

ANNUAL REPORT 2021-22



THE IMPACT
RANKINGS



MIRPUR UNIVERSITY OF SCIENCE & TECHNOLOGY (MUST),
MIRPUR (AJ&K)

www.must.edu.pk



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WISDOM & VIRTUE

*"Knowledge enhances the respect and status
of human beings"*



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MESSAGE FROM THE CHANCELLOR



**SULTAN MEHMOOD
CHAUDHRY**

President of Azad Jammu
and Kashmir

Chancellor Mirpur
University of Science and
Technology, Mirpur AJ&K

I believe that each graduate of MUST shall be able to compete globally due to the quality education that is being imparted by the faculty members with dedication and commitment.

I take immense pleasure to write that Mirpur University of Science and Technology (MUST) has made substantial progress since its establishment in 2009.

The importance of education cannot be denied, but what puts the difference is the quality of education. In this background, MUST has emerged as one of the premier institutions imparting quality education in the State of Azad Jammu and Kashmir. Recently, the Times Higher Education ranked MUST at the top among all the institutes of higher education in AJ&K.

Since its inception, MUST has held several events such as seminars, conferences, workshops, and competitions to keep the issue of Illegally Indian Occupied Kashmir alive at the national and international levels, besides educating students and the masses about the historical context, evolution of the dispute and prospects for the settlement of the dispute.

The university has many disciplines of studies from the undergraduate to postgraduate levels like; engineering, natural sciences, technology, health sciences, animal sciences, business studies and social sciences etc.

Along with the academic activities, the university also offers a variety of co-curricular activities, which include series of events organised by different societies and clubs, educational tours, inter-university sports etc.

I believe that each graduate of MUST shall be able to compete globally due to the quality education that is being imparted by the faculty members with dedication and commitment.

MESSAGE FROM THE VICE CHANCELLOR



**PROF. DR. MUHAMMAD
YONUS JAVED, SI(M)**

Vice Chancellor

Mirpur University
of Science and
Technology (MUST),
Mirpur



MUST has conducive academic environment and its students remain fully committed in acquiring professional skills in order to meet new challenges in different emerging fields.

Mirpur University of Science and Technology (MUST), Mirpur, AJ&K is a prime seat of learning for the students of not only the State of Azad Jammu and Kashmir but also for all interested applicants from all over Pakistan and abroad. MUST was established with a vision to produce competent professionals who would be instrumental in the development of a prosperous society.

MUST has an excellent teaching, learning and assessment environment and is continuously improving its standards of quality pertaining to cognitive, affective and psychomotor domains of Bloom's Taxonomy. Our academics continue to undertake meaningful R&D through engagement of highly qualified & experienced faculty, use of state-of-the-art labs and teaching curriculum of international standards. The University offers array of disciplines ranging from engineering, technology, natural & applied sciences, medical technology, animal sciences, business studies and social sciences.

MUST was established in August 2008 and within short span of 13 years, it has added a series of new programs at undergraduate and postgraduate levels in six faculties (i.e. Faculty of Engineering and Technology, Faculty of Natural & Applied Sciences, Faculty of Social Sciences & Humanities, Faculty of MUST Business School, Faculty of Health & Medical Sciences, and Faculty of Veterinary & Animal Sciences). Faculties and Departments are located in three districts of the State of Azad Jammu & Kashmir. Five MUST campuses are commonly known as City Campus (Mirpur), Home Economics Campus (Mirpur), Jarikas Campus (Mirpur), Bhimber Campus (Bhimber) and Pallandri Campus (Pallandri). Majority of the programs of



MUST are being run in its three Campuses at Mirpur which is the most modern and scenic city of AJ&K and is only 15 minutes drive from Mangla.

All Engineering Programs being offered at MUST are accredited by Pakistan Engineering Council under OBE System of Education (Washington Accord). Similarly, all other programs are also accredited by the relevant Councils and Professional Bodies. MUST alumni is employed all over the world and is greatly contributing for the socio-economic uplift of Pakistan in general and AJ&K State in particular.

MUST has conducive academic environment and its students remain fully committed in acquiring professional skills in order to meet new challenges in different emerging fields. Continuously updated curriculum is taught by the competent and qualified faculty members and quality standards of international level are being ensured in each faculty. Research facilities and laboratories remain open for students and faculty members for carrying out R&D work. Resultantly, our faculty members are publishing their research papers in the highly reputed journals within the country and abroad. MUST has very strong linkages with the other universities (both at national and international level) and industrial organizations for undertaking useful projects, providing solutions to the problems, and placement of students for internships and industrial training.



EXECUTIVE SUMMARY

On behalf of academic and administrative staff of MUST, I warmly thank His Excellency Sultan Mehmood Chaudhry, President of AJ&K/ Chancellor MUST for providing ample guidance and support for smoothly running affairs of the University.

I assumed the charge of the Office of the Vice Chancellor on 28th June 2021. Earlier to this assignment, I served the NUST, Islamabad for about 25 years on different key positions and then HITEC University, Taxila as Dean for 4 years and Vice Chancellor for two and half years.

The faculty members and administrative officers of the MUST are making all efforts to raise standards of quality in teaching, learning and assessment methodologies and the sole purpose is to improve the ranking of the University. MUST is ensuring adherence to HEC standards and guidelines for admission in all undergraduate & postgraduate programs and quality of education.

The establishment of MUST was aimed at providing higher education facilities to the youth of the State of AJ&K & Gilgit Baltistan, including Kashmiri Diaspora and applicants from Pakistan. The MUST has so far produced 9169 Undergraduates, 31899 Masters, 675 MPhil and 13 PhD from its 35 teaching Departments. The University is currently running 84 Degree Programs under the umbrella of six faculties spread over five Campuses at Mirpur, Bhimber and Pallandri. At present, total strength of the on-campus students at MUST is 8679 (UG: 6959, MS: 1617 & PhD: 103) while students enrolled at affiliated colleges are 3260.

The Higher Education Commission has released 15% amount of the development project titled "Up-gradation of University College of Engineering and Technology into MUST" for completion of the remaining work. Another project of Rs. 158.277 million for the establishment of Students Services Center which includes construction of Library, Café and Mosque has successfully been completed. PC-I of Rs. 2468.258 Million for the establishment of the Pallandri Campus and another PC-I of Rs. 2627.482 Million for the establishment of the Bhimber Campus have also been submitted to the HEC for funding. The land of 1564 Kanals and 3 Marlas has been allotted to the University for Bhimber Campus. Academic Block-I was inaugurated by the former President of AJ&K, Sardar Mohammad Masood Khan on 2nd July 2021. The Department of Civil Engineering and MIT have been shifted in this three-story building and academic activities are taking place at Jarikas Campus. Similarly, another building named as Centre for Professional Development (CPD) has also been completed and for the time being the classes of Law Department are being conducted in this building.

The faculty is heart and soul of the University and MUST is blessed with 101 PhD and 175 MPhil qualified faculty members in different departments. MUST has published 244 research papers in journals of international repute with an Impact Factor of 973.89 and faculty members have also presented their research work in the national and international conferences.



All five engineering programs of the University have been accredited under OBE of Washington Accord and now engineers who graduated from MUST can be employed in any country of Washington Accord Signatories without going through the process of passing their professional exams because degrees of different disciplines of engineering of MUST are at par with those countries for the purpose of employment and mobility of engineers.

The 6th Convocation of the University was held on 2nd July 2021. 41 graduates were decorated with the Gold Medals for their outstanding performance in different examinations by securing 1st positions and 3371 (6 PhD, 225 MS/ MPhil and 3140 BS/ MSc/ MA) degrees were awarded to the graduates. The University has, so far, produced 12358 undergraduates, 675 MS/ MPhil and 13 PhD in different fields of study.

At present, 13 research projects of Rs. 73.403 million are being undertaken in different Departments of the University. These projects have greatly enhanced the research activities of the respective Departments. The University has won a grant of Rs. 14.8 million for the Establishment of Artificial Intelligence Laboratory through competition at the national level. 57 universities applied for the funding while only 13 universities including MUST won the grant for the establishment of laboratory. An "Efficient Smart Wood Stove" has been developed for the upper mountainous people of the AJ&K and KPK with financial grant of Rs.9.35 M from HEC. Similarly, a Project titled "Assistive Device for the Visually Impaired Persons" with financial grant of Rs. 14.00 M is in its final stage which will assist the blind persons with the help of talking stick. Faculty of Botany has won a research project of Rs. 19.745 Million for the Establishment of Botanical Garden (BG) for Education and Research Purpose from HEC National Research Program for Universities. One faculty member has also secured a project of Rs. 8.609 Million for Development of a Nitric Oxide and O₂ releasing Micro needle Array based Patch for Diabetic Wound Healing from HEC National Research Program for Universities. Mr Dawar Nadeem, student of the Department of International Relations, has won the "AJ&K Inter University Speech Competition" held on 10th August 2021 and received shield and prize from the President of AJ&K.

The worth mentioning seminars/ conferences/ lectures and events organized by the University. Soem of these are: Lecture on "The Place of Kashmir Issue on a Post-Russian Aggression Against Ukraine Era" by Mr. Khalid Mahmood, Former Member of Norwegian and City Parliament and President Pakistan Welfare Organization of Norway on 29th March 2022; Mehfil-e-Sukhan on 22nd March 2022 by MUST Literary Society and Positive Pakistan; 1st Industrial Exhibition on 29th November 2021 by ORIC MUST. With were 42 stalls in the event from all Departments of MUST including COMSATS University Islamabad, UET Taxila, University of Kotli, LUMS, Lahore& BUITEM Quetta; The MUST observed 74th Yom-e-Tasees of the Azad Government of the State of Jammu & Kashmir on 24th October 2021; Death Anniversary of Khurshid Hassan Khurshid, Former President of Azad Jammu and Kashmir (AJ&K) on 11th March 2022; 32nd Death Anniversary of Syed Ali Ahmed Shah, former President and First Defence Minister of AJ&K on 21st March 2022; Plantation Drive 2022 in the University Secretariat on 9th March 2022; Grand Finale of Hult Prize MUST on 9th March 2022; Defence Day on 6th September 2021; One day Seerat-ul-Nabi (PBUH) Conference 2021 by Institute of Islamic Studies; World Home Economics Day on 25th March 2022 by the Home Economics Department and Self Determination Day on 5th January.



The University has signed MoU with Muslim Hands International on 10th December 2021 to engage the final year students of Departments of Computer Systems Engineering, Computer Science and Software Engineering for the design and development of IT based solutions in order to provide social services to the people. MoU was signed with Faculty of Engineering and Technology of MUST and College of Automation Engineering, Shanghai University of Electric Power (SUEP), China through Video Link on 5th January 2022 to develop smart projects for enhancing efficiency of electric power systems and to minimize losses. MoU with Hydropower Training Institute (HPTI), Mangla and MUST was also signed to provide internships to the students to conduct different training courses. MoU between AJ&K Woman Development Department and MUST was organized on 24th March 2022 for provision of Sports Equipment for Day Care Center. MoU between Mirpur Chamber of Commerce and Industries (MCCI) and MUST was signed for research collaboration to commercialize the products of MUST researchers on 10th December 2021.

The meetings of the statutory bodies are being conducted regularly. 14th Meeting of the Academic Council was held on 30th September 2021, 9th meeting of the Finance and Planning Committee (F&P Committee) was held on 2nd October 2021. 25th meeting of two phases of the University Selection Board were held from 25th to 27th February 2022 and 18th to 20th March 2022. 18th Meeting of the University Syndicate was held on 31st March 2022, 12th Meeting of Board of Management for Benevolent Fund (BMBF) on 9th March 2022 and 13th Meeting of the Advanced Studies and Research Board (AS&RB) took place on 9th March 2022. Different professional bodies/ councils visited the MUST including Pakistan Technology Council on 13th September 2021 for the Accreditation of Technology Programs offered at MUST, National Accreditation Council for Teacher Education (NACTE) on 16th February 2022 for accreditation of Undergraduate and Postgraduate programs of Education Department, National Agriculture Education Accreditation Council (NAEAC), Islamabad on 15th March 2022 for accreditation of Department of Human Nutrition & Dietetics.

The Government of AJ&K (GoAJ&K) is planning to establish "Special Technology Zone" at MUST. Mr. Muhammad Iqbal Ch., Special Assistant to the Prime Minister of AJ&K along with Chairman Special Technology Zone Authority (STZA), Mr. Amir Hashmi visited MUST and land of about 2000 Kanals have been selected for this purpose. This facility will bring revolution in information technology and e-business in AJ&K. Similarly, an Islamic Centre and Jamia Mosque is being constructed by Peer Sahib Gulhar Sharif, Kotli at Jarikas Campus for 3000 persons (400 females and 2600 males). The University has provided 10 Kanals of land and whole expenditure will be borne by Astana Alia Gulhar Sharif. The University has also established Business Incubation Centre (BIC) to promote linkages with the industry.



Mirpur City Campus



Bhimber Campus



Palandri Campus



Mirpur New Campus

MISSION

MUST is committed to all-encompassing growth of its students, besides enabling them to tap the world of knowledge and assume a leadership role in the future through a process of continual innovation in education, research, creativity, technological advancement and entrepreneurship.

VISION

To be a superior teaching and research institution, having transformative impact on society and act as a knowledge corridor between Azad Jammu & Kashmir, Pakistan, and rest of the World.

MOTTO

Wisdom & Virtue

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AIMS AND OBJECTIVES

For the fulfillment of its mission, MUST aims to achieve the following objectives:-

- To provide education of the highest academic quality, rigorous in its demands and distinctive in its character;
- To promote advancement of society through research, creative activity, scholarly inquiry and the development of new knowledge;
- To promote technological knowledge, science and arts for the benefit of state's economy, serve the citizens through public programmes and provide other public services;
- To achieve academic excellence across a broad range of disciplines through continuous innovation, improvement and expansion;
- To make MUST a center for intellectually demanding and research-oriented education that nurtures independence of mind and critical inquiry, as well as enables students to realize their personal ambitions and contribute to the development of society;
- To create a stimulating and salutary environment for students, faculty and staff, distinguished by unrelenting flinching commitment to high standards and respect for individuals;
- To produce the next generation of researchers, scientists, engineers and academicians who are capable of shaping public and policy discourse besides grappling with prevailing challenges;
- To develop MUST as a 'student-centric university' by establishing student's councils, clubs, societies and support programmes.
- To provide students with technologically enhanced learning required for pursuing their professional goals in the modern era;
- To earn widespread recognition and endorsement for MUST through contributions in research, entrepreneurship and policy making;
- To proactively expand academic and research networking at the national and international levels;
- To attract, reward and retain outstanding faculty from diverse backgrounds by creating for them a welcoming and dynamic professional environment;
- To secure long-term financial sustainability and maintain the level of capital investment necessary to achieve all academic objectives;
- To create conspicuous and credible socio-economic impact by rendering long-term services to the society;
- To meet society's interests, concerns, priorities and aspirations;
- To ensure freedom of thought and expression by promoting respect for the diversity and difference of opinion;
- To promote equality in the university and making it accessible to all segments of the society without discrimination;
- To transform lives for the benefit of society.



CORE VALUES

- Academic Excellence and Advancement on Merit;
- Fairness and Equality;
- Pluralism and Diversity;
- Outreach and Community-building;
- Inclusiveness and Openness;
- Academic Freedom and Freedom of Thought;
- Non-Discrimination;
- Ethically Acceptable Standards of Conduct;
- Creativity and Innovation;
- Leadership Development;
- Environmental Sustainability;
- Learner-centric and Personalized Learning;
- Service with Integrity;
- Collegial Environment and Dignity of Labour.

STRATEGIC AIMS

Unwavering Excellence

MUST remains committed to academic excellence through the provision of quality teaching and creating an atmosphere congenial to meticulous research.

Transforming Lives

MUST shall transform the lives of people by ameliorating their knowledge base, skill set and critical thinking abilities.

Research

MUST will focus on genuine research and the utilization of original knowledge to surmount emerging challenges.

Enterprise

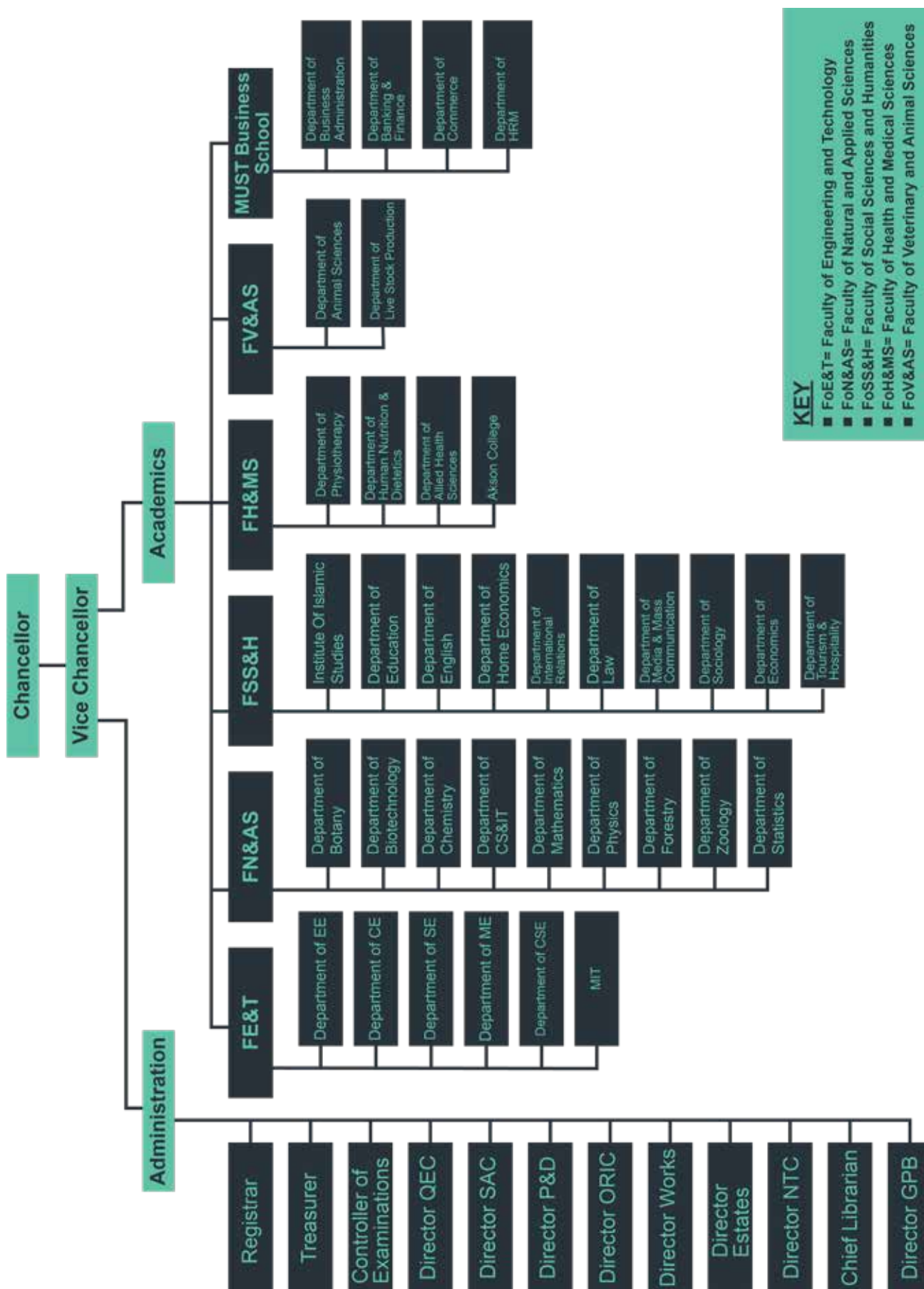
MUST is committed to innovation & enterprise, supporting & promoting novelty, effective knowledge exchange, entrepreneurship, university-industry linkages, and collaborations with local and foreign organizations.

Creating Value

MUST aims at promoting human values of the highest level - particularly tolerance and fraternity, besides acceptance and respect for diverse points of view.

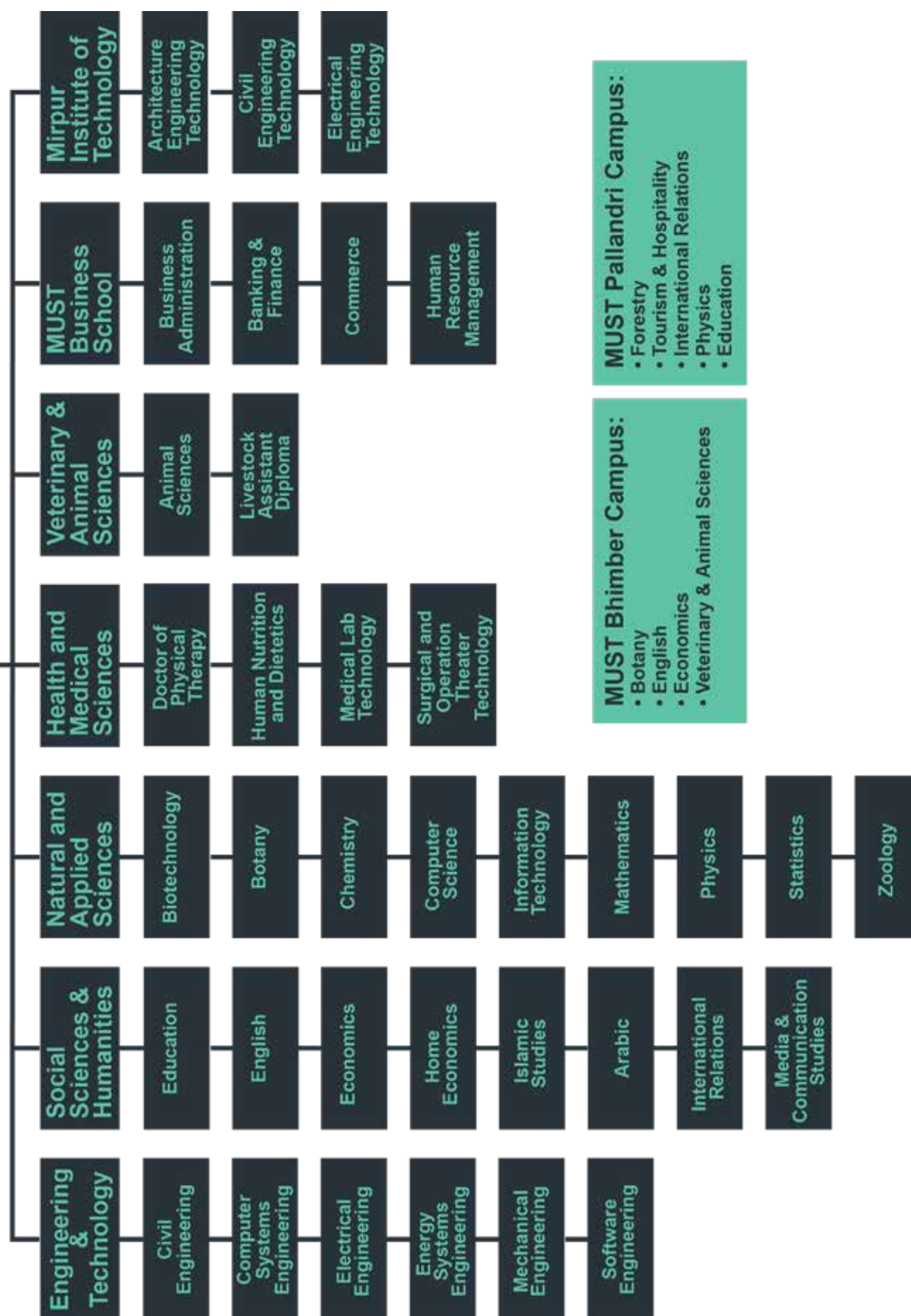
Employment

MUST is committed to attracting, rewarding and retaining outstanding persons from diverse backgrounds.





FACULTIES





SALIENT ACTIVITIES OF THE VICE CHANCELLOR'S OFFICE

Engr. Brig (R) Prof. Dr. Muhammad Younus Javed, S.I (M), assumed the office of the Vice Chancellor of the Mirpur University of Science and Technology (MUST), Mirpur, AJ&K on June 28, 2021.



Vice Chancellor's Office

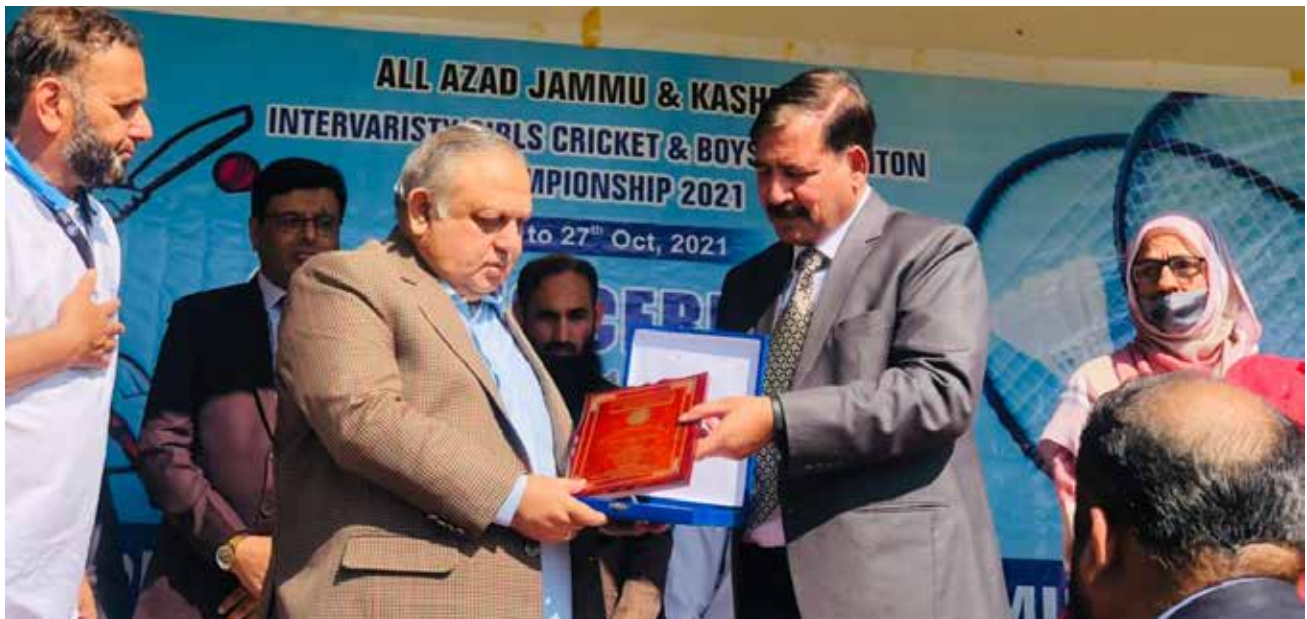
Cover Story Meetings Campus Activities Conferences /Seminars/Workshops Sports Activities

Engr. Brig (R) Prof. Dr. Muhammad Younus Javed, S.I (M), assumed the office of the Vice Chancellor of the Mirpur University of Science and Technology, Mirpur AJ&K on June 28, 2021. The Vice Chancellor MUST was remarkably welcomed at the Jari Kas Campus. A large number of faculty members, including Deans of the faculties, Heads of the Departments, Principal Officers, Staff, and Students were present. Faculty members, students and representatives of the civil society kept visiting and congratulating him on his appointment as Vice Chancellor for a period of five years. Earlier, Engr. Brig. (R) Prof. Dr. Muhammad Younus Javed served as the Vice Chancellor of HITEC University, Taxila. He received his M.Sc. and Ph. D degrees from the University of Dundee, Scotland (UK) in 1988 and 1991 respectively. He completed his B.Sc. Electrical Engineering from the University of Engineering and Technology Lahore in 1982. He did his FSc from the Government Degree College Bhimber and Matric from Government High School Dhandar Kalan. He possesses tremendous academic record and has been a high achiever throughout his academic career. Engr. Brig. (R) Prof. Dr. Muhammad Younus Javed played dynamic role in establishing and raising academic and research standards of NUST after joining it in 1991. From 1997 to 2011 he remained HoD of Computer Engineering Department of

NUST College of E&ME for 12 years and Dean for four years 2011-2015. In 2015, he joined HITEC University Taxila as Dean and Professor of Engineering and Technology. He was appointed Vice Chancellor of HITEC University through an open merit process of Search Committee in February 2019. During his stay at HITEC University, he tremendously contributed in terms of expansion of academic programs, establishing more Departments and raising teaching, learning and assessment standards. Due to his outstanding performance during the service, he received a number of awards and honours, which include the Best Teacher Award – 2007, Best Researcher Award – 2010, IEP National Excellence Award – 2016, and Sitare-e-Imtiaz (M) in 2016. Besides being a good academician, he is an excellent researcher as well, and he has 328 research publications to his credit, besides publishing six books and five book chapters. He has supervised seven Ph.D. scholars and 155 MS theses. He has been a scholarship holder throughout his academic career. He has been a member of the Engineering Accreditation Board of the Pakistan Engineering Council (PEC), Convener of the Engineering Curriculum Review and Development Committee of PEC and a member of the Executive Committee of the National Technology Council of Pakistan. He has also been PEC Program Evaluator. Along with this, he was



Visit of Commander 7 AK



Intervaristy 2021 Sports Championship



Iqbal Day 2021



also an OBE Trainer and Program Evaluator for PEC and has evaluated a large number of programmes within the country and abroad.

Barrister Sultan Mehmood Chaudhry elected as the AJK President and Chancellor of MUST

The President of Azad Jammu and Kashmir and Chancellor MUST, his Excellency, Barrister Sultan Mehmood Chaudhry assumed the office of the President of Azad Jammu and Kashmir on August 25, 2021. The Vice Chancellor MUST, along with all Deans, HoDs, Principal Officers, Faculty and Students extended his warm welcome and good wishes to His Excellency, Barrister Sultan Mehmood Chaudhry for becoming President/Chancellor of the University and hoped that the university would flourish under his leadership and guidance.

Cover Story

MUST holds its 6th Convocation 2021

The 6th Convocation of the Mirpur University of Science and Technology (MUST), Mirpur was held on July 02, 2021. The President of Azad Jammu and Kashmir and Chancellor MUST was the Chief Guest of the event. A total of 41 graduates were decorated with the Gold Medals for their outstanding performance in different examinations by securing 1st positions. Six Ph.D. degrees were awarded to the Ph.D. scholars on completion of their Ph.D. degrees whereas degrees were awarded to 2100 graduates. The Vice Chancellor, University of Kotli, Prof. Dr. Syed Dilnawaz Ahmad Gardezi, Former Vice Chancellors MUST Prof. Dr. Maqsood Ahmed, Prof. Dr. Muhammad Sarwar Ahmed, the Secretary Presidential Affairs, Muhammad Zafar Khan were among the guests. A large number of representatives from the civil society, students and parents of the

students participated in the ceremony.

While addressing the convocation, the President of Azad Jammu and Kashmir/Chancellor MUST congratulated the graduating students and acknowledged their success. He appreciated the role of the faculty and the parents of the students. He hoped that these graduates would serve the nation in a best possible way. The Vice Chancellor, Engr. Brig. (R) Prof. Dr. Muhammad Younus Javed, S.I (M) presented a detailed report about the university. He thanked the Chancellor for sparing time from his busy schedule and honouring the event as Chief Guest. The Vice Chancellor congratulated the graduating students and their proud parents, particularly those who have won positions and were decorated with gold medals and Ph.D. degrees. The Vice Chancellor said that this is a day of great celebration. The University is proud of your performance and achievements. He hoped that the graduates would prove to be an ambassador for this university and contribute to the development of the country by displaying the same degree of commitment in the future as well.

The Vice Chancellor reported that the university has, so far, produced 11371 graduates, 947 MS/M.Phil, and 13 Ph.D in different fields of study. The Vice Chancellor added that the university is blessed with 368 faculty members, including 102 with Ph.D. degrees and 209 with M.Phil degrees. Ten faculty members are enrolled in Ph.D. degree programmes at foreign universities under the project "Up-gradation of the University College of Engineering and Technology into MUST". The total strength of the supporting staff is 546, including 178 contractual employees, so the total number of employees is 914. The Vice Chancellor asserted that all engineering Departments are accredited with the Pakistan Engineering Council and others with respective councils, and the



Registrar MUST receiving a shield from Chancellor MUST





university is providing Outcome Based Education and developing the faculty of Engineering and Technology on the directions of the PEC to meet the criteria of the "Washington Accord" Level-II. All the engineering programmes are accredited by OBE, Level-II. During the year 2020, 334 research papers were published in reputed international journals. The faculty members have also been presenting their research work at national and international conferences, he added. He mentioned that with 35 teaching departments, the university is currently running 80 degree programmes under the umbrella of six faculties at three campuses: the Main City Campus, Bhimber Campus, and Pallandri Campus. The total strength of the on-campus students at MUST is 7356 (males 4076, females 3280). There are 1910 students enrolled in the 55 affiliated colleges.

The Vice Chancellor said during the last year, the MUST won a grant of Rs. 14.8 million for the establishment of the Artificial Intelligence Laboratory through competition at the national level. Our research teams have developed ample expertise in designing autonomous vehicles, the first state-of-the-art industrial loader in Pakistan and hybrid motorcycle. Our faculty members have visited Italy and Dubai under technology exchange and international collaborations. We now have a startup called "SelfTech", which aims at providing self-driving cars and industrial logistic vehicles at a reasonable cost to make travel safe and comfortable. Recently, we have won Rs. 50 million in "Smart Class Room" funding from the Higher Education Commission. The University has also won a project under the Technology Development Fund of the HEC entitled "Assistive Device for the Visually Impaired Persons" which is a talking stick for the blind. This device is ready for mass production with the help

of an industrial partner. Our engineering faculty has developed an "Efficient Smart Wood Stove" for the upper mountainous people of the AJK and KPK which consumes almost 61% less fuel wood as compared to traditional stoves.

He further said that the infrastructure development project of the university is nearing completion and Academic Block-I will be inaugurated by your Excellency today. The Administration Block, Central Library, Students' Hostels, Road Infrastructure, Water Supply & Sewerage, and Internal Electrification have been completed. The Administration Block and Civil Engineering Department have been shifted, whereas the Mirpur Institute of Technology (MIT) is nearing completion at the new place. The Revised PC-I of the Project amounting to Rs. 2248.776 million has been submitted for formal approval by the Central Development Working Party (CDWP). The New PC-I for Phase-II of the project, worth Rs. 1601.021 million, has been submitted to the HEC for approval by the Departmental Development Working Party (DDWP). This PC-I includes an Academic Block; an Advanced Research Centre for landslides and earthquakes; a University Guest House; a Bachelor Faculty Hostel; and a University Monument. In this project concept of "Green Campus," preservation and utilization of natural resources and archaeological restoration will also be implemented. Moreover, advanced research equipment to cope with two major natural hazards is also part of PC-I. The establishment of this advanced level research centre will make a significant contribution to society. The PC-I for the establishment of the Faculty of Veterinary and Animal Sciences has been submitted to the HEC. PC-I for the establishment of another girls' hostel, including a bachelor hostel for females, a residence laboratory for the Department of Home Economics, a fitness centre for females, and a university



products display centre. The government has allocated 523 kanal land for the establishment of Pallandri Campus and PC-I of Rs. 1936,300 for the establishment of Pallandri Campus. MUST has been approved by the DDWP of HEC. At the end, the Vice Chancellor congratulated the members of the organizing committees for organizing the event in a befitting manner on a short notice. They all deserve special appreciation and a round of applause.

Meetings

Vice Chancellor meets all Deans and HoDs of Faculties

The introductory meeting of the Vice Chancellor with all the deans of the faculties and heads of the departments was held on July 8, 2021 in the Conference Room at MUST City Campus, Mirpur. As it was the first formal interaction of the Vice Chancellor with the Deans and Heads of the Departments, the Vice Chancellor, after a detailed introduction, pursued the opinion of the participants to reopen the university for on-campus classes of the students. It was also decided in the meeting that all students and employees must be vaccinated. During his address, the Vice Chancellor shared his vision and future plans for the development of the university on a fast track. He asked the participants to ensure a culture of high standards in teaching and assessment, with no compromise on classroom teaching and 100% curriculum coverage as approved by the Board of Studies. He directed the revision and updating of the curriculum as per HEC requirements through the Board of Studies and Academic Council and Course Monitoring Committee (CMC) of each department to be constituted with the consultation of concerned HoDs. The CMC will be responsible for full coverage of syllabi, total credit hours, timetable, record of attendance on daily basis, in-time conduct of quizzes, assignments,

midterms and terminal exams etc. He said that I would personally visit two or three classes daily through the smart class facility.

Lord Oxford City Mr. Altaf Hussain greets Engr. Brig (R) Prof. Dr. Muhammad Younus Javed, S.I (M) on assuming as Vice Chancellor MUST

Former Lord Oxford City, Muhammad Altaf Hussain, visited MUST on July 8, 2021, and congratulated the newly appointed Vice Chancellor. He was accompanied by Advocate Ch. Nazar Hussain Nazar. Lord Altaf Hussain presented a flower bouquet and expressed good wishes to him. He assured the VC that he would extend full support and cooperation to facilitate the faculty and students of this region in the universities of the UK. The Vice Chancellor extended thanks and assured him that the university would appoint him as a MUST Ambassador to acknowledge his services and contributions.

Vice Chancellor meets CEO 7 Star Company

The Vice Chancellor, Engr. Brig. (R) Prof. Dr. Muhammad Younus Javed, S.I (M) after joining the office of Vice Chancellor, must call an urgent meeting with Engr. Muhammad Rizwan, CEO of 7 Star Company, at University Secretariat Jarikas Campus. The meeting was called to discuss financial matters of the Mega Project and leftover construction work of existing buildings and fencing the University boundary. Issues of outstanding amounts, delays in payments and financial constraints that are restricting a course of economic action also came to light. The meeting was attended by the Treasurer, Project Director, and SPS to the Vice Chancellor.

Chief Executive Mangla Metals Private Ltd visits VC MUST



The Vice Chancellor MUST met Mr. Zulfiqar Abbasi, Chief Executive of Mangla Metals Private Limited, in the University Secretariat to discuss matters regarding the resolution and settlement of land disputes along with the Boundary Wall of the University. Following the detailed discussion in the university conference room, teams from both parties visited the disputed site and pledged to resolve the matter amicably and expeditiously.

Mr. Riaz Hussain Executive Director ALSEHA Care Hospital, Ex GM WAPDA meets VC MUST

Mr. Riaz Hussain Executive Director ALSEHA Care Hospital, Ex GM WAPDA along with Colonel (R) Tariq Fareed Manager Security and Procurement HUBCO Lariab Energy Limited called on VC MUST in the University Secretariat at Jarikas Campus and extended their heartfelt congratulation on his appointment as VC MUST.

Meeting regarding MUST MEGA Project

The Vice Chancellor MUST chaired MEGA Project (Phase - II) meeting in Conference Room of MUST Secretariat. The meeting was attended by all Deans of Faculties, Directors, P&D, Deputy Directors, Mega Project. Detailed briefing and discussion were held to make improvements.

Vice Chancellor MUST Chaired Meeting of Medical Committee

The Vice Chancellor MUST chaired a meeting of the Medical Committee in the Conference Room of the MUST Secretariat. The meeting was attended by all the Deans of Faculties, the Registrar, the Treasurer, Dr. Aurangzeb (Medical Consultant of the University), SPS to the Vice Chancellor, the Audit Officer, and Assistant Treasurer, Mr. Qasir Niaz.

Vice Chancellor MUST presides over a

meeting regarding University's Master Plan

The Vice Chancellor MUST chaired a high level meeting of University Master Plan on November 05, 2021. The Project Director, and Director, P&D, Syed Zeeshan Ashiq, Project Manager, NESPAK Islamabad, Mr. Muhammad Salman and Senior Architect NESPAK, Mr. Muhammad Waqas briefed the University's Master Plan. During the meeting, important points regarding the future planning and proposed necessary changes in existing plan was discussed. The Vice Chancellor emphasized on updating of approved University Master Plan from time to time to meet future requirements.

AIOU Regional Campus Mirpur invites Vice Chancellor MUST as Chief Guest on 143rd Iqbal Day

The Vice Chancellor MUST attended the 143rd Iqbal Day on November 09, 2021 at Allama Iqbal Open University (AIOU) Regional Campus Mirpur, as a chief guest of the event. The event was organized by the AIOU in collaboration with the Special Communication Organization (SCO) and Azad Kashmir Radio Mirpur. The event was attended by Mr. Faisal Shahzad, Regional Director, AIOU, Mrs. Samina Ateeq, Deputy Director, AIOU, Principal Officers, Staff of AIOU, Former Registrar, MUST Muhammad Shahbir Mirza, DSA MUST, Dr. Muhammad Altaf Hussain and other eminent educational personalities.

Meeting with Secretary Electricity Department GoAJ&K and DG Mangla Dam Housing Authority- New City Mirpur

The Vice Chancellor MUST, had a meeting with Mr. Chaudhary Muhammad Tayyub, Secretary, Electricity Department, GoAJ&K, and Mr. Chaudhry Muhammad Mansha, DG MDHA, on December 13, 2021 at the University Secretariat Jarikass. They congratulated him on his appointment as



Serriat Conference 2021



MUST Staff attending Serriat Conference 2021



VC MUST addressing at Serriat Conference 2021



Vice Chancellor for a period of five years and said that they hope he would work for the betterment of university and its community.

Chaudhary Mohammed Akhtar, Chairman, Kashmir Orphans Relief Trust (KORT) called on VC MUST

The Vice Chancellor MUST, had a meeting with Mr. Chaudhary Mohammed Akhtar, Chairman KORT on December 2, 2021 at University's Secretariat Jarikass. Mr. Chaudhary Mohammed Akhtar congratulated the Vice Chancellor and said he hopes to work together for the betterment of the students and society.

