



**UNIVERSITY OF TECHNOLOGY, NOWSHERA
(SHUHADA-E-APS UOT)**

UNIVERSITY REPORT

2020-23

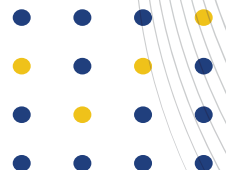


www.uotnowshera.edu.pk

UNIVERSITY OF TECHNOLOGY, NOWSHERA (SHUHADA-E-APS UOT)

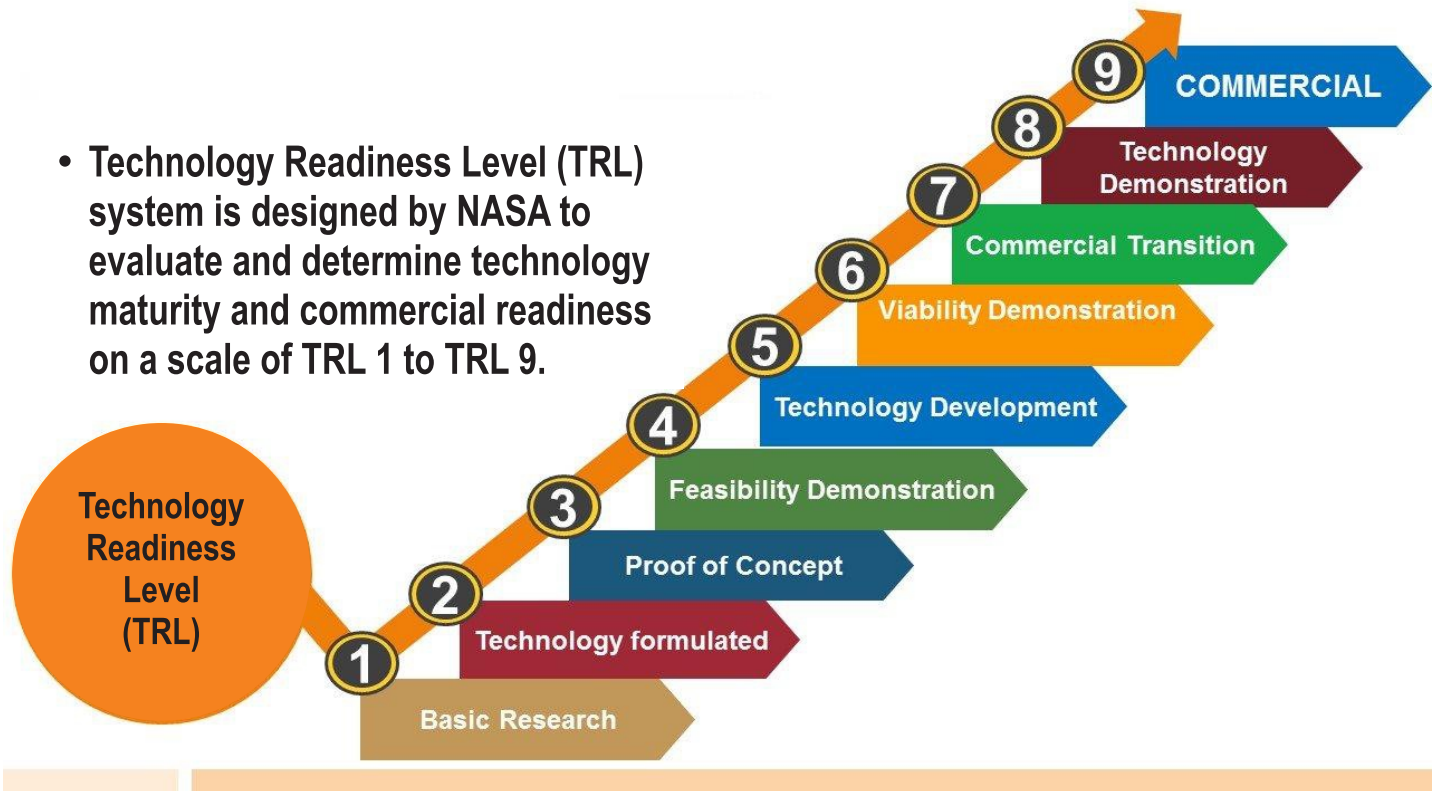


UNIVERSITY REPORT 2020-23



بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

- Technology Readiness Level (TRL) system is designed by NASA to evaluate and determine technology maturity and commercial readiness on a scale of TRL 1 to TRL 9.



