/7>)

Research Activities at Institute of Education & Research:

- 08 Number of research papers published by Ph.D Students.
- 07 Number of research papers published by the Faculty of IER
- 17 M.Phil Students have successfully defended their research proposal
- 18 M.Phil Students have successfully defended their research work
- 06 Ph.D Students have successfully defended their research proposal
- 01 Ph.D Students have successfully defended his research work



Mr. Gul Nawaz Khan and Fanila Bibi defended their M.Phil Theses



Mr. Asif Ali Khan is Defended his PhD Thesis at IER

- Dr. Uzma Syeda Gilani (Lecturer in IER) presented paper having titled “*RESILIENCE TO STRESS BY EXECUTIVE LEADERSHIP AT UNIVERSITY: A COMPARATIVE STUDY*” in 1st International Conference “*Economic Empowerment: Promoting Gender Equality and Inclusion at work*” held at Hazara University, Mansehra, on 25th to 26th June, 2024 and Paper was published in **International Journal of Business and Management Sciences**.
- She also got Certificate of Completion of **IRI International Postdoctoral Fellowship** on 25th April, 2025 at Graduation Ceremony from IRI, IIU, Islamabad.



Dr. Uzma Syeda Gilani is receiving Post Doctorate Certificate at IIU, Islamabad



Dr. Gulap Shahzada is receiving post doctorate certificate at IIU, Islamabad

Research Activities at Institute of Management Sciences:

Dr. MohyUd Din Shah completed his Ph.D in Management sciences from IMS, UST Bannu and marked as the first PhD student of the Institute who completed his PhD under the supervision of Dr. IkramUllah Khan, Assistant Professor, IMSUSTbannu.



Research Activities at the Department of Economics:

During the current academic year, a total of **12 students** presented their research proposals before the **Graduate Research Committee (GRC)**. These sessions were conducted in accordance with the university's academic and research calendar and were aimed at evaluating the feasibility and academic rigor of each proposed research topic.

Out of these 12 students, **4 successfully completed** their research work, finalized their theses, and submitted them for **external evaluation**.



The teachers and students of the **Department of Economics** are actively involved in conducting research. This reflects the importance and quality of the research carried out in the department. The department encourages both faculty and students to continue their research efforts and contribute to academic knowledge and practical solutions.