Meeting with Administrative and Academic Staff of MUST

The Vice Chancellor MUST preside over a high-level meeting with university administrative officials at 11:00 am at Jari Kas and academic officials in the video conference room at the City Campus of the University at 03:00 pm on December 2, 2021. The agenda of the meeting was to further enhance the efficiency and standards of education at MUST, Mirpur AJ&K. The Vice Chancellor directed all officials to take the necessary actions for the early disposal of academic and administrative related matters. He stressed the optimum utilization of university resources. Different issues were discussed including methods to improve academic standards, early repair and maintenance of university facilities, keeping close contact with students to deliver a healthy environment for better learning, and facilitating them. All Deans, Registrar, Treasurer, Controller of Examinations, Director ORIC, Director SAC, all HoDs, DSA, Director QEC, Provost Hostels, Chief Security Officer, Director Works, Director Estate, Director NTC, and Director Sports participated in the meeting.

14th Meeting of the Academic Council

The 14th meeting of the Academic Council of the MUST was held on September 30, 2021. The meeting was chaired by the Vice-Chancellor, in the Video Conference Room, City Campus MUST. All Deans of the Faculties and HoDs participated in the meeting. The Academic Council, along with routine matters made the following recommendations to the Senate, (1) implementation of HEC policy on PhD; (2) semester rules and regulations for BS Engineering programs; (3) increasing the number of seats in MS/M.Phil programs; (4) establishment of departments under the Faculty of Veterinary and Animal Sciences at Bhimber Campus; (5) uniform criteria of Associate Degree after phasing out to two-year MA/M.Sc. degree programmes after the enrollment from academic year 2020.

12th Meeting of the Advance Studies and Research Board (AS&RB)

The Vice Chancellor MUST chaired the 12th Meeting of ASRB held in the Committee Room of Administration Block, Jarikass Campus, MUST, Mirpur. All Deans and Principal Officers attended the meeting.

9th Meeting of the Finance and Planning Committee

The Vice Chancellor MUST presided over the 9th Meeting of the MUST Finance and Planning Committee, which was held at the MUST City Campus in Mirpur. Mr. Munir Ahmed, Senior Joint Secretary, Ministry of Finance, Govt. of Pakistan, Mr. Ghulam Nabi, DG Finance, HEC, Mr. Inayat Ali Qazi, Special Secretary Finance, GoAJK, Mr. Zahid Shafi, Additional Secretary, Higher Education Department, GoAJK, the Registrar, the Treasurer, Director Planning and Development, Director ORIC, Director QEC, and Coordinator CS&IT, attended the meeting.



14th Meeting of Institutional Scholarships Award Committee

The 14th meeting of the Institutional Scholarships Award Committee (ISAC) of MUST was held on October 05, 2021 to award HEC/MUST Need-Based Scholarships for the financial year 2020-21 at the City Campus, MUST. The Vice Chancellor chaired the meeting. The committee recommended 50+ (10 waiting) students for Need-Based Scholarship (HEC) funding. The scholarship covers a waiver of tuition fee and a grant of an amount of Rs. 6,000/- per month to the concerned awardees for full degree program. Similarly, the ISAC recommended 50+ (10 waiting) students for the grant of MUST-Need Based Scholarship for Rs. 18000 per annum.

Department of CS & IT Visits NUST

Faculty and research scholars of the department of CS&IT visited Research Center of Simulation and Modeling (RCSM), NUST on 16th December 2021. The delegation from MUST visited seven dedicated and highly professional labs including the Super Computing Lab of NUST. During this visit, RCSM offered free access to their Super Computers for research purpose. They also offered paid internships and research associateship to research students of MUST. Furthermore, different research ideas were shared among faculty members and collaboration on multiple industrial projects were discussed. Besides joint conferences and different workshops were also discussed. From RCSM, principal Dr. Mian Ilyas Ahmed, Dr. Ishrat Jabeen, Dr Tariq Saeed, Dr. Zameer Hussain and Dr. Mehak Rafiq, and from MUST, Coordinator department of CS&IT Dr. Yasir Mehmood, Dr Samina Khalid, Dr. Yasser Arafat, and Dr Tehmina Khalid along with research students Faisal Shahzad, Maleha, Azka and Hammad participated the discussion.

Visit

1. Dr. Muhammad Hussan Mushtaq, (Chairman Department of Epidemiology and Public Health), Prof. Dr. Rana Muhammad Ayyub, (Chairman, Department of Economics and the Business Management) University of Veterinary and Animal Sciences (UVAS) Lahore visited the Faculty of Veterinary and Animal Sciences, MUST on 29th November 2021. They appreciated the development in the Veterinary and Animal Sciences sector in the region.
2. A legendary Veterinarian, Dr. Muhammad Ashraf from the USA and Dr. Shoukat Ali Assistant Director (Retd) visited the Faculty of Veterinary and Animal Sciences, Bhimber Campus on 7th December 2021. During their visit they showed a keen interest to support the Faculty in the very interest of this region.

Meeting with Administrative and Academic Staff

The Vice Chancellor MUST Chaired high level meetings with University Administrative Officials at Jarikass and Academic Officials in Video Conference Room at City Campus of the University on 2nd December, 2021. The agenda of meeting was to further enhance the efficiency and standards of education in MUST, Mirpur. The Vice Chancellor directed all officials to take necessary actions for early disposal of academic and administrative related matters. He stressed on optimum utilization of University resources. Different issues were discussed including methods to improve academic standards, earliest repair and maintenance of University facilities, keeping close contact with students to deliver a healthy environment for better learning and facilitating them. All Deans, Registrar, Treasurer, Controller



of Examinations, Director ORIC, All HoDs, DSA, Director QEC, Provost Hostels, Chief Security Officer, Director Works, Director Estate Director NTC and Director Sports participated in meeting.

MUST got more British Council Scottish-Pakistan Scholarship for Young Women and Girls

The Students Assistance Centre (SAC) has successfully re-developed the link with the British Council Islamabad for the award of Scotland-Pakistan Scholarship to the talented and needy female students of Undergraduate, Masters and M. Phil programs. The interview for selection was conducted by the "Scholarship Management Committee" in the Office of the Dean, Faculty of Natural and Applied Sciences MUST on November 11, 2021. The British Council awarded a total of 22 scholarships to MUST students of over Rs. 5.0 million.

Campus Activities

Pakistan Engineering Council Accreditation Team Visits MUST

The PEC OBA Based Accreditation Team Visits MUST on July 09 to 10, 2021 led by Engr. Prof. Dr. Junaid Mughal and following team of experts:

- Engr. Prof. Dr. Junaid Mughal, CUI, Attock Campus, Team Lead/ Convener
- Engr. Dr. Amjad Ali, UET, Peshawar, PEV Electrical Engineering
- Engr. Dr. Abdul Gafoor MCS, Rawalpindi, PEV Electrical Engineering
- Engr. Prof. Dr. Majid Ali, CUST, Islamabad PEV Civil Engineering
- Engr. Prof. Dr. Afzal Javed, UoL, Lahore, PEV Civil Engineering
- Engr. Prof. Dr. Fayyaz Hussain Shah, UET, Lahore, PEV Mechanical Engineering

- Engr. Prof. Dr. Nadeem A. Sheikh, IIU, Islamabad, PEV Mechanical Engineering
- Engr. Dr. Iftikhar Azim Niaz, CUI, Islamabad, PEV Computer System Engineering
- Engr. Dr. Ibrar Ali Shah, UET, Mardan, PEV Computer System Engineering
- Engr. Dr. Ahmar Rashid, GIKI, Topi-Swabi, PEV Software Engineering
- Engr. Prof. Dr. Laiq Hussain, UET, Peshawar, PEV Software Engineering
- Engr. Salman Ahmed, PEC HQ, Islamabad, PEC Representative

The Faculty of Engineering and Technology (FE&T) was established in 1980 and laid the foundation of MUST in 2009. There are 50+ advanced and world class laboratories for engineering education along with modern classrooms. MUST is fortunate to have highly qualified PhD faculty members from technologically advanced countries such as the United States, European Union, South Korea, Japan, Australia, and the United Kingdom, among others. The curricula in different programmes of engineering at FE&T involve creative learning, and hands on implementation in labs. Alongside the theme of theory and practice, there is an inspiration for research-led-teaching. The FE&T has already been recognized as one of the most dynamic, fastest growing, and excelled engineering sciences faculties in the country with degree programmes accredited at Level-II Outcome Based Education (OBE) by the Pakistan Engineering Council.

73rd Pakistan Independence Day Celebrations

MUST celebrated the 73rd Pakistan Independence Day on August 14, 2021 at the City Campus, MUST. The Vice Chancellor was the Chief Guest of the ceremony. The event was attended by all of the Deans, HoDs, Coordinators, Faculty Members, Students, and Staff of



14th Academic Council



19 Syndicate Meeting



18 Syndicate Meeting





Walk in interview



Inauguration of a LAB in Department of Botany, Bhimber Campus





the University, as well as representatives from the electronic and print media. The Vice Chancellor, along with the Dean of Faculties, raised the flags of Pakistan and AJ&K. The event was organized by the DSA. The students from different departments delivered speeches to highlight the significance of the day and the national responsibilities of safeguarding the ideological and geographical frontiers of the country. Expressing full solidarity with the people of occupied Jammu & Kashmir, speakers underlined that the hearts of the people of Azad Jammu & Kashmir, Indian occupied Jammu & Kashmir and Pakistan beat in unison. They said that India could not win the hearts of the people of Jammu and Kashmir - nor could do so in the future. The students from different departments also presented a tableau depicting the significance of the historic events of pre and post-Pakistan movement and the emergence of the separate homeland of the muslims of the sub-continent under the dynamic leadership of the father of the nation (Quaid-i-Azam Muhammad Ali Jinnah). Students also sang and perform on national songs. Addressing the ceremony, the Vice Chancellor appreciate the students and DSA for organizing such an outstanding occasion. While addressing the ceremony he said that the 14th August, 1947 has the greatest significance in the history of the South Asia when Muslims of the subcontinent succeeded in achieving their separate homeland under the dynamic leadership of Quaid-i-Azam through materializing the dream of great poet and philosopher Allama Muhammad Iqbal. He said that it is the day of renewal of the vow by the entire nation including the young generation to perform their individual and collective role for the progress and prosperity of the country besides to making it an unconquerable fort of Islam since it came into existence in the name of Islam and under the spirit of the two-nation theory. Dr. Sadat Hanif

Dar, Registrar of the University, Prof. Dr. Anzar Mehmood, Chairman, Department of Electrical Engineering, Dr. Shaukat Mehmood, Dean Faculty of Natural and Applied Sciences, Prof. Dr. Anwar Khitab, Dean, Faculty of Health and Medical Sciences also delivered their speeches.

Tree Plantation Drive on Independence Day

The Vice Chancellor planted a tree of 'Terminalia Variegated' in the lawn of the MUST Secretariat on the occasion of 14th August, 2021. All the heads of the departments and principal officers planted trees in the lawn. Dr. Sajjad Ahmed, Assistant Professor, Institute of Islamic Studies, offered prayer after the plantation. Talking to the participants, the Vice Chancellor appreciated the Incharge, CSC, Mr. Muhammad Ayub for the best selection of the plant and day of plantation. He expressed that plants are very important for all human beings. It is our responsibility to not only plant the trees but also take care of them for their survival. The Vice Chancellor directed the security staff to make proper arrangements for the safety of the plants.

MUST Celebrates 6th September Defense Day

The MUST celebrated Defense Day in the Mechanical Hall of the University. The day was celebrated to remember the great memory of martyrs who sacrificed their lives for the sovereignty of our beloved country. The speakers highlight the importance of the day. One of the speaker said that September 6, 1965, was the day when thousands of people sacrificed their lives for the country. The day when many families lost their foreman, when many mothers lost their young and courageous sons, when many soldiers set an example of bravery, when many young fighters outperformed the enemy, when



many brave soldiers received the highest military gallantry award, when many brave soldiers received the "Nishan-e-Haider," when the Indian army faced serious consequences, when India lost a battle against Pakistan. The Vice Chancellor, along with the Registrar, Dr. Sadaat Hanif Dar, DSA, Dr. Muhammad Altaf, Dean Faculty of Engineering and Technology, Dr. Hassan Mujtaba Jafri, HoDs, Directors, and other faculty members, consolidated the ongoing event. In his Defense Day speech, the Vice Chancellor renewed his pledge to defend the motherland against all threats, while making untiring efforts in all fields of education to further enhance and strengthen national security.

MUST Annual Mushaira The Annual Mushaira was organized by MUST Literary Society on September 30, 2021 at Mechanical Hall, MUST City Campus. Mr. Akhter Usman, the great writer and poet, was the chief guest of the event. Other national level poets, Mr. Ali Zaryoun, Mr. Ahmed Farhad, and Mr. Wahid Ejaz, also participated in the event. The Vice Chancellor of MUST chaired the annual Mushaira of MUST. He appreciated the work of literary society for managing this mega event. He assured his all-time support for university students for the wellbeing of the institution.

MUST Celebrated 74th Youm-e-Tasees

The MUST celebrated 74th Youm-e-Tasees on October 24, 2021 in Mechanical Hall of the City Campus. The Hon'ble Chief Justice (R) Majeed Malik was the Chief Guest of the event. All Deans, HoDs, faculty members, students and staff of the university, as well as representatives of electronic and print media, participated in the event. The students from different departments delivered speeches and sang national songs. The speaker recalled that the Kashmiris were continuing their indigenous and historic struggle for

freedom in the occupied state of Jammu and Kashmir. Addressing the ceremony, the Vice Chancellor vowed to make the AJ&K strong by making the institution strong. He paid tribute to the shodas of the independence movement, particularly those who liberated the AJ&K. He lauded the role of Sardar Muhammad Ibrahim Khan, the first ever president of the Government of the State of Jammu and Kashmir, in setting up the new government.

Participation in Times Higher Education Impact Ranking 2022

The QEC MUST is committed to enhancing the role of faculties to perform quality research based on sustainable Development Goals (SDGs). In this regard, QEC participated in the Times Impact Ranking Training Session, organized by HEC/HEDP Islamabad on October 08, 2021. The QEC MUST also participated in a webinar on the Implementation of Sustainable Development Goals in Universities, organized by QEC Govt. College Women University Faisalabad, on October 27, 2021. After acquiring suitable training, the QEC MUST has first time made a successful application submission on November 12, 2021 for the Times Higher Education Impact Ranking 2022, to enter into the global research competition.

A Webinar on "A Journey towards Foreign Higher Education"

A webinar on "A Journey towards Foreign Higher Education" was organized by the Student Development Circle (SDC) on September 20, 2021. Engr. Dr. Sohaib Manzoor was the resource person of the event. The aim of this webinar was discussed with students about the opportunities abroad and tips for success.

A Webinar on "Research Design and Methodology"

A one-day webinar on "Research Design



MUST at the glance



Defence Day 2021



VC MUST presenting shield to Dr. M. Majid, AIU, Guest Speaker



Career Counselling Session at MUST, Mirpur



and Methodology" a complete guide on execution of a research project was organized by the Student Development Circle (SDC) on September 27, 2021. Dr. Muhammad Aamir, Assistant Professor, Department of Chemistry, MUST was the resource person of the event. The aim of this webinar was to discuss aspects of research projects.

A Webinar on "Online Earning"

A webinar on "Online Earning" passive income for students without investment was organized by the Student Development Circle (SDC) on October 07, 2021. Mr. Faisal Latif Assistant Director ORIC, MUST was the resource person of the event. Mr. Faisal Latif is also a founder and senior trainer at STEPS.

MUST Celebrates the Pink Ribbon Awareness Campaign in Collaboration with HEC

Pink Ribbon in collaboration with the HEC, Pakistan has organized a Youth Awareness Drive on Breast Cancer. In this connection, MUST has organized a two - day awareness drive at MUST City Campus. The inauguration ceremony of PINK Ribbon was held in the lawn of City Campus. The Dean, Faculty of Engineering and Technology was the Chief Guest of the opening ceremony. The Director of Graduate Placement Bureau, the Director of Students Affairs, the Chairpersons, faculty members, and students of the University all attended the ceremony. During the PINK Ribbon awareness campaign, faculty and students wore Pink Ribbons to remember those lost to the disease and to support the progress that is being made together to defeat breast cancer. Senior faculty members also penned down their thoughts on the comments wall. The two-day campaign allowed us to highlight the women health issue as a top health priority, as

this disease affects many women in their lives. On the second day of the event, a walk was organized inside the campus, followed by an awareness seminar. Dr. Zahida Qasim and Dr. Hina Zubair were the resource persons. The closing ceremony was graced by the Dean, Faculty of Social Sciences and Humanities. The certificates were awarded to the volunteers. The campaign ended with the display of sky lanterns.

1st Industrial Exhibition Staged by ORIC MUST

The 1st Industrial Exhibition was organized by ORIC MUST on November 29, 2021 at MUST City Campus ground. The Vice Chancellor, MUST Engr. Brig. (R) Prof. Dr. Muhammad Younus Javed, S.I (M), was the chief guest of the event. He, along with Mr. Faisal Manzoor, President of the Chamber of Commerce and Industries, inaugurated the event. There were 42 stalls at the event from the different departments of the MUST. Participants from different universities and industries like COMSATS University Islamabad, UET Taxila, University of Kotli, LUMS Lahore, BOUITEM University Quetta, Mobiroid, Esols, Selftech, and MIT Mirpur also displayed their products and services at the exhibition. The event was extensively covered by local and national media. The Vice Chancellor appreciated the Director ORIC, Prof. Dr. Faisal Riaz, and his team for organizing the successful event.

Retirement of Associate Professor from Electrical Engineering Department

The Vice Chancellor of MUST is presented a shield to Director P&D Muhammad Shahbir Mirza on the successful completion of his service, accompanied by the Dean Faculty of Engineering and Technology, Registrar, Treasurer, and Chairman, Department of Electrical Engineering, in the Video Conference Room of MUST City Campus.



Director ORIC MUST meets Regional Director SMEDA

The Director ORIC MUST, Prof. Dr Faisal Riaz met Mr. Ch. Rukhsar Warraich, Regional Director SMEDA, Chamber of Commerce, Gujarat on November 18, 2021 at Chamber of Commerce, Gujarat . The goal of this meeting was to strengthen industrial cooperation between MUST and Gujarat Industry. Mr. Ch. Rukhsar Warraich showed his interest in academia-industry collaboration with MUST and agreed to provide opportunities to the students and researchers of MUST in SMEDA and local industry.

MUST Won First Position in Intervarsity Speech Competition

Mr. Dawar Nadeem, student of the Department of International Relations won first position in all AJK Intervarsity Speech Competition organized by the University of Azad Jammu and Kashmir concerning Kashmir Premier League (KPL). Hon'ble President of Azad Jammu and Kashmir/ Chancellor Universities was the Chief Guest of the ceremony and the President awarded the prizes and shields to the winners. The Vice Chancellor appreciated and congratulated Mr. Dawar Nadeem and whole MUST for winning AJ&K Inter University Speech Competition. He also awarded cash prize in another ceremony held on August 10, 2021. The Vice Chancellor said this is a moment of pride for all of us.

Inauguration of Faculty of Veterinary and Animal Sciences

The Vice Chancellor, MUST, inaugurated the Faculty of Veterinary and Animal Sciences at Bhimber Campus on September 01, 2021. The Registrar, Treasurer, and Coordinator Bhimber Campus MUST also participated in the inaugural ceremony.

Orientation Session and Ideation Workshop by ORIC

An orientation session of Pakistan Startup Cup 2022 was held at Mirpur University of Science and Technology on December 14, 2021 at Mechanical Hall, City Campus MUST by ORIC. Mr. Khawar Mahmood, Communication and Program Manager, The Indus Entrepreneurs (TiE), Islamabad was the guest speaker of the event. He elaborated on the key features of the upcoming Startup Cup 2022. Final year students from different departments participated in the event with faculty members. The TiE - Islamabad has launched the 8th edition of the Pakistan Start-up Cup, the biggest startup competition in Pakistan, with the vision of connecting, helping scale, and inspiring young innovators and entrepreneurs all around Pakistan.

One day Training on Quality Assurance Procedures and Implementation

One day training on quality assurance procedures and implementation in affiliated colleges of the MUST was held on December 11, 2021 at the old secretariat MUST. The workshop was organized by the Quality Enhancement Cell (QEC) of the university. The Registrar MUST and DSA joined the workshop. The aim of organizing this training workshop was to educate the affiliated colleges about the quality assurance procedures and Implementation, assessment program, and the team members' responsibilities and skills required for the composition of the self-assessment reports. The Director QEC, University of Gujrat, Dr. Shahzad Murtaza was the resource person for the training.

One-day Awareness Session on Mastitis in Dairy Animals

A one-day awareness session on Mastitis in Dairy Animals was organized on October



18, 2021 in the Faculty of Veterinary and Animal Sciences, Bhimber Campus. Prof. Dr. Tanveer Ahmed, Chairman Department of Clinical Sciences Medicine, Faculty of Veterinary Sciences, Bahauddin Zakariya University Multan was the guest speaker of the session. A number of faculty, students and the dairy farmer community participated in the event.

SAC Interactive Sessions with the Departmental Focal Persons

The Student Assistance Centre (SAC) organized an interactive session with the Departmental Focal Persons for different scholarships schemes. The sessions were arranged in Conference Room of Electrical department on December 23, 2021. The aim of the meeting was to share and discuss ongoing scholarship calls. The Director SAC, Dr. Mohsin Zafar, thanked all respected fellow colleagues for their active participation and put all concerns regarding different scholarships and their award processes to rest. He further said that with the coordination and support of the departmental focal person, we are committed to reaching every needy student of MUST and to exploring and turning every stone regarding scholarship funding for our needy students. He also appreciated the focal persons for sparing time and voluntarily working for this noble cause.

Participation in EOMS 21001 Training organized by ISO

The Deputy Director, QEC MUST participated in Lead Auditor ISO 21001 standards training organized by Quality Systems International (QSI) for Management System for Educational Organization (EOMS). The training was held during 13th to 17th December, 2021 at Lahore. EOMS ISO 21001 open course specifies the requirements for a management system for educational

organizations when such an organization needs to demonstrate its ability to support the acquisition and the development of competence through teaching, learning or research; and also aims to enhance the satisfaction of learners, other beneficiaries, and staff through the effective application of international standards. The QEC MUST is keenly interested in implementation of EOMS ISO 21001 standards at MUST Mirpur.

A LIDAR Technology Training

A LIDAR technology training was conducted on November 02, 2021 at Conference Hall, CS&IT building City campus MUST by the Agricultural Robotics Lab LUMS, Lahore. After the training session the LUMS handed over Velodyne LiDAR of worth 04 million to ORIC, MUST. This technology will help MUST researchers in acquiring real-time perception data to enable safe and reliable operation for robotics.

INQAAHE Membership

The memberships of international quality assurance bodies obtained by QEC are important parameters which reflect the global exposure to institutional quality criteria. The QEC MUST have pursued its application to the International Network of Quality Assurance Agencies in Higher Education (INQAAHE) and become an active member of INQAAHE by December 01, 2021.

MUST signed MoU with Poulta Inc.

The MUST and Poulta Inc. signed a MoU for developing and establishing a collaboration in the field of poultry. The purpose of this MoU was to strengthen the Poultry services in the region. The MOU was signed by the Vice Chancellor MUST and the CEO of Poulta Inc. Mr. Muhammad Ali Sloungi, Coordinator, Faculty of Veterinary and Animal Sciences







Pinktober 2021



Plantation 2021



Prize Distrubtion Sports Championship 2021



Dr. Abid Hussain along with his faculty members, and General Manager Poulta Inc. Mrs. Khushbakht Ashraf along with her team was present in the event.

Conferences /Seminars/Workshops

A seminar 'Final Year Project' organized by CS&IT Department

A seminar titled 'Final Year Project' was organized by the Department of CS&IT in collaboration with SOCIT (Society of Computer Science & Information Technology) MUST on December 10, 2021. The objective of this seminar was to discuss about the opportunities of computer science and market demand, and how to improve skills for achieving the goals in better ways. Mr. Umar Aziz (alumnus of CS&IT department) was the guest speaker, he had 15-year experience of software industry in multinational companies.

MUST Organized Seerat-al-Nabi (PBUH) Conference

The MUST organized Seerat-al-Nabi (PBUH) Conference on 19th October 2021 in the Mechanical Engineering Hall. The Vice Chancellor was the Chief Guests of the conference. All Deans, HoDs, Coordinators, Faculty Members, Students and staff of the University, representative of electronic and print media also participated in the event. Prof. Dr. Ismitullah, (Retd.) Islamic Research Institute, International Islamic University, Islamabad. Former Imam Faisal Masjid, Islamabad was the Chief Guest and Qazi Awais Ahmed, District Qazi Kotli, AJK was guest speaker of the Conference. The conference was organized by Institute of Islamic Studies.

Participation in the 3rd International Conference on Emerging Trends on Earth and Environmental Sciences

Dr. Rizwan Ullah, Lecturer Department of

Zoology participated and presented his Research Paper in the 3rd International Conference on Emerging Trends on Earth and Environmental Sciences organized by College of Earth and Environmental Science University of Punjab Lahore from 15th-18th November, 2021.

Webinar on Entrepreneurial Intention among Engineering Students: Challenges and Economic Stimulation

A webinar on "Entrepreneurial Intention Among Engineering Students: Challenges and Economic Stimulation" was organized under the supervision of the Dean Faculty of Engineering and Technology on June 10, 2021. H.E. Sardar Masood Khan President/Chancellor MUST was the Chief Guest of the event. A number of entrepreneurs from different fields of life participated in the webinar and shed light on how entrepreneurship plays an important role and is essential for national economic growth as well as for employment creation. The aim of organizing this webinar was to analyze the impact of self-motivation on entrepreneurial intentions among future generations of engineers.

Seminar on Digital Marketing

A seminar on Digital Marketing was organized by Faculty of Must Business School on June 16, 2021. The aim of organizing this seminar was to provide information to student how latest technology is helping to grow the new business. Mr. Faisal Latif was the resource person of the seminar. He guided students how Facebook and YouTube can be used for marketing and which latest tools should be used for digital marketing. The seminar was attended by the faculty member and a large number of students.

Awareness Seminar on Islamic Banking

A seminar on awareness of Islamic Banking was organized by the students of



the Department of Banking and Finance on August 17, 2021. The seminar was sponsored by Meezan Bank Limited. Mr. Zulqurnain Haider, Vice President, product development and shariah was the guest speaker of the event. In his address he shared the information regarding Islamic banking how it works and why people should go for Islamic banking. The seminar was attended by the faculty member and a large number of students.

Training Seminar on Health and Safety

A training seminar on process safety management was organized by the Department of Mechanical Engineering in coordination with Lariab Energy Limited on December 17, 2021 in Mechanical Hall. Col. (R) Tariq Farid, Manager CSR and Admin, Engr. Naseer Hanif Janjua, Manager HSE and Technical Training, and Mr. Aqeel Ahmed, Admin Officer, Lariab Energy Limited was the recourse persons of the training. Engr. Brig. (R) Prof. Dr. Muhammad Yunus Javed, SI (M), Vice Chancellor, MUST was the chief guest of the seminar. The goal of this training was to provide students with an understanding of the importance of safety in the workplace, its impact on society, and safety management procedures. The seminar was attended by Professor Dr. Syed Hassan Mujtaba Jafri, Dean Faculty of Engineering and Technology, MUST, Dr. Muhammad Altaf Hussain, Director Student Affairs, MUST, Dr. Khurram Pervaiz, Chairperson MED, faculty and students.

Training Seminar for Final Year Design Project

A training seminar regarding Final Year Project management was organized by the Department of Mechanical Engineering on December 16, 2021 in Mechanical Hall, City Campus MUST. Engr. Faraz Ikram, Assistant Professor MED and Engr. Haroon Mushtaq, Lecturer MED was the resource

person of the training.

Participation in Online training organized by SAARC Energy Center

Engr. Dr. Khurram Pervez Amber, Chairperson/ Associate Professor, Department of Mechanical Engineering attended a five days online training titled "Digitalizing Industrial Motor Systems for Energy Efficiency" from 6th -10th December, 2021 organized by the South Asian Association for Regional Cooperation (SAARC) Energy Center.

Participation in the 4th IBPHR at GCU, Lahore

Dr. Ansar Ahmed Abbasi Chairperson, Department of Zoology along with faculty and students participated and presented his research paper in the 4th IBPHR organized by Department of Zoology GCU, Lahore on December 07 to 08, 2021.

MUST Green Society organized "In the mission to make the city clean and green" event

The Green Society MUST has conducted momentous "Cleanliness drives" at the request of the District Administration, collaborating with the other Societies of MUST. Two drives were conducted on 18th and 20th October 2021 at "Laanch Addah" and "Jari Kas Park" respectively. The district administration and the Director of Student Affairs MUST also participate and work with the students in the latter session, and they praised the entire management and team for their outstanding efforts.

MoU between ORIC MUST and Mirpur Chamber of Commerce and Industries

An MoU has been signed on December 10, 2021 between Mirpur Chamber of Commerce and Industries, and MUST for research collaboration between both



parties to commercialize the products of MUST Researchers. Prof. Dr. Faisal Riaz, Director ORIC and President Chamber of Commerce and Industries, Mr. Faisal Manzoor signed the MoU.

MOU signed between MUST and Muslim Hands International

The MUST signed an MOU with Muslim Hands Mirpur on December 10, 2021. The basic objective of the MOU is to engage the final year students of Department of CSE for different IT based social enterprise solutions.

Department of Software Engineering sign MOU with Industrial Partners

The department of software engineering signed multiple MOUs with several software industries to bring them on board as their industrial partner. This endeavor was undertaken by the department in an attempt to establish industrial linkage to bridge the gap between academia and its industrial counterpart. By the establishment of this linkage the department of software engineering, MUST hopes to positively impact its scheme of study with the experience of industrial experts and also help our graduates secure job offers from the industry.

Department of CS & IT organized "Open Day 2021" Event

The Department of CS & IT organized an Open Day 2021 on July 29, 2021 where final year students presented different research and development projects in the fields of self-driving vehicles, artificial intelligence, embedded systems, and e-commerce. A UK-based company, E-SOLS also displayed its stall to hire competent students. It was an outstanding and amazing event that helped the students be more trained and smarter to earn good jobs in practical life. Prof. Dr. Shaukat Mehmood, Dean, Faculty of Natural and

Applied Sciences, inaugurated the event and visited the stalls of the students. The visitors took an interest in the work of the students and appreciated their work.

'One belt, one road' Innovative Talent Exchange

A 'One belt, One road' Innovative Talent Exchange, funded by the Ministry of Science and Technology (MOST) China on Research Project 'Semiconductor Graphene Light Emitting Field-Effect Transistor' was held in Video Conference Room CS&IT building MUST City Campus on December 17, 2021. The Vice-Chancellor chaired the inaugural session. The consortium, which includes national and international researchers, was led by the Dean, Faculty of Engineering and Technology, MUST.

Sports Activities

Prize Distribution Ceremony of Azad Kashmir Intersity Sports Championship

The Prize Distribution Ceremony of the 'All Azad Kashmir Intersity Sports Championship' held on October 27, 2021 in the Mechanical Hall of the City Campus. The Chief Guest of the ceremony was Brig. (R) Prof. Dr. Muhammad Younus Javed, S.I (M), Vice Chancellor. All Deans of faculties, registrar, Director, AIQU regional Campus Mirpur, sports directors of public sector universities, Director, Main Mohammad Baksh Public Library, Chairpersons, Directors, Coordinators, and faculty members participated in the event. MUST was winner of both Championships (Cricket and Badminton).

Prize Distribution Ceremony of "MUST Intercollegiate Girls & Boys Athletics Championship 2021-2022"

The prize distribution ceremony of the 'MUST Intercollegiate Girls and Boys

Athletics Championship 2021-2022' held on November 11, 2021 at the Mechanical Hall at MUST City Campus. Deputy Inspector General Police (DIG) Mirpur region Chaudhary Sajjad Hussain was the chief guest at the closing ceremony of the MUST Intercollegiate Girls & Boys Athletics Championship 2021-2022. The Vice Chancellor extended a warm welcome to the chief guest on his arrival at the closing ceremony. He said that it is a matter of immense pleasure to host this ceremony that has been observed to commemorate the achievements of our teams, athletes, and officials. He congratulated the Director Sports Mr. Abid Hussain along with his entire team, the DSA, Dr. Muhammad Altaf, the Director SAC, Dr. Moshin Zafar,

and the Admin Officer, Mr. Muhammad Ayub on holding a well-organized event. The Deputy Inspector General of police, (DIG) Chaudhary Sajjad Hussain awarded shields to the winners and certificates to the rest of the participants.

The HEC Intervarsity Sports Competitions

The players from MUST participated in the all-Pakistan Intervarsity Kamyab Jawan competitions held from December 05 to 09, 2021 in Islamabad. The Directorate of Sports encouraged and facilitated the players' participation in HEC intervarsity sports. The teams (girls and boys) of MUST participated in the athletics, boxing, and volleyball competitions.



MUST Intercollegiate Girls & Boys Athletics Championship 2021



6th September 2021



1st Industrial Exhibition



14th Academic Council



24 October Youm-e-Tasees

Youn e Haq e Khud Aradiat Kashmir 5 January 2022

The Vice Chancellor Dr. Younis Javed SI (M) and the Deputy Commissioner Dr. Umar Azam have said that on January 5, 1949, the United Nations, while recognizing the muslim right to self-determination of kashmiris, had given the right to the people of the state of Jammu and Kashmir to hold a referendum and decide their future but even after the passage of 75 years, the Kashmiri Nation was deprived of this right. India and Pakistan have fought three wars to resolve the Kashmir issue.

Pakistan has always stood with Kashmiris. If there was no Kashmir issue, today

Pakistan would not be the nuclear power of the world. University students should do their best to raise the issue of Kashmir, they have to make long struggles and sacrifices for the freedom of nations. The people of Afghanistan and Vietnam have defeated the superpowers of the world for their freedom. Keeping in view the long struggle and sacrifices that Kashmiris have made for the success of the Kashmiri freedom movement, there should not be despair at any stage, Kashmiris will definitely get freedom and Kashmir will become independent and become part of Pakistan.



University of Shanghai China & MUST signed MoU

An International Memorandum of Understanding (Credit Recognition Cooperation Agreement) signed between Faculty of Engineering and Technology, Mirpur University of Science and Technology (MUST), Pakistan & College of Automation Engineering, Shanghai University of Electric Power (SUEP), China through Video MUST City Campus on Wednesday, January 5, 2022.

Brig (R) Prof. Dr. Muhammad Younus Javed SI (M) chaired the MoU signing ceremony,

accompanied by Prof. Dr. Syed Hassan Mujtaba Jafri Dean Faculty of Engineering and Technology (Signatory Officer), Dr. Muhammad Khalique Treasurer, Dr. Naseem Akhtar Director Graduate Placement Bureau and Dr. Ilyas Minhas Associate Professor Electrical Engineering. The Vice Chancellor thanked the dignitaries of Shanghai University for their support to MUST, to magnify its engineering sector. The Vice Chancellor said Pakistan greatly valued time-tested and brotherly relations with China



MUST and Mangla Metals signed MoU

On October 21, 2021 a high level meeting held in MUST secretariat to amicably resolve the ongoing issue of land dispute/settlement and reach negotiated settlement between MUST Mirpur & Mangla Metals/ Mangla Steel & Re-Rolling Mills Pvt. Ltd various phase of discussion held between both sides which finally reached to settlement with mutual consensus.

Director Planning & Development Syed Zeeshan Ashiq, Director Estate Management Mr. Shaukat Hayat Khan & Chief Security Officer Lieutenant Colonel

Usman were in negotiation Committee & signatories from MUST.

Today on January 5, 2022 at Head Office of Mangla Metals (Private) limited/ Mangla Steel & Re-Rolling Mills (Pvt) Ltd final agreement signed by Brig. (R) Prof. Dr. Muhammad Younus Javed SI(M) and CEO Mangla Metals (Private) limited / Mangla Steel & Re-Rolling Mills attend by Registrar Prof. Dr. Khazir Ul Haq, Treasurer Dr. Muhammad Khalique, Director P&D Syed Zeeshan Ashiq & Chief Security Officer Lt. Col Muhammad Usman.



Pegham-e-Pakistan (PeP) MUST

The MUST, Mirpur hosted Paigham-e-Pakistan, a one day National Conference on Peace building, perception management and reconstruction of society in the Mechanical Hall of the City Campus on Wednesday, January 12, 2022.

The Vice Chancellor graced the first ever Paigham-e-Pakistan Conference in Azad Jammu and Kashmir since its inception in January 2018.

Sardar Babar Hussain of Jammu Kashmir United Students Movement (JK USM) was guest speaker & delivered his thoughts on topic, 'The Role of Base Camp in Kashmir's independence movement'.

The Vice Chancellor, while addressing the participants lauded the efforts of Pakistan against extremism & terrorism. He said, we are brave Nation at only 75 years,

this young Nation has seen more than its due share of turbulence. He stressed that to embark on the glorious journey it is necessary that society should be peaceful and stable as it was before two decades. The Vice Chancellor advised the participations that it is prime responsibility of all citizens of the country to portray moderate and soft image of Pakistan and project Islam as a religion of peace & tranquility, brotherhood & tolerance.

Dean Faculty Natural & Applied Sciences, Dean Faculty of Medical Sciences, Dean Faculty of Veterinary and Animal Science, Director MUST Business School, Registrar, Treasurer, Controller of Examinations, Director Graduate Placement Bureau, Director Students Assistant Centre, Director Students Affairs, Director Works, Chairpersons, Coordinators, Faculty members and students participated in the PeP Conference.



Helping the Humanity

The Vice Chancellor MUST addressed to the audience in a ceremony organized by Founder Chairman Kashmir Orphans Relief Trust (KORT), Chaudhary Muhammad Akhtar Sitara-i-Imtiaz, chaired by His Excellency President of Azad Jammu and Kashmir & Chancellor MUST, Barrister Sultan Mehmood Chaudhary. A large number of people, including high ranking officials, attended the ceremony at Mirpur. The Vice Chancellor MUST said that

Kashmir Orphans Relief Trust (KORT) is doing great service in terms of providing quality education, clean water, medicines, small houses and household items to the poor and disabled children, men & women of not only Azad Jammu & Kashmir and Pakistan, but also to the needy people of Afghanistan. He said that Almighty Allah will give a great reward to the management of KORT and its donors for helping the humanity.



Kashmir Solidarity Day



The National Accreditation Council for Teacher Education (NACTE) February 19, 2022

The NACTE, visited the department of Education, MUST from February 16-19, 2022 for the accreditation of undergraduate & postgraduate programs.

Orientation session was attended by the NACTE team and principal officers. The orientation session was followed by the extensive visit of infrastructure, classrooms & observations of documentary analysis.

On closing day NACTE team comprising of Secretary NACTE, Dr Khalid Mahmood, Dean Faculty of Education University of Baltistan, Skardu, Dr Ashfaq Ahmad Shah & Dr Najam ul Kashif Assistant Professor, IUB, Bahawalpur called on the Vice Chancellor MUST, Mirpur.

The Vice Chancellor thanked the officials of National Accreditation Council for Teacher Education (NACTE) and presented shields.



Brief Report: Research Partnership between Xian University, China & Mirpur University of Science & Technology (MUST), Mirpur-AJ&K (Pakistan)

A memorandum of Agreement signed on October 10, 2022 between The International Collaborative Research Centre for /Language and Culture (ICRCLC) of the Xian University and Mirpur University of Science & Technology (MUST), Mirpur. This initiative was taken by Xian University under the framework of the Belt and Road Initiative (BRI). As we all know that CPEC is one of the big economic collaborations between Pakistan and China, our partnership with Xian will also create an opportunity for MUST to play its role in a productive way to the progress of the country. Through exchange programs this partnership will provide a chance to the students and faculty members to share their research and skills and create and develop an effective learning environment for future generations.

Initially, MUST and Xian University agreed to cooperate on international language and cultural communication by carrying out cross-cultural communication research. In this regard both universities have started a project 'Intercultural Pak-China Language Project' which will develop a language course for corporate sector top to bottom positions: CEOs, managers, laborers involved in CPEC projects.

25th Selection Board

The 25th Selection Board was held at MUST on 15th May, 2022. The Vice Chancellor along with Prof. Dr. Shaukat Mehmood, Dean Faculty of Natural & Applied Sciences, Prof. Dr. Khazir Ul Haq Registrar, MUST Dr. Anser Abbasi, Chairman Zoology, Mr. Muhammad Naveed, Deputy Registrar, Mr. Tahir Mehmood, Senior DEO and Mr. Karamat Subhani, Assistant participated.



25th Selection Board (Phase I, II, III)

Pakistan Day Celebration 23rd March 2022

To commemorate Pakistan Day, the MUST held flag hoisting ceremony followed by Resolution Day ceremony on Wednesday, March 23, 2022 at 08:55 am in the City Campus of the Mirpur University.

Day was marked with flag hoisting ceremony by the chief guest, Dr. Muhammad Amin Chaudhary, former Director General Mirpur Development Authority & CEO Jinnah Hospital followed by state and university flags by Prof. Dr. Khazir Ul Haq, the Registrar MUST and Dr. Sadat Hanif Dar, Dean Faculty of Veterinary and Animal Sciences.

The ceremony was attended by Prof. Dr. Khizar ul Haq, Registrar MUST, Prof. Dr. Anwar khtiab, Dean Faculty of Health & Medical Sciences, Dr. Sadat Hanif Dar, Dean Faculty of Veterinary and Animal Sciences, Dr. Muhammad khalique, Treasurer MUST, Dr. Zafar Iqbal, Director MUST Business School, Mr. Kamran Hameed, Controller of Examinations MUST, Dr. Naeem Iqbal Ratyal, Chairman Electrical Engineering, Dr. Muhammad Altaf, Director Student's Affairs, Mr. Ansir Ali, Deputy Director Student's Affairs, Mr. Muhammad Naveed, Deputy Registrar, Chairpersons, faculty members, Administrative Staff & Students.

The chief guest Dr. Amin Chaudhary commended services of the MUST for AJ&K, lauded its overall ranking and thanked university administration for inviting him as a chief guest of the glorious day.

At the closing of ceremony shields were presented to the chief guest, the Deputy Commissioner Mirpur, Additional Deputy Commissioner Mirpur and organizers of the event.



Meeting with the Chancellor March 04, 2022

The Meeting of the Committee constituted by President of AJ&K and Chancellor of Public Sector Universities of AJ&K was held at President Secretariat, Kashmir House, Islamabad. The Meeting was chaired by the Chief Secretary AJ&K and all the Vice Chancellors, Finance Secretary, Additional Chief Secretary HED and Secretary of Presidential Affairs attended as members.

Presentation was given by the respected Vice Chancellor MUST on the alarming financial situation of Public Sector Universities of AJ&K and fruitful discussions took place for the provision of Special Annual Grant-in-Aid for the universities.



Spring Tree Plantation Drive 2022

The Green Society of MUST in collaboration with Prime Minister's Kamyab Jawan Green - Youth Movement & Muslim Hands organized Plantation Drive 2022 in City Campus of the university on Tuesday, 8th March 2022, in an effort to make a Green University.

The Vice Chancellor planted a sapling at the City Campus in the opening ceremony of Plantation Drive 2022, as a gesture to encourage the students to fully participate in the Plantation campaign. The Vice Chancellor urged the Students to join hands with the vision of Prime Minister Imran Khan towards a cleaner greener Pakistan and assured full support to MUST Green Society.

Prof Dr Muhammad Aziz Chaudhary, Dean Faculty of Natural and Applied Sciences, Prof Dr Khazir Ul Haq, Registrar MUST & Journalist Sajjad JarraI planted trees on the occasion. Director SAC, Director Student's Affairs, Deputy Director Student's Affairs, Admin Officer Estate, Security Officer and MUST Students participated in the inauguration ceremony.





13th Meeting of Advance Studies & Research Board (AS&RB)

Dr. Muhammad Ishtiq, Director Advance Studies & Research Board and Dr. Shahid Aziz, Deputy Director AS&RB received Worthy Vice Chancellor on 13th Meeting of AS&RB.

Brig. (R) Prof. Dr. Muhammad Younus Javed SI (M), Vice Chancellor MUST, Mirpur / Chairman AS&RB, chaired 13th Meeting of Advance Studies & Research Board (AS&RB), held on Wednesday, 9th March 2022 in the Electrical Conference Hall, City Campus, MUST at 15:00 pm.

Prof. Dr. Khazir Ul Haq Registrar MUST, Prof. Dr. Anwar Khitab Dean Faculty of Health and Medical Sciences, Prof. Dr. Hassan Mujtaba Jafri, Dean Faculty of Engineering and Technology, Prof. Dr. Tahseen Ghous, Dean Faculty of Social Sciences and Humanities, Prof. Dr. Muhammad Aziz Chaudhary, Dean Faculty of Natural and Applied Sciences, Dr. Sadat Hanif Dar, Dean Faculty of Veterinary and Animal Sciences, Dr. Muhammad khalique, Treasurer MUST, Dr. Rashida Hussain, Chairpersons department of Mathematics and Dr. Naeem Ahmed Ratyal, Chairpersons department of Electrical Engineering participated as members of AS&RB meeting. Mr. Kamran Hameed, Controller of Examinations was observers of the AS&RB Meeting.



12th Meeting of Board of Management for Benevolent Fund (BMBF)

Brig. (R) Prof. Dr. Muhammad Younus Javed SI(M) chaired 12th Meeting of the Board of Management for Benevolent Fund (BMBF) held on Wednesday, 9th March 2022, in Electrical Conference Hall. Mr. Mirza Tariq Mehmood, Deputy Registrar (Admin)/ Secretary BMBF, and Mr. Asghar Hussain, Assistant Registrar (Admin) presented Agenda of 12th Meeting of BMBF.

Eng. Prof. Dr. Syed Hassan Mujtaba Jafri, Dean Faculty of Engineering and Technology, Prof. Dr. Khazir Ul Haq, Registrar MUST and Dr. Muhammad Khalique, Treasurer MUST were members of the BMBF. Dr. Syed Zakir Hassan Bukhari, Associate Professor Department of Mathematics, Mr. Aftab Ahmed Abbassi, Deputy Controller of Examinations, represented faculty and administrative staff.

Mr. Abdul Rauf, Senior Clerk, CS&IT, Mr. Altaf Hussain, Machine Operator, Registrar Office & Mr. Zafar Iqbal, Gardener, Director of Estate Management were representatives of employees from Grade (01 to 15).



Grand Finale of HULT Prize MUST

The Vice Chancellor graced the prize distribution ceremony of the Hult Prize which is an annual, year long competition that crowd sources ideas from university level students after challenging them to solve a pressing social issue around topics such as food security, water access, energy, and education.

The Vice Chancellor while addressing the participants said Hult Prize is one of the world's most acclaimed entrepreneurship programs operating on more than 1500 University campuses in 135 countries and has become a benchmark startup challenge for social entrepreneurship.

The Vice Chancellor praised organizers of the event, Judges & Students who took keen interest in the competition. Vice Chancellor distributed shields and certificates amongst the winners.

At the end of even, the Judges of Hult competition presented shield to the worthy Vice Chancellor, MUST.



K.H Khurshid Death Anniversary

The MUST observed death anniversary of Khurshid Hasan Khurshid, a high-ranking Kashmiri leader, former President of Azad Jammu and Kashmir & noteworthy former Private Secretary of Quaid-e-Azam Muhammad Ali Jinnah. Event was organized in Mechanical Hall of the City Campus on Friday, 11th March 2022 at 10:00.

Prof. Dr. Hassan Mujtaba Jafri, Dean Faculty of Engineering and Technology presided over the death anniversary of K.H Khurshid. Guest speakers Muhammad Shakeel Station Director of Azad Kashmir Radio, FM 93 Mirpur and Muhammad Saeed Asad, Director National Institute of Kashmir Studies (NIKS) / Author of **خورشید - حیات و مقاصد** lauded the services of K H Khurshid which had rendered for Jammu and Kashmir in creation of Pakistan.

Students from MUST Literary Society also presented speeches on the life of renowned Kashmiri leader. The day was observed with great devotion and fervor to pay homage to great leader & aimed at making the students aware of inspiring past and the ultimate sacrifices of great leader K.H Khurshid.

Dean, Faculty of Natural and Applied Sciences, Dean, Faculty of Veterinary and Animal Sciences, Director Student's Affairs, Chairpersons, faculty members, Admin Officer & staff of Student's Affairs directorate attended the death anniversary.

Dean Faculty of Engineering and Technology presented note of thanks to the Guest Speakers, Students & Organizers of the event.



Brigadier Gulzareen, Commander 26 Brigade

Brigadier Muhammad Azad, Commander 101 Brigade, Mangla Garrison were called on Brigadier (R) Prof. Dr. Muhammad Younis Javed SI(M) Vice Chancellor MUST at University secretariat Jarikass on Thursday, March 17, 2022 at 12:00 hrs. Lieutenant Colonel (R) Muhammad Usman accompanied senior Military Commanders to Jarikass.

Matters of mutual interest, University ranking, education policies and MUST contributions for the State of Jammu and Kashmir were discussed. Visiting dignitaries recognised and appreciated Brigadier Younis Javed's sincere efforts and role in upbringing of MSUT. The Vice Chancellor, thanked Brigadier Gulzareen and Brigadier Azad for visiting the MUST.



HBL Scholarship Ceremony March 17, 2022



MUST, Mirpur paid homage to Captain General Syed Ali Ahmed Shah, former President & first Defence Minister of Azad Jammu and Kashmir

The MUST with the collaboration of Jammu and Kashmir Liberation Cell (Kashmir Centre Mirpur) & Syed Ali Ahmed Shah Society observed 32nd death anniversary of the former President & first Defence Minister of Azad Jammu and Kashmir, Captain General Syed Ali Ahmed Shah with solemnity & reverence on Monday, March 21, 2022 at 11:00 hrs in Mechanical Hall of the City Campus. The Vice Chancellor, MUST with the renewal of the pledge to continue his mission, paid eulogizing tribute to Ghazi Millat-former President for his political services & supreme sacrifices for the nation.

Shouket Majeed Malik, former Secretary Information Govt. of AJ&K, Fida Hussain Kiyani, former DG Jammu and Kashmir Liberation Cell, Advocate Syed Nashat Kazmi, former President Supreme Court Barr Association and President Ali Ahmed Shah Society, Advocate Imtiaz Hussain Raja, President District Barr Council Mirpur, Syed Qasir Sheraz Kazmi, General Secretary Syed Ahmed Shah Society, Malik Muhammad Aslam, Senior Hurriyat Leader & Chairman J&K Mili forum & Chaudhary Munir Ahmed Advocate were the speakers of event.

All the speakers acknowledged and highlighted matchless services and struggle of the former President for the people of Jammu and Kashmir and appealed to the leadership of Azad Kashmir to unite on one platform and leverage their strengths in a united manner to help take forward the freedom struggle of the oppressed Kashmiris in Indian Occupied Kashmir and help them ascertain their right to self-determination.

On the request of General Secretary Ali Ahmed Shah Society of renaming University Central library with Ali Ahmed Shah, Brigadier Younis Javed, Vice Chancellor MUST issued directives for the constitution of a high level committee to address the society's request. At the closing prayers were offered for Captain General Syed Ahmed Shah and Former Chief, Justice Malik Majeed.



Brigadier Younis Javed inaugurated World Home Economics Day (WHED) at MUST, Mirpur

The Department of Home Economics of MUST, Mirpur organized a grand event in connection with the World Home Economics Day (WHED) celebrations. The Vice Chancellor MUST, Mirpur along with the Chairperson of Department of Home Economics, faculty members & students inaugurated the event by a ribbon cutting ceremony on Friday, March 25, 2022 at 10:00 hrs in Home Economics Block

All five disciplines of Department of Home Economics-Art & Design, Food & Nutrition, Home Management & Interior, Textile and Clothing and Human Development and Family Studies showed their potential and displayed variety of projects & products.





FOREIGN DELEGATION SPECIAL TECHNOLOGY ZONES AUTHORITY (STZA) VISIT

Engr. Brig (R) Prof. Dr. Muhammad Younus Javed, S.I (M), assumed the office of the Vice Chancellor of the Mirpur University of Science and Technology, Mirpur AJ&K on June 28, 2021.



MUST, Mirpur hosted a Lecturer on Kashmir, amid of global geopolitical shift

Mr. Khalid Mahmood, Former Member of Norwegian and City Parliament & President Pakistan Welfare Organization of Norway, visited Mirpur University of Science and Technology (MUST), Mirpur on Tuesday, March 29, 2022 and delivered a lecture on a topic titled: "The place of Kashmir issue in a post Russian aggression against Ukraine era" in Mechanical Hall of the City Campus at 11:00 hrs. Brig. (R) Prof.Dr. Muhammad Younus Javed SI (M), Vice Chancellor MUST along with Deans and HoDs paid warm welcome to the honorable Guest Speaker.

Mr. Khalid Mahmood is a renowned Pakistani Norwegian politician who remained Member of Oslo City Parliament from 1987 - 2019, Member of Norwegian Parliament from 2005 - 2013, served as Deputy representative to the Norwegian Parliament, longest sitting Oslo City Council, Author of book Struggle for Kashmir " KAMPEN OM Kashmir" which is first of it's kind in indigenous Scandinavian language & written another book titled:??? for overseas Pakistani in national language. Being a dominating voice in West Mr. Khalid Mahmood organized rallies & seminars on Kashmir in Norway and Europe and stood by the people of Jammu and Kashmir.

The Vice Chancellor in his welcome remarks said that it was a great honor for all of us to have such seasoned & senior Pakistani Norwegian politician in Mirpur University who served 32 long years in Oslo Parliament & by virtue of his position he highlighted Kashmir cause throughout his political career. He thanked Mr. Khalid Mahmood for paying this visit and making University students aware of global challenges in context to Kashmir issue particularly after Russian - Ukraine conflict.



Mr. Khalid Mahmood said it is indeed privilege to represent and speak on behalf of millions of incredible and brave Kashmiris on all major platforms of the World and he considers it was his supreme national responsibility and to fulfil this obligation, he made untiring efforts to justify huge responsibility.

While delivering lecture on Kashmir issue given historical perspective of Kashmir issue, roots of conflict and challenges that are being evolved on all global platforms such as United Nations, European Parliament and Indian lobbies & propaganda at International level in wake of Russia Invasion of Ukraine.

Former Member Norwegian Parliament has also identified possible ways and means to counter Western criticism on all global media & platforms.

The Lecture was followed by questions and answers session. The MUST faculty, staff & students inquisitively asked multiple questions to the Guest Speaker to have in depth knowledge about the Kashmir conflict.

Dean Faculty of Engineering and Technology, Dean Faculty of Natural and Applied Sciences, Dean Faculty of Social Sciences and Humanities, Dean Faculty of Veterinary and Animal Sciences, Director MUST Business School, Chairpersons, Coordinators, faculty members, Administrative Staff and students attended the session on Kashmir issue.



Mirpur University holds long awaited 18th meeting of the University Syndicate

The Vice Chancellor, MUST chaired 18th Meeting of University Syndicate on Thursday, March 31, 2022 at 11:00 hrs in Conference Room of MUST Secretariat Jari Khas.

In the opening remarks the Vice Chancellor MUST expressed a very warm welcome to the honourable members of the Syndicate. The 18th Meeting of University Syndicate was held after the interval of 15 months on which honourable Vice Chancellor MUST issued directives to the concerned officials to arrange syndicate meetings quarterly. Brigadier Younis Javed, showed his commitment to convene the Syndicate at least twice a year. He highlighted the importance of the syndicate & further said the syndicate is second in line after the Senate of the University, which is the University's supreme body. The core function of the Syndicate is to regulate, superintend & manage the organizational activities. He added it is the executive body of the University which takes effective measures to raise the standards of teaching, research, other academic pursuits & Administrative matters. Therefore, house must ensure proper implementation of the decisions of the syndicate & follow up mechanism must be adopted so that existing system can achieve tangible goals and decisions of this august and house can benefit the University in short & long-term which is core & ultimate objective of MUST, Mirpur.

Detailed & in-depth discussion was held on each and every item of the meeting. Matters related to affiliated colleges, reinstatement of the Directorate of Estate Management, Approval of AS&RB members, financial matters related to acquisition of land for Bhimber Campus, establishment of Business Incubation Centre (BIC) at MUST, implementation of higher education Policies at MUST, Implementation of HEC Policy Against Harassment at MUST, implementation of office memorandum of Govt. of Pakistan, regarding use of social media by government servant and other important recommendations of the house which will be presented in the Supreme Body of the University (Senate) were discussed, endorsed and approved.

House took measured actions in light of the directions & guidance of Brigadier Younis Javed, Vice Chancellor, MUST. The meeting ended with a note of thanks by Worth Vice Chancellor & group photo with the participants was taken at the entrance of University Secretariat.



Ehsaas Undergraduate Scholarship Batch - III

The Vice Chancellor, MUST chaired 15th Meeting of Institutional Scholarship Award Committee (ISAC) for the Ehsaas Undergraduate Scholarship Batch - III (Students of fall - 2021) in the Committee Room of Electrical Engineering on Wednesday, April 06, 2022 at 10:00 hrs.

Dr. Mohsin Zafar, Director Students Assistant Centre (SAC)/ Secretary Institutional Scholarship Award Committee (ISAC) & Staff of SAC Office paid warm welcome to worthy Vice Chancellor MUST on his arrival to City Campus. Ehsaas Undergraduate Scholarship Batch - 3 (fall - 2021) is three days session (6th to April 8th 2022) where students of all six faculties were interviewed.

Students of following faculties were interviewed on the first day:

1. Faculty of Social Sciences and Humanities
2. Faculty of Health & Medical Health

Mr. Zahir Ali Akbar, Deputy Director SAC, Mr. Muhammad Mustafa Yousuf, Assistant, Mr. Arshad Mehmood, DEO, Ms. Sundus Jamil DEO & Mr. Hafiz Mazhar Hussain

Account were the organisers of the 15th Meeting of Institutional Scholarship Award Committee.

Engr. Zulfiqar Hussain Shah, former Chief Engineer PWD, Mirpur, Prof. Muhammad Zaheer Chaudhary, former Chairman BISE Mirpur, Prof. Sajida Ghafoor, Principal Ghazi Elahi Bakhsh College, Mirpur & Prof (R) Parveen Fatima were external members. Prof. Dr. Muhammad Aziz Chaudhary, Dean Faculty of Natural and Applied Sciences, Prof. Dr. Hassan Mujtaba Jafri, Dean Faculty of Engineering and Technology, Prof. Dr. Anwar Khitab, Dean Faculty of Health and Medical Sciences, Dr. Sadat Hanif Dar, Dean Faculty of Veterinary and Animal Sciences, Dr. Zafar Iqbal, Director MUST Business School, Dr. Naeem Iqbal Ratyal, Associate Professor, Senior faculty member (male) & Dr. Rashida Hussain, Associate Professor, Senior faculty (female) participated as members of 15th meeting of Institutional Scholarship Award Committee (ISAC).



SAC held rupees 9.1 million PEEF Scholarship Award Ceremony followed by Iftar & charity Dinner

Punjab Educational Endowment Fund (PEEF) award ceremony was organized by students Assistant Centre (SAC) of MUST to handover Debit Cards of Bank of Punjab (BoP) & Pin Codes to winning University Students of all facilities (Master & M.Phil).

The scholarship award ceremony was arranged in Mechanical Hall of the City Campus on wednesday's evening. Dr. Moshin Zafar, Director Student's Assistant Centre in his opening remarks given brief introduction to the University students regarding PEEF & other national scholarships which are being offered in MUST. He said under the kind guidance of honourable Vice Chancellor of Mirpur University, SAC Office will go to any length to fetch scholarships for all degree programmes & would continue to support deserving University students.

Dr. Sadat Hanif Dar, Dean Faculty of Veterinary and Animal Sciences presided the scholarship award ceremony on behalf of the Vice Chancellor who was away in a official commitment. Event was attended by Dr. Zafar Iqbal, Director MUST Business School, Chairpersons, Coordinators, faculty members, administrative Staff and University students.

Dr. Sadat Hanif Dar, Dean Faculty of Veterinary and Animal Sciences, Dr. Zafar Iqbal, Director MUST Business School & senior faculty members handed over scholarships to 64 University students of master & M.Phil degree programmes, having worth of Rs: 128000 - 172000. SAC Office also hosted charity awareness Iftar Dinner in lawn of department of Mechanical Engineering.



MUST Chief Finance Officer (CFO) presentation on University financial health & emerging challenges

The Vice Chancellor, MUST presided financial awareness interactive session to educate academic & administrative employees of the university on financial security and emerging challenges for the MUST, Mirpur - on Thursday, April 14, 2022 at 09:30 hrs in the Mechanical Hall of the City Campus of the University.

Dr. Muhammad Khaliq Treasurer / Chief Finance Officer MUST gave detailed presentation via multimedia and with the help of pie charts & utilization report of last 5 financial years (earnings, expenditures & overall standing of the department in deficit / profit) Director showed financial status of each & every department of all six faculties.

The Vice Chancellor while addressing university employees highlighted the importance of financial security of the organization, current prevailing financial issues, steps taken by the administration since June 28, 2021 to lower the running cost of the university by taking extreme measures. Honorable Vice Chancellor advised the participants to reduce the expenditures of their departments, run austerity drives and find ways and means to improve the earnings. He added that a financial plan visualized without foresight may fail to meet the present as well as the future requirements & coming years would be more challenging as national universities are rapidly working to open their campuses in Mirpur Azad Kashmir which will eventually challenge this University, therefore it's a high time to serious rethink to find new avenues to keep MUST financial sound. Lastly, The Vice Chancellor said that he is well aware of the challenges university employees are facing as financial instability has become global phenomenon & he pledged to devote his all services for this institution.



23rd Senate of Mirpur University of Science and Technology (MUST) Mirpur at Aiwan-e-Sadr Kashmir House Islamabad

President and Chancellor of Azad Jammu and Kashmir Universities Barrister Sultan Mehmood Chaudhry chaired a meeting of the Senate of MUST at Aiwan-e-Sadr Kashmir House Islamabad. The Vice Chancellor, MUST briefed the President Azad Jammu and Kashmir and Chancellor Azad Jammu and Kashmir Universities Barrister Sultan Mehmood Chaudhry about the ongoing programs, projects and problems faced by the institution. He gave a briefing and also highlighted the ongoing curriculum activities at the university. Various agenda points were also discussed in the Senate.

On the occasion, President and Chancellor Azad Jammu and Kashmir Universities Barrister Sultan Mehmood Chaudhry while praising the establishment of Business Center said that its monthly report should be sent to the Chancellor as well as IT, Special Technological Zone. Approval has been given for which 2,000 kanals of land has been allotted.

The Vice Chancellor MUST, Vice Chancellor University of Kotli Prof. Dr. Dilnawaz Ahmed Gardezi, Justice (retd) Sardar Abdul Hameed Khan, Former Vice Chancellor Fatima Jinnah



اسلام آباد: صدر آزاد جموں و کشمیر و چانسلر مسٹ یونیورسٹی میرپور سلطان محمود چوہدری کے سینٹ اجلاس کی صدارت کر رہے ہیں۔

Women University of Rawalpindi Prof. Dr. Samina Amin Qadir, Secretary Higher Education Independent Government of the State of Jammu and Kashmir Syed Shahid Mohi-ud-Din, Representative of Higher Education Commission Muhammad Raza Chauhan, Director General / Chief Engineer Central Design Office Engineer Syed Tassaduq Hussain Shah, Prof. Dr. Shaukat Mahmood Department of Physics Mirpur University, Prof. Dr. Muhammad Khan Department of Politics and International Relations International Islamic University Islamabad, Prof. Dr. Nisar Ahmed Faculty of Electrical Engineering Ghulam Ishaq Khan Institute Khyber Pakhtunkhwa, Dr. Anzar Mahmood Associate Professor Department of Electrical Engineering Mirpur University, Engineer Faraz Akram Assistant Professor Department of Mechanical Engineering, Taimur Akbar Chaudhry Lecturer Department of



International Relations Mirpur University, Dr. Faisal Riaz Director ORIC Mirpur University, Dr. Muhammad Aslam Director QEC Mirpur University and Prof. Dr. Khizar-ul-Haq Registrar Mirpur University.

QEC Awareness Session on Times Higher Education (THE) Impact Rankings 2022 & Rise of MUST at International Canvas

Brig (R) Prof. Dr. Muhammad Younus Javed SI (M) Vice Chancellor, Mirpur University of Science and Technology (MUST), Mirpur presided awareness session / detailed PowerPoint presentation on Times Higher Education (THE) Impact Rankings 2022 on Monday, May 09, 2022 at 11:00 hrs in the Video Conference Room of City Campus of the University.

The THE Impact Rankings are the global league tables that assess universities against the United Nations SDGs & this programme is working since 2000 with Millennium Development Goals (MDGs) for the first 15 years (2000 - 2015) & vision 2030 as second phase named SDGs (2015 - 2030). It is noteworthy to mention here that Mirpur, Mirpur AJ&K has attained special excellence in THE 2022 & has been placed at 53rd position in Pakistan (First in AJ&K Universities) and Ranked at 1001+ category at the International level by THE by completing 106 different countries/regions.

While addressing the awareness session the Vice Chancellor congratulated the participants & commended the Director QEC & his entire team for achieving this milestone. He further said MUST prestigious International ranking will increase employability rate of university graduates at national and international job markets, global visibility of MUST, will also help in collaboration and partnerships, recognition of MUST degrees at national & international level and will add in quality of research. The Vice Chancellor directed Deans & HoDs to conduct awareness sessions for faculty and students of their respective departments & to maintain complete data of all the projects, events, workshops, webinars and besides this many other things which are at the play. The introductory part of presentation was given by Dr. Muhammad Aslam, Director Quality Enhancement which was followed by detailed presentation by Deputy Director QEC aimed to educate MUST faculty regarding SDGs, its tables & significance of Data, procedures to document events & activities of the departments. After detailed briefing of Quality Enhancement Cell (QEC) honorable Vice Chancellor MUST invited questions from the House & extensive discussion was carried out on potential SDGs where this organization can work on, way and means to

ensure participation of all departments to put joint efforts & actions to improving its national and international ranking. The session was attended by, Registrar MUST, Dean Faculty of Natural and Applied Sciences, Dean Faculty of Engineering and Technology, Dean Faculty of Social Sciences and Humanities, Dean Faculty of Veterinary and Animal Sciences, Director MUST Business School Treasurer MUST, Controller of Examinations, Heads of Directorates, Chairpersons and Coordinators.



Cranfield University

MUST Towards Internationalization to achieve another high ranking. A visit to Cranfield University, (United Kingdom) for future research collaboration between Control, Automotive and Robotics Lab National Center of Robotics and Automation - NCRA. A detailed meeting with Dr. Ivan Petrunin regarding research in self-driving vehicles. Cranfield University is among top five universities of UK. Thankful to National Center of Robotics and Automation - NCRA and Worthy Vice Chancellor Muhammad Younus Javed for their support in this regard. After this visit CARLAB MUST will be able to work in the field of smart road infrastructure for self-driving vehicles.



Manchester MET University

Prof. Dr. Faisal Riaz, Director ORIC, Joined Smart Infrastructure, and Industry Research Group (SIIR), Manchester MET University, UK as a research fellow. The research will help in enhancing the research capacity of control, Automotive and Robotics Lab, National Center of Robotics and Automation - NCRA, Mirpur University of Science & Technology MUST, Mirpur AJK.



International Times Higher Education (THE) Impact Ranking (2022)

As per vision and directions of the Honorable Vice Chancellor Brig. (Retd.) Prof. Dr. Muhammad Younus Javed, SI (M), QEC MUST participated in International THE Impact Ranking (2022) first time ever in the history of MUST. We are delighted to inform that Mirpur University of Science and Technology has been ranked in the 2022 Times Higher Education Impact Rankings. THE's Impact Rankings are the first and only global performance tables that assess universities against the United Nations' SDGs. Demonstrating a commitment to sustainability is becoming essential for the world's higher education institutions.

For the year 2022, 1,406 universities from 106 different countries/regions are ranked in the overall table. MUST has been ranked at 52 in all over the Pakistan and fall at 1001+ category at the international level. In the 2022 THE Impact Rankings, MUST is the only university from AJ&K which participated in international ranking.



MUST, Mirpur fetch Hult Prize 2022 Nomination at South Asian level

The MUST, Mirpur On-campus program is officially nominated for the 2022 Certified Senior Advisor (CSA) Program of the year Award.

The MUST in Pakistan which has been invited to represent Pakistani Universities in Nairobi, Kenya during first week of July 2022 in CSA 2022 Program. It is important to mention here that MUST Mirpur is among six Universities of South Asia who have been selected for 2022 CSA Program.

It is a great recognition of University's top management & their dedication has been acknowledged through this tremendous fame. Mirpur University remained dedicated in empowering youth and it's commitment in solving the World's toughest challenges through social entrepreneurship.



Mirpur University successfully conducted Selection Board (Phase I, II & III) after a lapse of three years, under dynamic leadership of Brigadier Younis Javed

The MUST, Mirpur held 25th Selection Board under Chairmanship of Brig. (R) Prof. Dr. Muhammad Younus Javed SI (M), Vice Chancellor, MUST in three phases.

- **Phase - I (February 25th to 27th, 2022)**
- **Phase - 2 (March 18th to 20th, 2022)**
- **Phase - 3 (May 13th to 15th, 2022)**

In effort to make selection process on merit & more transparent MUST conducted Written (screening) test of 550 eligible candidates for 30 academic positions (Lecturer BPS -18) through National Testing Service (NTC) after a gap of 10 years.

Nominees of the Chairperson Higher Education Commission (HEC), Subject Experts, Nominees of Chairman Public Service Commission (PSC) AJ&K, Muzaffarabad, nominees of the Senate in the Selection Board, eminent persons participated in evaluation process of hundreds of candidates against almost 100 seats.



Brigadier Younis Javed, Vice Chancellor MUST appreciated Prof. Dr Khazir Ul Haq Registrar MUST, Mr. Muhammad Naveed, Deputy Registrar and his entire team for their untiring efforts, dedication & commitment to the Institution.



MUST, Mirpur bids farewell to its former Registrar & Additional Treasurer

The Vice Chancellor MUST, hosted farewell in the honour of former Registrar MUST, Prof. Dr. Sadat Hanif Dar and former Additional Treasurer, Mr. Muhammad Zahid in MUST Secretariat Jarikass on Thursday, May 19th 2022.

The Vice Chancellor while addressing the ceremony held in conference room of MUST secretariat has said both officers have rendered services for the cause of humanity and education. Their professional honesty, hard work and dedication to the Institution will be remembered. He further said MUST values their decades long services & may they thrive in professional and personal lives.

All the participants one by one spoke in honor of the outgoing officers and shared their personal experiences and memories. Prof. Dr. Sadat Hanif Dar, former Registrar & Dean Faculty of Veterinary and Animal Sciences and Mr. Muhammad Zahid, former Additional Treasurer expressed sincere gratitude to the Vice Chancellor and all colleagues for arranging ravishing farewell.







PRESIDENT AZAD KASHMIR AND KASHMIR / CHANCELLOR MIRPUR UNIVERSITY GRACED TIMES HIGHER EDUCATION (THE) IMPACT RANKING-2022

Brigadier Younis Javed, Vice Chancellor, Mirpur University in his opening words of speech paid rousing welcome to H. E. Barrister Sultan Mehmoood Chaudhary, President of AJ&K/ Chancellor MUST in the Celebration and Award Distribution Ceremony of Time Higher Education Impact Ranking, 2022.



President Azad Kashmir and Kashmir / Chancellor MUST graced THE Impact Ranking-2022 ceremony On May 31, 2022

Brig (R) Prof. Dr. Muhammad Younus Javed SI (M) Vice Chancellor, MUST, Mirpur along with Deans & Principal staff officers received His Excellency Barrister Sultan Mehmood Chaudhary, President of AJ&K / Chancellor MUST, at City Campus of the University on the event of celebration and award distribution ceremony of first MUST Ranking by THE Impact Ranking- 2022 on Tuesday, May 31, 2022 at 11:00 am.

Prof. Dr. Syed Dilnawaz Ahmed Gerdazi, former Vice Chancellor MUST/ Vice Chancellor University of Kotli, Prof. Dr. Abdul Hameed, Vice Chancellor, AJ&K Women University Bagh, Dr. Syed Asif Hussain, Secretary Presidential Affairs and former Vice Chancellors MUST - Habib-ur-Rehman, SI, Prof. Dr. Muhammad Sarwar Ahmed, Prof. Dr. Maqsood Ahmed Chaudhary & Prof. Dr. Rehana Asghar, TI, were special guests of the ceremony.

Chaudhary Muhammad Raqeeb, Commissioner, Mirpur Division, Dr. Khalid Chohan, DIG Mirpur Division, Chaudhary Amjad Iqbal, Deputy Commissioner Mirpur, Chaudhary Yasir Riaz, Additional Deputy Commissioner General, District Office-bearers eminent Educationalists, and notables from Mirpur division were also invited to grand ceremony to celebrate international fame & visibility of MUST.

Brigadier Younis Javed, the Vice Chancellor, MUST in his opening words of speech paid rousing welcome to H. E. Barrister Sultan Mehmood Chaudhary, President of AJ&K/ Chancellor MUST in the Celebration and award distribution ceremony of THE Impact Ranking, 2022. He also showed great respect to all honorable guests for their arrival. The Vice Chancellor stood thankful to the President AJ&K / Chancellor MUST for his consistent all out support & backing at highest national forums in administrative and financial matters.

He further said the faculty members, administrative officers and staff are making all out efforts to raise the standards of quality in teaching, learning and assessment methodologies at MUST & this day stands testimony to it as MUST is celebrating the tremendous success on gaining International recognition.

Brigadier Younis Javed paid tribute to former Vice Chancellors MUST for their great services & highlighted their vital contributions. The Vice Chancellor congratulated Director Quality Enhancement Cell & his entire team for achieving 1st position in Azad Kashmir, 53rd in Pakistan and 1001+ category / international ranking and also commended Hult Prize winner Sawera Subhani for her great achievement - She is only Pakistani student in 174 national universities who will represent Pakistan in Kenya and Norabi this year and lastly the Vice Chancellor also lauded the achievement of American Society of Mechanical Engineering (ASME) MUST Chapter for getting distinction in technical competition organized by Pakistan Ordnance Factories (POF).

His Excellency Barrister Sultan Mehmood Chaudhary, President of AJ&K/ Chancellor MUST congratulated Brig. (R) Prof. Dr. Muhammad Younus Javed SI (M) Vice Chancellor MUST, faculty, staff and students of the university on being ranked 1st in AJK, 53rd in Pakistan and 1001 internationally by the THE Impact Ranking 2022. President AJ&K/



Chancellor MUST eulogized the magnetic personality of Brigadier Younis Javed & MUST international visibility under his visionary leadership.

He further said that the quality of education is important to be competitive and therefore, it is a matter of satisfaction for us that MUST has attained excellence. He said being a Barrister himself he always stressed on the importance of education as a powerful instrument in the mission to strengthen Pakistan's socio-economic development.



President denounced the state level brutality being committed by India in Occupied Kashmir & he strongly condemned the life sentence awarded to Yasin Malik by Indian Court in recent verdict. President AJ&K further said Azad Kashmir is a base camp for the freedom of Kashmir and we all must stand with our oppressed Kashmiris who are under subjugation for decades.

Department of Home Economics MUST presented portrait (Painted by Ms Amina Gul, Lecturer Home Economics) of Kashmiri leader Yasin Malik to His Excellency Barrister Sultan Mehmood Chaudhary.

Chancellor MUST presented shields and certificates of appreciation to those individuals who have tremendously contributed for achieving MUST Ranking in the THE Impact Ranking-2022, to the winners of technical competition organized by POF & Hult Prize winners. Later shields were also presented to former Vice Chancellors MUST in recognition of their services.

At the culmination of the ceremony shields of honor were shared between His Excellency Barrister Sultan Mehmood Chaudhry, President of AJ&K / Chancellor MUST & Brig. (R) Prof. Dr. Muhammad Younus Javed SI(M) Vice Chancellor MUST.







MUST, Korea South East Power (KOEN - AJ&K) signed MoU to provide Internships to Engineering Students on June 10, 2022

Brig. (R) Prof Dr Muhammad Younus Javed SI (M) the Vice Chancellor MUST, Mirpur received foreign delegation (Korea South East Power Co. Ltd (KOEN – AJ&K) at MUST Secretariat Jarikass on Friday, June 10, 2022 at 10:30 am.

Prof. Dr. Khazir Ul Haq, Registrar MUST, Prof. Dr. Syed Mujtaba Jafri, Dean faculty of Engineering and Technology, Dr. Naseem Akhtar, Director Graduate Placement Bureau & Dr. Sajjad Manzoor, Chairman Computer System Engineering & Senior Private Secretary accompanied Vice Chancellor at the reception of delegacy.

The Vice Chancellor MUST, greeted the honourable foreign guests & liaison officials. He also expressed his deep gratitude for the Korean delegation for visiting MUST.

Lieutenant Colonel (R) Muhammad Riaz, liaison officer, introduced the Korea South East Power Co. Ltd (KOEN – AJ&K). He said MUST is known for its academia, research and professional excellence. He further added that Korean counter part greatly values MUST vital role in nation building, especially it's services for the people of Jammu and Kashmir. Liaison officer spoke high of the worthy Vice Chancellor for his decades long unmatched services for the noble profession & especially for his reputé as an international evaluator, is praiseworthy.

Mr. Choi Won Yong, Plant General Manger head of the Korean team, thanked the Vice Chancellor MUST for organising this event and paying them warm reception. General manager said that during their interacting with Pakistani people, they found them greatly hospitable with rich and diverse culture & tradition.

Prof. Dr. Syed Mujtaba Jafri, Dean Faculty of Engineering and Technology gave detailed presentation in which delegates were briefed about the Inception / History of MUST, existing infrastructure & University's Master Plan - which would likely be completed by 2052 (Comprises of VII Phases), number of faculties & departments, achievements of the university at national and international level programmes and disciplines being offered at MUST.

Dr. Naseem Akhtar, Director Graduate Placement Bureau (GPB) briefed about working of her directorate. She said GPB gives utmost importance to assist university students in getting suitable placements after the successful completion of their degrees and also provides right skills & domain knowledge to all the students so that they can get better jobs at industry and firms.

On completion of the briefings of Dean FE&T & Director GPB, Mr. Muhammad Ejaz, Human Resource Officer (HRO) with delegation asked various questions on behalf of the visiting delegation in attempt to give Koreans better understanding of the MUST, Mirpur. Questions of HRO were addressed by University panel which was headed by Brigadier Younis Javed.

The Vice Chancellor, MUST, Mirpur and Mr. Choi Won Yong, Plan General Manager Korea South East Power Co. Ltd. Kotli, AJ&K signed MoU. Dean Faculty of Engineering and Technology & Director Graduate Placement Bureau were also signatory Officers.







ACADEMIC PROFILE

The University offers an outstanding and comprehensive array of academic programs at its 7 faculties made up of 36 academic departments. These academic programs include various undergraduate, post graduate, and short courses.

Faculty of Faculty of Social Sciences and Humanities (FSSH)

Dean's Message



**Prof. Dr. Tahseen
Ghous**

Professor

Dean Faculty of
Social Sciences and
Humanities

Tel: +92-5827-961014

Welcome to the Faculty of Social Sciences and Humanities! I feel privileged and honored to be the Dean of the Faculty of Social Sciences and Humanities (FSSH) at the Mirpur University of Science and Technology (MUST). Currently comprising of twelve academic departments, the Departments of English, Economics, Law, Education, International Relations, Sociology, Media and Communication Studies, Islamic Studies, Tourism and Hospitality, Home Economics, and with plans of introducing more learning opportunities in other disciplines of the broader liberal arts. The faculty is housed in three campuses, spread over three different beautiful districts of the Azad Jammu and Kashmir; the districts of Mirpur, Bhimber and Palandri. The Faculty of Social Sciences and Humanities (FSSH) is one of the four major faculties of our University and is a center of learning that offers a wide range of fields of study in the university system.

The fields of Social Sciences and Humanities are creative, engaged and interdisciplinary by nature, so a degree in liberal arts/Social Sciences and Humanities exposes the students to various ways of thinking, analyzing and questioning, introducing them to newer world views, providing them with an attitude and skillset which helps them grapple with the challenges of the day and orients their thinking around concerns of social justice and the creation of a more ethical, just and inclusive tomorrow.

FSSH boasts a well-qualified and committed academic staff, an impressive blend of experienced academics with young and energetic ones working together, planning and implementing course curricula in their degree programs and contributing to research and innovation in their respective disciplines. The composition of our academic staff is representative of the diverse skills and expertise in many fields of study, many of them have obtained their qualifications and training from reputed and recognized universities of Pakistan and around the world. The oldest of our departments- the department of Home Economics which was a part of the University of Azad Jammu and Kashmir, Muzaffarabad upto 2009, is playing a vital role in preparing good quality, skilled and well-rounded graduates, and is also working on establishing a new fashion and design program.

Our prospective students will enjoy an array of extra- and co-curricular activities such as various sports activities, study tours, etc. The faculty also provides students with library facilities where they can access reputed academic databases of the world. In addition, computer laboratory facilities within the faculty as well as sports facilities are made available for our students. The faculty offers limited hostel facilities where students are expected to apply annually for the



available placements. We also offer a variety of different scholarships, including merit based, need based and HEC Pakistan funded Ehsaas scholarships to our students. The FSS&H looks forward to the completion of its new building at Jarikass campus and renovating/ refurbishing of building of Department of Home Economics in the Mirpur city campus.

The Faculty is fully committed to making our graduates outstanding personalities with sound knowledge, healthy attitudes and versatile skills polished in a disciplined environment, which we hope will make them an asset to whichever social and professional set-up they find themselves in. We at the FSSH, are preparing future teachers, public intellectuals, lawyers, journalists, economists, critical thinkers, world leaders, home economists and overall good human beings with sound religious and cultural values. We hope the rigor, training and disposition will also inadvertently contribute to our students doing justice to representing Kashmir and its stance on international academic and public platforms

Steered by an eminent group of scholars and assisted by our vibrant student community, the future of FSS&H looks bright and promising. We are committed to help foster critical thinking, creative expression and intellectual inquiry in our students, and in helping them become well-rounded individuals and socially responsible citizens. And setting them on the path of life-long learning and the pursuit of all things noble!

Please join FSS&H for a holistic learning experience and your prosperous future. I hope to see many of you reading this, join us and I look forward to interacting with you.

Academic Programs



Teachers Training Program

B.ED ELEMENTARY
(2.5 YEARS)

Institute of Islamic Studies; Faculty of Social Sciences and Humanities

One-day Seminar on Seerat-al-Nabi arranged by Institute of Islamic Studies on Tuesday, the 19th October, 2021 in the Hall of the Department of Mechanical Engineering. Former Imam Faisal Masjid, Islamabad was the Chief Guest & Qazi Awais Ahmed, District Qazi Kotli, AJK was guest speaker of the Conference. Dr. Sajjad Ahmed director IIS presented a brief lecture on the topic of Seerah. Brig (R) Prof Dr Muhammad Younus Javed, SI (M), Vice Chancellor concluded the conference with his remarks.



Orientation Workshop for new intake of students

One-day orientation workshop was organized by IIS MUST on 22 November 2021 in NTC Hall (CS&IT Building) for new intake of FALL21 BS students. Dr. Sajjad Ahmed Director IIS and other senior faculty members briefly addressed the students.



One-day Conference on Paigham e Pakistan

Institute of Islamic studies organized one-day conference on the topic of Paigham e Pakistan in the Mechanical Hall of the City Campus on Wednesday, January 12, 2022. Brig (R) Prof Dr Muhammad Younus Javed SI (M) was the Chief Guest and Sardar Babar Hussain of Jammu Kashmir United Students Movement (JKUSM) was the guest speaker of the event.



Institute of Islamic Studies (IIS) of MUST, Mirpur hosted one day national conference on peace building, perception management & reconstruction of society in the Hall of Mechanical Engineering, city campus on Wednesday, June 01, 2022 at 10:00 am. Dr. Sajjad Ahmed, Director Institute of Islamic Studies (IIS) hosted & coordinated the conference. Prof Nisar Hamdani, Pro VC AJ&K university was key note speaker who delivered lecture on "Ethical Values of Pakistan".



Department of Home Economics; Faculty of Social Sciences and Humanities Childcare and Development

Students of BS Home Economics do their research in nursery section comprising of 3, 4, and 5 years old children. Students do their research work on personality developmental aspect at this age level, aptitude of child towards learning and response of the children towards their daily activities.



Clothing and Textiles

Under the discipline of clothing and textiles, students took their visits to textile mills for (fiber to yarn process, dyeing process and surface enrichment. Students of textile designing visit to the school of fashion and products display center and provide advisory services to the concerned fields for better.

Food and Nutrition: Field trips and surveys under the subject of community development, activities including community awareness programs, field visits in hospitals, hotels, hostels and restaurants are also a part of this subject.

Workshops

Ms. Asma Saghir Khan and Ms. Tehmina Tabassum attend the workshop under SMEDA (national business development program patent drafting filling and procedure in Pakistan) on March 14,2022.

Clothing and Textiles

Research projects on Eco-friendly use of fabrics for environmental sustainability in different aspects of clothing field.

University Community Interaction

Event	Briefing	Venue	Date
Institutional management (Food Stalls)	By this activity students learn how to run small business of food & beverages(profit & loss management in food business)	Home Economics Department	2nd January 2022
Institutional management	A very interactive and enlightening visit of 'Nafees Bakers' under the umbrella of education visit of Institutional Management and Experiment Foods	Nafees Bakers & Restaurants	16th March 2022





Department of International Relations; Faculty of Social Sciences and Humanities

Dawar Nadeem: Student of international relations department roll No. FA19-BIR-007 stood winner in the inter-varsity speech competition. The competition took place on 31st of July, 2021 at cheela campus of the University of Azad Jammu and Kashmir, Muzaffarabad.

Topic : Azad Kashmir the land of beauty and liberty



Nafees Bakers & Resturants



Students Details

Degree	Semester					
	2nd	4th	6th	8th	10th	Total
BS (Hons)	27	24	25	28	104



Faculty of Natural and Applied Sciences (FN&AS)

Dean's Message



**Prof. Dr. Muhammad
Aziz Choudhary**

Professor

Dean Faculty of Natural
and Applied Sciences

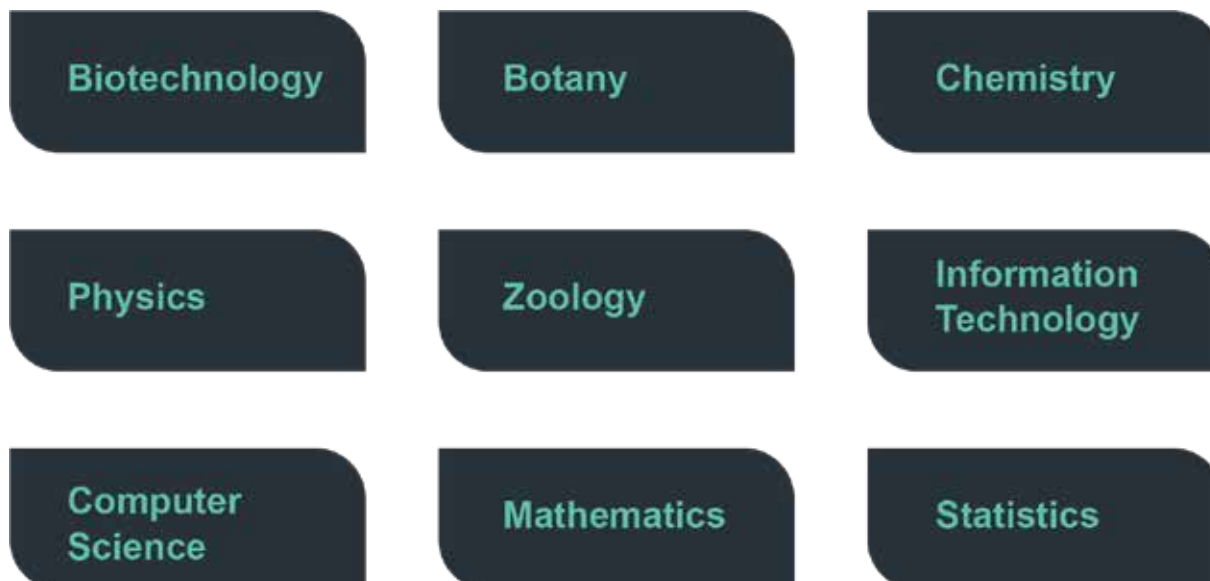
Tel: +92-5827-961054

Email: dean.sciences@
must.edu.pk

Welcome at the faculty of Natural and Applied Science (FN&AS), MUST, Mirpur. I feel an honor to serve as a Dean for this prestigious FN&AS, whose faculty members are quite committed to impart the quality of education with full endeavor and zeal. The faculty is enriched with professional, qualified and trained personnel having deep understanding in their relevant areas and sense of responsibility to groom the young ones for their better career. Our graduates are equipped with scientific thinking and approach, which make them dynamic in perspective to move along with the modern scientific innovation and development. The FN&AS consists of nine academic departments: Biotechnology, Botany, Chemistry, Computer Science and Information Technology, Mathematics, Statistics, Physics, Zoology and Forestry. The main areas of study are: Molecular Genetics, Genomics, Stem Cell Technology, Ecosystems, combatting diseases, Biodiversity and Conservation, Material and Chemical Science, Nano Science, Solid State and Nuclear Physics, Mathematical Modeling and Interpretation, Statistics, Artificial Intelligence and Computational Science. The faculty take pride in the high quality of teaching and research, which enabled the faculty to publish its research findings in high impact factor journals and thus significantly contributed in elevating the ranking of the university. The faculty annually admits about 900 students and offers the BS (4-year), M.Sc., MCS, and M.Phil. (2-year) and Ph.D. degree programmes. Each department of FN&AS constantly updates its curricula according to the HEC guidelines to meet the needs of the day and develop the young learners as global responsible human being. Each department observes regular classes and lab works, and further encourages research, group discussions, field trips, internships, seminars, workshops, and conferences for undergraduates to promote the team spirit like: cooperation, competition and fair evaluation. They enjoy a congenial atmosphere with one another along with our experienced faculty who have a missionary motivation for producing an excellent academic atmosphere. This research training at the FN&AS is preparing the graduates to become an articulate communicator, a careful thinker, a person who is concerned with good health and healthy interpersonal relationships that cross cultural boundaries. I invite you to explore the exciting programs and become part of tremendous growth which is expected to continue even at faster pace. We will help you equip with latest technologies and skills to face the challenges and create the world of tomorrow. Our goal is to contribute to the sustainable and peaceful development of human society through the research and educational activities of science. We always consider how we can foster dreams and hopes in the young people who are the future of Pakistan.



Academic Programs at FNSAS



Department of Mathematics

Degree Programs

Faculty/Campus	Department	Academic Programs			
Natural and Applied Sciences	Mathematics	Under-graduate	Graduate	Post-graduate	
		B.Sc. (Hons.)	M.Sc.	MPill	Phd

Conference/Trainings/Workshops

Dr. Taimoor Salahuddin from department of Mathematics attended following conferences :

- Novel study of non-Newtonian Casson nanofluid over the upper horizontal surface, INTERNATIONAL EUROPEAN CONFERENCE ON MATHEMATICS, ENGINEERING, NATURAL AND MEDICAL SCIENCES, 22-23 Feb, 2022
- Couple stress fluid over the upper horizontal surface, INTERNATIONAL EUROPEAN CONGRESS ON SCIENTIFIC RESEARCH AND RECENT TRENDS, 18-20 Feb, 2022
- Numerical investigation of cross fluid model, 5th INTERNATIONAL AEGEAN SYMPOSIUM ON SOCIAL SCIENCES AND HUMANITIES, Feb 25-26, 2022.

Student Detail

Degree	Semester								
	1st	2nd	3rd	5th	7th	9th	11th	13th	Total
B.Sc.	52		39	35	39				165
M.Sc.	40		53						93
MPhil	29	18							47
Phd	02		02	01	01	03	04	02	15

Department of Statistics

Degree Programs

Faculty/Campus	Department	Academic Programs			
Natural and Applied Sciences	Statistics	Under-graduate	Graduate	Post-graduate	
		BS	--	--	--

Thesis/Research Reports

Student Name	Title	Supervisor
Farah Zahoor	Phase II control charts for monitoring process dispersion based on False Alarm Probability	Dr. Aamir Saghir
Shaista Khanum	Adjusted Dispersion control charts for Parametric estimation in Non-normal Scenarios	Dr. Aamir Saghir
Ifra Zaheer	The Weighted Cosine and Sine Exponential Distributions with applications on Real lifetime data sets	Dr. Tassaddaq Hussain

Students Detail

Degree	Semester					
	2nd	4th	6th	8th	10th	Total
BST	22	3				25

Department of Botany

Degree Programs

Academic Activities

Conference (Climate Smart Agriculture; Innovation and Adaptation) Attended in University of Poonch Rawalakot by Dr. Tanveer Hussain Assistant Professor, Department of Botany, MUST Bhimber Campus and as well as presented a research paper, on Dated:15-17 June, 2022.



Honors and Awards/Academic Achievements

- i. **Labs. Inaugurations:** The honorable Vice Chancellor inaugurated five departmental experimental labs.
- ii. **Mushroom Exhibition:** Organized by Dr. Tanveer Hussain, Assistant Professor, department of Botany collected from field and cultivated in Departmental Mushroom Growth Chamber.
- iii. **Inauguration of Nursery:** Muhammad Afzaal Ch., Range Officer, Department of Forest, District Bhimber, AJK. inaugurated the Experimental Nursery of the Department of Botany, MUST Bhimber Campus.



Research and Development

Research Projects Awarded

Department	Title	Principal Investigator	Amount (Rs.)	Funding Agency
	Establishment of Botanical Garden for Research and Educational Purpose	Dr. Mehwish Maqbool Co-Investigator Dr. Muhammad Ishtiaq	20.00 Million	NRPU National Research Program for the University
	Conservation and Commercial Propagation of Wild Indigenous Plants (WIPs) Through Establishment of Experimental Nursery Setup in Department of Botany MUST Bhimber Campus	Dr. Muhammad Ishtiaq	0.25 Million	ORIC, MUST
	Cultivation of Two Edible Indigenous Mushrooms	Dr. Tanveer Hussain	0.25 Million	ORIC, MUST

Conference/Trainings

1. Dr. Tanveer Hussain participated and presented research paper in a conference entitled "Fourth International Conference on Biosciences (ICBS-2021) organized by Biological Society of Pakistan & Department of Plant Sciences, Quaid-i-Azam University Islamabad at June 15th, 2021 (Online)"
2. Dr. Tanveer Hussain participated and presented research paper in a conference entitled "19th International Congress of Soil Science" organized by Soil Science society of Pakistan in University of Agriculture, Faisalabad, 9-11 March, 2022.



- Dr. Tanveer Hussain participated and presented research paper in a conference entitled "International Conference on Food Security through Sustainable Plant Protection Strategies" organized by Department of Plant Protection the University of Agriculture, Peshawar, January 16-20, 2022.
- Dr. Tanveer Hussain participated and presented research paper in a conference entitled "International webinar on Plant Nomenclature" organized by Department of Botany, Science college Nandgoan, India, 15 Dec. 2021 (Online).
- Dr. Tanveer Hussain participated and presented research paper in a conference entitled "7th International Conference on Climate Smart Agriculture: Innovations and Adaptations" organized by Faculty of Agriculture, University of Poonch Rawalakot, Azad Jammu & Kashmir, 15-17, June 2022.

Research Articles/ Chapters Published in the Conference Proceedings/ Books

Sr. No.	Publications Details	Category
1	Ajaib, M. and Shah, S. "Chemical diversity of Bioactive molecules and therapeutics of <i>Dodonaea viscosa</i> (L.) Jacq." Chapter 13 Bioactives and Pharmacology of Medicinal Plants Vol. I. Apple Academic Press Inc, USA. pp. 171. (2022)	-----
2	Ajaib, M. T. Pullaiah and Shah, S. "Phytochemistry and Pharmacology of <i>Flueggea virosa</i> (Roxb. ex Willd.) Royle" Chapter 14 Bioactives and Pharmacology of Medicinal Plants Vol. I. Apple Academic Press Inc, USA. pp. 187. (2022)	-----
3	Ajaib, M. and Shah, S. "Bioactives and Pharmacology <i>Carissa spinarum</i> L." Chapter 24 Bioactives and Pharmacology of Medicinal Plants Vol. I. Apple Academic Press Inc, USA. pp. 311. (2022)	-----
4	Ajaib, M. and Shah, S. "Chemical characterization and Pharmacology of <i>Salsola imbricata</i> Forssk." Chapter 25 Bioactives and Pharmacology of Medicinal Plants Vol. I. Apple Academic Press Inc, USA. pp. 323. (2022)	-----
5	Ajaib, M. and Shah, S. "Bioactives and Pharmacology of <i>Dysphania ambrosioides</i> (L.) Mosyakin & Clemants." Chapter 32 Bioactives and Pharmacology of Medicinal Plants Vol. I. Apple Academic Press Inc, USA. pp. 403. (2022)	-----

Phd in Botany

Student Name	Title	Supervisor
Ms. Qumqum Noshad	Study of Genetic Diversity and Taxonomic Relationship of Family Convolvulaceae and Cuscutaceae On the Basis of Molecular and Biochemical Analysis	Dr. Muhammad Ajaib

Students Detail

Degree	Semester					
	2nd	4th	6th	8th	10th	Total
B.S	50	42	38	32		162
M.Sc.	19	47				66
M.Phil.	34	32				66
Phd	4	01	01			06
Total						300

Department of Zoology

Degree Programs

Faculty/Campus	Department	Academic Programs			
Natural and Applied Sciences	Zoology	Under-graduate	Graduate	Post-graduate	
		BS	M.Sc.	M.Phill.	Phd

Students Achievement

Miss Swaira Subhani student of BS Zoology won the HULT Prize 2022 on campus award held on 1st to 3rd July in Nairobi Kenya.



HULT Prize 2022

Academic Activities

1. Seminar on Human Neurodevelopmental Disorders on Monday 28th March, 2022 In Mechanical Hall MUST. One day seminar on Human Neurodevelopmental Disorder was organized by Department of Zoology. Dr. Hyung-Goo Kim, senior scientist,

Neurological Disorders Research Center, Qatar Biomedical Research Institute, Hamad Bin Khalifa University Qatar was the guest speaker. Faculty and Students of the department participated in Seminar.



2. Two-days symposium on role of entrepreneurship in biological science was jointly organized by department of Zoology and department of Biotechnology in collaboration with Kamyab Jawan Program MUST. Professor Dr. Abdul Rehman department of Microbiology and Molecular Genetics university of the Punjab was the guest speaker of the event.



Research Projects Awarded

Department	Title	Principal Investigator	Amount (Rs.)	Funding Agency
Zoology	Pimenta Officinalis Glow Face Mask Sheet (Phase II) Addressing the safety Concern.	Dr. Anser Ali	0.0250 Million	ORIC MUST

Publications

Department has published a number of research papers based on the research activity carried out in different fields of zoology. Most of the research papers have been published in impact factor international journals while only 13% (n=2) have been published in HEC recognized Y-category non-impact factor journals of Pakistan.

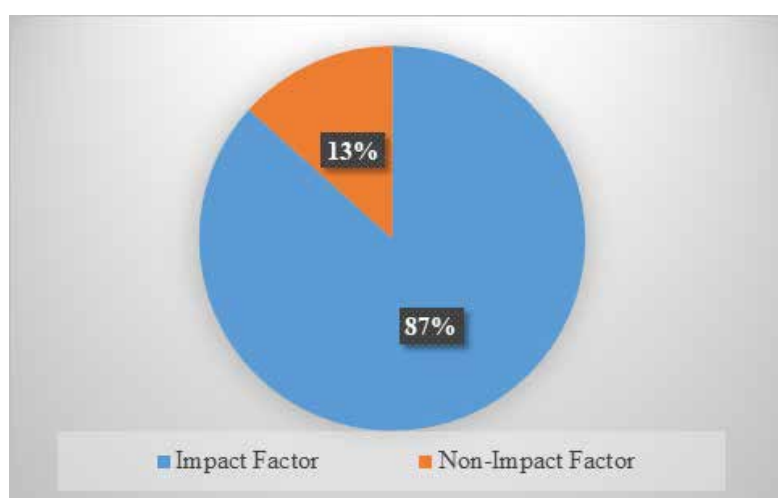


Figure 1. Comparison of publications of the department during 2021-22 based on impact factor.

A total of 17 research papers, based on the research work of the learned faculty members, were published in impact factor journals. On average each research paper received an impact factor of 2.905 during 2021-22. Dr. Ansar Ali gained highest impact factor while Dr. Huma Ayub earned the lowest one (Figure 2). Detail of research publications is provided at the end of this document.

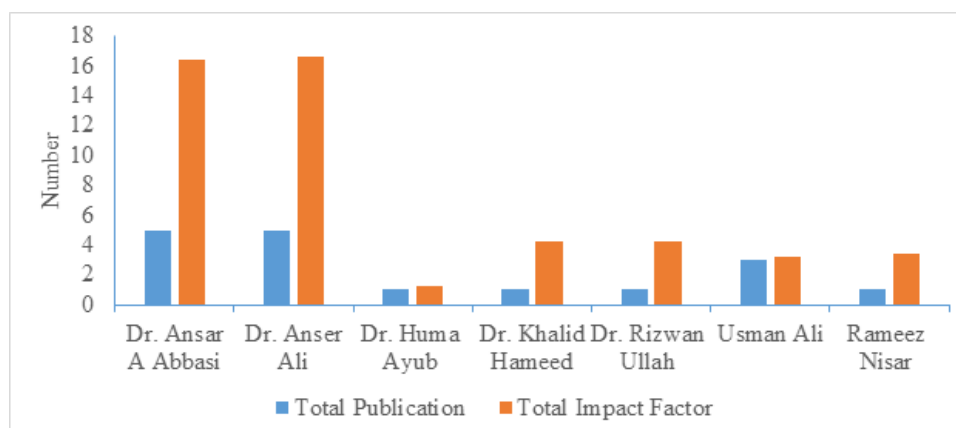


Figure 2. Total number of research papers and their impact factors published during 2021-22. (Figure 2)

Conference/Trainings/Workshops

Dr.Ansar Ahmed Abbasi and Mr.Rameez Nisar along with Ph.D and M.Phil Scholars of Department Participated in 4th IBPHR organized by Department of Zoology GC University Lahore on December 7-8 2021.

Students Detail

Degree	Semester					
	2nd	4th	6th	8th	10th	Total
B.S	49	49	47	38		183
M.Sc.	49	55				104
M.Phil.	29	28				57
Phd	2	12	01			14
Total						358

Department of CSIT

Students Achievements

Open House 29-07-2021

Department of CS & IT organized an open house to showcase several outstanding software projects prepared by final year students. Purpose of this open house was twofold, first to encourage and motivate running session students to follow foot prints of their seniors and second to appreciate senior students on their efforts, dedication and hard work. Chief Guest for this open house was Registrar MUST Mr. Sadat Hanif Dar, other respected guests included Controller of Examinations MUST Mr. Kamran Hameed, Chairman CSE department Dr. Naeem Ratyal and SQA consultant, Wiseman innovations, Islamabad Mr. Farrukh Shahzad.



Fig. 1 Dr. Yasir Mehmood with his students

NUST visit 16-12-2021

Faculty and research scholars of department of CS&IT visited research center of simulation and modeling (RCSM), NUST. They have visited their seven dedicated and highly professional labs including Super Computing Lab. During this visit, RCSM offered the free access to their Super Computers for research purpose. They also offered paid internships and research associateship to research students of MUST. Furthermore, different research ideas were shared among faculty members and collaboration on multiple industrial projects were discussed. Besides this, joint conferences and different workshops were also discoursed. From RCSM, principal Dr. Mian Ilyas Ahmed, Dr. Ishrat Jabeen, Dr Tariq Saeed, Dr. Zameer Hussain and Dr. Mehak Rafiq and from MUST, Coordinator department of CS & IT Dr. Yasir Mehmood, Dr. Samina Khalid, Dr. Yasser Arafat, and Dr. Tehmina Khalid along with research students Faisal Shahzad, Maleha, Azka and Hammad participated.



National Debate Champion

Shamoon Mumtaz, a shining star of department of CS & IT has many awards on his name, few achievements for the year 21-22 are listed below:

1. In June 2022, won team trophy for MUST in all punjab declamation contest at Gujranwala.
2. In April 2022, runner-up in all pakistan speech competition at Neo News Ramzan Transmission Lahore.
3. Won HEC all pakistan debate contest 2021-22 ,1st round and selected and participated in HEC all pakistan british style parliamentary debate contest 2021-22 main round at HEC Headquarter ISB,
4. Won All Kashmir Speech Competition in Nov 2021,
5. 10 March 2022, on invitation of aridian debating club, participated and brilliantly performed in "all pakistan declamation contest 2022 Beyan e Pakistan in Arid Agriculture university RWP".



Events/ Seminar/MOUs/Workshops Conducted by Dept. of CS & IT

1. Seminar on “Final Year Project” 10-12-2021

An event held by student society of CS & IT (SOCIT) under the supervision of chairman CS & IT department Dr. Yasir Mehmood for final year students' guidance regarding selection and implementation of final year project. Mr. Umer Aziz was the guest speaker who is experienced sales engineer and trainer for identity and access management products, having more than 16 years of experience in this field. An award of appreciation was also presented to Mr. Umer Aziz by Dr. Yasir Mehmood.



Fig. Dr. Yasir Mehmood presenting Award of Appreciation to Mr. Umer Aziz

2- MOU with KIA motors 15 December, 2021

A meeting of KIA motors Mirpur was held with coordinator of CS&IT on 14-dec-21 to provide internship opportunities to final year students. The basic objective of the meeting was to engage the final year students of CS&IT for different IT based social enterprise solutions. MoU between CS&IT department and KIA motors will be signed very soon.

3. Agreement between National Vocational & Technical Training Commission ISB. NAVTTC (First Party) & MUST (Training Partner)

Dept of CS & IT, MUST signed an agreement with NAVTTC on March 2022. This agreement is for rendering services for skills training to promote technical & vocational education & training (TVET) and youth empowerment through employment and self-employment.

4. Capacity building seminar & awareness session on Amazon 2nd June 2022

Department of CS & IT organized a capacity building seminar & awareness session on Amazon in collaboration with Mirpur Chamber of Commerce Industry and Kamyab Jawan Markaz Must. Guest speaker was Ms. Roshan Malik a young entrepreneur and amazon trainer. She addressed modern days online business-related issues and had very informative question answer session with students.



5. One Day awareness session on Blockchain June 30,2022 11: 00 AM

Department of CS & IT organized a one day awareness session on Blockchain technology in collaboration with Kamyab Jawan Markaz MUST. Guest speaker was Dr. Adbullah Yousafzai from UMT Lahore. He shared very useful information related to Blockchain technology and its importance in running a successful business. He also answered several queries thrown by students in very effective and informative manner.





Faculty Achievements

1- Dr. Yasir Mehmood, Assistant Professor

RESEARCH FUNDING

- Project titled "Kamyab Jawan Program", as coordinator, funded by National Vocational & Technical Training Commission (NAVTTTC), of grant 5.596 million 2022.
- Project titled "Geo-Mapping: A Service-Oriented Architecture" as a Principal Investigator, funded by Ignite via award number NGIRI-2021-g804, amount of 0.08 million in 2021.

RESEARCH FUNDING:

- Prime Minister's Skills for all Hunarmand Pakistan Total Funding of PKR 4.326 Million "(Kamyab Jawan Initiative)"
- ORIC, Research grant for the project "Robotic Operating System (ROS) based Semi-automatic Environment Sterilization System for Pandemic Situation".
- ORIC, Research grant from the "Human Driver Inspired Revised Enhanced Emotion Enabled Cognitive Agent (REEEC-Agent) Based Rear End Collision Avoidance System".

INTERNATIONAL CONFERENCE PAPERS (Proceedings)

Shafique, Sarmad, Samia Abid, Faisal Riaz, and Zainab Ejaz. "Computer Vision based Autonomous Navigation in Controlled Environment." In 2021 International Conference on Robotics and Automation in Industry (ICRAI), pp. 1-6. IEEE, 2021.

MoU

1. Research Lab:

ROTASAM

Focal Person: Dr. Gokhan Attali

University: Sakarya university of applied sciences, Sakarya, Turkey

2. Research Lab:

SIIR

Focal Person: Dr. Umer Raza

University: Manchester Metropolitan university, Manchester, United Kingdom.



Department of Biotechnology

Student Awarded Foreign Scholarship

Sawera Zafar of Biotechnology Department (FA18-BBT-023) was awarded Scottish-Pakistan scholarship.

PhD Students Successfully defended Dissertation

Aamar Mushtaq successfully defended his thesis entitled, "Study the role of Carbamoyl Phosphate Synthase subunit CgCPSI chain involved in virulence and regulate stress tolerance in colletotrichum gloeosporioides" on November 2021 under the supervision of Prof. Dr. Maqsood Ahmed

Rashid Ahmed successfully defended his thesis entitled, "Development and Evaluation of Nitric Oxide releasing S-nitroso-N-acetyl penicillamine (SNAP)/Chitosan/Polyvinyl alcohol hydrogel for Wound Healing Potential in Diabetic Rabbits" on March 04, 2022 under the supervision of Dr. Muhammad Tariq.

Visit to any Prominent Organization/Place for Learning Purpose

Mr. Rashid Ahmed visited University of Illinois at Urbana Champaign, USA, and Biochemistry Lab at Weill Cornell Medical College-Qatar in 2021-2022 for his Ph.D. research work

Participation in National/International Conference/Seminars/ Workshop

- Resource person in 3rd International Conference on Emerging Trends in Earth and Environmental Sciences (ETEES), 2021 organized by CEES, PU Lahore from November 16-18, 2021. (Dr. Raja Tahir Mahmood)
- 3 Day workshop on Essential of Research on 13-15th January 2021 by MUST, Mirpur (Rabia Yasin, Binish Javaid)
- Participated in Hands on Training workshop on Quantitative Real-Time PCR on August 16-17, 2021 at NUMS, Islamabad (Rabia Yasin, Binish Javaid)
- One day workshop on Research paper Writing and Presentation August 26, 2021 by ORIC, MUST, Mirpur (Rabia Yasin, Binish Javaid)
- 1st International Hybrid Mode Conference on Emerging Innovative Research Trends in Biology (EIRTB-2021) organized by Kohat University of Science and Technology from August 10-13, 2021. (Dr. Raja Tahir Mahmood, Rabia Yasin, Binish Javaid)
- Online webinar on How to Insert In-text Citations and Create Bibliography Using Endnote Jointly Organized by ORIC, Institute of Business Management (IoBM) and Pakistan Scientific and Technological Information Center (PASTIC) April 27, 2022 (Rabia Yasin, Binish Javaid)
- 4th International Symposium on Advances in Molecular Biology of Plants and Health Sciences at CEMB, Lahore Pakistan. December 23-24, 2021. (Dr. M. Tariq, Dr. Zeeshan Shamim)

Projects Awarded/Research Projects Funded by HEC/Any other Donor Agency

- Dr. Muhammad Tariq awarded HEC NRPUR research project No 16838 entitled "Development of a Nitric Oxide and O₂ Releasing Microneedle Array based Patch for Diabetic Wound Healing" having total cost of Rs. 5313000/- and project duration of 36 months.
- MUST ORIC SRGP. Rs. 0.25 million. (Dr. Abdul Jabbar)
- MUST ORIC SRGP. Rs. 0.25 million. (Dr. Zeeshan Shamim)

Events/ Conferences Organized

- Department of Biotechnology along with Kamyab Jawan Markaz, MUST organized a, Two days symposium on, 'Future of Entrepreneurship in Biological Sciences and Interdepartmental Presentation Competition' on June 06-07, 2022



Significant Initiatives

- Establishment of wild nursery of medicinal plants in Neelum Valley by Dr. Muhammad Tariq with the help of ORIC funding
- Establishment of Tissue Culture Lab in the department by Dr. Zeeshan Shamim

Faculty of Engineering and Technology (FE&T)

Dean's Message



**Engr. Prof. Dr. Syed
Hassan Mujtaba Jafri**

Professor

Dean Faculty of
Engineering and
Technology

Tel: +92-5827-961008

Fax: +92-5827-961015

E-mail: dean.
engineering@must.edu.
pk

I would be pleased to welcome you by taking the challenge of becoming an aspiring student of Faculty of Engineering and Technology (FE&T). The faculty of engineering and technology was established in 1980 and laid the foundation of MUST in 2009. The FE&T presents the colors of dynamic people with leading edge ideas and who are ready to work in highly practical, rigorous and challenging environment. There are 50+ advanced and world class laboratories for engineering education along with modern classrooms. We are blessed with highly qualified PhD faculty members from technological advanced countries like USA, European Union, South Korea, Japan, Australia, UK and many more. Being Muslims, we take pride and reflect the real essence in the syllabi of different degree programs. The international image of our program is reflected through its amalgam of best professional approach, CVs of highly qualified faculty and lab engineers, communication skills, ethical values, moral and social trainings and industrial linkages to academia. Our Alumni are the clear evidence of the international image of FE&T at MUST.

The curricula in different programs of engineering at FE&T involve creative learning, hands on implementation in labs and combination of research. Alongside the theme of theory and practice, there is an inspiration for research-led-teaching. All the programs of FE&T are based on industrial projects and originality of ideas. The faculty is young and energetic with five departments and is envisaged to grow as a major modern center of excellence for engineering education and research. We have already been placed among the most dynamic, fastest growing and excelled faculties in engineering sciences in the country and our programs are accredited at Level-II (OBE) by Pakistan Engineering Council.

The faculty endeavors to grow into new programs like Biomedical Engineering Technology, Energy Engineering, Information Engineering Technology, the Cyber Security Engineering in near future. Over the course of next few years, we are hopeful to continue the process of self-evaluation, renewal and growth of both our academic programs, staff and infrastructure. I hope between our students we may have someone like Mark Zuckerberg of Facebook, Jeff Bezos of Amazon, Elon Musk of Telsa or Nobel prize winners like Adre Geim Electronic Engineer Koichi Tanaka, Electrical Engineer Sir Charles Kuen Kao, Civil Engineer Paul Jozef Crutzen, Mechanical Engineer Dan Shechtman. We highlight the knowledge curve through "Learn by Doing It".



Mirpur Institute of Technology (MIT), MUST

Academic Programs at Mirpur Institute of Technology, MUST

Architecture
Engineering
Technology

Civil
Engineering
Technology

Electrical
Engineering
Technology

Following new programs have been launched in MIT-MUST:

Sr.No.	Program Name	Description
1	MS Civil Technology	NOC issued from HEC. This Program will start in FALL 2022
2	BSc Biomedical Engineering Technology	Zero visit form is submitted in National Technology Council, Pakistan. NTC visit is expected in 3rd Week of July.
3	BSc Information Engineering Technology	

Academic Programs at Faculty of Engineering & Technology (FE&T)

Civil
Engineering

Computer
Systems
Engineering

Electrical
Engineering

Energy
Systems
Engineering

Mechanical
Engineering

Software
Engineering

Students Detail

Degree	Semester					
	2nd	4th	6th	8th	10th	Total
B.Sc.	67	65	57	58	-	247
M.Sc.	03	-	-	-	-	03
Phd	-	10	-	-	-	10

Thesis/Research Reports

Mechanical Engineering

Student Name	Title	Supervisor
Amnah Irfan	Performance Analysis of Photovoltaic Modules Using External Finned Passive Cooling	Engr. Dr. M. Anser Bahir
Komal Wasim	Impact of Covid -19 on the Electricity Sector of Pakistan	Engr. Dr. Khuram Parvez

Shirin Ahmed	Manufacturing and Chemical Characterization of Charcoal Made from four Different Biomass Sources	Engr. Dr. Khuram Parvez
Ameer Hamza Awan	Fluid Dynamics & Heat Transfer Around Chamfered Corner Cylinder. Effect of Reynolds number, Chamfer size and Chamfer angle.	Engr. Dr. M Yamin Younis
Awais Nazir Jarral	Impact of cooling appliances on energy	Engr. Dr. Khuram Parvez

International Youth Day

International Youth day was celebrated at MUST on 12 August. It was organized by ASME, MLS, AAINA and SOCIT. Fun and Games were presented along with motivational speeches for young generation.



Orientation on ASHRAE & HVAC

ASHRAE (American Society of heating, refrigerating and air conditioning Engineers) organized a seminar "Orientation on ASHRAE & HVAC" for students of Mechanical Engineering Department MUST to help them in understanding OBE system. Guest Speaker was Engr. Dr. Khuram Pervaz chairperson Mechanical Engineering Department MUST.



WEC TECHTRONIX 22



Funded Projects

Project Title	Funding Agency	Role
Achieving Load Balancing in High Density Software Defined Wi-Fi Networks	IGNITE/NGIRI	Principal Investigator (2021 onwards)
Achieving Load Balancing in SDN Based High Density Wi-Fi Networks	SRGP/ORIC MUST	Principal Investigator (2021 onwards)
Modelling of Traffic Load in Next Generation Wireless Networks for Healthcare	HEC/LCF-Element-1	Principal Investigator (2021 onwards)

Faculty Research

Engr Dr. Sohaib Manzoor has published numerous international research papers with a patent submitted for IEEE 802.11 standards. S. Manzoor, Y. Yin, Y. Gao, X. Hei, and W. Cheng, "A systematic study of IEEE 802.11 DCF network optimization from theory to testbed," IEEE Access, vol. 8, pp. 154 114–154 132, 2020.

Independence Day event

Independence Day of Pakistan 14th August, 2021, National Day Event at MUST was organized and hosted by SDC MUST Chapter.





WEBINAR



" A Journey Towards Foreign Higher Education "

(Opportunities, Challenges & Tips for Success)

Venue:
MS TEAMS



Guest Speaker:
"Engr. Dr. Sohaib Manzoor"

Monday/20th-September
3:00 PM to 4:00 PM

-Lecturer, Department of Electrical Engineering, MUST
 -PhD, Huazhong University of Science and Technology, China (HUST Academic Excellence Award)
 -MS, Coventry University, U.K, (Distinction)
 -BS, Mirpur University of Science and Technology, (Gold Medal)
 -Founder of ORION and SDC
 -Advisor of SDC

Webinar "Research Design & Methodology"

25th September, 2021. A complete guide on execution of a research project"


- What is research and how topic should be selected
- Ideas and designing of project
- Execution of project
- Finishing and writing


We had our guest a man of great academic achievements and Excellence

MUST FIESTA'21 (Day 1)

Poetry Eve with Tehzeeb Hafi







Poetry Eve

with

تہذیب جافر

13th December 2021
📍 Mechanical Hall, MUST - 2:30PM To 4:30PM



Career Counselling Session

SDC in collaboration with SCSE organized a "Career Counselling Session " at the Conference Hall Electrical Department on October 26, 2021 for students of MUST to help individuals make the right choices in terms of career paths, career development and career change. Renowned career counselor and motivational speaker Ghulam Jillani was the Guest Speaker.



SEMINAR

**CAREER COUNSELLING
ON-CAMPUS & ONLINE SESSION**

- +Entrepreneurship
- +International Scholarships
- +Upcoming Challenges of Job Market

Guest Speaker:

Ghulam Jillani

-Career counsellor & Managing Director
-7Cs Professional Institute & College.

Also

Online Session

ON

Google Meet

Tuesday

26th Oct

3:00 to 4:00 PM

VENUE:

Electrical Conference Hall (MUST)





E-Certificates will be awarded

Solidarity Walk

Solidarity walk arranged in remembrance of Victims and Martyrs of APS Peshawar on December 16, 2021. A solidarity walk was arranged in remembrance of Victims and Martyrs of APS Peshawar by SDC MUST Chapter in new campus. Honorable Vice Chancellor, Registrar MUST, Dean Faculty of Health and Medical Sciences, Prof Dr Anwar Khitab along with faculty of Civil Engineering and MIT Joined the walk. At the End Prayers were made for Aesal e Sawaab.



Faculty of Veterinary and Animal Sciences (FV&AS)

Dean's Message



**Prof. Dr. Muhammad
Aziz Choudhary**

Professor

Dean Faculty of
Veterinary and Animal
Sciences

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must.edu.pk

The faculty of Veterinary and Animal Sciences was established in 2020 with the objective of attaining a substantial skillful manpower in the field of Veterinary and Animal Sciences Bhimber Campus AJ&K. Pakistan is an agricultural state and livestock is its important sub-sector that has a unique position in the national agenda of economic development. In history, livestock is accomplished by smallholders to meet their needs of milk, meat, eggs, drought, profits and food security on routine basis. In Pakistan, the employment at the rural level is created by livestock. Similarly, in poverty alleviation and socio-economic standard of rural population livestock is playing a vital role. Approximately, livestock contribution in agricultural value added and in national GDP is 55.9 % and 11.8 %, respectively. The importance of domestic animals may be realized from the fact that rural populations is generating 30-40% of their income and almost 35-40 million populations are involved in livestock industry. The gradual shift of Pakistan to agriculture and livestock-based economy has resulted in the inevitable need of new academic institutes in the country in order to cater the relevant demands. The Faculty of Veterinary and Animal Sciences has four departments i.e. Veterinary Sciences, Animal Sciences, Livestock Production and Epidemiology and Public Health. At present, one undergraduate degree programs, i.e., BS Animal Sciences in the Department of Animal Sciences and one diploma program, i.e., Livestock Assistant Diploma (LAD) in the Department of Veterinary Sciences are being offered by the Faculty of Veterinary and Animal Sciences at Bhimber Campus, MUST. The curricula and syllabi of all programs are kept continuously updated in accordance with national and international standards.

Academic Programs at Faculty of Veterinary and Animal Sciences (FV&AS)

Animal
Sciences

Livestock
Assistant
Diploma (2 years)



Inauguration of FV&AS by the Vice Chancellor

An **MoU** was signed between **MUST, Mirpur** and **University of Veterinary and Animal Sciences, Lahore UVAS** at Lahore dated 07-01-2021. **"MUST and UVAS Lahore join hands together"** An MoU Signing ceremony between MUST Mirpur and UVAS Lahore was held on 07.01.2021 at UVAS Lahore. The purpose of MoU is to establish a close linkage between the both institutions in terms of academics, research creativity, technological advancement & entrepreneurship. Brig (R) Prof Dr Muhammad Younus Javaid SI (M) Vice Chancellor MUST and Prof Dr Masood Rabbani, Pro-Vice Chancellor UVAS Lahore jointly chaired the occasion.



An **MoU** signed between **MUST, Mirpur** and **POULTA** dated 21-10-2021.



Quality Assurance and Accreditation Awareness Seminar was organized by National Agriculture Education Accreditation Council (NAEAC), HEC for the accreditation of BS Animal Science and BS Poultry Science: Dr. Abdul Ghaffar Secretary NAEAC and Mr. Arshad Assistant Director, Admin and Finance NAEAC visited Faculty of Veterinary and Animal Sciences Bhimber Campus MUST, on 16 March, 2022. Dean Faculty of Veterinary and Animal Sciences, Dr. Saadat Hanif Dar and Dr. Abdul Gaffar Secretary NAEAC chaired the Seminar.



A seminar was hosted in the faculty of Veterinary & Animal Sciences, MUST, Bhimber Campus with the mutual effort of FV&AS and Kamyab Jawan Markaz MUST 'Capacity Building Workshop on Role of Livestock & Poultry in Economic Development and Poverty Alleviation' on 06-06-2022 No. SP/46/2022-MUST.

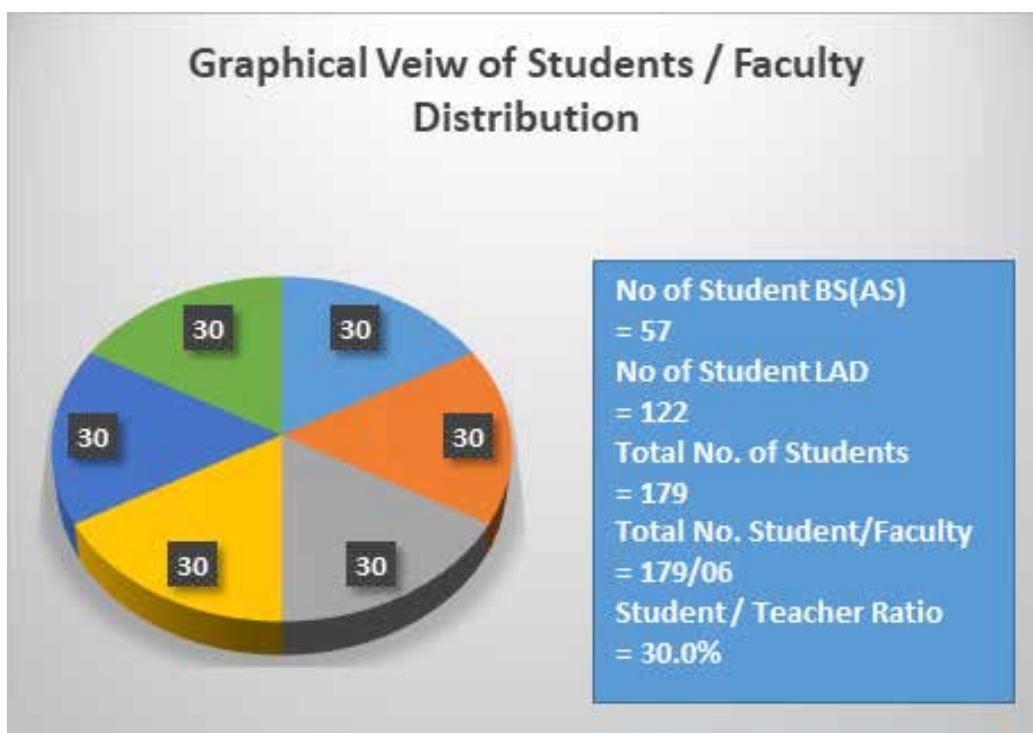




Farewell in the honor of Prof. Dr. Saadat Hanif Dar, Former Dean Faculty of Veterinary & Animal Sciences

Achievement

A student of BS Animal Science Session 2020-24 MahJabeen Shaukat secured fully funded cottish scholarship.



Faculty of Health and Medical Sciences (FH&MS)

Dean's Message



Dr. Anwar Khitab

Dean Faculty of Health
and Medical Sciences

Tel: +92-5827-961055

Email: dean.FH&MS@
must.edu.pk

Faculty of Health & Medical Sciences was established in 2020 after approval by the Senate MUST. As dean of the faculty, it is a matter of great honor for me to play a pivotal role in the development of the faculty. After fulfilling basic infrastructural requirements, various degree programs were planned by following indigenously developed integrated system-based modular curriculum in line with modern concepts of medical education, which will fulfil the allied health needs of the community. Keeping in view adaptation of technological challenges in under developed community of Kashmir, we are practicing spiral based hierarchy in teaching methodology whereby there is horizontal as well as vertical integration of courses that will ultimately promote learning with clinical contexts. To achieve such dynamic clinical oriented goals, our faculty has signed MOUs with Divisional Head Quarter Teaching Hospital Mirpur, New City Teaching hospital Mirpur and district head quarter hospital Bhimber, Azad Jammu & Kashmir.

Currently, the Faculty is providing skillful educational environment in the fields of Physiotherapy, Human Nutrition & Dietetics and Allied Health Sciences. In the near future, plans are in place for establishing Pharm D (Doctor of Pharmacy) program as well. In our constant efforts for enhancing the teaching and learning experience, our departments are in close coordination with the Quality Enhancement Cell (QEC) of the university. Due emphasis is given to the feedback from both the teachers and the students. As such, the teaching programs are regularly monitored and curricular are refined. It is our commitment to exert unified efforts for providing the best opportunities in basic and clinical learning that ultimately leads to the capacity building of our graduates.

Academic Programs at Faculty of Health and Medical Sciences (FH&MS)

Doctor of
Physical
Therapy

Human Nutrition
and Dietetics

Medical Lab
Technology

Surgical and
Operation Theater
Technology

Students Detail

Department	Discipline	Semester	No. of Students
Human Nutrition & Dietetics	BS Human Nutrition & Dietetics	2nd	57
		4th	46
		6th	42
Department of Physiotherapy	BS Physiotherapy	2th	53
		4th	57
Department of Allied Health Sciences	BS Medical Lab Technology	2nd	53
		4th	57
	BS Surgical and Operation Theater Technology	2nd	17
		4th	57
Total			439

Seminar

Quality Assurance and Accreditation Awareness Seminar for '**Human Nutrition and Dietetics**', was held on March 15, 2022 in Mechanical Hall MUST under the umbrella of Health and Medical Sciences.





Dr. Anwar Khitab presenting MUST shield to Dr. Abdul Ghaffar





MUST Business School (MBS)

Director Message



Dr. Zafar Iqbal

Director MUST Business
School (MBS)

Tel: +92-5827-

Email:

Taking the reins of MBS in this crucial hour is certainly a great challenge because the business world is experiencing an unprecedented shift in a squeezed time. Think globally and act locally holds no more true; new realities demand to think globally and act globally. Customers in the remotest and tiniest parts of the world are not isolated; they consider themselves members of a larger community; endlessly looking for cost-effective and quality solutions. Expectation betrayal is an unforgivable mistake in the eyes of customers. The ultimate responsibility of satisfying and retaining these customers rests with business professionals.

The programs at MBS present a 360-degree view of the requirements of the industry to handle these and other intricacies of the business world. To prepare students for the future, we at MBS account in both surfaced and un-surfaced realities of the market and train them accordingly since the cogent and clear would win this race. With Departments like Business Administration offering BBA, BS HRM, MBA (3.5) years, MBA 1.5 years, and MS in management sciences; Banking and Finance offering BS in Banking and Finance, Commerce offering BS in Commerce and Masters in Commerce, Tourism, and Hospitality offering BS in Tourism. Looking at market trends, a new BS program in Accounting and Finance is also in the offing. With accounting and finance degrees, students planning to study further can land in the camp of chartered accountancy education with exciting exemptions. The key appeal for students to join MBS is more than the sheer breadth of these disciplines; the depth of faculty is a true distinguisher.

The purpose of MBS department is to equip students with self-awareness, endurance, decisiveness, enthusiasm, integrity and up to date knowledge about the field of banking. The programs offered aim that our students will successfully utilize their flair in different fields of banking as well as develop individuals with outstanding managerial skills.

We have managed to attract students across the state of AJK, Gilgit Baltistan, and areas of Punjab and KPK geographically proximal to AJK. Apart from consolidating our position as a leading business education center by ensuring students continue to flock in beyond the premises of Mirpur Division, we are even vying for students of Mirpur-origin diaspora which is largely an untapped market (though some students are already studying here). Increasing enrollment from students of diverse regions and backgrounds pronounce a judgment of trust and confidence in MBS. It never means we are complacent or we should be complacent. But the endeavors at MBS will certainly improve the "new business density" outlook in the places; students chose for a career. I'm sure you will find MBS a truly impressive place to enable you to hunt for great entrepreneurial or job opportunities. Course provides an overview of the world of business as well as enhance communication skills and administrative skills. It also provides an introduction to business terminologies, concepts, finance, and economics as they relate to business. So, I welcome you all to join and represent the brand MBS.

Academic Programs at MUST Business School (MBS)

Business
Administration

Banking &
Finance

Commerce

Human
Resource
Management

Events Detail

A seminar on "Tax Awareness including Problems in Tax Collection and Benefits of being Tax Filer", was organized by MUST Business School at Mechanical Hall City Campus MUST on Wednesday 16th March, 2022 at 09:00 am. Mr. Basil Siddique Raja, commissioner inland revenue was the guest speaker.



Workshop on SPSS was arranged at Nursing college Mirpur on 16-4-2022. Mr. Ahsan Tahir and Mr Adeel Razaq, Lecturers of MUST Business School provided training about SPSS to the students of Nursing college



Workshop on accreditation was organized by the faculty of MUST Business School on 21-2-2022. Dr Sajjad from the Foundation University provided effective knowledge and procedural guidelines about accreditation of academic programs with NBAEC.



A seminar on “Economic Integration from CPEC Perspective”, was organized by MUST Business School at Mechanical Hall City Campus MUST on Tuesday 22th March, 2022 at 11:00 am. Prof. Dr. S.K. Shahzad, Head of CPEC, Centre of Excellence, Air University Islamabad was the guest speaker.





MUST Pallandri Campus

Academic Programs at MUST Pallandri Campus

Forestry

Tourism &
HospitalityInternational
Relations

Physics

Education

Degree Programs at MUST Pallandri Campus

Faculty/Campus	Program Name	Description
MUST Pallandri Campus	Physics	B.S. Physics
	Education	B.S. Ed. Elementary
	Tourism & Hospitality	B.S. T&HM
	Forestry	B.S. Forestry
	International Relations	B.S. IR

Faculty Detail at MUST Pallandri Campus

Permanent: 03 Contract: 01 Visiting: 14

Sr.	Name	Designation	Status	Qualification	Area of Specialization
1	Dr. Tariq Aziz	Lecturer	Permanent	Ph.D	Physics
2	Dr. Qumqum Noshad	Lecturer	Permanent	Ph.D	Botany
3	Ms. Naila Zia	Lecturer	Permanent	M.A	Islamic Studies
4	Mr. Usama Dar	Lecturer	Contract	M.Sc.	Forestry
5	Dr. Javed	Lecturer	Visiting	Ph.D	IR
6	Mr. Abdul Basit	Lecturer	Visiting	M.Phil	IR
7	Mr. Ammar Bashir	Lecturer	Visiting	M.Phil	T&HM/ Finance
8	Ms. Shamaila	Lecturer	Visiting	M.Phil	Physics
9	Ms. Shehla Sikandar	Lecturer	Visiting	M.Phil	English
10	Ms. Shabana	Lecturer	Visiting	M.Phil	English
11	Ms. Sana	Lecturer	Visiting	M.Phil	Education
12	Mr. Shahid Hussain	Lecturer	Visiting	M.Phil	Computing
13	Ms. Marukh	Jr. Lecturer	Visiting	M.Phil	Computer System Engineering
14	Ms. Humaira Qayyum	Lecturer	Visiting	M.Phil	
15	Mr. Faizan	Lecturer	Visiting	M.Phil	
16	Mr. Imtiaz	Lecturer	Visiting	M.Phil	
17	Ms. Laila Hameed	Lecturer	Visiting	M.Phil	



Students Detail

Degree	Semester				
	2nd	4th	6th	8th	Total
BS Physics	19	11	--	--	30
B.S Forestry	12	10	08	05	35
B.S T&HM	07	--	06	05	18
B.S IR	05	11	--	--	16
B.S Education	29	26	24	24	79



RESEARCH PUBLICATIONS

Our academics continue to undertake meaningful R&D through engagement of highly qualified & experienced faculty, use of state-of-the-art labs and teaching curriculum of international standards. The University offers array of disciplines ranging from engineering, technology, natural & applied sciences, medical technology, animal sciences, business studies and social sciences.

Faculty of Veterinary & Animal Sciences

1. Behaviour, welfare, and tibia traits of fast- and slow-growing chickens reared in intensive and free range systems

A. Ghayas, J. Hussain , A. Mahmud , M.H. Jaspal , H.M. Ishaq & A. Hussain Department of Poultry Production, Faculty of Animal Production and Technology, University of Veterinary and Animal Sciences, Lahore, Pakistan Department of Meat Science and Technology, Faculty of Animal Production and Technology, University of Veterinary and Animal Sciences, Lahore, Pakistan Department of Livestock and Poultry Production, Faculty of Veterinary Science, Bahauddin Zakariya University, Multan, Pakistan Faculty of Veterinary Science, Mirpur University of Science and Technology, Mirpur Azad Jammu; Kashmir, Pakistan. South African Journal of Animal Science 2021, 51 (No. 1)

Faculty of Social Sciences and Humanities

Institute of Islamic Studies

S.No	Author Name	Title	Date/Year	Journal	HEC Category
1	Dr.Asghar Ali khan	اسلام کا قانون سدذرائع اور اصلاح معاشرہ وتہذیب اخلاق میں اس کا اثر نفوذ	Vol:4 Issue NO.2 June.2021	"Al-Tabyeen" Department of Islamic Studies The University of Lahore.	Y
2	Dr. Sajjad Ahmed	Prophetic Instructions to Women: Studying the Directions and Advices related to Worship	2021	AL QAMAR	Y
3	Dr. Sajjad Ahmed	An Analysis of Sheikh Ahmed Deedat's Methodology in his literature	2021	Journal of Islamic & Religious Studies Haripur university	Y



4	Dr. Sajjad Ahmed	Religious Dialogue: A comparative analysis of Shaikh deedat & Avangelist Anis Shorosh	2021	A-Milal NUML	Y
5	Dr. Sajjad Ahmed	Women's Social Accountability in the Period of Holy Prophet	2020	JOURNAL OF ISLAMIC SCIENCES ISLAMABAD	Y
6	Dr. Sajjad Ahmed	An Analytical Study of Anis A. Shorosh's Methodology in his literature	2020	JOURNAL OF ISLAMIC SCIENCES ISLAMABAD	Y
7	Ruqyyah Akhter	دلالة الصرفیه فی تحفة الاحوذی	Vol. 3 Issue No.27 March 2021	AL-Tilmeez journal India Issn 2394	w
8	Ruqyyah akhter Dr.Tahir ASlam	افعال المزیة بحرف وأثرها فی صحیح مسلم	Vol. 04 Issue No, June 2020	"Mujjalah ALQismul Arabic Punjab uni Lahore"	x
9	Ruqyyah Akhter	التشبیہات البلاغیة فی تحفة الاحوذی	7 july 2021 Issn 2664-0031	Fehme islam mardan university	Y
10	Ruqyyah Akhter	المفاعیل الخمسة ودلالاتها فی الترمذی	July 2021	Journal of Arabic Research volum 4	Y
11	Abid ul Hassan	مکی عهد رسالت ﷺ میں (منتخب) نوجوان صحابہ کرام رضی اللہ عنہم کا کردار: تعارفی مطالعہ	Vol:3 Issue NO.1 Dec.2020	"Islamabad Islamicus"	Y
12	Abid ul Hassan	مکی عهد رسالت ﷺ میں نوجوان صحابہ کرام کی دینی خدمات	Vol.3 Issue:2 June.2021	"Majalla Talim o Tahqiq" Markaz e Talim o Tahqiq Islamabad	Y
13	Zahid Mahmood / Dr. Sajjad Ahmad	سکھ مت پر اسلام کے اثرات: تحقیقی جائزہ	Volume 4 Issue 1 (January - June 2021)	Al-Wifaq, Federal Urdu University Islamabad	Y
14	Dr. Aslam Tahir / Ruqayyah Akhtar	النفح الشدی اور تکملہ النفح الشدی کا علمی مقام	Volume 4 Issue 1 (January - June 2021)	Al-Wifaq, Federal Urdu University Islamabad	Y
15	Dr.Sajjad Ahmed	تابعین کا تعلم حدیث	Vol-06 Issue-01 Jan-Jun 2022	Rahat-ul-Quloob Quetta	Y
	Dr.Sajjad Ahmed Dr.Tahir Aslam	Women's Faith accountability in the time of Holy Prophet	Vol 6 No 2 (2021): July - Dec 2021	JIRS Haripur	Y



17	Naila Ajmal	قرآن کریم کا منطقی و تکوینی اسلوب دعوت اور معاصر نظریات	Volume NO:03 No:01 2021	Pakistan journal of Islamic Philosophy	Y
18	Naila Ajmal	قرآن مجید کا اسلوب تبشیر و انداز اور اسکی حکمتیں	Volume NO:03 No:02 2021	Pakistan journal of Islamic Philosophy	Y
19	Rashida Fatima	عصر حاضر میں قرآن کریم کے سائنسی اسلوب دعوت کی اہمیت و ضرورت	Volume NO:03 No:02 2021	Pakistan journal of Islamic Philosophy	Y
20	Dr.Tahir Aslam	Status of Arabic Language in Kashmir and its Effects on Local Literature	Volume NO:04 Issue No:04 2021	AL QAMAR	Y

Department of Home Economics, Faculty of Social Sciences and Humanities

1. Khan S A, Saghir A, Mushtaq A, Vitamin D Deficiency and risk of neuropsychiatric disorders - A review" Journal of Archives of Clinical case reports. Vol.1 (3). 1-6.2020
2. Khan S A, Saghir A, Zulfiqar N, Childhood Obesity it's factors, Complications and Impact on overall Health in Children" Journal of Food Technology & Nutrition Sciences. Vol.3 (2).1-5. 2021
3. Mushtaq A, Sharif M, Khan S, Khan S A, A short review article - Role of Nutrition Therapy during COVID-19" Journal of Nutrition Food Science & Technology. Vol.1 (1). 1-3.(2020)
4. Zafar A, Bilqis H, Saghir A, Khan S A, Iron supplementation in pregnancy- The most needed but the most neglected element in Antenatal care" Journal of Nutrition and Public Health. Vol.3 (1). 1-24. 2021
5. Khan S A, Saghir A, Zulfiqar N, Ketogenic Diet-its benefits & Overall Effects On Adults 2021 Journal Of Advances in Nutrition & Food Science Volume 6. Issue 2/35



Department of Mathematics

Sr.	Publication	Impact Factor
1	Shao-Wen Yao, Tayyiaba Rasool, Rashida Hussain, Hadi Rezazadeh, Mustafa Inc, Exact soliton solutions of conformable fractional coupled Burger's equation using hyperbolic function approach, Results in Physics, Volume 30, 2021, P 104776, 2021.	4.476
2	Rahila Malik, Mehboob Alam, Shah Muhammad, Rashida Hussain, Asghar Ali, Namra Akram, Faisal Zaid Duraihem, and Anwar Ul Haq, Statistically inspired multi-shift Arnoldi projection for on-chip interconnects, Mathematics and Computers in Simulation, Volume 190, 2021, P 418-428, 2021.	2.63
3	Ghazala Gulshan, Rashida Hussain, Asghar Ali, Post Quantum-Hermit-Hadamard Inequalities for differentiable Convex Functions with a critical Point, Journal of Science and Arts, Volume 55, No 2, P 337-346, 2021.	0.67
4	Rashida Hussain, Asghar Ali, ArzooAyub, and Asia Latif, Some New Fractional Integral Inequalities for Harmonically h-Convex functions via K-Fractional Derivatives, Bulletin of the International Mathematical Virtual Institute, Volume 11, issue 1, P 99-110, 2021.	0.58
5	Ghazala Gulshan, Rashida Hussain, Asghar Ali, Investigation of Some Results Arising from Post Quantum Calculus, Journal of Science and Arts, Volume 3, issue 52, P 561-572, 2020.	0.675
6	Rashida Hussain, Asghar Ali, Asia Latif, Ghazala Gulshan, Co-ordinated Convex Functions of Three Variables and some Analogous Inequalities with Applications, Journal of Computational Analysis & Applications, Volume 29, No 1, P 505-517, 2021.	0.50
7	Namra Akram, Mehboob Alam, Rashida Hussain, Asghar Ali, Shah Muhammad, Rahila Malik and Anwar Ul Haq, Passivity Preserving Model Order Reduction Using the Reduce Norm Method, Electronics 2020, 9, 964; doi:10.3390/electronics9060964.	1.76
8	R. Hussain, A. Ali, A. Latif, Yasmeen Bashir, k-Fractional Integral Inequalities of Hadamard type for Differentiable Harmonically Convex Functions, Journal of Science and Arts, Volume 2, issue 51, P 263-278, 2020.	0.675
9	A. Ali, Mohammad Munir, R. Hussain, Sajida Aziz, Mathematical Analysis of TB Model, Journal of Science and Arts, Volume 1, issue 50, P 119-128, 2020.	0.675
10	A. Ali, Mohammad Munir, R. Hussain, Saima Mehmood, Studying the Transmission of Hepatitis-B Virus Through Sensitivity Analysis, Journal of Science and Arts, Volume 4, issue 53, P 999-1010, 2020.	0.675
11	Rashida Hussain, Asma Arbab, Salahuddin, Mohammad Munir, Nasreen Kausar, Asghar Ali, A Polynomial Linear Regression Approach to Estimate Sensitive Parameters in the Novel Double Diabetes Model, International Journal of Analysis and Applications, Volume 18, Number 6, P 939-956, 2020.	0.35
12	Mohammad Munir, Nasreen Kausar, Rukshanda Anjum, Rashida Hussain, Asghar Ali, A Characterization of Semigroup Through their Fuzzy Generalized m-bi-ideals, Korean Journal of Mathematics, Volume 28, No 3, P 623-638, 2020.	0.75
13	M. S. Osman, Dumitru Baleanu, Kalim U. Tariq, M Kaplan, Muhammad Younis and S T. Rizvi, Different types of progressive wave solutions via the 2D-chiral nonlinear Schrödinger equation, Frontiers in Physics, 8, 205 (2020).	3.55
14	Kalim U. Tariq, Muhammad Younis, S. T. R. Rizvi, Hasan Bulut, M-truncated fractional optical solitons and other periodic wave structures with Schrodinger-Hirota equation, Modern Physics Letters B, 34, 2050427 (2020).	1.66
15	Junaid Akhtar, Kalim U. Tariq, A. R. Seadawy, On some novel exact solutions to the time fractional (2 + 1) dimensional Konopelchenko-Dubrovsky system arising in physical science, Open Physics, 18, 806-819 (2020).	0.96



16	Mostafa M. A. Khater, Sadia Anwar, Kalim U. Tariq, M S Mohamed, Some optical soliton solutions to the perturbed nonlinear Schrödinger equation by modified Khater method, AIP Advances, 11, 025130 (2021).	1.54
17	Hadi Rezazadeh, Meryem Odabasi, Kalim U. Tariq, Reza Abazari, Haci Mehmet Baskonus, On the conformable nonlinear Schrödinger equation with second order spatiotemporal and group velocity dispersion coefficients, Chinese Journal of Physics, 72, 403-414 (2021).	2.63
18	Hadi Rezazadeh, Meryem Odabasi, Kalim U. Tariq, Reza Abazari, Haci Mehmet Baskonus, On the conformable nonlinear Schrödinger equation with second order spatiotemporal and group velocity dispersion coefficients, Chinese Journal of Physics, 72, 403-414 (2021).	3.23
19	Younis, S.Ali, S.T. R. Rizvi, M. Tantawy, Kalim U. Tariq, A. Bakir, Investigation of solitons and mixed lump wave solutions with $(3 + 1)$ -dimensional potential-YTSF equation, Communications in Nonlinear Science and Numerical Simulation, 94, 105544 (2021).	4.26
20	Kalim U. Tariq, A. Zabihi, H. Rezazadeh, M. Younis, S.T.R. Rizvi, R. Ansari, On new closed form solutions: The $(2 + 1)$ -dimensional Bogoyavlenskii system, Modern Physics Letters B, 35 (9), 2150150, (2021).	1.66
21	Hadi Rezazadeh, Waleed Adel, Mostafa Eslami, Kalim U. Tariq, S. M. Mirhosseini-Alizamini, Ahmet Bekir, Yu-Ming Chu, On the optical solutions to nonlinear Schrödinger equation with second order spatiotemporal dispersion, Open Physics, 18, 806-819, (2021).	0.96
22	Kalim U. Tariq, H. Zainab, A. R. Seadawy, M. Younis, S.T.R. Rizvi, Abd Allah A. Mousa, on some novel optical wave solutions to the paraxial M-fractional nonlinear Schrödinger dynamical equation, Optical and Quantum Electronics, 53, 219, (2021).	2.084
23	A. R. Seadawy, Kalim U. Tariq, On some novel solitons to the generalized $(1 + 1)$ -dimensional unstable space-time fractional nonlinear Schrödinger model emerging in the optical fibers, Optical and Quantum Electronics, 53, 57, (2021).	2.084
24	A. Tanveer, T. Salahuddin, M. Khan, M. Y. Malik, M.S. Alqarni, Theoretical analysis of non-Newtonian blood flow in a microchannel, Computer Methods and Programs in Biomedicine, 191, 105280.	7.027
25	T. Salahuddin, M. Khan, T. Saeed, M. Ibrahim and Y. M. Chu, Induced MHD impact on exponentially varying viscosity of Williamson fluid flow with variable conductivity and diffusivity. Case Studies in Thermal Engineering, 25, (2021), 100895.	6.268
26	T. Salahuddin, M. Arshad, N. Siddique, A. S. Alqahtani and M. Y. Malik, Thermophysical properties and internal energy change in Casson fluid flow along with activation energy. Ain Shams Engineering Journal, 11(4), (2020), 1355-1365.	3.180
27	M. Khan, A. M. El Shafey, T. Salahuddin and F. Khan, Chemically Homann stagnation point flow of Carreau fluid. Physica A: Statistical Mechanics and its Applications, 551, (2020), 124066.	3.263
28	M. Khan, T. Salahuddin and S. O. Stephen, Thermo-physical characteristics of liquids and gases near a rotating disk. Chaos, Solitons & Fractals, 141, (2020), 110304.	5.944
29	T. Salahuddin, M. H. U. Khan, M. Arshad, M. A. Abdel-Sattar and Y. Elmasry, Peristaltic transport of Al_2O_3/H_2O and $Al_2O_3/C_2H_6O_2$ in an asymmetric channel. Journal of Materials Research and Technology, 9(4), (2020), 8337-8349.	6.267
30	M. Khan, T. Salahuddin, E. S. M. Sherif and H. S. Abdo, Wall slip characteristics on the dynamics of radioactive Carreau fluid flow subjected to thermophysical properties of the rotating boundary layer. International Communications in Heat and Mass Transfer, 119, (2020), 104960.	6.782
31	M. Khan, A. Rasheed and T. Salahuddin, Radiation and chemical reactive impact on tangent hyperbolic fluid flow having double stratification. AiP Advances, 10(7), (2020), 075211.	1.548



32	T. Salahuddin, N. Siddique and M. Arshad, Insight into the dynamics of the non-Newtonian Casson fluid on a horizontal object with variable thickness. <i>Mathematics and Computers in Simulation</i> , 177, (2020), 211-231.	2.463
33	T. Salahuddin, A. Akram, M. Khan, N. Siddique, M. K. Alaoui and S. Aly, A comparative study of $Al_2O_3-C_2H_6O_2$ and $Al_2O_3-H_2O$ near a vertical curved surface having porous medium, <i>International Journal of Hydrogen Energy</i> , 45(46), (2020), 24275-24284.	5.186
34	T. Salahuddin, M. Awais and W. F. Xia, Variable thermo-physical characteristics of Carreau fluid flow by means of stretchable paraboloid surface with activation energy and heat generation. <i>Case Studies in Thermal Engineering</i> , 25, (2021), 100971.	4.724
35	M. Khan, T. Salahuddin, Y. Elmasry, S. Aly and F. Khan, Zero mass flux and convection boundary condition effects on Carreau-Yasuda fluid flow over a heated plat. <i>Radiation Physics and Chemistry</i> , 177, (2020), 109152.	2.858
36	M. Khan, T. Salahuddin and Y. P. Lv, Entropy study in the von Kármán model with variable thermo-physical properties and radiation. <i>Chaos, Solitons & Fractals</i> , 147, (2021), 110987.	4.944
37	T. Salahuddin, S. Sakinder, S. O. Alharbi and Z. Abdelmalek, A brief comparative study of gamma alumina–water and gamma alumina–EG nanofluids flow near a solid sphere. <i>Mathematics and Computers in Simulation</i> , 181, (2021), 487-500.	2.463
38	T. Salahuddin, I. Imtiaz, M. Khan, N. Siddique, M. K. Alaoui, S. Aly and M. Manzur, A comparative study of $Al_2O_3-H_2O$ and $Al_2O_3-C_2H_6O_2$ near boundary layer non-linear curved surface. <i>Radiation Physics and Chemistry</i> , 177, (2020), 108993.	2.858
39	M. Khan, T. Salahuddin and Y. M. Chu, Analysis of the Carreau fluid model presenting physical properties along different molecular axes near an anisotropic rough surface. <i>International Communications in Heat and Mass Transfer</i> , 123, (2021), 105233.	6.782
40	T. Salahuddin, M. Khan and Z. Abdelmalek, Modified Rayleigh's criteria for thin – $AlOOH/H_2O$ nano-film generated due to rotating heated cone. <i>International Journal of Hydrogen Energy</i> , 45(58), (2020), 33731-33739.	5.856
41	T. Salahuddin, M. Arshad, N. Siddique and I. Tlili, Change in internal energy of viscoelastic fluid flow between two rotating parallel plates having variable fluid properties. <i>Indian Journal of Physics</i> , 95(9), (2021), 1801-1811.	1.947
42	T. Salahuddin, A. M. Bashir, M. Khan and W. F. Xia, Multiple shaped nano-particles influence on thermal conductivity of fluid flow between inflexible and sinusoidal walls. <i>Case studies in thermal engineering</i> , 25, (2021), 100930.	6.268
43	T. Salahuddin, M. H. U. Khan, M. Khan, S. O. Alharbi and Y. M. Chu, Peristaltically driven flow of hybrid nanofluid in a sinusoidal wavy channel with heat generation. <i>Physica Scripta</i> , 96(2), (2020), 025205.	3.081
44	T. Salahuddin, Modelling unsteady waveform Williamson fluid flow near a permeable radioactive surface. <i>International Communications in Heat and Mass Transfer</i> , 117, (2020), 104764.	6.782
45	T. Salahuddin, M. Khan and Y. M. Chu, Zero velocity regions near forward and rare points of circular cylinder: A heat and mass transfer study. <i>Ain Shams Engineering Journal</i> , 12(2), (2021), 2255-2261.	3.180
46	T. Salahuddin, M. Khan, S. O. Alharbi and Y. M. Chu, Internal energy change in Darcy-Forchheimer Carreau fluid model past a vertical stretching sheet with magnetic dipole and variable thermo-physical properties, <i>Physica Scripta</i> , 96(2), (2020), 025223.	3.081
47	M. Khan, A. Shahid, T. Salahuddin, M. Y. Malik and A. Hussain, Analysis of two dimensional Carreau fluid flow due to normal surface condition: A generalized Fourier's and Fick's laws. <i>Physica A: Statistical Mechanics and its Applications</i> , 540, (2020), 123024.	3.263



48	T. Salahuddin, N. Siddique, M. Arshad, I. Tlili and N. Siddique, Impact of Pre-Exponential Factor and Internal Energy Change in Viscoelastic Fluid, Prime Archives in Physical Sciences, (2021).	3.2
49	A. Tanveer, M. Y. Malik, Slip and porosity effects on peristalsis of MHD Ree-Eyring nanofluid in curved geometry. Ain Shams Engineering Journal, 12(1), (2021), 955-968.	3.180
50	A. Tanveer, T. Salahuddin, M. Khan, M. Y. Malik and M. Alqarni, Theoretical analysis of non-Newtonian blood flow in a microchannel. Computer Methods and Programs in Biomedicine, 191, (2020), 105280.	5.428
51	H. Yasmin, N. Iqbal and A. Tanveer, Engineering applications of peristaltic fluid flow with hall current, thermal deposition and convective conditions. Mathematics, 8(10), (2020), 1710.	2.592
52	A. Tanveer, S. Mahmood, T. Hayat and A. Alsaedi, On electroosmosis in peristaltic activity of MHD non-Newtonian fluid. Alexandria Engineering Journal, 60(3), (2021), 3369-3377.	3.732
53	I. Tlili, M. Khan, T. Salahuddin, A. Tanveer and A. Hussain, Entropy generation minimization and chemical response for Williamson fluid flow with thermal diffusion. Applied Nanoscience, 10(8), (2020), 3123-3131.	
54	T. Salahuddin, A. Tanveer and M. Y. Malik, Homogeneous-heterogeneous reaction effects in flow of tangent hyperbolic fluid on a stretching cylinder. Canadian Journal of Physics, 98(2), (2020), 125-129	1.240





Department of Statistics

1. Bakouch, H.S., Hussain, T., Chesneau, C. et al. On a weighted exponential distribution with a logarithmic weight: theory and applications. *Afr. Mat.* 32, 789–810 (2021). <https://doi.org/10.1007/s13370-020-00861-7>.
2. Bakouch, H.S. , Chesneau, C., Hussain, T. and Para, B.A. (2020). The cosine geometric distribution with count data modeling, *Journal of Applied Statistics*, DOI: 10.1080/02664763.2019.1711364 (IF=0.692)
3. Chesneau, C., Bakouch, H.S. and Hussain, T. (2022). Modeling and applications to circular data with a wrapped Poisson-Lindley model. *Journal of Mathematical Study*, 55, 139-157. Available at: <https://www.global-sci.org/intro/online.html?journal=jms>.
4. Khadim, A., Saghir, A. and Hussain, T., Shakil, M. and Ahsanullah, M. (2021). A Log-Dagum Weibull Distribution: Properties and Characterization. *Applied and Computational Mathematics*, 10(5), 100- 113.
5. Bakouch, H.S., Hussain, T., Chesneau, C. and Jonas, T. (2022). A notable bounded probability distribution for environmental and lifetime data. *Earth Science Informatics*, DOI: 10.1007/s12145-022-00811-w (IF=2.878) .
6. Hussain, S. A., Ahmed, I., Saghir, A., Aslam, M., Almanjahie, I. M. (2021). Mean ranked acceptance sampling plan under exponential distribution. *Ain Shams Engineering Journal*, 12, 4125-4131 (IF=3.180, HJRS=W).
7. Khadim, A., Saghir, A., Hussain, T., Shakil, M., Ahsanullah, M. (2021). A Log-Dagum Weibull Distribution: Properties and Characterization. *Applied and Computational Mathematics*, 10(5),100-113 ((IF=2.621, HJRS=W).
8. Abu-Shawiesh, M. O. A., Saghir, A., Almomani, M. H. M., Abdullah, M., Migdadi, H. S. A. (2021). A Comparative Analysis of Robust Moving Average Control Charts for Process Dispersion. *hailand Statistician*, 19(2), 228-247. (IF=0.51, HJRS=Y).
9. Saghir, A., Abbasi, S.A. and Faraz, A. (2021). The Exact Method for Designing the Maxwell Chart with Estimated Parameter. *Communications in Statistics- Simulations and Computations*, 0(1), 270-281. (IF=1.118, HJRS=X).
10. Saghir, A., Ahmad, L., Aslam, M. (2021). Modified EWMA control chart for Transformed gamma Data. *Communications in Statistics-Simulation and Computation*, 50(10), 3046-3059. (IF=1.118, HJRS=X).
11. Saghir, A., Aslam, M., Faraz, A., Ahmed, L. and Heuchenne, C. (2020). Monitoring Process Variation using modified EWMA. *Quality and Reliability Engineering International*, 36 (1), 328-339. (IF=2.885, HJRS=W).

Department of Botany

Sr	Publications Details	Impact Factor
1	Ishtiaq, M., M. Maqbool, M. Ajaib, M. Ahmed, I. Hussain, H. Khanam, W. Mushtaq, T. Hussain, S. Azam, K. H. Bhatti, A. Ghani. Ethnomedicinal and folklore inventory of wild plants used by rural communities of valley Samahni, District Bhimber Azad Jammu and Kashmir, Pakistan. <i>PLoS ONE</i> 16(1): e0243151. (2021)	3.24



2	Noshad, Q., M. Ajaib, A. Kiran, M. Ishtiaq, T. Bashir and M. F. Siddiqui. Study On Genetic Diversity of <i>Cuscuta reflexa</i> Roxb. and few members of Convolvulaceae on the basis of RAPD and SDS-Page. Pak. J. Bot., 53(3): 959-965. (2021).	0.972
3	Ajaib, M., M. Ishtiaq, K.H. Bhatti, K.S. Ahmed, M. Maqbool and T. Hussain. Traditional ethnobotanical knowledge of wild plants of Tilla Jogian district Jhelum, Pakistan. Pak. J. Bot., 53(4): 1393-1406. (2021).	0.972
4	Ajaib, M., M. Ishtiaq, K.H. Bhatti, I. Hussain, M. Maqbool, T. Hussain, W. Mushtaq, A. Ghani, M. Azeem, S.M.R. Khan, S. Thind, R. Bashir. Inventorization of traditional ethnobotanical uses of wild plants of Dawarian and Ratti Gali areas of District Neelum, Azad Jammu and Kashmir Pakistan. PLoS ONE 16(7): e0255010. (2021)	3.24
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8	Hussain, T., Muhammad Ishtiaq. Public Awareness and Bio-management of COVID-19 by Four Medicinal Herbs in District Bhimber, Azad Kashmir, Pakistan, Proceedings of the Pakistan Academy of Sciences, B. Life and Environmental Sciences 58 (S): 1-10 (2021).	0.269
9	Shafiq A.K, Ansar A, Muhammad Ishtiaq. Evaluation of Anticancer Activities of Selected Medicinal Plants from Ganga Choti, Lesser Himalaya, Bagh, Azad Kashmir, Pakistan Journal of Botany, Pakistan Journal of Botany 53(4) DOI:10.30848/PJB2021-4(38) (2021)	0.843
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15	Muhammad Shafiq Khan, Shahid Aziz, Muhammad Zakriya Khan, Zafar Mahmood Khalid, Muhammad Riaz, Dawood Ahmed, Iftikhar Ali, Nazia Arif, Deiji Wang, Muhammad Sheeraz Ahmad, Nafeesa Zahid. Antihyperglycemic Effect and Phytochemical Investigation of <i>Rubia Cordifolia</i> (Indian Madder) Leaves Extract. <i>Open Chemistry</i> 19: 586-599. (2021)	1.554
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19	Neelam Rashid, Muhammad Zafar, Mushtaq Ahmad, Rabia Asma Memon, Muhammad Salim Akhter, I Khafsa Malik, Nafeesa Zahid Malik, Shazia Sultana, Syed Nasar Shah. Seed Morphology: An Addition to The Taxonomy of Astragaleae and Trifolieae (Leguminosae: Papilionoidae) From Pakistan. <i>Microsc Res Tech.</i> : 1-10. (2021)	2.830
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28	Muhammad Riaz, Uzma Sharafat, Nafeesa Zahid, Muhammad Ismail, Jeonwon Park, Bashir Ahmad, Neelam Rashid, Muhammad Fahim, Muhammad Imran, Aisha Tabassum. Synthesis of Biogenic silver nanocatalyst and their antibacterial and organic pollutants reduction ability, <i>ACS Omega</i> , 7(17), 14723-14734. (2022)	3.512

Research Papers Published in the HEC Recognized Research Journals

Sr,	Publications Details	Category
1	Shafi, F., M. Ishtiaq, Q. Noshad, S.H. Kamran, W. Mushtaq, T. Hussain, M. Maqbool and M. Ajaib. Phytochemical and Antioxidant Activities of Some Selected Medicinal Plants of Family Asteraceae. <i>Bioscience Research</i> , 18(1): 328-336. (2021)	Y
2	Ajaib, M., M. Maqbool, S. Iqbal, T. Hussain, M. Ishtiaq and F. Shafi. A Contribution to ethnobotanical study of wild plants of Reyal Forest, District Bhimber Azad Jammu and Kashmir, Pakistan. <i>Bioscience Research</i> , 18(1): 359-369. (2021)	Y
3	Maqbool, M., M. Ajaib, M. Ishtiaq, W. Mushtaq, T. Hussain and W. Ahmed. Investigation of Antimicrobial and Antioxidant Activity of <i>Aerva sanguinolenta</i> (L.) Blume from District Bhimber (AJK), Pakistan. <i>Bioscience Research</i> , 18(1): 640-652. (2021)	Y
4	Mushtaq, W., M. Ishtiaq, K.H. Bhatti, M. Ajaib, M. Maqbool, T. Hussain and A. Ghani. Ethnobotanical and Hyperglycemic Studies of Leaf and Bark Extract of <i>Viscum album</i> L. in Alloxan Induced Diabetic Rabbits. <i>Bioscience Research</i> , 18(1): 705-719. (2021)	Y
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6	Ajaib, M., F. Shafi, S. Iqbal, K. H. Bhatti and M.F Siddiqui. Antimicrobial and Antioxidant potential of leaves, bark and inflorescence of <i>Ipomoea eriocarpa</i> . <i>FUUAST J. Biol.</i> , 11(1): 1-8. (2021)	Y
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10	Tanveer Hussain, Muhammad Ishtiaq, S. Ashraf, M. Maqbool, F. A. Khan and W. Mushtaq. Biological Efficacy of Wild Medicinal Plants against Three Fungal of Fruit Diseases Occurring in District Bhimber Azad Jammu and Kashmir, Pakistan. Bioscience Research 18(1): 1254-1265. (2021)	Y
11	Nafeesa Zahid, Sheikh Marifatul Haq, Faiza Bashir, Ghanva Ghous, Mubasher Mazhar, Musfirah Anjum, Akhter Rasool, Neelam Rashid. Observations on the floristic, life-form, leaf-size spectra and habitat diversity of vegetation in the Bhimber hills of Kashmir Himalayas, Acta Ecologica Sinica, 41(3), 228-234. (2021)	Y
12	Arif, U., K.H. Bhatti, M. Ajaib, Nasir N.A. Wagay, M. Majeed, J. Zeb, A. Hameed and J. Kiani. Ethnobotanical indigenous knowledge of Tehsil Charhoi, District Kotli, Azad Jammu and Kashmir, Pakistan. Ethnobotany Research & Applications 22(2021):1-24. (2021)	Y
13	Ajaib, M., F. Shafi, S. Iqbal, M. Maqbool, T. Hussain, Z. Afzal and T. Saifullah. A quantitative study of folk traditional knowledge on wild plants of Saryala, Tehsil Barnala, District Bhimber Azad Jammu and Kashmir. Bioscience Research, 19(1):13-26. (2022)	Y
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16	Saima Riaz, Iqbal Hussain, Muhammad Ibrahim, Muhammad Ishtiaq, Qasim Ali, Muhammad Muazzam Ali and Muhammad Sajid Hamid Akash. Extraction and Optimization of Active Metabolites from Cluster Bean: An in Vitro Biological and Phytochemical Investigation, Dose-Response: An International Journal April-June 2022:1-18. (2022)	-

DEPARTMENT OF ZOOLOGY

1. Erich Schaflinger , Jasmin Blatterer , Aiman Saeed Khan , Lukas Kaufmann , Lisa Auinger , Benjamin Tatrai, Sumra Wajid Abbasi , Muhammad Zeeshan Ali , Ansar Ahmad Abbasi, Ali Al Kaissi, Erwin Petek, Klaus Wagne, Muzammil Ahmad Khan, Christian Windpassinger(2022). An exceptional biallelic N-terminal frame shift mutation in ZMPSTE24 leads to non-lethal progeria due to possible utilization of downstream alternative start codon. Gene 833(2022) 146582. (Impact factor: 3.688).
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Department of CS&IT

IMPACT FACTOR RESEARCH PUBLICATIONS

1. A. Sulaiman, M. Sadiq, Y. Mehmood, M. Akram, and G. A. Ali, "Fitness-Based Acceleration Coefficients Binary Particle Swarm Optimization (FACBPSO) to Solve the Discounted Knapsack Problem," *Symmetry*, vol. 14, p. 1208, 2022. (IF 2.731)
2. M. A. Butt, F. Riaz, Y. Mehmood, and S. Akram, "REEEC-AGENT: human driver cognition and emotions-inspired rear-end collision avoidance method for autonomous vehicles," *SIMULATION*, vol. 97, pp. 601-617, 2021. (IF 1.377)

JOURNAL PUBLICATIONS

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3. Abid, S., Hayat, B., Shafique, S., Ali, Z., Ahmed, B., Riaz, F., Sung, T.E. and Kim, K.I., 2021. A Robust QR and Computer Vision-Based Sensorless Steering Angle Control, Localization, and Motion Planning of Self-Driving Vehicles. *IEEE Access*, 9, pp.151766-151774.



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5. Butt, A, Riaz, F., Khalid, S., Abid, S., Shafique, S. and., "Micro-Electromechanical System based Optimized Steering Angle Estimation Mechanism for Customized Self-driving Vehicles", Measurement and Control, 10.1177/00202940211000076, 2021
6. Butt, MA., Riaz, F., Mehmood, Y., and Akram, S., "REEEC-AGENT: Human Driver Cognition and Emotions-Inspired Rear-end Collision Avoidance Method for Autonomous Vehicles", SIMULATION: Transactions of the Society for Modeling and Simulation International, Article ID:T-19-0113, Accepted: February 6, 2021.
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Department of Physics

Sr,	Publications Details	Impact Factor
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MIT Department

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Department of Civil Engineering

List of Research Activities

Performed by the Faculty Members of Civil Engineering

Sr,	Publications Details	Impact Factor
1	Arash Karimi Pour, Amir Shirkhani, Mehmet Serkan KIRGIZ, Moncef Nehdi, Muhammad Syarif, Muhammad Irfan-UL-Hassan, Konstantinos G Kolovos, Enrique Fernandez Ledesma, Andi Yusri, Anwar Khitab, Omrane Benjeddou, Riaz Akhtar Khan, André Gustavo de Sousa Galdino. Alkali-Activated Fly Ash Concrete with Untreated Coal Aggregate: Fresh-and Hardened State Properties	3.328
2	Saqib Riaz, Anwar Khitab, Raja Bilal Nasar, Utilization of Waste Brick Powder for Manufacturing Green Bricks and Cementitious Materials (Springer 18 Chapter of Book "Ecological and Health Effects of Building Materials"	Chapter
3	Rehan Arif, Anwar Khitab, Raja Bilal Nasar Khan, Mehmet Serkan Kirgiz, Seemab Tayyab, Riaz Akhtar Khan, Waqas Anwar, Muhammad Tausif Arshad, Experimental analysis on partial replacement of cement with brick powder in concrete	3.328
4	Musharaf Majeed, Anwar Khitab, Waqas Anwar, Raja Bilal Nasar Khan, Affan Jalil, Zeeshan Tariq. Evaluation of Concrete with Partial Replacement of Cement by Waste Marble Powder	0.8
5	Anwar Khitab, Sajjad Ahmad, Riaz Akhtar Khan, Muhammad Tausif Arshad, Waqas Anwar, Junaid Tariq, Ali Sikandar Rasheed Khan, Raja Bilal Nasar Khan, Affan Jalil, Zeeshan Tariq. Production of Biochar and Its Potential Application in Cementitious Composites	2.404
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7	Sohaib Ahmed, Anwar Khitab. Numerical Evaluation of Structural Concrete Insulated Panels for Thermal Energy Efficient Buildings.	0.654
8	Hasan Birik, Mehmet Kirgiz, Andre-Galdino, S. Kenai, Jahangir Mirza, John Kinuthia, Ahmed Ashteyat, Anwar Khitab, Jamal M Khatib. Activation of slag through a combination of NaOH/NaS alkali for transforming it into geopolymer slag binder mortar	5.039
9	Muhammad Tausif Arshad, Saeed Ahmad, Anwar Khitab, Asad Hanif. Synergistic Use of Fly Ash and Silica Fume to Produce High-Strength Self-Compacting Cementitious Composites	2.404
10	Waqas Anwar, Naveed Ahmad, Anwar Khitab, Muhammad Faizan, Seemab Tayyab, Maria Saeed, Muhammad Imran, Performance augmentation of asphalt binder with	1.106



11	Mehmet Serkan Kirgizab, André Gustavo de Sousa Galdin, John Kinuthia, Anwar Khitab, Muhammad Irfan Ul Hassan, Jamal Khatib, Hesham El Naggar, Carlo Thomas, Jahan gir Mirza, Said Kenaik Tuan Synthesis, physico-mechanical properties, material processing, and math models of novel superior materials doped flake of carbon and colloid flake of carbon	5.039
12	Syarif, Muhammad, Kirgiz, Dr. Galdino, André, Hesham, Mostafa, El Naggar, M. Hesham, Mirza, Jahangir, Khatib, Jamal, Kenai, S. Nehdi, Moncef, Kinuthia, John, Khitab, Anwar, Thomas, Carlos, Ravindran, Gobinath, Irfan, Muhammad, Hassan, Ashteyat, Ahmed Ul, Wu, Yan. Development and assessment of cement and concrete made of the burning of quarry by-product	5.039
13	Zain ul Abidin, Waqas Anwar, Anwar Khitab. Microbiologically induced deterioration of concrete	Chapter
14	Waqas Anwar, Anwar Khitab. Nanotechnology From Engineers to Toxicologists: Risks and Remedial Measures	Chapter
15	Sami Ullah, Altaf Ur Rahman, Fida Ullah, Abdur Rashid, Tausif Arshad, Eva Viglašová, Michal Galamboš, Haseeb Ullah. Adsorption of Malachite Green Dye onto Mesoporous Natural Inorganic Clays	3.101
16	X Gao, M Wang, T Liu, Y Lu, Ahsan Ejaz, Investigation on thermo-mechanical processing and intergranular corrosion of TP347H stainless steel	5.039

Department of Electrical Engineering

Journal Publications

1. S. Manzoor, K. B. Bajwa, M. Sajid, H. Manzoor, M. Manzoor, N. Ali, M. I. Menhas, "Modeling of Wireless Traffic Load in Next Generation Wireless Networks", Mathematical Problems in Engineering, vol. 2021, ArticleID 7293093, 15 pages, 2021. <https://doi.org/10.1155/2021/7293093>
2. U. A. Salaria, M. I. Menhas, and S. Manzoor, "Quasi oppositional population based global particle swarm optimizer with inertial weights (QGPSO-W) for solving economic load dispatch problem," IEEE Access, vol. 9, pp. 134 081–134 095, 2021.
3. T. Ahmad, S. Manzoor, and D. Zhang, "Forecasting high penetration of solar and wind power in the smart grid environment using robust ensemble learning approach for large-dimensional data," (Sustainable Cities and Society), vol. 75, p. 103269, 2021.
4. Manzoor H, S. Manzoor, Ali N, Sajid M, Menhas MI, Hei X. An SDN-based technique for reducing handoff times in WiFi networks. (Int J Commun Syst). 2021;e4955. doi:10.1002/dac.4955
5. S. Manzoor, Y. Yin, Y. Gao, X. Hei, and W. Cheng, "A systematic study of IEEE 802.11 DCF network optimization from theory to testbed," IEEE Access, vol. 8, pp. 154 114–154 132, 2020.



6. S. Kanwal, Z. Iqbal, A. Irtaza, M. Sajid, S. Manzoor, and N. Ali, "Head node selection algorithm in cloud computing data center," *Mathematical Problems in Engineering*, vol. 2021, 2021.
7. S. Manzoor, C. Ze, Y. Gao, X. Hei, and W. Cheng, "Towards QoS-aware load balancing for high density software defined WiFi networks", *IEEE Access*, vol. 8, pp. 117 623–117 638, 2020.
8. K. K. Butt, G. Li, S. Khan, and S. Manzoor, "Fast and efficient image encryption algorithm based on modular addition and SPD," *Entropy*, vol. 22, no. 1, p. 112, 2020.
9. M. Sajid, T. Shafique, M. Baig, I. Riaz, S. Amin, and S. Manzoor, "Automatic grading of palsy using asymmetrical facial features: A study complemented by new solutions," *Symmetry*, vol. 10, no. 7, p. 242, 2018.
10. M. Sajid, T. Shafique, S. Manzoor, F. Iqbal, H. Talal, U. Samad Qureshi, and I. Riaz, "Demographic-assisted age-invariant face recognition and retrieval," *Symmetry*, vol. 10, no. 5, p. 148, 2018.
11. M. Sajid, T. Shafique, I. Riaz, M. Imran, M. Jabbar Aziz Baig, S. Baig, and S. Manzoor, "Facial asymmetry-based anthropometric differences between gender and ethnicity," *Symmetry*, vol. 10, no. 7, p. 232, 2018.





ADMINISTRATIVE AND ALLIED OFFICES

Office of Research, Innovation and Commercialization (ORIC), Quality Enhancement Cell (QEC), Students Assistance Centre (SAC)/ Kamyab Jawan Markaz, Advanced Studies and Research Board (ASRB), Planning & Development Department (P&D), Human Resource Development (HRD), Sports

A black and white photograph of a hand holding a glowing lightbulb. The lightbulb is the central focus, with its internal filament visible. A string of small, out-of-focus lights is visible in the background, creating a bokeh effect. The hand holding the bulb is also out of focus.

OFFICE OF RESEARCH, INNOVATION AND COMMERCIALIZATION (ORIC)

MUST ORIC team takes pride in bridging the academia with industry, government, HEIs and funding (National and International) agencies.

Office of Research, Innovation and Commercialization (ORIC)

Message of Director ORIC



Prof. Dr. Faisal Riaz

Director ORIC

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FAX: +92-5827-961114

Email: director.oric@must.edu.pk

MUST, as an institution in higher education, research and innovation aims to play a central role in the advancement of society and economy by fostering economic growth, strengthening technological progress, and enhancing job creation. I am confident that MUST will be successful in developing new partnerships with leading companies, foundations, and other research-intensive institutions to transfer knowledge from lab to practice. It will provide support for talented faculty and students to pursue foundational research, ideas exchange and most importantly, help prepare students to be civilized.

MUST ORIC team takes pride in bridging the academia with industry, government, HEIs and funding (National and International) agencies. In a very short span of time, ORIC has facilitated its faculty and students in doing high impact factor quality research and working towards protecting their intellectual property rights. ORIC believes that startups can contribute significantly to global economic and social development and hence is working actively towards setting up of Business Incubation Center.

Small Research Grant (SRG)

CALL FOR RESEARCH PROPOSALS

ORIC MUST invites the faculty members to submit research proposals focused on socio-economic issues and local industrial problems in line with the Sustainable Development Goals (SDGs). The proposals submitted under this call are expected to strengthen the research capacity and to contribute to the research mission of MUST.

Rs. 250,000

Local Industries Problems

- Biodiesel Plants to Save Energy
- Industrial Automation
- Natural Gas Pressure Regulators
- Waste Management

National / Global Priority Research Areas

- Agricultural Productivity and Food Security (SDG Goal-1, 2, 3 and 12)
- Fire resistant Plants/forests (SDG Goals-13 and 15)
- Water Management, Clean water and Sanitation (SDG Goals-6 and 14)
- Sustainable and Renewable Energy (SDG Goal-7)
- Building mathematical models for energy forecasting, transportation and sustainable health systems (SDG Goals-7,3 and 11)
- Climate Change and Environment (SDG Goal-13)
- Animal Health and Production (SDG Goals-3 and 12)
- Immunology, Diagnostics & Vaccine Technology (SDG Goal-3)
- Non-Communicable Diseases, Population Health and Genomics (SDG Goal-3)
- Bio-informatics (SDG Goals-3 and 15)
- Biotechnology/Bioengineering (SDG Goals-3 and 15)
- Novel Business Models (SDG Goal-8)
- Advanced Materials and Manufacturing (SDG Goal-9)
- 3D Printing Machines (SDG Goal-9)
- Gas glow regulators for domestic sector (SDG Goal-9)
- Android Apps, Metaverse (AR, VR, Blockchain, Artificial Intelligence, Robotics, Business Webs, Smart Cities), Internet of Things (IOT) and Intelligent Vehicles (SDG Goals-9 and 11)
- Digital industry and digital life (SDG Goals-9 and 15)
- The relationship between international affairs and the problems of racial and ethnic minorities (SDG Goals-10 and 15)
- Quality Education (SDG Goal-4)
- Gender Equality (SDG Goal-5)
- Affordable and clean energy (SDG Goal-7)
- Peace and justice strong institutions (SDG Goal-16)

For Further Information Contact ORIC:

2nd Floor Health Sciences Building,
Allama Iqbal Road, Mirpur
Tel: (92)5827-961114
Email: mrm.oricemust.edu.pk



Internal Research Grants Awarded

ORIC invited SDGs based research proposals against the Small Research Grant Program (SRGP) from the faculty members of MUST under the Budget Head-A022 "Research, Survey and Exploratory Operations". A total of 38 project proposals were received by the ORIC within due date. All the projects were scrutinized based on the proposal content, details attached and basic eligibility criteria. After initial phase of screening, submitted projects were forwarded to "Internal Evaluation Committee" for evaluation. Each member of the "Internal Evaluation Committee" evaluated project on the prescribed score card. The projects were finalized on the recommendations of the experts on prescribed proforma. Among the 38 evaluated projects, 16 projects were short-listed i.e., 5 from Faculty of Engineering, 7 from Faculty of Natural and Applied Sciences and 4 from Faculty of Social Sciences and Humanities. Therefore, evaluated projects are submitted for the approval from the competent authority.

Eligibility Criteria:

- The Principal Investigator must be a university faculty member working on regular or contract basis (contract duration must not be less than project duration).
- All the researchers are supposed to follow the given procedure:
 1. The applicants need to submit their research project proposals in the prescribed format provided by the university (Available on University Website).
 2. The Last date for submission of the proposal is 15TH February 2022 and no proposal will be considered after the due date.
 3. ORIC will initially scrutinize the proposals and then send them to the Internal Research Committee/Ethical IRB.
 4. The researchers will present their proposals to the Internal Review Committee. The successful proposals will be granted funding under SRG.

Last Date:

15 FEBRUARY 2022

Proposal Format is Available at MUST's website download section
www.must.edu.pk



Sr.	Faculty	Project Title	Project PI	Department	Amount (Rs)
1	Engineering	Towards Reducing Handoff Times in Next Generation Wireless Networks	Dr. Sohaib Manzoor	Electrical Engineering	250000/-
2		IoT based Power Generation by using Solar Updraft Tower Coupled with Phase Change	Dr. Anwar ul Haq		250000/-
3		Design and development of an efficient regenerative indirect evaporative cooler	Dr. Naveed Akram	Mechanical Engineering	250000/-
4		Development and Performance Analysis of Piezoelectric Nanogenerator using Fish Scale Nanofiber	Engr. Muhammad Azad		250000/-
5		Study the Possibility of Reuse of Waste oil, Waste tire rubber and Plastic waste as Replacement of Bitumen in Asphalt Mixture	Engr. Khalid Mehmood	Civil Engineering	250000/-
6	Natural and Applied Sciences	Propagation of Orchid flowers using tissue culture techniques	Dr. Zeeshan Shamim	Biotechnology	250000/-
7		"Exploration, Cultivation and Commercial Propagation of Fire	Dr. Muhammad Ishtiaq	Botany	250000/-
8		Automaton in the Metaverse for effective commercialization and rapid business growth	Ms. Samreen Ayaz	CS & IT	250000/-
9		Development of nano-biochars derived from solid waste for carbon sequestration potential in soil	Dr. Mohsin Zafar	Environmental Sciences	250000/-
10		Pimenta officinals Glow Face Mask Sheet (Phase II): Addressing the safety concerns	Dr. Anser Ali	Zoology	250000/-
11	Social Sciences and Humanities	Optimum Utilization of Smart Classroom for Developing MOOCs in Mirpur University of Science & Technology (MUST) Mirpur AJK.	Munawwar Hussain Qureshi	Education	250000/-



12		Research on Language Services and Cultural Adaptation of Chinese and Pakistani Enterprises under the Framework of One Belt One Road: A bilateral Research Project	Dr. Sehrish Shafi	English	250000/-
13		Innovative business models for start ups	Dr. Zafar Iqbal	MBS	250000/-
14		Examining the Impact of Entrepreneurial Competencies on the Performance of TSMEs in Azad Jammu and Kashmir	Dr. Muhammad Khalique	MBS	250000/-

External Research Grants Approved

1. HEC Grants Approved

Sr.	Name of Research Grant (NRPU, GCF, TTSTF, ICRG, LCF etc.)	Name of PI with Designation and Department	Thematic Area	Title of Research Proposal	Total Funding Approved (Rs.)
1	National Research Program For Universities (NRPU)	Muhammad Tariq Awan	Basic	Development of a Nitric Oxide and O ₂ Releasing Microneedle Array based Patch for Diabetic Wound Healing	Rs. 531300
2	National Research Program For Universities (NRPU)	Mehwish Maqbool	Basic	Establishment of Botanical Garden (BG) for Education and Research Purpose in Mirpur University of Science and Technology (MUST) Mirpur, Azad Jammu and Kashmir (Pakistan)	Rs. 9213800



2. HEC Grants Approved

Sr.	Name of Research Grant	Name of PI with Designation and Department	Thematic Area	Title of Research Proposal	Total Funding Approved (Rs.)
1	Agricultural Linkages program (ALP) by Pakistan Agricultural Research Council	Dr. Mohsin Zafar	Applied	Tracing temporal variation in element fluxes in water and suspended sediments from a diverse land use Catchment (Azad Pattan) of Azad Jammu and Kashmir	Rs. 4.28 M
2	One Belt One Road Innovative Talent Exchange Program of China	Dr. Hassan Mujtaba Jafri, Professor, Electrical Engineering Department	Applied	Semiconductor Graphene Light Emitting Field Effect Transistor	Rs. 9.32 M

3. Ignite Grants Approved

Sr.	Code	FYP Title	Amount (Rs.)
1	NGIRI-2021-7954	Reconfigurable antenna using metamaterials	36297
2	NGIRI-2021-8661	Hybrid charging station for e vehicles	49741
3	NGIRI-2021-8700	Low-Cost Autonomous Street Sweeper for Lahore City Roads	57372
4	NGIRI-2021-9321	Power Generation using funnel wind turbine	54913
5	NGIRI-2021-9408	Remapping A Service Oriented Architecture	62699
6	NGIRI-2021-9719	Intelligent intensive care kit for remote patient monitoring	57322
7	NGIRI-2021-9870	Achieving Load Balancing in SDN Based High Density Wi-Fi Network	64748
8	NGIRI-2021-10053	IoT based smart city	52577
9	NGIRI-2021-10066	Sketching and designing of a robotic hand	57372
10	NGIRI-2021-10194	Smart Water Quality Monitoring and Purification system	56921
11	NGIRI-2021-10384	Design and Fabrication of Dual rotor counter wind turbine	49667
12	NGIRI-2021-10400	Procurement and assembly of electric vehicle for special person	65568
13	NGIRI-2021-10449	Design and Development of a Novel Configuration of a Gravitational Water Vortex Heat Exchanger	57372
14	NGIRI-2021-10684	Smart billing and automatic check system	57372
15	NGIRI-2021-10694	Intelligent wall climber robot	55168
16	NGIRI-2021-10782	Power generation using oscillating water column owc	47802



Research Links Established

MUST has established research links with different national and international HEIs, Industries, Corporate sectors and communities over the year. Every year MUST collaborate with many new HEIs, Industries, Corporate sectors and communities. The detail is as follows:

Sr.	Type of Linkage (Academic or Research)	International or National	Name and Address with country of Collaborating Agency/Institution	Field of Study / Research Broader Areas	Linkage Establishment Date
1	Research	National	Mirpur Chamber of Commerce & Industry (MCCI)	R&D of Local Industry	10/12/2021
2	Research	National	ESOLS Ecommerce Solutions	R&D of IT Industry	13-11-2021
3	Research	National	FEDERATION OF PAKISTAN CHAMBERS OF COMMERCE & INDUSTRY (FPCCI)	R&D of Local Industry	1/12/2021
4	Research	National	Water & Power Development Authority (WAPDA)	Power Engineering	7/1/2022
5	Academic	International	Robot Technologies and Intelligent Systems Application Research Centre (ROTASAM), Mechatronics Engineering Department, Sakarya University of Applied Sciences, Turkey	Robotics	7/12/2021
6	Academic	National	University of Veterinary and Animal Sciences, Lahore	Animal Sciences	7/1/2022
7	Academic	National	COMSATS University Islamabad	OBE Development	7/12/2021
8	Research	National	Mangla Metals (private) Ltd. Mangla Steel and Rerollong Mills Private Ltd.	Pollution / Materials	5/1/2022
9	Research	National	Sukhi Development Foundation	Community Services	9/12/2021
10	Research	International	Manchester Metropolitan University, Manchester, England	Robotics	6/6/2022
11	Research	International	Staffordshire University, Staffordsgire, England	Robotics	
12	Research	International	Harper Adams University, Shropshire, England	Robotics	
13	Research	International	Prof. SUNANDAN BARUAH, Assam down town University	Electronics	



14	Research	National	MUHAMMAD ASHFAQ AHMAD, COMSATS University Islamabad	Electronics	
15	Research	National	MUHAMMAD SALEEM, Islamia University of Bahawalpur	Electronics	
16	Research	International	Shandong University, China	Electronics	
17	Research	National	Department of Computer Software Engineering Military Collage of Signals, NUST	Networking	
18	Research	International	Prof. Dr. Hongjie Dong Professor of Sociolinguistics, Head of NCRCLC Vice Dean of School of Liberal Arts Xi'an University (No.1 Keji Liu Rd,710065,Xi'an, Shaanxi Province, P.R.China)	Language	
19	Research	National	GIKI University	Control Engineering	
20	Research	National	National University of Science and Technol-ogy (NUST)	Civil Engineer- ing	
21	Research	National	National University of Science and Technology (NUST)	Robotics	
22	Research	National	Quaid e Azam University	Chemistry	
23	Research	National	Pakistan Institute of Engineering and Applied Sciences (PIEAS)	Statistics	
24	Research	National	Quaid e Azam University	Chemistry	
25	Research	International	Shenzhen Xili University City, Shenzhen, Guangdong, China	International Science and Technology Co-operation Pro-ject	23-07-2020
26	Research	International	PLASMA BIOSCIENCE RESEARCH CENTER (PBRC), SEOUL, SOUTH KOREA	Bioscience	10/2/2020
27	Academic	National	Department of Health AJ&K	Health	24-09-2020
28	Academic	National	Huawei Technologies (Pvt.) Ltd.	Technology	25-08-2020
29	Research	National	Livestock and Dairy Development Depart-ment, AJK	Veterinary and Animal Sciences	21-11-2020



30	Research	National	Kashmir Orphan Relief Trust (KORT), Mirpur AJK	IT Infrastructure	1/1/2016
31	Academic	International	Amerian Board for Certification of Teachers excellence (ABCTA), USA	Teachers Training	28-10-2019
32	Research	National	Consulden's Recruitments pvt. Ltd.	Research and Development	7/10/2019
33	Academic	National	Muslim Hands	Renewable Energy	1/11/2019
34	Academic	National	PAKISTAN COUNCIL OF RENEWABLE ENERGY TECHNOLOGIES (PCRET), ISLAMA-BAD / NATIONAL INSTITUTE OF ELEC-TRONICS (NIE), ISLAMABAD.	Renewable Energy	28-01-2020
35	Academic	National	Allied Bank Limited	Digital Cash Collection	15-02-2018
36	Academic	International	Inner Mongolia University of Technology, Ohhot, China	education and science	6/7/2019
37	Academic	National	Pakistan Testing Service (PTS)	Testing Services	17-04-2019
38	Academic	International	Cyprus International University, North Cyprus	education and science	27-07-2018
39	Academic	National	Divisional Headquarter Teaching Hospital Mirpur AJK	Health	10/4/2019
40	Research	National	Forest Department AJK	Forestry	24-04-2019
41	Research	National	HUBCO Laraib Energy Limited	Power generation	27-03-2019
42	Research	National	Jammu and Kashmir Liberation Cell	Kashmir Issue	28-11-2018
43	Academic	National	Greenwich University Pakistan	Research and Development	7/2/2018
44	Research	National	Health care for all International (HC4AI)	Health	30-03-2018
45	Research	National	Honda Empire, Mirpur AJK	Internships	30-04-2018
46	Research	National	Toyota, Azad Kashmir	Internships	25-04-2018
47	Research	National	Driving Licence Authority AJK, Kotli District	License Printing	17-09-2016
48	Research	National	Momina Cheema Foundation	Social Development	10/11/2016
49	Research	National	The Sandbox (Pvt) Ltd.	Entrepreneurship	17-04-2017
50	Academic	International	AL-Zaitoonah University of Jordan Amman, Jordan	Research and Development	24-02-2015
51	Academic	International	Fatih University Istanbul, Turkey	Research and Development	24-02-2015



52	Academic	National	Higher Education Directorate of colleges, AJK	education	1/4/2015
53	Academic	National	Indus University Karachi	Research and Development	22-02-2015
54	Academic	International	Inonu University Turkey	Research and Development	24-02-2015
55	Academic	International	Iran University of Science & Technology, Narmak, Tehran, Iran	Research and Development	24-02-2015
56	Research	National	National Institute of Laser and Optronics, Is-lamabad	Research and Development	27-11-2014
57	Research	National	Pakistan Youth Change Advocates, Islama-bad	Social Development	3/4/2015
58	Research	International	PFL International Education Support Ser-vices, Dubai, UAE	Research and Development	17-06-2015
59	Academic	International	Mbarara University of Science & Technology, Mbarara, Uganda	Research and Development	23-02-2015
60	Academic	International	University of Bahri, Khartoum, Sudan	Research and Development	23-02-2015
61	Academic	International	Univerity of Gizira, Sudan	Research and Development	24-02-2015
62	Academic	International	University of Malaya, Malaysia	Research and Development	24-02-2015
63	Academic	International	The Promotion of Foundation in Pakistan (PFP), USA	Social Development	20-03-2014
64	Research	National	Pakistan Space and Upper Atmosphere Re-search Commission (SUPARCO), Lahore	Satellite Technology	23-06-2014
65	Research	International	The Research Institute of Pomology, Chinese Academy of Agricultural Sciences, China	Pomology	9/6/2014
66	Academic	National	Akhtar Hameed Khan Resource Centre, Is-lamabad	Training Programs	6/5/2013
67	Research	National	SMEDA Regional Office, Punjab	Entrepreneurship	5/12/2012

Joint Research Projects approved

Sr.	Name of Joint Research Grant & Funding Agency	National or International	Name of PI with Designation and Department	Name of Co-PI with Designation, Department & University	Title of Research Proposal
1	One Belt One Road Innovative Talent Exchange	International	Prof. Dr. Hassan M. Jafri, Professor, Electrical Engineering	Prof. Dr. Hu. Li, School of Micro-electronics, Shandong University, China	Semiconductor graphene lighting emitting field effect transistor
2	MUST SRG Program	National	Dr. Sohaib Manzoor, Lecturer, Electrical Engineering	Engr. Dr. Saddam Rubab Department of Computer Software Engineering Military College of Signals, NUST	Towards Reducing Handoff Times in Next Generation Wireless Networks
3	MUST SRG Program	International	Dr. Sehrish Shafi, Lecturer, English	Prof. Dr. Hongjie Dong Professor of Sociolinguistics, Head of NCRCLC Vice Dean of School of Liberal Arts Xi'an University (No.1 Keji Liu Rd, 710065, Xi'an, Shaanxi Province, P.R.China)	Research on Language Services and Cultural Adaptation of Chinese and Pakistani Enterprises under the Framework of One Belt One Road: A bilateral Research Project
4	NRPU-HEC	National	Dr. Sajjad Manzoor, Assistant Professor, Electrical Engineering	GIKI University	Vision based assistive navigation and assistive grasping using deep learning for visually paired people
5	NRPU-HEC	National	Anwar Khitab, Professor, Civil Engineering	National University of Science and Technology (NUST)	Development and Characterization of Crack Resistant Environment Friendly and Sustainable Cementitious Composites with Enhanced Strength and Ductility
6	P&D-HEC	National	Dr. Faisal Riaz, Associate Professor, CS&IT	National University of Science and Technology (NUST)	Establishment of National Centre in Robotics & Automation (NCRA) Control Automotive & Robotics Lab, Mirpur University of Science and Technology



7	NRPU-HEC	National	Dr. Tashfeen Akhtar, Associate Professor, Chemistry	Quaid e Azam University	Synthesis of Chalcone Scaffold Using Molecular Hybrid Approach to Combat Anti-malarial Drug Resistance Challenges
8	NRPU-HEC	National	Dr. Aamir Saghir, Associate Professor, Statistics	Pakistan Institute of Engineering and Applied Sciences (PIEAS)	Phase II Control Charts for Monitoring Process Dispersion Based on False Alarm Probability.
9	NRPU-HEC	National	Prof. Dr. Ch. Aziz, Professor, Chemistry	Quaid e Azam University	Synthesis of Transition Metals Nanostructures by Microwave-Assisted Polyol Reduction Method and Determination of its Catalytic Applications.

Volume of R&D secured

The researchers of Mirpur University of Science and Technology (MUST) have been successful in achieving the research grants under different research grants programs. The detail of Volume of R&D Funding Secured during the year is as follows:

Sr.	Grant	Project Title	PI Name	Department	Amount (PKR)
1	National Research Program for Universities	Development of a Nitric Oxide and O2 Releasing Microneedle Array based Patch for Diabetic Wound Healing	Muhammad Tariq Awan, Assistant Professor	Biotechnology	5,313,000
2	National Research Program for Universities (NRPU)	Establishment of Botanical Garden (BG) for Education and Research Purpose in Mirpur University of Science and Technology (MUST) Mirpur, Azad Jammu and Kashmir (Pakistan)	Mehwish Maqbool, Jr. Lec-turer, Botany	Department of Botany	9,213,800
3	Agricultural Linkages pro-gram (ALP) by Pakistan Agri-cultural Re-search Council	Tracing temporal variation in element fluxes in water and suspended sediments from a diverse land use Catchment (Azad Pattan) of Azad Jammu and Kashmir	Dr. Mohsin Zafar, Associate profes-sor, Environmen-tal Sciences	Environmental Sciences	4,280,000
4	One Belt One Road Innovative Talent Exchange Program of Chi-na	Semiconductor Graphene Light Emitting Field Effect Transistor	Dr. Hassan Mu-jtaba Jafri, Profes-sor, Electrical Engineering	Electrical En-gineering	9,316,898
5	Small Research Grant	14 projects awarded of amounting Rs. 250000 per project.			3,500,000
6	Ignite Pakistan	16 projects awarded by Ignite amounting Rs. 897914 in total.			897914
Total					32,521,612



Consultancy Contracts Executed

Following consultancy contracts were executed during the year:

Sr.	Project Title	Department	Company Details (Name, Country, etc.)	Type of Consultancy Ser-vices (Feasibility, Proto-type Development, Test-ing, Analysis etc.)
1	Improved the technical aspects regarding the electric batteries	CS&IT De- partment	Affordable EV, Mirpur AJK	Technical Assistance
2	Technically improved the applica-tion of 'Khaana'	CS&IT De- partment	Khaana, Mirpur AJK	Technical Assistance
3	3D modeling practices	ORIC Direc- torate	Metavars	Technical Assistance
4	Algorithms of motion planning	CS&IT De- partment	SelfTech Private Limited	Technical Assistance
5	Enumeration in the baseline study of food security, education, emergencies, health, livelihood and wash.	Sociology Department	Muslim Hands	Data collection
6	Nanomaterials for environmental and energy applications	Electrical Engineering	Shandong University, China	Lecture Delivery

Priority Research Areas

A. Sustainable Development Goals (SDGs)

The SDGs, also known as the global goals, are a universal call of action to end poverty, protect the planet and ensure that all people enjoy peace and prosperity. These 17 Goals build on the Millennium Development Goals (MDGs), while including new areas such as climate change, economic inequality, innovation, sustainable consumption, peace and justice, among other priorities. The goals are interconnected – often the key to success on one will involve tackling issues more commonly associated with another.

At the Sustainable Development Summit on 25 September 2015, UN member states adopted the 2030 agenda for sustainable development, which includes a set of 17 SDGs to end poverty, fight inequality and injustice, and tackle climate change by 2030. These goals are listed as follows:

GOAL 1: No Poverty (Priority – II)

GOAL 2: Zero Hunger (Priority – I)

GOAL 3: Good Health and Well-being (Priority – I)

GOAL 4: Quality Education (Priority – I)

GOAL 5: Gender Equality (Priority – II)

GOAL 6: Clean Water and Sanitation (Priority – I)

GOAL 7: Affordable and Clean Energy (Priority – I)



- GOAL 8: Decent Work and Economic Growth (Priority – I)
- GOAL 9: Industry, Innovation and Infrastructure (Priority – II)
- GOAL 10: Reduced Inequality (Priority – II)
- GOAL 11: Sustainable Cities and Communities (Priority – II)
- GOAL 12: Responsible Consumption and Production (Priority – III)
- GOAL 13: Climate Action (Priority – III)
- GOAL 14: Life Below Water (Priority – III)
- GOAL 15: Life on Land (Priority – III)
- GOAL 16: Peace and Justice Strong Institutions (Priority – I)
- GOAL 17: Partnerships to Achieve the Goal (Priority – II)

B. Key Research Areas for MUST Researchers

Priority research areas (Highlighted by local industries and SDGs by UN) topics are given below:

I. Local Industries Problems

- Biodiesel Plants to Save Energy
- Industrial Automation\
- Natural Gas Pressure Regulators
- Waste Management

II. National / Global Priority Research Areas

- Agricultural Productivity and Food Security (SDG Goals-1, 2, 3 and 12)
- Fire resistant Plants/forests (SDG Goals-13 and 15)
- Water Management, Clean water and Sanitation (SDG Goals-6 and 14)
- Sustainable and Renewable Energy (SDG Goal-7)
- Building mathematical models for energy forecasting, transportation and sustainable health systems (SDG Goals-7,3 and 11)
- Climate Change and Environment (SDG Goal-13)
- Animal Health and Production (SDG Goals-3 and 12)
- Immunology, Diagnostics & Vaccine Technology (SDG Goal-3)
- Non-Communicable Diseases, Population Health and Genomics (SDG Goal-3)
- Bioinformatics (SDG Goals-3 and 15)
- Biotechnology/Bioengineering (SDG Goals-3 and 15)
- Novel Business Models (SDG Goal-8)

- Advanced Materials and Manufacturing (SDG Goal-9)
- 3D Printing Machines (SDG Goal-9)
- Gas glow regulators for domestic sector (SDG Goal-9)
- Android Apps, Metaverse (AR, VR, Blockchain, Artificial Intelligence, Robotics, Business Webs, Smart Cities), Internet of Things (IOT) and Intelligent Vehicles (SDG Goals-9 and 11)
- Digital industry and digital life (SDG Goals-9 and 15)
- The relationship between international affairs and the problems of racial and ethnic minorities (SDG Goals-10 and 15)
- Quality Education (SDG Goal-4)
- Gender Equality (SDG Goal-5)
- Affordable and clean energy (SDG Goal-7)
- Peace and justice strong institutions (SDG Goal-16)

Other ORIC Events During the year

1. ORIC MUST visits Cranfield University, United Kingdom

A visit of Prof. Dr. Faisal Riaz, Director ORIC MUST to Cranfield University, (United Kingdom) for future research collaboration between Control Automotive and Robotics (CAR) Lab National Center of Robotics and Automation (NCRA). Director ORIC had a detailed meeting with Dr. Ivan Petrunin regarding research in self-driving vehicles. Director paid thanks to NCRA and worthy Vice Chancellor MUST for their support in this regard. After this visit, CAR LAB MUST will be able to work in the field of smart road infrastructure for self-driving vehicles.



Venue: Cranfield University, United Kingdom
Date: 5th May 2022

2. One Day Training Workshop on Small Business Start-up and Management

ORIC is keen to strengthen MUST researchers to become an asset for academia as well as industries. In this regard, ORIC has trained MUST faculty members and students on small business start-up and management on May 16, 2022. z

Thanks to Ms. Hina Nisar, Lead Trainer at Org. Exc (School of trainers) and HR- Soft Skills Trainer at Lexicon Ifa- UK, and Chaudhary Rukhsar, Reginal Director, SMEDA Pakistan for providing opportunity to MUST researchers. Members from Mirpur Chambers of Commerce have also participated in the training session.

Venue: Mechanical Hall MUST
Date: 16th May 2022



ORIC is keen to strengthen MUST researchers to become an asset for Industries. In this regard, ORIC has trained 12 departments of MUST on 'how to draft and file a Patent in IPO Pakistan' on March 14, 2022.

Thanks to Ms. Shakra Khurshid, Assistant Controller, IPO Pakistan and Chaudhary Rukhsar, Regional Director, SMEDA Pakistan to provide this opportunity to MUST researchers. Members from Mirpur Chambers of Commerce have also participated in the training session.

Venue: Conference Hall, CS&IT building City campus

Date: 14th March 2022





4. Orientation Session on Business Model Development

An interactive session on "Business Model Development" was organised by ORIC in NTC Conference Hall today. Prof. Dr. Faisal Riaz (Director ORIC) has elaborated the key features of a successful Business Model as resource person. MUST researchers (who have applied for Small Research Grant) have participated in the session.

Venue: Conference Hall, CS&IT building City campus

Date: 9th March 2022



5. Orientation Session on Small Research Grant Programme

An orientation session on small research grant programme was held at MUST at NTC Conference Hall, city campus MUST by ORIC MUST. Prof. Dr. Faisal Riaz, Director ORIC elaborated on the key features of the small research grant programme and motivated young researchers to submit grant proposals to add value to their work and university. MUST researchers from different departments have participated in the session.

Venue: Conference Hall, CS&IT building City campus

Date: 10th February 2022



6. ORIC Team meeting with DIG (Mirpur Division) Police Department

As per community serving the vision of Worthy Vice Chancellor Brig. (R) Prof. Engr. Dr. Muhammad Younus Javed SI (M) MUST Mirpur, team ORIC held a meeting with DIG (Mirpur Division) Police Department, Dr. Khalid Mahmood Chauhan (PhD in criminology) in his office in the supervision of Director ORIC, Prof. Dr. Faisal Riaz on Friday 28th January 2022. Mutual interest projects related to community services/social welfare between the MUST and Police Department were the main agenda of the meeting. An MoU is expected in this regard, soon.

Venue: DIG (Mirpur Division) Police Department Office

Date: 28th January 2022



7. MoU between Hydropower Training Institute (HPTI) Mangla WAPDA and MUST

An MOU has been signed between HPTI Mangla WAPDA and MUST. HPTI is second state of the art of WAPDA established in Mangla. It will offer learning opportunities for young engineers and technologist of MUST. Prof. Dr. Faisal Riaz (Director ORIC), Engr. Dr. Ghulam Qadar Chaudhary (Manager Innovations and Commercialization), and Mr. Faisal Latif Chaudhary (Manager BIC) participated from MUST whereas, Engr. Aurangzeb (Chief Engineer/ Principal HPTI Mangla), Mirza Arshad (Chief Engineer Power), Engr. Dr. Akram Ali (Director HPTI), Engr. Muhammad Tariq (Additional Chief Engineer), and Engr. Ali Imran (Dy. Director HPTI) from WAPDA participated in the MOU ceremony.

Venue: Hydropower Training Institute (HPTI) Mangla WAPDA

Date: 18th January 2022



8. One day Workshop on “Intellectual Property Rights in Pakistan”

ORIC and SMEDA organized one day training workshop on “Intellectual Property Rights “. Mr. M. H. Hijazi conducted the workshop and president chamber of commerce Gujrat had also participated in the event. MUST's faculty, students and AJKCCI members participated and learned about Patent, Copyrights, Trademarks.

Venue: Conference Hall, CS&IT building City campus

Date: 4th January 2022



9. Orientation Session and Ideation Workshop

An orientation session of Pakistan Startup Cup 2022 is held at MUST today at Mechanical Hall, city campus MUST at 11 am by ORIC MUST. Mr. Khawar Mahmood, communication and program manager the Indus Entrepreneurs (TiE), Islamabad elaborated the key features of coming Startup Cup 2022. Final Year students from different departments have participated in the event with faculty members.

ORIC is very excited to inform you that TiE - Islamabad has launched the 8th edition of Pakistan Startup Cup; the biggest startup competition in Pakistan, with the vision to connect, to help scale and to inspire young innovators and entrepreneurs all around Pakistan. In this journey, TiE aspires to take as many partners and supporters from MUST, as possible.

The exciting part is that, in this edition i.e. Pakistan Startup Cup 2022, for the first time TiE has included AJ&K and GB for the regional rounds. They will conduct all activities including Regional Build-A-Business (BAB) workshops, One-on-One Coaching and Mentoring sessions in collaboration with regional partners in AJ&K starting in January 2022.

Venue: Mechanical Hall MUST

Date: 14th December 2021



10. MoU between ORIC MUST and Mirpur Chamber of Commerce and Industries

An MoU has been signed between Mirpur Chamber of Commerce and Industries (MCCI) and MUST for further research collaboration between both parties to commercialise the products of MUST Researchers. President Chamber of Commerce and Industries Mr. Faisal Manzoor is highly appreciated in this regard.

Venue: President office Chamber of Commerce and Industries Mirpur

Date: 10th December 2021



11. 1st Industrial Exhibition by ORIC MUST

1st Industrial Exhibition was organised by ORIC MUST on Monday November 29, 2021 at city campus ground. The worthy Vice Chancellor MUST Brig. (R) Prof. Dr. Muhammad Younus Javed SI (M) inaugurated the event as a chief guest along with President Chamber of Commerce and Industries Mr. Faisal Manzoor.

There were 42 stalls in the event from different universities and start ups including COMSATS University Islamabad, UET Taxila, University of Kotli, LUMS Lahore, BOUITEM University Quetta, Mobiroid, Esols, Selftech and MIT Mirpur who have also brought their stalls in the event. The event is widely covered by local and national media.

Venue: City Campus Ground



Date: 29th November 2021

12. A One-day Workshop on Startup

A one-day workshop on startup was organised by ORIC MUST on November 18, 2021 in NTC Conference Hall, CS&IT building City campus to learn the building blocks of launching a Startup.

Venue: Conference Hall, CS&IT building City campus

Date: 18th November 2021



13. Meeting with Regional Director SMEDA

A meetup was held between ORIC-MUST and Regional Director SMEDA (Chamber of Commerce, Gujrat) Mr. Ch. Rukhsar Warraich to enhance the industrial collaboration between MUST and Gujrat Industry. Mr. Ch. Rukhsar Warraich is a wonderful personality and very interested in academia-industry collaboration. MUST researchers be expected to get wonderful opportunities to work closely with SMEDA and industry.

Venue: Chamber of Commerce, Gujrat

Date: 18th November 2021



14. One-day Workshop on “How to write a successful proposal”

A LIDAR technology training conducted on the 2nd November at MUST by the Agricultural Robotics Lab LUMS, Lahore. Furthermore, LUMS handed over Velodyne LiDAR of worth 4 million to ORIC, MUST.

This technology will help MUST researchers in acquiring real-time perception data to enable safe and reliable operation for robotics.

Venue: Conference Hall, CS&IT building City campus

Date: 1st November 2021





QUALITY ENHANCEMENT CELL (QEC)

To focus on modern trends of globalization in teaching, learning and research for sustainable academic development through auto-corrected procedure for quality improvement in the MUST.QEC is committed to pursue its mission, throughout the year by continuous working.



Quality Enhancement Cell (QEC)

The MUST is committed to provide quality higher education to the youth of the AJ&K. To ensure this objective, maintenance of high quality standards is the main objective of MUST. MUST leadership has been committed for quality assurance like HEC is also committed to achieve quality standards within Higher Education Institutes. To achieve this common objective, a quality-centric institution QEC is working in the university since its establishment. At QEC, the quality of the degree programs is ascertained through the set criteria and measurable standards. These standards and criteria are devised by the HEC Pakistan. QEC is rigorously pursuing these standards through implementation of the HEC criteria. The university is moving ahead on the path of tremendous progress. In order to establish the self-efficacy and enhance the quality as an embedded feature, self-assessment system is implemented in the university as well as its affiliated institutes.

QEC Vision

Quality Education for Societal and National Development through Innovation, Facilitation and Accountability

QEC Mission

To focus on modern trends of globalization in teaching, learning and research for sustainable academic development through auto-corrected procedure for quality improvement in the MUST. QEC is committed to pursue its mission, throughout the year by continuous working.

QEC activities during the year 2022 are discussed as follows:

QEC Activity in collaboration with Kamyab Jawan Markaz (KJM)

Kamyab Jawan Markaz (KJM) of MUST, in Collaboration with QEC MUST and Students Development Centre (SDC) MUST, ventured one-day capacity building workshop on quality of educational organization management systems & scope of diverse programs offered in MUST Mirpur AJK, on June 17, 2022 at 10:00 am.

Dr. Moshin Zafar, Focal Person Kamyab Jawan Markaz MUST / Director SAC warmly welcomed honorable Guest Speaker Dr. Maria Younus, DHQ hospital Mirpur. Focal Person KJM while shedding light on the importance of subject workshops said such seminars, symposiums & workshops inspire participants to explore new avenues on their own, illustrate and promote actual process practice, introduce new ideas & mentioned events are viable ways to teach hands-on skills as these Workshops give learners opportunities to try out new methods.

Guest Speaker, Dr. Maria Younus, DHQ, hospital Mirpur briefed the university students of medical sciences and participants on the scope and prospects of following areas through presentation:

1. Scope & importance of Allied Sciences.
2. Emerging role Doctor of Physical Therapy (DPT).
3. Medical Lab Technology is pivotal of modern science.
4. Surgical & OT Technology.
5. Nutritionists & Dietetics.
6. Clinical Nutritionist.

Address of Guest Speaker was followed by Dr. Azhar Hussain, Deputy Director QEC on who dilated on subject: quality of educational organizations management systems EOMS 21001: 2018 ISO standard where he talked about objectives of educational organizations, potential benefits of implementing ISO 21001, challenges faced by the educational, scope of the EOMS 21001: 2018 ISO standard and it's requirements.

Dr. Muhammad Aslam, Director Quality Enhancement Cell (QEC) in closing remarks thanked Guest Speaker, Dr. Maria Yunus, Dr. Moshin Zafar, Focal Person Kamyab Jawan Markaz MUST/ Director SAC, Dr. Muhammad Altaf, Director Student's Affairs & organizers of the event.



Prof. Dr. Muhammad Aziz Chaudhary, Dean Faculty of Natural and Applied Sciences presented shdiel to Guest Speaker, Dr. Maria Yunus and certificates to the organizers.

Impact Rankings Celebration

QEC MUST in coordination with the DSA office and Vice Chancellor office organized impact rankings celebration on Tuesday, May 31, 2022 at 11:00 am. Brig. (R) Prof. Dr. Muhammad Younus Javed SI (M) Vice Chancellor, MUST, Mirpur along with Deans & Principal Staff Officers received His Excellency Barrister Sultan Mehmood Chaudhary, President of AJ&K / Chancellor MUST, at City Campus of the University on the event of celebration and award distribution ceremony of the first MUST ranking by THE Impact Rankings - 2022.

Brigadier Younis Javed paid tribute to former Vice Chancellors MUST for their great services and highlighted their vital contributions. Vice Chancellor congratulated Director QEC and his entire team for achieving 1st position in Azad Kashmir, 53rd in Pakistan and 1001+ category / International Rankings. His Excellency Barrister Sultan Mehmood Chaudhary, President of AJ&K / Chancellor Mirpur University congratulated Brig. (R) Prof. Dr. Muhammad Younus Javed SI (M) Vice Chancellor MUST, faculty, staff and students of MUST. He further said quality of education is important to be competitive and therefore, it is a matter of satisfaction for us that MUST has attained excellence. He said being a Barrister himself he always stressed on the importance of education as a powerful instrument in the mission to strengthen Pakistan's socio-economic development.





Institutional Performance Evaluation (IPE) activity:

Under the direction of the HEC, QEC is strengthening the quality in HEIs. To achieve this objective, institutional performance evaluation committee had reviewed the MUST performance. The committee had been constituted with internal and external members to ensure balance of impartiality and local knowledge. Following committee had been constituted to review the institutional performance:

Dr. Riaz Ahmad (External Reviewer)

Director Quality Assurance,

National University of Science & Technology, Islamabad

Dr. Muhammad Aziz Choudhry (Internal Reviewer)

Dean, Faculty of Natural and Applied Sciences, MUST, Mirpur AJ&K

Head of the Committee

Dr. Muhammad Aslam (Member)

Director Quality Enhancement Cell, MUST, Mirpur AJ&K

Dr. Naeem Iqbal Ratyal (Member)

Chairman Department of Computer System Engineering, MUST, Mirpur AJ&K

Dr. Saira Farooq Shah (Member/Secretary)

Coordinator Department of Education, MUST, Mirpur AJ&K

Three days activity of IPE for self review 2022 was held at MUST Mirpur AJ&K on 10-12 May, 2022. Meeting was organized by the office of QEC under the leadership of honourable Vice Chancellor Brig. (R) Prof. Dr. Muhammad Younus Javed S.I (M), with the collaboration of Registrar & Treasurer Office.

1. On first day, the Panel reviewed all the documents of the university according to the 11 set standards of the HEC IPE manual guidelines, and documented all the findings.
2. Professors/Lecturers, and students were arranged by the QEC office at the Electrical Engineering meeting room MUST.
3. On third day, visits to classrooms, labs and libraries of the diverse departments were made to observe/check the facilities, and evidences were recorded/documentated.

The panel prepared the final draft report before closing the activity. It was followed by the exit meeting with the Vice Chancellor, MUST. In the exit meeting external review member Dr. Riaz Ahmed, Director Quality Assurance NUST Islamabad, and Director QEC

MUST Dr. Muhammad Aslam shared the salient features of the report with the worthy Vice Chancellor. Dr. Riaz Ahmed appreciated the internal review team and QEC team MUST for organizing successful three day activity. He admired the standard of educational quality of MUST and extended his appreciation to the worthy Vice Chancellor for his excellent efforts to uplift the university at national as well as at global level.



Dr. Riaz Ahmad (Director QA NUST Islamabad), receiving shield from the worthy Vice Chancellor and Director QEC



QEC Awareness Session on THE Impact Rankings 2022 & Rise of MUST at International Canvas

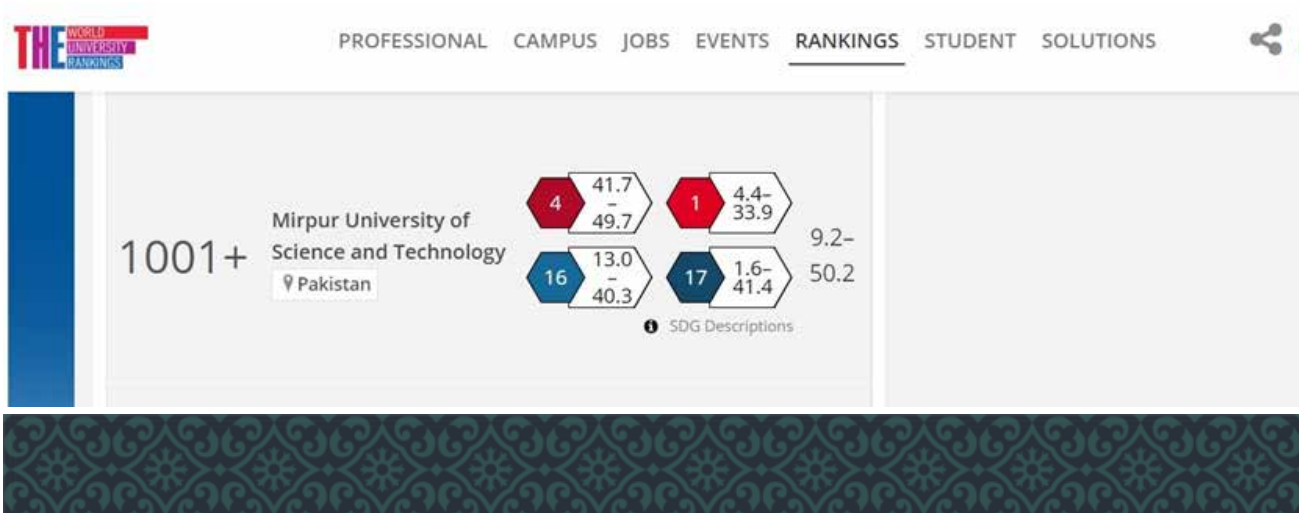
QEC organized awareness session on THE Impact Rankings, with the support of Treasurer office and NTC office on Monday May 09, 2022 at 11:00 hrs in the video conference room of city campus of the university. Brig. (R) Prof. Dr. Muhammad Younus Javed SI (M) Vice Chancellor, MUST, Mirpur presided the awareness session. The THE Impact Rankings are the global league tables that assess universities against the SDGs and this program is working since 2000 with MDGs for the first 15 years (2000 – 2015) & vision 2030 as second phase named SDGs (2015 – 2030). It is noteworthy to mention here that MUST, Mirpur AJ&K has attained special excellence in THE 2022 and has been placed at 53rd position in Pakistan (First in AJ&K Universities) and Ranked at 1001+ category at the International level by THE by competing 106 different countries/regions.

While addressing the awareness session, Brigadier the Vice Chancellor congratulated the participants and commended the Director QEC and his entire team for achieving this milestone. He further said MUST prestigious international ranking will increase employability rate of university graduates at national and international job markets. Global visibility of MUST, will also help in collaboration and partnerships, recognition of MUST degrees at national and international level and will add in quality of research.

Introductory part of presentation was given by Dr. Muhammad Aslam, QEC which was followed by detailed presentation by Deputy Director QEC, Dr. Azhar Hussain, aimed to educate MUST faculty regarding SDGs, it's tables & significance of Data, procedures to document events & activities of the departments.

After detailed briefing of QEC honorable Vice Chancellor MUST invited questions from the house and extensive discussion was carried out on potential SDGs where this organization can work on, way and means to ensure participation of all departments to put joint efforts & actions to improve national and international rankings.

Session was attended by, Registrar MUST, Dean Faculty of Natural and Applied Sciences, Dean Faculty of Engineering and Technology, Dean Faculty of Social Sciences and Humanities, Dean Faculty of Veterinary and Animal Sciences, Director MUST Business School Treasurer MUST, Controller of Examinations, Heads of Directorates, Chairpersons and Coordinators.





Post Graduate Program Review Activity

QEC MUST is focusing to strengthen the quality research culture in the university. To achieve this objective, postgraduate programs are reviewed annually to monitor their performance and to look for room of improvement. QEC MUST arranged a Post Graduate Program Review (PGPR) in coordination with the HEC Pakistan Islamabad. Following HEC review panel visited MUST Mirpur to evaluate MS/M. Phil. and PhD programs:

Dr. Gul Hassan, Dean-Department of Law

Professor at Institute of Balochi Language and Culture

University of Turbat, Turbat Balochistan

Prof. Dr. Muhammad Khalid Mahmood, Secretary/Member

National Accreditation Council for Teacher Education (NACTE),

Islamabad

Dr. Fouzia Naseem,

Assistant Professor, College of Law

Government College University, Faisalabad

HEC Representatives:

Ms. Humaira Quddus, Deputy Director QAA HEC, Islamabad

Ms. Memoona (Coordinator) QAA HEC, Islamabad

Two days HEC PGPR activity for the year 2021-2022 was held at MUST Mirpur AJ&K on 22-23 February, 2022. Meeting was organized by the office of QEC under the leadership of honourable Vice Chancellor Brig. (R) Prof. Dr. Muhammad Younus Javed S.I (M), with the collaboration of Registrar & Treasurer Office.

On the first day, the Vice Chancellor welcomed the HEC review panel. In the opening session, review panel was briefed by Deputy Director QEC, Dr. Azhar Hussain, about the status of all the postgraduate programs running at MUST, Mirpur AJ&K. After the briefing panel reviewed all the documents of the university according to HEC PGPR guidelines, and documented all the findings.

On the second day, visits to classrooms, labs and laboratories of the selected departments were made to observe/check the facilities, and evidences were recorded/documented.

The panel prepared the final draft report before closing the activity. It was followed by the exit meeting with the Prof. Dr. Muhammad Younus Javed S.I (M), Vice Chancellor Mirpur University. In the exit meeting the panel shared the salient features of the report with the worthy Vice Chancellor. Review panel appreciated the QEC Team MUST for organizing successful two days activity. Panel also admired the standard of educational quality of

MUST and appreciated the worthy Vice Chancellor for his excellent efforts to uplift the research culture of the university at national and international level.





Group photo of HEC Review Panel with the honorable Vice Chancellor, Director QEC, Registrar MUST and Treasurer MUST.

QEC MUST participated/contributed in HEC 3-Day activity on Strengthening Internal Quality Assurance, Progress Review Meeting & Training of QECs

The HEC activity on 'Strengthening Internal Quality Assurance, Progress Review Meeting & Training of QECs' was jointly organized by HEC and Air University at Islamabad, on 03-05 January 2022.

First-day interactive session covered the progress review of different universities including MUST, Mirpur AJ&K. MUST provided the following inputs:

1. Analysis of last year's performance as per scorecard of 2019-21 that includes identification of weak areas and steps taken for addressing those weak areas.
2. Analysis of online surveys and measures taken to address the outcomes of surveys.
3. The hindrances, including COVID-19, in achieving the targets for 2019-21 & strategy to achieve targets for 2021-22.
4. Discussion on the targets of 2021-22 and issues related to submission and assessment of progress reports.

Second-day training was focused on HJRS & research publication verification conducted by research and innovation division of HEC, followed by HEC Quality Assurance Division lecture on plagiarism policy. It was also an interactive day and inputs from all the QECs were entertained and documented by the HEC.

The third interactive day was on rethinking and revising the IPE process and also the PGPR cycle/process. Reservations/expectations of the QECs were documented, including MUST Mirpur AJ&K.



Dr. Muhammad Aslam, Director QEC MUST, with Director QA NUST Dr Riaz Ahmed and Director QEC AJKU Muzafarabad, Dr. Raja Ayyaz.

EOMS 21001:2018 ISO Lead Auditor Training by Deputy Director QEC MUST

To understand the internationally recognized best practice framework for Educational Organizations Management Systems (EOMS), Deputy Director QEC MUST, Dr. Azhar Hussain, completed a 5-day training/certification on ISO 21001:2018 EOMS Lead Auditor Course. This training was organized by Quality Systems International (QSI) at Lahore on 13-17 December 2021.

ISO 21001:2018 EOMS lead auditor course provides a common management tool for organizations providing educational products and services capable of meeting the needs and requirements of learners and other customers. It is a stand-alone management system standard, aligned with other ISO management system standards (such as ISO 9001, ISO 14001, etc.) through the application of the high level structure.

ISO 21001 focuses on the specific interaction between an educational organization, the learner, customers and other relevant interested parties. It specifies requirements for an EOMS when such an organization:

- Needs to demonstrate its ability to consistently provide, share and facilitate the construction of knowledge while conforming with applicable statutory and regulatory requirements
- Aims to enhance the satisfaction of learners, other customers and personnel through the effective application of its EOMS, including processes for improvement of the system.

Candidates who participated in this 5-day training were analyzed through written exam and those who successfully passed exam securing 70% marks were awarded with the Lead Auditor certification. QEC MUST is pleased to share that Dr. Azhar Hussain, Deputy Director QEC, successfully passed the course of ISO 21001:2018 EOMS Lead Auditor. QEC MUST Mirpur AJ&K celebrated it as a big step of MUST towards internationally recognized best practices in higher education systems.



Group photo of ISO 21001:2018 EOMS Lead Auditor Trainees.



Dr. Azhar Hussain, Deputy Director QEC, taking ISO 21001:2018 EOMS Lead Auditor written exam.

SAR Training of the Affiliated Colleges of MUST Mirpur, AJ&K

In recent years it has become an obligation that institutions of higher education demonstrate the effectiveness of their academic programs in providing high quality education that positively impacts students. HEC requires universities to conduct periodic self-assessment for its academic programs in order to improve them and ensure high academic standards.

Self-assessment is an important tool for academic quality assurance and provides feedback for faculty and administration to initiate action plans for improvement. To train affiliated colleges' faculty of MUST Mirpur AJ&K, QEC MUST organized a one-day activity on December 11, 2021. Resource person, Dr. Shahzad Murtaza, from University of Gujrat addressed the audience in two sessions.

Dr. Sahazad elaborated that the Self-assessment is a systematic process of gathering, reviewing, and using important quantitative and qualitative data and information from multiple and diverse sources about educational programs. The sole purpose of this exercise is the improvement of student learning, and to evaluate whether academic and learning standards are being met or not. Registrar MUST, Prof. Dr. Khizar Ul Haq, made the closing remarks on this one-day interactive activity, and appreciated the interest of the audience and also the efforts of QEC to improve the quality standards of MUST.



Guest Speaker, Dr. Shahzad Murtaza, receiving souvenir from Registrar MUST, DSA and Director QEC





Provision of the Higher Education Statistics

One of the major activities of the Statistical Information Unit (SIU) of the HEC is to collect statistical data annually from all the public and private HEIs. The acquired statistical data is then further utilized for planning, policy designing and decision-making purposes. Considering the sensitivity, importance and time constraints, the Vice Chancellor, MUST had assigned this responsibility to QEC. QEC has designed rigorous and enlightened strategy for the data collection to ensure accuracy, transparency and timely submission of the data to HEC. In this regard, a webinar was hosted by HEC on Nov. 04, 2021 where the QEC staff participated with full dedication. In accordance with the guidelines, the relevant data was collected and submitted on 19-04-2022.

Establishment of QEC set up in the affiliated colleges

Quality assurance is an ongoing process, QEC under the guideline of the HEC is committed to ensure its standards from grass root level. To implement the quality assurance mechanisms as per requirement of HEC, such as survey completion student feedback, faculty feedback, institutional assessment and provision of day to day data/information required by QEC office MUST, the QEC has nominated focal persons for each department of MUST main campus, sub-campus and affiliated colleges. These focal persons of QEC are working with zeal and dedication in all the academic departments of MUST and affiliated colleges to make the online teaching effective and productive as per guidelines of HEC. QEC takes the initiative that the programs under purview of any accreditation council in affiliated colleges should be accredited by the relevant bodies.

Submission of Data to Higher Education Data Repository (HEDR)

The MUST is committed to implement e-learning programs in accordance to the provision provided by HEC Covide-19 guidance with pledge of quality assurance. QEC is dedicated to provide all education seekers an equal opportunity to access quality education from tertiary to higher education level through online learning. QEC is focused to develop a standard mechanism of online learning, for providing affordable and flexible e-learning opportunities that may open doors for all learners to broaden their horizon. The QEC is student focused with quality consciousness. This office has very good harmonization with HEC and efficiently providing day to day data/information required by HEC as QEC MUST has successfully submitted data to HEDR well in time for COVID-19 Pandemic round-2.

Participation in statutory bodies meetings of MUST:

- The QEC Director participated in the 23rd meeting of Senate of MUST as a member on April 26, 2022. The Senate was chaired by the honorable Chancellor of the MUST.
- The QEC Director participated in the 17th meeting of Syndicate of MUST on March 31, 2022. The meeting was chaired by the honorable Vice Chancellor of the MUST.
- The QEC Director participated in the 14th meeting of Academic Council of MUST as member on September 30, 2022. The meeting was chaired by the honorable Vice Chancellor of the MUST.



Membership of Association/ Networks

Name of Agency	Location	Membership Status
NQAAHE	Netherland Hague	Active
Tallories Network	USA	Active
Yahoo Pakistan Quality Network in Higher Education	Pakistan	Active
PNQAHE	Pakistan	Active

Accreditation Status of Programs from Relevant Councils

Name of Degree Programs	Faculty Name	Accreditation Council/Body
B.Sc. Electrical Engineering	Faculty of Engineering	Accredited by Pakistan Engineering Council (PEC)
B.Sc. Civil Engineering		Accredited by Pakistan Engineering Council (PEC)
B.Sc. Mechanical Engineering		Accredited by Pakistan Engineering Council (PEC)
B.Sc. Software Engineering		Accredited by Pakistan Engineering Council (PEC)
B.Sc. Computer Systems Engineering		Accredited by Pakistan Engineering Council (PEC)
B.Sc. Electrical Engineering		Accredited by Pakistan Engineering Council (PEC)
Bachelor/ Master of Business Administration	Humanities and Social Sciences	Under Process by National Business Education Accreditation Council (NBEAC)
Law		Under Process by Pakistan Bar Council (PBC) Azad Kashmir Bar Council
Education		Accredited by National Accreditation Council for Teaching Education
Computer Science & Information Technology	Natural & Applied Sciences	Under Process by National Computing Education Accreditation Council (NCEAC)
Human Nutrition and Dietetics	Health & Medical Sciences	Accreditation Body Zero-Visit Scheduled on 23rd April 2023.

List of Activates performed by Quality Enhancement Cell MUST, Mirpur during July 2021 to June 2022

QEC, MUST performed / participated / contributed in various national and international level activities and gave its suggestions where necessary (see Annex A for detail).





Sr.	Activities	Date
1	7th meeting of the University Scholarship Management Committee (SMC) Electrical Conference Hall MUST	August 10, 2021
2	Meeting of Departmental Council for the Department of Electrical Engineering on video conference room MUST	August 21, 2021
3	Meeting of 4th industrial advisory (IAB) for Mechanical Engineering	August 27, 2021
4	Meeting of National Technology Council (NTC) for BSc. Civil & Electrical Engineering Technology and zero visit for BSc Architectural Engineering Technology	September 13-14, 2022
5	Advanced Studies & Research Board (AS&RB) Meeting	September 16, 2021
6	Academic Council MUST, Palandri Campus	September 24, 2021
7	9th Meeting of the F&P Committee	October 2, 2021
8	Meeting with Chairperson Department of Institute of Islamic Studies, regarding CMS Teacher's Evaluation Report	October 6, 2021
9	Meeting with Chairperson Department of Sociology, regarding CMS Teacher's Evaluation Report	October 6, 2021
10	Meeting with Director MBS, regarding CMS Teacher's Evaluation Report	October 6, 2021
11	Meeting with Chairperson Department of Home Economics, regarding CMS Teacher's Evaluation Report	October 6, 2021
12	Meeting with Chairperson Department of Law, regarding CMS Teacher's Evaluation Report	October 6, 2021
13	Meeting with Chairman Department of Civil Engineering, regarding CMS Teacher's Evaluation Report	October 7, 2021
14	Meeting with Chairman Department of Computer Systems Engineering, regarding CMS Teacher's Evaluation Report	October 7, 2021
15	Meeting with Chairman Department of Software Engineering, regarding CMS Teacher's Evaluation Report	October 7, 2021
16	Meeting with Chairman Department of Electrical Engineering, regarding CMS Teacher's Evaluation Report	October 7, 2021
17	Meeting with Chairman Department of Mechanical Engineering, regarding CMS Teacher's Evaluation Report	October 7, 2021
18	Meeting with Director MIT, Electrical Engineering Technology, regarding CMS Teacher's Evaluation Report	October 7, 2021
19	Meeting with Chairman Department of CS&IT, regarding CMS Students' survey evaluation report	October 12, 2021
20	Meeting with Chairman Department of Mathematics, regarding CMS Students' survey evaluation report	October 12, 2021
21	Meeting with Chairman Department of Chemistry, regarding CMS Students' survey evaluation report	October 12, 2021
22	Meeting with the principal AKSON College of Pharmacy, regarding CMS Students' survey evaluation report	October 12, 2021
23	Meeting with Chairman Department of Zoology, regarding CMS Students' survey evaluation report	October 12, 2021
24	Departmental Council Meeting for MS Software Engineering	October 20, 2021
25	Meeting with Dean Faculty of Social Sciences and Humanities (MUST), Mirpur, regarding MS/M.Phil. and PhD Programs review committee	November 17, 2021



26	Meeting of Departmental Council of Electrical Engineering Technology program	November 22, 2022
27	Meeting with Chairman Department of Chemistry, regarding Institutional performance evaluation (IPE) review committee	December 01, 2021
28	Training PT members of affiliated colleges for SAR Preparation	December 11, 2021
29	Meeting with Chairman Department of Law, Director MIT, Focal Person MUST Business School, Focal Person CS&IT, Focal Person Punjab College, Focal Person Superior College, and Principal Govt. College of Education Afzalpur, regarding Accreditation of Academic Programs from respective Accreditation Council	December 13, 2021
30	Meeting with Quality Assurance Agency, HEC, Islamabad, regarding Progress Review Meeting & Training of QECs. Day 1 (Progress Review Meeting & Brief on Target Policy of Progress Report 2021-22)	January 03, 2022
31	Meeting with Quality Assurance Agency, HEC, Islamabad, regarding Progress Review Meeting & Training of QECs. Day 2 (Training on HJRS & Research Publications Verification and Plagiarism Policy & NOC for MS/M.Phil. & Ph.D. Programs)	January 04, 2022
32	Meeting with Quality Assurance Agency, HEC, Islamabad, regarding Progress Review Meeting & Training of QECs. Day 3 (Training on IPE, Compliance Policy and Post Graduate Program Review)	January 05, 2022
33	Departmental Council Meeting for BS English	January 24, 2022
34	Meeting regarding conduct of Classes and other related issues	January 25, 2022
35	Meeting with Elsevier in Collaboration with HEC, regarding Promoting Research Excellence in Academics across Pakistan. (1st day) Research Planning	February 01, 2022
36	Meeting with Elsevier in Collaboration with HEC Pakistan, regarding Promoting Research Excellence in Academics across Pakistan. (2nd day) Research Education	February 02, 2022
37	Two Day Workshop on Promoting Researcher Academics across Pakistan	February 02, 2022
38	Meeting regarding SARs of BSCS, BSIT, MCS Program Department of CS&IT	February 08, 2022
39	Meeting with HEC Officials in Islamabad regarding pending cases of PQR	February 09, 2022
40	Meeting with Institutional Performance Evaluation (IPE) Committee members, regarding review activity	February 09, 2022
41	SAR Review Meeting Department of Mathematics	February 11, 2022
42	Meeting of Focal Person PQR with HEC Officials in HEC Islamabad, regarding pending cases PQR	February 15, 2022
43	Meeting with MS/M.Phil. & PhD Programs review committee, regarding the visit to be conducted by the HEC Team	February 17, 2022
44	Online Meeting to Post Graduate College Mirpur for SAR	February 17, 2022
45	HEC Team Visit to MUST, regarding the MS/M. Phil & PhD programs review (conducted by QEC)	February 22, 2022
46	HEC Team Visit to MUST regarding the MS/M. Phil & PhD programs review (conducted by QEC)	February 23, 2022
47	PNQAHE 3rd International Conference on Quality Assurance in Higher Education Shah Abdul Latif University Khairpur, Sindh, Pakistan	March 08-10, 2022
48	Online Meeting for SAR Department of Economics for BS & M.Phil. Program.	March 25, 2022
49	Online Meeting for International Ranking	April 05, 2022



Total Number of Programs and SARs during 2021-22 (Completed)

Self-Assessment Reports and Rubric Forms from different departments in MUST and Affiliated Colleges given in the table below were submitted to QEC Office followed by the preparation of Executive Summary for each program.

Main Campus		
Sr.	Department	Program
Faculty of Engineering		
1	Computer System Engineering	MSc
2	Civil Engineering	MSc
3	Electrical Engineering	MSc
4		PhD
5	Mechanical Engineering	MSc
6		PhD
7	Software Engineering	MSc
Faculty of Natural & Applied Sciences		
8	Chemistry	BS
9		MSc
10		MPill
11		PhD
12	Computer Science and Information Technology	BSCS
13		BSIT
14		MCS
15		MSCS
16	Botany	MSc
17	Biotechnology	BS
18		PhD
19	Physics	BS
20		MSc
21		PhD
22	Mathematics	BSc
23		MSc
24		MPill
25		PhD
26	Zoology	BS
27		MSc
28		MPill
29		PhD

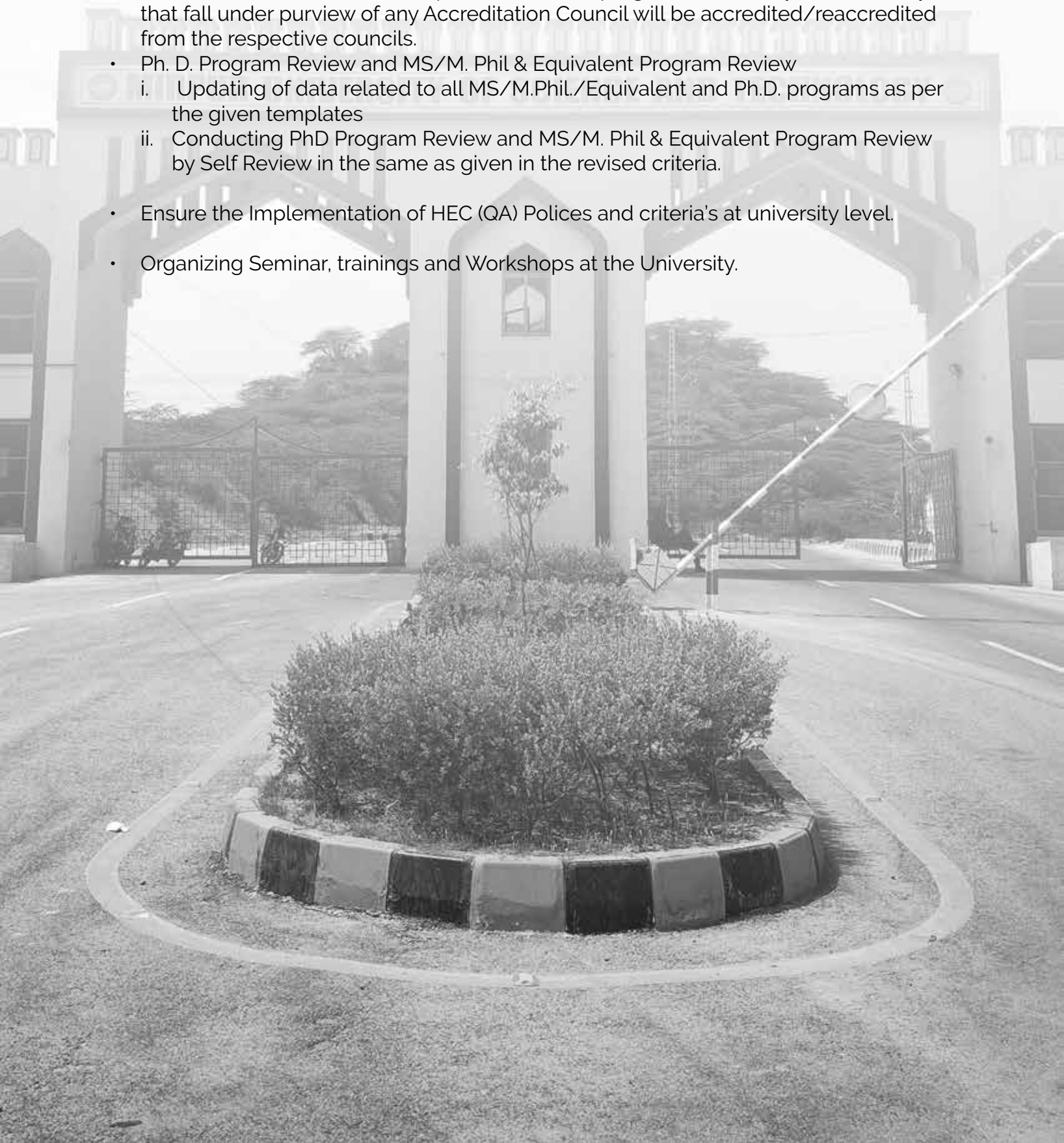


Faculty of Social Sciences and Humanities		
30	English	BS
31	Education	MA
32	Mass Communication	BS
33	Sociology	BS
34	International Relations	BS
35	Islamic Studies	BS
36		MA
37		MPill
38	Home Economics	BS
39	Economics	BS
40		MSc
41		MPill
Faculty of Health and Medical Sciences		
42	Human Nutrition and Dietetics	BS
MUST Business School		
43	Business Administration	BBA
44		MBA
45		MS Management Science
46		BS Human Resource Management
47	Banking and Finance	BBF
48	Commerce	BCom
49		MCom
Pallandri Campus		
50	Education	BS
Affiliated Colleges		
51	PGC Mirpur	BS Botany
52		BS Chemistry
53	Punjab College Bhimber	BS Chemistry
54		BS English
55	Ghazi Elahi Bakhsh Mirpur	BS Economics
56		BS Mathematics
57	Superior College MZD	BS English
58	Kings International College, Mirpur	BS Computer Science



QEC Future Plans

- Progress against Institutional Performance Evaluation: Updating and finalizing the compliance against the findings of the IPE FY2021-22 (as given in the revised criteria and updated targets).
- Conduction of IPE by the HEC for the FY2022-23 (as given in the revised criteria).
- Progress against Program Self-Assessment; Compilation and completion of SARs.
- Accreditation/Reaccreditation process/visit: All programs offered by the university that fall under purview of any Accreditation Council will be accredited/reaccredited from the respective councils.
- Ph. D. Program Review and MS/M. Phil & Equivalent Program Review
 - i. Updating of data related to all MS/M.Phil./Equivalent and Ph.D. programs as per the given templates
 - ii. Conducting PhD Program Review and MS/M. Phil & Equivalent Program Review by Self Review in the same as given in the revised criteria.
- Ensure the Implementation of HEC (QA) Policies and criteria's at university level.
- Organizing Seminar, trainings and Workshops at the University.





STUDENTS ASSISTANCE CENTRE

Award of Rs. 4.00 million additional grant for Capacity Building of Students, Staff and Faculty under Students Facilitation Centre aimed Entrepreneurships

STUDENTS FACILITATION CENTRE (SFC)

Establishment of SAC (Previously Kamyab Jawan Markaz) at MUST

The Higher Education Commission under initiative of the Prime Minister of Pakistan (previously Kamyab Jawan) has planned to establishment of Students Facilitation Center-(SFC) (previously known as Kamyab Jawan Markaz) in the leading public sector universities. In this context, Dr. Mohsin Zafar, Associate Professor Environmental Sciences was assigned the task of Focal Person, Kamyab Jawan Markaz for MUST. Briefly, after months of correspondence with the HEC officials, MUST was awarded with an amount of Rs. 4.747 million for establishment of SFC at MUST. The SFC shall be a student facilitation center where student-related services will be offered.

The SFC will be a single office having distinct wings dealing with each of the following services:

- Education (life skills-based education, scholarships, capacity building, career counselling, academic advisement)
- Employment (entrepreneurships, business incubation centers, internships)
- Engagement (practical learning labs: clubs, societies, associations, sports; youth helpline, youth card)

So for, the space for establishment of SFC has been allocated in the department of Electrical Engineering at city campus MUST. Similarly, renovation work has been completed and installation of workstations is in process. The supply orders for IT equipment and furniture has been placed and inauguration of operational SFC is expected during the month of August 2022.

Award of Rs. 4.00 million additional grant for capacity building of students, staff and faculty under SFC aimed entrepreneurships (previously Kamyab Jawan Markaz) at MUST

In continuation of the aforementioned (SFC), MUST was awarded with an additional amount of Rs. 4.00 million for the conduct of seminars/workshops/trainings/orientations sessions for entrepreneurships involving the academia-industry linkages for the students, staff and faculty of the MUST. Keeping in view the border scope of the grant, Deans of all faculty were communicated to nominate 02 departments to hold the potential workshops/seminars. So for, following events with details has been conducted successfully.

Table. The list of events (Seminars/workshops/Trainings) conducted

Sr.	Date	Title	Faculty/ Department	Resource Person
01	02-06-2022	Capacity Building Seminars and awareness Session on "AMAZON" Jointly organized by MCCI and KJM-MUST	Capacity Building (E-commerce/ Industry, S.E, CS&IT)	Miss Roshaan Malik, Sialkot



02	06-06-2022	Stakeholders capacity building seminar on "ROLE OF LIVESTOCK AND POULTRY IN ECONOMIC DEVELOPMENT AND POVERTY REDUCTION"	Veterinary Campus -Bhimber	Dr. Jibran Hussain UVAS-Lahore
03	06-07, June 2022	Two days Symposium on "FUTURE OF ENTREPRENEURSHIPS IN BIOLOGICAL SCIENCES"	Department of Biotechnology and Zoology	Prof. Dr. Abdul Rehman Punjab University Lahore
04	08-06-2022	One-day Exposure Session on "CAREER PERSPECTIVES FOR INTERNATIONAL STUDENTS IN RELATION TO GLOBAL JOB MARKET"	SAC Office + CSE+ I.S	Muhammad Shoaib Hashmi, Carrers UK
05	09-06-2022	One-day Mentoring Workshop on "THE KNOWLEDGE MANAGEMENT AND SMES ROAD TO ECONOMIC EMPOWERMENT"	Faculty of MUST Business School	Prof. Dr. Mushataq Ahmed Sajid, Ex VC and Dean, University of Kotli
06	13-06-2022	One-day capacity Building Seminar "EFFECTIVE STRESS MANAGEMENT IN ENTREPRENEURSHIPS FOR BUSINESS GRADUATES"	Faculty of MUST Business School	Dr. M. Majid Mahmood Bagram, Allama Iqbal Open University Islamabad Campus
07	15-06-2022	One-day Capacity Building Workshop on "QUALITY OF EDUCATIONAL ORGANIZATION MANAGEMENT SYSTEMS AND SCOPE OF DIVERSE PROGRAMS OFFERED AT MUST"	Quality Enhancement Cell	Dr. Maria Yunus, DHQ-Mirpur AJK
08	30-06-2022	One-day Awareness Session on "BLOCK-CHAIN"	Department of Computer Science and Technology	Dr. Abdullah Yousafzai, UMT Lahore

Kamyab Jawan Markaz-MUST

Sr.	Budget Head	Amount (million)
01	Establishment of Kamyab jawan Markaz	4.747
02	Capacity building of students, staff and faculty	4.00
Total		8.747

Summary of Expenditures FY-2021-22

Sr.	Name of Scholarship (Rs. Million)	Expenditures in 2021-22
1	HEC-Need Based Scholarship	30.382
2	MUST-Need Based	0.900
3	Ehsaas Undergraduate Scholarship	57.430
4	MUST Merit-Based	4.450
5	Student's Guardian Insurance Scheme	2.350
6	HBL Foundation	1.129
7	Punjab Educational Endowment Fund (PEEF)	8.876

8	Pak-Scottish Scholarship	1.102
9	Laraib Energy Ltd.	0.490
10	Institute of Engineers Pakistan Saudi Arabian Centre (IEP-SAC)	0.200
11	Haji M. Bashir Scholarship	0.050
Grand Total		07.359

10th Award of HEC-Need Based Scholarship to Undergraduate Students (intake-2020)

Applications were invited from undergraduate students admitted in fall 2020 for the award of scholarship for the academic session 2020-24/25 through an advertisement during November 2020. Around 288-applications were received for the purpose. Due to Covid-19 pandemic, the timely selection of the students could not be made. However, after continues observing the situation, the relevant authorities of HEC have allowed to select the deserving students on the basis of provided information and proofs. For this purpose, initially scrutiny and evaluation was made by SAC and relevant program coordinator of HEC. The 14th meeting of the "Institutional Scholarship Award Committee" (ISAC) was held on 05-10-2021. Going through into the details of each student, the committee recommended 50 (+ 10 waiting) students for the grant of HEC-Need Based Scholarship. The scholarship covers waiver of tuition fee and grant of an amount of Rs. 6000/- per month to the concerned awardees.

The HEC-Need Based Scholarship was announced for the year 2021 and the award proceedings is under process. The meeting of "Institutional Scholarship Award Committee" (ISAC) is going to be held in the month of August 2022.

An amount of 30.382 million is being disbursed to the previous awardees of HEC Need Based Scholarship awardees.



7th Award of MUST-Need Based Scholarship to Undergraduate Students (Intake-2020)

The students who applied for HEC Need Based Scholarships and could not get selected due to limited number of seats under the scheme have been considered for award of MUST Need Based Scholarships. Hence, the "Institutional Scholarship Award Committee" (ISAC) has also recommended 50 (+05 waiting) students for award of MUST Need Based Scholarships from the waiting list of HEC Need Based Scholarships. The component of the scholarship is grant of an amount of Rs. 9,000/- (Nine Thousand Only) per semester (18,000/- for the year) to the concerned awardees.

Ehsaas Undergraduate Scholarship Program

The HEC has advertisement Ehsaas Undergraduate Scholarship Program for new intake of year 2021. The last date for submission of online application at HEC portal was 31.12.2021. From fresh students of MUST, a total 1076-students have applied for this scheme. The initial scrutiny of applications was made at SAC office level. The meeting of the award committee was held on April 06 to 08, 2022 for selection of the most deserving students. This scholarship scheme covers waiver of tuition fee and an amount of Rs. 40,000/- (Forty thousand) stipend per annum.

An amount of 57.430 million is being disbursed to the previous awardees of Phase-I and II on account of Stipend and Tuition Fee of 2-semesters.



Award of MUST-Merit Based Scholarship

Top 5% students of each semester / class is being awarded this scholarship @ Rs. 6000/- per semester. An amount of Rs. 4,445,500/- has been awarded to the 748 University students in the FY-2021-22. The funds of this scholarship were managed by the University.

MUST Students' Guardian Insurance

MUST Students' Guardian Insurance scholarship has been awarded to those students whose father/guardian dies during the university studies. The component of scholarship is waiver of tuition fee and payment of an amount of Rs. 5000/- per month as stipend. During this period 12 new cases have been approved and granted this scholarship. An amount of 2.350 Million has been disbursed to the 30 previous awardees on account of this scholarship.

5th Award of HBL Foundation Scholarship Scheme

The meeting of the "HBL-Foundation Scholarship Management Committee" (HBL-FSMC) was held on 10th August, 2021 for 6th award of the Habib Bank Ltd. Foundation Scholarship. The committee selected the deserving students on the basis of available information and documentary proofs. However, where required students were telephonically contacted for ensuring the fairness. After detailed deliberation, the committee recommended 49-students for disbursement of an amount of Rs. 1.129 (Million) for the year 2020. Further, it was desired that the principal amount pledged by HBL-Foundation for this scholarship scheme should be increased. In this regard, a letter has been forwarded by the worthy Vice Chancellor MUST to president HBL for increasing the principal amount from Rs. 20.00(M) to Rs. 50.00(M). The distribution of scholarship was made on the rate of applications received as detailed below:

Faculty	Percentage of applicants	Share in available resources (Rs.)	No. of scholarships	Scholarship @ Rs. Per year
Engineering and Technology	$56 \div 216 \times 100 = 26\%$	293,540	09	32,000/-
Natural and Applied Science	$115 \div 216 \times 100 = 53\%$	598,370	25	24,000/-
Social Sciences and Humanities	$43 \div 216 \times 100 = 20\%$	225,800	14	16,000/-
Health and Sciences	$2 \div 216 \times 100 = 1\%$	11,290	1	16,000/-
Total		,129,000	49	



Punjab Educational Endowment Fund

65-Master level scholarship were offered by the Punjab Educational Endowment Fund for the students of MUST. In this regard an advertisement was placed inviting the applications from the students fulfilling the required criteria. 65-students were selected for the award of this scholarship. An amount of 9,048,825/- was distributed to the awardees in the month of April, 2022.



Laraib Energy Scholarship

The HUBCO Laraib Energy Ltd. has pledged to grant an amount of Rs. 50,000/- (Fifty thousand only) for 3rd award under this scholarship scheme. An advertisement was placed for award of "Laraib Energy Scholarship" for the low income students of Faculty of Engineering and Technology. The last date for submission of application under this scholarship scheme was 15-03-2022. The meeting of Scholarship Management Committee was held on 11-04-2022 for award of this scholarship. 50% quota was reserved for the female students of the faculty. The total application received for this scholarship scheme are 67. The awardees notification is going to be issued in the last week of July 2022.





Institute of Engineers Pakistan Saudi Arabian Centre (IEP-SAC)

The 3rd award of Institute of Engineers Pakistan Saudi Arabian Centre" (IEP-Sac) for the year 2020 was granted to 08-students. An advertisement was placed for award of "Institute of Engineers Pakistan Saudi Arabian Centre" (IEP-Sac) for the low income students of Faculty of Engineering and Technology. 30-applications were received in response of this advertisement. After initial scrutiny and evaluation of forms, 08-students were shortlisted. IEP-SAC authorities have approved and released an amount of Rs. 200,000/-.

2nd Award of Haji Muhammad Bashir Scholarship

Haji Muhammad Bashir, a private donor settled in UK has graciously provided an amount of Rs. 50,000/- (Rupees Fifty Thousand) to be disbursement among the deserving self-finance students of MUST. The HBL Scholarship Management Committee was given mandate to select the deserving self-financed category students for this scheme as well. The committee after going through into the details of the students applied, selected total three students (01 from each faculty) for award of an amount of Rs. 16,500/- for the year 2020, under this particular scheme. The committee further appreciated the contribution of local community and diaspora for their support in promoting higher education in the state. It was further committed that active participation of civil society will be sorted for financial support of the low income students.

Usage of Social Media for Scholarship Information

In todays, world most effective way to share information among stakeholders is considered to be social media. Realizing the need to timely disburse the accurate information pertaining to scholarships to the students of the University, SAC has established following ways (including establishment of its own website) for communicating all such information;

1. www.must.edu.pk
2. www.sac.must.edu.pk
3. Fb: MUST-Students Assistance Center
4. Whatsapp: Scholarship Activities (For HoDs/ Focal Persons)



ADVANCED STUDIES AND RESEARCH BOARD (AS&RB)

The Advanced Studies & Research Board considers the policies for admission for higher studies, approval of Synopsis and Research Titles for M.Phil/ MS and Ph.D studies.

Advanced Studies and Research Board (AS&RB)

The AS&RB considers the policies for admission for higher studies, approval of synopsis and research titles for M.Phil/ MS and Ph.D studies. Besides implementation of HEC rules and adoption of new PhD policy, the board also examine the cases of semester extension and freezing. AS&RB plays an important role to enhance quality of education and to promote research culture in the university which will ultimately uplift the ranking of the university. The board is headed by Dr. Muhammad Ishtiaq and DR. Shahid Aziz serve as Deputy Director AS&RB.

13th meeting of AS&RB

Brig. (R) Prof. Dr. Muhammad Younus Javed SI (M), Vice Chancellor MUST, Mirpur / Chairman AS&RB meeting, chaired 13th Meeting of Advance Studies & Research Board (AS&RB), held on Wednesday, 9th March 2022 in the electrical conference hall, city campus, MUST. Dr. Muhammad Ishtiq, Director AS&RB and Dr Shahid Aziz, Deputy Director AS&RB received Worthy Vice Chancellor on 13th Meeting of AS&RB. The Vice Chancellor, assured that necessary funds will be provided to the faculty for research purposes. Prof. Dr. Khazir Ul Haq, Registrar MUST, Prof. Dr. Anwar Khitab Dean Faculty of Health and Medical Sciences, Prof. Dr. Hassan Mujtaba Jafri, Dean Faculty of Engineering and Technology, Prof. Dr. Tahseen Ghous, Dean Faculty of Social Sciences and Humanities, Prof Dr Muhammad Aziz Chaudhary, Dean Faculty of Natural and Applied Sciences, Dr Sadat Hanif Dar, Dean Faculty of Veterinary and Animal Sciences, Dr. Muhammad khalique, Treasurer, Dr. Rashida Hussain, Chairpersons department of Mathematics and Dr. Naeem Ahmed Ratyal, Chairperson department of Electrical Engineering participated as members of AS&RB meeting. Mr. Kamran Hameed, Controller of Examinations was observer of the AS&RB meeting.





DIRECTORATE OF PLANNING & DEVELOPMENT

The role of Directorate of Planning & Development is to assess the current and future needs for University administrative and academic infrastructure and prepare plans accordingly.



Directorate of Planning & Development

Introduction

The role of Directorate of Planning & Development is to assess the current and future needs for University administrative and academic infrastructure and prepare plans accordingly. The Directorate of Planning & Development of Mirpur University of Science and Technology (MUST), Mirpur works under supervision, guidance and leadership of the Vice Chancellor, MUST and the University's statutory bodies. The Directorate of Planning & Development is headed by the Director (P&D); who is supported by Deputy Director and other staff.

Facilities

Preparation of sound projects in areas and fields lacking adequate facilities.

- Coordinating and organizing research and development surveys for decision making.
- Assisting in defining the university's vision, and undertaking strategic planning.
- Coordinate in assessing the material, capital and human resources of the university and formulating proposals of augmenting such resources.
- Facilitating capacity building of departments of MUST involved in development.
- Any other duties assigned by the Vice Chancellor.

Plans

To provide State of Art technical and construction work for University and provide best facilities for academic, research and innovations.

Ongoing Schemes

1. Project titled "Up-gradation of University College of Engineering & Technology Mirpur into Mirpur University of Science & Technology (MUST), Mirpur" costing Rs. 1890.024 million.
2. Project titled "Establishment of Library & Students Service Center Mirpur University of Science & Technology (MUST), Mirpur" costing Rs. 158.276 million including Rs. 22.179 million University share.

New Schemes

1. The PC-1 "Construction of Girls Hostel Building for Mirpur University of Science and Technology (MUST), Mirpur" costing Rs. 159.660 million has been prepared and forwarded to the HEC for further process.
2. Project entitled "Development of Advance Geotechnical Engineering Laboratory at new Campus, Mirpur University of Science and Technology (MUST) Mirpur, AJ&K" amounting Rs. 99.908 million has been forwarded to the HEC for further process.
3. The scheme "Establishment of MUST, Campus at Bhimber, AJ&K" costing Rs. 2673.482 million has been forwarded to the Higher Education Commission (HEC) for further processing.



4. Establishment of MUST Campus at Pallandri AJ&K

The Honorable President of Azad Jammu & Kashmir/ Chancellor of the Mirpur University of Science & Technology (MUST) has directed this University to open its Campus at Pallandri AJ&K. The University has established its Campus at Pallandri, AJ&K to implement the direction of the Honorable President. At present the Campus has been established in the buildings of the Khan Ahmad Khan Post Graduate College Pallandri for Boys. Now initially BS program in the Tourism & Hospitality, Forestry and Education has been started. Later, the campus will be established of the site allocated by the GOAJ&K. The AJK Government has also notified for the establishment of new campus at Pallandri. For this purpose, GOAJ&K has allocated/ transferred 523 Kanal and 09 Marla land for the establishment of the MUST campus. The following departments will also be introduced in the MUST Campus Pallandri in the existing buildings of the Khan Ahmed Khan Post Graduate College Pallandri for Boys transferred by GOAJ&K.

1. Department of Tourism & Hospitality.
2. Department of Forestry & Natural Resources.
3. Department of Education.
4. Department of Physics.
5. Department of International Relations.

For this purpose, the estimates for the repair/ renovation of existing buildings have been approved and the classes have been started during session 2018. The PC-1 titled "Establishment of MUST Campus at Pallandri, AJ&K" costing Rs. 1936.793 million has been submitted to the HEC for further process. The Departmental Development Working Party (DDWP) in its meeting held on 16-04-2020 approved the Project in principle subject to the rationalization of cost. Accordingly the amended PC-1 with rationalized cost of Rs. 1827.315 million has been forwarded to the Higher Education Commission (HEC) for further process. Under this project the following facilities will be established in the MUST, Campus Pallandri.

- i. Construction of the academic/administrative facilities 80852 Sq.ft. This will include 16 classrooms for 800 students for undergraduate programs, 08 classrooms for 160 students of M.S program, 05 lecture theaters for 500 students, 14 Teaching labs, 02 Computer labs each for 100 students, 02 Seminar Rooms and 03 Committee Rooms for each department and Faculty offices and Administrative staff offices.
- ii. Construction of common facilities for students with total covered area of 12150 Sq.ft. This include main library 5000 Sq.ft., medical center, students service center.
- iii. Cafeteria for 400 students & faculty members 13041 Sq.ft
- iv. Mosque for 400 Namazies 6734 Sq.ft
- v. Construction of 240 students hostels with a capacity of 120 students each and covered area 50112 Sq.ft.
- vi. Faculty Hostel for 40 faculty 15725 Sq.ft
- vii. External development Roads, Electricity, Water supply and Land development etc



- viii. A boundary wall across the land of the proposed site of the campus.
- ix. Provision of lab equipment, chemicals and consumables, Furniture and fixture, etc.
- x. Provision of 09 project executing staff for the implementation of the project for a period of 03 years.
- xi. 06 Nos. vehicles for students and staff.
- xii. Salary for 21 faculty members and 33 Nos. of administrative staff during the implementation of the project.
- Project Concept Note regarding "Up-gradation of University College of Engineering & Technology Mirpur into Mirpur University of Science & Technology, Mirpur (Phase-II)" The Higher Education Commission has planned to prepare and consolidate a budget proposal for financial year 2020-21 in line with the Government priorities and vision 2025 to develop the higher education sector. In this regard a proposal/ concept note of new development scheme of the Mirpur University of Science & Technology has been demanded by the Higher Education Commission. Accordingly, a Project Concept has forwarded to the HEC wherein extension of existing of Administration Block, Academic Block -111, one student Hostel, Student Service Center, One Advance Research centre, one Bachelor Faculty Hostel and a University Guest House have been proposed, at Jarikass for Phase-II of the Project "Up-gradation of University College of Engineering & Technology Mirpur into Mirpur University of Science & Technology, Mirpur". The total covered area of the proposed infrastructure will be 210,318 sq.ft.

The concept paper for phase-II was presented to Ministry of Planning and Development and special initiatives for consideration of Establishment of New Campus at Jari Kas of Mirpur University of Science & Technology MUST, Mirpur AJK.

Targets Achieved

- Establishment of Library and Students Service Center, Mirpur University of Science & Technology (MUST), Mirpur
 - ◊ PC IV is being prepared for submission to HEC.
- Up-gradation of University College of Engineering and Technology into Mirpur University of Science & Technology (MUST)
 - ◊ The Building has been completed and handed over to the university. Presently Civil Engineering and MIT have been shifted to this building.
 - ◊ Progress was very slow during last year due to non-payment to contractor and expenditure crossed the PC-I allocation.
 - ◊ Road Works: 100 % completed Water Tank: 100 % progress Culverts & Retaining Walls: 70 Pipe Network 100 %.
 - ◊ Services of Consultant Continue / Outstanding Liabilities are already in excess of PC-1 Provision
 - ◊ AC-2: First Floor slab: Concrete has been poured at two joints (70%) of the total area).



- ◇ Hostels: Completed and handed over to the Directorate of Estate.
- ◇ The progress of the Contactor has been reached to the Work Order Amount, No further payment can be made till releases from HEC.
- ◇ Residences: Work will be resumed after the payment to contractor.
- ◇ Library & PDC: Have been completed.
- ◇ Hostels: Both the hostels have been completed.



HUMAN RESOURCE DEVELOPMENT

Human capital development and its management are very crucial to the universities to gain the competitive advantage in context of their national needs. The Human Resource Development (HRD) program of the MUST is providing funds and alternative resources tapped through institutional arrangements developed with different universities and organizations providing scholarships such as the HEC, Fulbright Scholarship Program,

Human Resource Development (HRD)

Faculty Development

Investing in human resources, specifically the faculty and staff has been flagship initiative of the MUST. From inception the MUST have generously investing in the human resource development by awarding scholarships to its faculty and staff members.

Human Resource Development Overview

Human capital development and its management are very crucial to the universities to gain the competitive advantage in context of their national needs. The Human Resource Development (HRD) program of the MUST is providing funds and alternative resources tapped through institutional arrangements developed with different universities and organizations providing scholarships such as the HEC, Fulbright Scholarship Program, Commonwealth Scholarships, merit award offered by the foreign universities.

MUST has invested in HRD through awarding MS and PhD level scholarships to its meritorious faculty/ staff. The detail and progress of each of the projects regarding the HRD component is given below:

Name of Project	PC-I Provision	Return Scholars	Remarks
Up-Gradation of University College of Engineering & Technology into Mirpur University of Science & Technology (MUST), Mirpur	1. 20 Slots for Ph.D (Full Foreign) 2. 10 Slots for Ph.D (Local + Foreign) 3. 20 Slots for MS Full Foreign	1. 11 scholars have completed study under this project and joined the MUST. 2. 2 Scholars have completed study and joined MUST. 3. 13 Scholar have completed study and joined MUST.	Against 50 slots, 34 scholars are on board. Out of which 26 have completed their study and serving in the MUST, while 4 scholars are studying in different universities of the world.

Scholars Pursuing Higher Studies

The University understands that as the quality of academic programs is becoming competitive, there is more compelling need for the faculty and management staff to improve their academic qualifications and enhance their skill sets. Therefore university has provided ample opportunities to its faculty members for higher studies in the national and international HEIs. The details of these scholars are as following:

Ph. D (Full) Foreign

1	Sehrish Shafi	United Kingdom	University of York UK	Completed
2	Zeshan Shamim	United Kingdom	University of Birmingham UK	Completed
3	Haroona Quarban	China	Zhejieng University China	Completed
4	Kalim ul Haq Tariq	China	Huazhong University China	Completed
5	Muhammad Umair Javaid Ilam Sindu	Canada	Memorial University Canada	Absconder
6	Iftekhhar Ahmed	Malaysia	University of Malaya, Malaysia	Completed



7	Zafar Ali Khan	United Kingdom	University of Birmingham UK	Completed
8	Imtiaz Ahmed	United Kingdom	University of Nottingham, UK	Completed
9	Omer Sher	Sweden	Upsalla University Sweden	Completed
10	Imran Aziz	Sweden	Upsalla University Sweden	Completed
11	Syed Bilal Haider Naqvi	Finland	Lappeenranta University, Finland	Completed
12	Tahir Abbas	Netherland	Eindhoven University of Technology, Netherland	On board
13	Mamoona Akbar	Finland	Tampere University of Technology, Finland	Absconder
14	Muhammad Asad	United Kingdom	University of Hull, UK	On board
15	Mustajab Ali	Japan	University of Tokyo	Completed
16	Jabbar Aziz Baig	Canada	Memorial University Canada	On board

Ph.D Split Program

1	Muhammad Rahman	Norway	Norwegian Uni Norway	Completed
2	Muhammad Abuzar	Canada	Memorial University Canada	Absconder
3	Muhammad Anser Bashir	Italy	University of Roma Tre, Italy	Completed
4	Israr-ul-Haq	Pakistan	UET, Texila	On board

M.S Full Foreign

1	M Umer Arif Khan	USA	University of Maryland USA	Completed
2	Mehreen Shakoor	United Kingdom	Coventry Uni UK	Completed
3	Nabila Kramat Jarral	United Kingdom	Coventry Uni UK	Completed
4	Sohaib Manzoor	United Kingdom	Coventry Uni UK	Completed
5	Taufeeq-ur-Rehman	China	Huazhong University China	Absconder
6	Adnan Ashraf	USA	Texas A&M University, USA	Defaulter
7	Hafeez Ahmed	Denmark	Aarhus University Denmark	Completed
8	Abdul Majeed	Canada	University of Alberta, Canada	Defaulter
9	Adil Amin	Malaysia	University of Malaya	Completed
10	Muhammad Usman	Malaysia	University of Malaya	Completed
11	Zeeshan Munir	Canada	Concordia University, Canada	Completed
12	Muhammad Sajid Khan	Turkey	Eastern Mediterranean University Turkey	Completed
13	Inaam Ahmed	Canada	School of Graduates Study, Memorial University, Canada	Defaulter
14	Haris Riaz	United Kingdom	University of Sheffield	Completed
15	Iram Zahra	United Kingdom	DE MONTFORT University, Leicester, UK	Completed
16	Bilal Munir	Malaysia	University Technology Malaysia	Completed



SPORTS ACTIVITIES

Higher Education Commission (HEC) under Prime Minister's Youth Programme organised Weightlifting Talent Hunt Championship 2022 in COMSATS and Wrestling organize by AIR University Islamabad at NUML Islamabad

Sports activities

(June 2021 to June 2022)

1. Inter Collegiate Championship

The Directorate of Sports organized the Inter Collegiate (Girls/Boys) Athletics Championship 2021-22 on the 10th to 11th November, 2021 at the MUST Mirpur AJ&K. Students from different affiliated colleges along with MUST students participated in the said events.

The Vice Chancellor MUST was the Chief Guest of the events.

The result of the Inter Collegiate Championship 2021-22 are as under:

1.1 Boys Inter Collegiate Athletics Championship

Events								
100M	200M	400M	800M Race	1500M Race	Shot Put Throw	Javelin Throw	Discus Throw	Long jump.
Winner	Govt. College of Education Afzalpur							
Runner Up	MUST Mirpur							
Best Athlete: Hamza Bashir (Govt. College of Education Afzalpur)								

1.2 Girls Inter Collegiate Athletics Championship

Events							
100M	200M	400M	800M Race	Shot Put Throw	Javelin Throw	Discus Throw	Long jump.
Winner	GPGC Mirpur AJK						
Runner Up	Govt. College of Education Afzalpur						
Best Athlete: Saba Fatima (GPGC Mirpur AJK)							

1.3 Girls Inter Collegiate Tug of War Championship

Winner	Govt. College of Education Afzalpur
Runner Up	Kings International College





2. HEC Intervarsity Sports Competitions

The Directorate of Sports has provided the maximum facilities to the players to participate in HEC Intervarsity sports.

In All Pakistan Intervarsity (Kamyab Jawan) competitions, the following teams (Girls/Boys) of MUST participated in the intervarsity competitions.

Boys

Sr.	Events	Date	Venue	Achievement/Participation
1	Athletics	5th to 9th December, 2021	COMSATS University Islamabad	Participation
2	Boxing	5th to 9th December, 2021	Benazir Bhutto Shaheed Uni, Layari	Participation
3	Volleyball	19th to 20th October, 2021	The University of Lahore	Participation

Girls

Sr.	Events	Date	Venue	Achievement/Participation
1	Athletics	5th to 9th December, 2021	The University of Sargodha	Participation
2	Volleyball	5th to 9th December, 2021	Govt College Women Uni Faisalabad	Participation



Group Photo: MUST Mirpur AJK participation Girls and Boys teams with Vice Chancellor Prof. Dr. Muhammad Younis Javed (S.I)

Prime Minister's Youth Sports League Championship 2022 Trails (Weightlifting and Wrestling)

Prime Minister's Youth Sports League Championship 2022 (Trails) HEC honour to MUST, Mirpur AJ&K for the conduct a trails of weightlifting and wrestling teams under the supervision of COMSATS university and AIR university, Islamabad. A 15-member team has been selected in collaboration with the sports staff of MUST.

On this occasion, Director Sports COMSATS University, Islamabad, presented the shield to the special guest Dr. Mohsin Zafar Director SAC, Chief Library Raja Yasin, and Director State Shaukat Hayat. Director sports Abid Hussain, Director physical education waqar saleem, and physical trainer instructor Rashid Mahmood were also presented on the occasion

On this occasion, Mushtaq Ahmed, Director Sports, Organizer University Comsat, thanked the department of sports and all the management for their excellent cooperation.



Prime Minister's Youth Sports League Championship 2022 (Weightlifting and Wrestling)

Mirpur University fetched Runner-Up Position in HEC Weightlifting Championship and also participate in Men's Wrestling Championship Talent Hunt Championship 2022

HEC under Prime Minister's Youth Programme organised Weightlifting Talent Hunt Championship 2022 in COMSATS and Wrestling organize by AIR University Islamabad at NUML Islamabad from 04 - 10 June 2022.

Vice Chancellor Prof. Dr. Shamsul Qamar COMSATS University Islamabad was Chief Guest of the closing day ceremony, Treasurer COMSATS, Controller of Examinations COMSATS, Officials of the University & Directors of Sports of participating Universities were part of the event.

Registrar AIR CDRE® ABDUL WAHAB MOTLA AIR University was Chief Guest of the closing day ceremony of Wrestling Championship, DSA AIR University, and Officials of the University & Directors of Sports of participating Universities were part of the event.

Mr. Abid Hussain, Director Sports Mirpur University / Weightlifting Team Manager received Team Manager Shield from Vice Chancellor COMSATS Islamabad.

Mr. Waqar Saleem Director Physical Education Mirpur University / Wrestling Team Manager received Team Manager Shield from Registrar AIR CDRE® ABDUL WAHAB MOTLA AIR University Islamabad.

Director Sports on the behalf of Vice Chancellor Mirpur University of Science and Technology thanked Higher Education Commission's representatives, Vice Chancellor COMSATS & organising body for providing equal opportunities to MUST students in Federal League.





On Eve of Ms. Parveen Retirement



HEC All Pakistan Chess (Male) Intervarsity Championship 2022

Mirpur University successfully conducted HEC-All Pakistan Chess (Male) Intervarsity Championship 2022

The Higher Education Commission (HEC) All Pakistan Chess (Male) Intervarsity Championship 2022 was hosted by Mirpur University of Science and Technology (MUST), Mirpur on Wednesday, May 25th 2022 in City Campus at 14:00 hrs.

Tournament was organized by Mirpur University in which eighteen Universities from all over the Pakistan participated.

Prof. Dr. Muhammad Aziz Chaudhary, Dean's faculty Natural and Applied Sciences attended prize distribution ceremony as Chief Guest & handed over Shields and Prizes among winning teams. Director Student's Assistant Centre (SAC), Director Student's Affairs (DSA) & Director Works participated in the event.

The University of Lahore declared overall winner of the tournament, University of Punjab, secured 2nd position, COMSATS, Islamabad stood 3rd whereas NUMAL University Islamabad fetch 4th position in the championship.

Mr. Abid Hussain, Director Sports MUST congratulated the position holders and thanked all the participants and officials of the teams.



AJK University Championship 2021

Sr.	Events	Date	Venue	Winner	Runner Up
1	Cricket (Girls)	26/27 October, 2021	MUST Mirpur AJK	MUST Mirpur AJK	The University of Poonch, Rawalakot
2	Badminton (Boys)	26/27 October, 2021	MUST Mirpur AJK	MUST Mirpur AJK	The University of Azad Jammu & Kashmir, Muzaffarabad
3	Girls (Hiking)	29/30 September, 2021	Women University of Bagh AJK	4th Position	

All Azad Jammu and Kashmir Participated Universities







NETWORK AND TELECOMMUNICATION CENTRE (NTC)

To provide the best, innovative, reliable and integrated IT solutions/support. We are committed to support/meet user requirements at MUST, Mirpur by delivering ethical, reliable, and high-quality solutions of strategic value.



A few words about the department

Realizing the importance of advancement in the technology, NTC (Network and Telecommunication Centre) as a separate department, was established in June 2010. The establishment of NTC department is aimed at enhancing the facility of network and telecommunication for the University. NTC at MUST Mirpur, is a team of highly dedicated and professional members, responsible for providing IT, computing, corporate trainings and consultancy services not only to the MUST campus but also to public and private organizations.

Mission

To provide the best, innovative, reliable and integrated IT solutions/support. We are committed to support/meet user requirements at MUST, Mirpur by delivering ethical, reliable, and high-quality solutions of strategic value.

IT infrastructure & surveillance in new campus (Jarikass)

Installation of Network & IT Equipment in the New Campus MUST. Establishment of Point to Point Connection through dark fiber from the City Campus to the New Campus (Jharikas). Also, acquired 100 Mbps bandwidth separately from Wateen Telecom Limited for the New Campus.

Establishment of Huawei ICT academy

Award of Huawei ICT academy in MUST Mirpur AJ&K. The Huawei ICT Academy Programme is a global initiative aimed at promotion of ICT technology skills. It features industry-academia linkages through training and certification. This initiative will help build the ICT talent ecosystem in the state of Azad Jammu

& Kashmir with latest Huawei ICT Certifications, access to Huawei E-learning resources for the students.

Pakistan Educational Research Network (PERN) bandwidth enhancement

PERN - Pakistan Education and Research Network is a national research and education network of Pakistan which connects educational and research institutions of the country. PERN focuses on collaborative research, knowledge sharing, resource sharing, and distance learning by connecting people through the use of intranet and internet resources. MUST was connected to the PERN network with a bandwidth capacity 240 Mbps. However, keeping in view the demand of its users and to enhance the end user's experience the bandwidth capacity has been increased to 300Mbps in 2020

Video conference room renovated and equipment upgraded

Video Conferencing is an interactive mode of communication with both video and voice relayed in real time, which enables the virtual presence of people so that interaction can take place as if they are present in person. Each user needs video conferencing equipment (video capturing and transmitting device, microphone, and broadband connection) for participation in video conferencing. Users see and hear each other in real-time, allowing interactive conversation which is normally not possible with voice-only communication. MUST has video conferencing hall with a capacity of 40 participants at a time for any video conference event. This facility has been used for many events held in the year 2019



Digital Library access

The MUST Digital Library facility provides researchers the access to international scholarly literature based on electronic (online) delivery, providing access to high quality, peer-reviewed journals, databases, articles and e-books across a wide range of disciplines. The e-books support program allows researchers to access most of the important text and reference books electronically in a variety of subject areas. Around 75,000 number of electronic content has been made available to the faculty and students through the Digital Library Program. Chief Librarian is the focal person for digital library on behalf of MUST. We have also extended the digital library access to nearby colleges so that they can be facilitated in their research activities.

Designed and developed secure ID cards for executive committee of chamber of commerce and taxation office, Mirpur AJ&K

In collaboration with Chamber of Commerce and Excise and Taxation Office, Mirpur Azad Kashmir, NTC department has designed and developed an ID card solution. For Ministers of AJ&K, NTC has developed a secure card. The card has got many security features that make it nearly impossible to copy.

Smart University Smart Campus

HEC Smart University Huawei System installed for 100% campus wide Wireless (Wi-fi) Internet access. This has got the educational roaming facility that enables students and employees to use Internet in any public sector university through out Pakistan with the same credentials.

Smart University Safe Campus

Campus wide surveillance service has been installed to cover the boundary walls of the campus for 24 / 7 monitoring. The backup of this recording is stored in HEC data center Islamabad.

In house staff and student cards printing system

NTC department has designed and developed an ID card solution for staff and student at MUST, Mirpur. The card has got many security features that make it nearly impossible to copy.

SMART Classroom Project

Modern developments in the ICT have changed the world and continue to do so at a rapid pace and for this, teachers and their pedagogy must also be adaptive – traditional classroom teaching and learning is limited to the knowledge the teacher has and can access. Students ability to find and then evaluate information and construct new knowledge is enhanced through connecting with the world outside the classroom, opening new possibilities that will enable individuals to build new nodes of knowledge, depending on their needs and learning styles. This fundamental change will impact on what we teach, how we teach and where we teach.

The concept of Smart Classroom is emerging across the world and being adopted by the academic institutions at all levels as to help transform knowledge-based economy. In order to increase effectiveness, extended outreach and simplified teaching, many technologies have been evolved to experience various taxonomies i.e. blended learning, bloom, online and distance learning etc. Different

tools/techniques like LMS, IDB's are employed within the classroom and conventional video conferencing whereas there is a dire need of convergence of such technologies through integration of various tools with advanced intelligent techniques. Therefore, the proposed smart classroom solution intends to equip universities with smart classroom facilities and cloud/VDI infrastructure in the public sector universities and selected colleges/sub-campuses.

We have been selected for the establishment of SMART Classrooms one in main campus and the other in new campus Jharikas. This will enable the teachers and students to use the latest technology in delivering lectures.

Director NTC was selected for the committee formed by HEC for the procurement of SMART CLASSROOM Project in 100 Universities.



MUST Enterprise Resource Planning (ERP)

Enterprise web Applications are today the essential part of modern business organization. With technology expansions, the need of the businesses to collaborate, report, and deploy at different places has grown as well and Enterprise Web application development has solved various issues of the present-day organization/business needs. At Network Telecommunication Centre (NTC) we have worked on various methods and researched on different aspects and derived the most useful Enterprise applications as per our university (MUST)/other similar business organization domain and needs.

Must ERP is a web-based application which is developed to fulfill requirements of University (MUST), small business, company and any types of similar organization/business. Open-source technologies are used to develop like: Linux OS, Apache web server, MariaDB, PHP programming language and for frontend browser default markup language (HTML), JavaScript, supporting library jQuery and bootstrap is used.

Objectives HR & Payroll system

- To improve efficiency of organization's administration.
- To store up to date information of the employees.
- To apply salary rules as per government BPS chart.



- To see impact of upcoming payroll head.
- To have better reporting of different modules
- To perform different operations on one click
- To make audit & trail of important data operation(s)
- And so on ...

OBJECTIVES budget and finance management system

- Better-informed planning and budgeting
- Financial transparency
- Improved productivity
- Reduce human errors
- Integration with other relevant modules
- To keep up-to-date record of supplier
- To keep track of Bills & Expenses
- Improve Asset Life Cycle Management
- To track Fixed asset and consumables items
- Increase Asset Visibility
- Accelerate Maintenance Planning
- Easy to manage and process file
- To make it easy to reconcile bank account transactions
- Reporting for executives that will be helpful in decision making

Major ERP modules detail

- HR & Payroll management
- User management system
- User role-based access control system
- Active Directory authentication integration for single sign-on
- Budget management system
- Supplier management system
- File (processing/approval) management system
- Procurement, Asset& Stock Management
- Finance & account management system

Currently NTC department successfully shifted payroll & HR legacy data to new system. Employees of MUST now can have access to their salary slips and other details which is 24/7 available for them. Store, asset and inventory modules are also implemented successfully.

NTC is now expanding its services to outside of the university domain which will benefit to department and university. MUST ERP is total in-house development with its competent team.

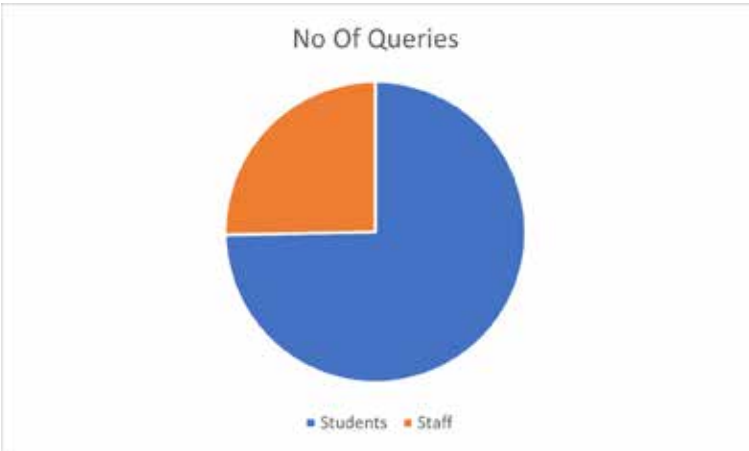
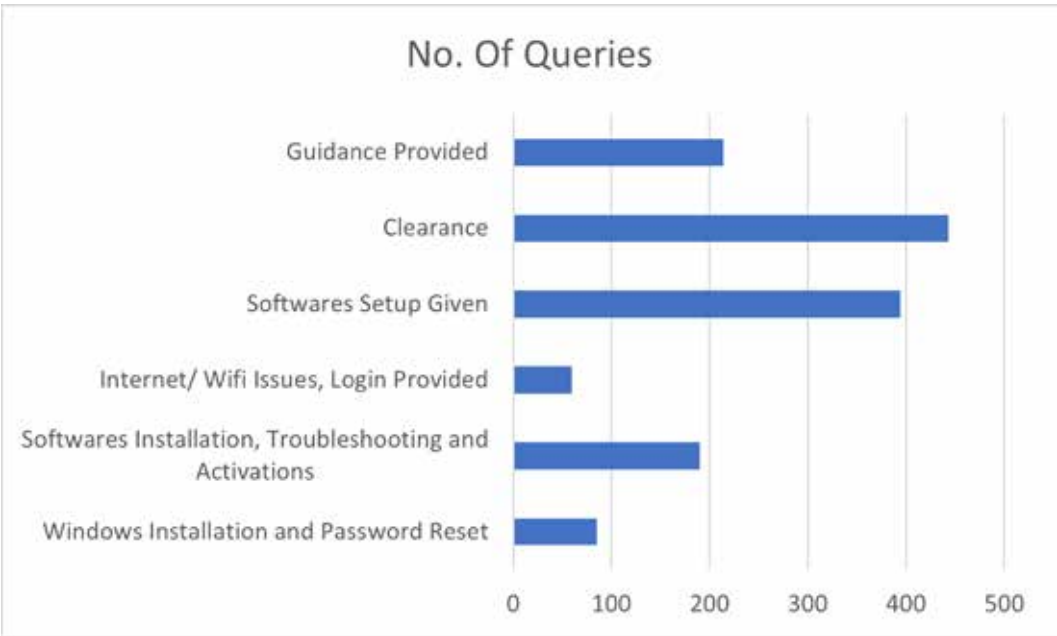


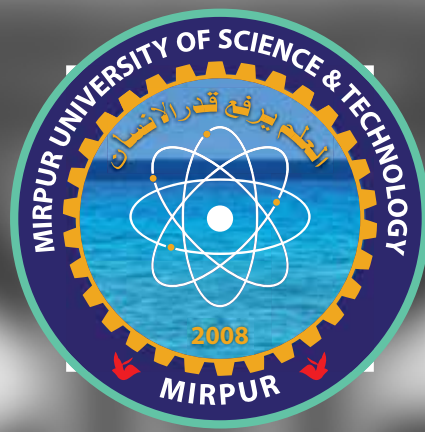


NTC Helpdesk

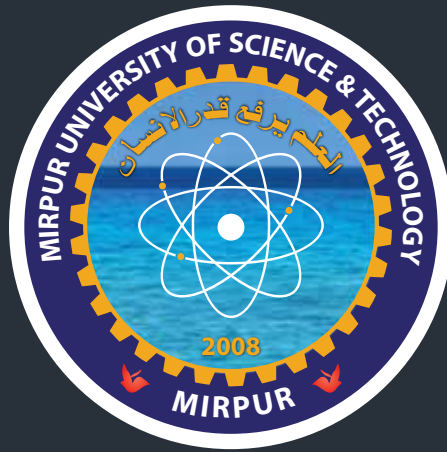
A Helpdesk is the operating arm of an organization's IT department, designed to keep operations running smoothly. Helpdesks handle everything from individual technical problems to total system outages, providing a single point of contact (SPOC) for IT users to seamlessly and efficiently interact with the organization's IT branch. During the period 2021-22, the helpdesk at NTC provided the following services to the Staff and Students:

Category	No. of Queries
Windows Installation and Password Reset	85
Softwares Installation, Troubleshooting and Activations	190
Internet/ Wifi Issues, Login Provided	60
Softwares Setup Given	394
Clearance	443
Guidance Provided	214





WISDOM & VIRTUE



MIRPUR UNIVERSITY OF SCIENCE & TECHNOLOGY (MUST), MIRPUR (AK)

FOR FEEDBACK PLEASE CONTACT

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Admin Block New Campus

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