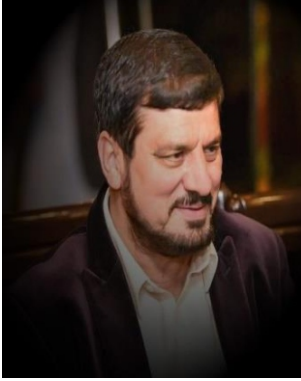
It is possible to fly without motors, but not without knowledge and skill.

Wilbur Wright
Aviation Inventor-1900





Message from the Chancellor



It is with immense pride and admiration that I reflect upon the remarkable journey of Shuhada-e-APS University of Technology, Nowshera (UoT, Nowshera) over the past years. Established in 2016, we have swiftly emerged as a beacon of educational excellence, embodying a spirit of resolute dedication to providing outstanding education. As the first public sector technology university in Khyber Pakhtunkhwa, UoT, Nowshera occupies a momentous position. Our significance lies not only in being pioneers but also in our profound role in shaping students to meet the dynamic demands of the industry. I am deeply gratified by the commitment of the faculty, staff, and students in consistently striving for excellence under the leadership of Prof. Dr. Zaffar M. Khan, Vice Chancellor, UoT, Nowshera.

We, at UoT, Nowshera, take great pride in equipping our students with the skills and knowledge necessary to thrive in their chosen fields. This privilege extends beyond the campus as we witness our graduates making a lasting and positive impact on society. The strides they take in their professional journeys reflect the quality of education and the values instilled during their time at UoT, Nowshera.

Being part of this university is not merely an honor but a profound privilege. Together, we stand united in our pursuit of excellence, empowering individuals to contribute meaningfully to their communities and beyond. As we continue to chart new territories in the realm of education and research, let us remain steadfast in our commitment to shaping the future leaders and innovators of tomorrow.

I extend my heartfelt gratitude to the entire Shuhada-e-APS University of Technology community—students, faculty, staff, and stakeholders—for your unwavering dedication and contributions. Together, we will continue to soar to new heights, making a lasting mark in the realms of education, innovation, and societal impact.

Haji Ghulam Ali

Chancellor/Governor of Khyber Pakhtunkhwa





Message from the Vice Chancellor



I am honored to lead the University of Technology (UoT), the first public sector technology university in Khyber Pakhtunkhwa, on a journey to transform it into a vibrant and highly productive institution. The global landscape has shifted from reliance on natural resources to a knowledge-driven economy, where technological innovation serves as the cornerstone of progress. At UoT, Nowshera, we have created a platform for those aspiring to pursue higher education and careers as technologists. The establishment of Office of the Research, Innovation and Commercialization (ORIC) and Quality Enhancement Cell (QEC) represents a step forward in this direction.

The commercialization of technology through effective university-industry collaboration according to NASA technology readiness levels 1-9, has led to the development of products by a number of students that are ready for commercialization. We are pleased to announce the commencement of bachelor's programs in six diverse disciplines, with plans to launch master's programs in the near future.

UoT, Nowshera stands as a beacon among Public Sector Technology Universities, offering students a unique educational experience where 70% of their time is dedicated to hands-on experience in laboratories and the field, while the remaining 30% is spent in classrooms. Our well-equipped laboratories serve as a conduit for imparting technical knowledge, ensuring that our students graduate with practical and marketable skills, primed for success in the job market. While UoT, Nowshera is in its infancy stage, we have been fortunate to receive tremendous support from the government. This is demonstrated through the graduation of 285 students in six engineering technology programs i.e., Civil, Electrical, Electronics, Energy, Information and Mechanical, in the 1st convocation of UoT, Nowshera held on 26th June 2023 in the convocation hall of University of Peshawar.

The heart of any university lies in its Faculty and Administrative staff. Beyond their regular responsibilities, these dedicated men and women are driven by an unwavering passion to turn the dream of a world-class Technology University into a reality. I wholeheartedly appreciate their spirit, commitment, and boundless enthusiasm.

On behalf of my administrative staff and faculty, I invite you to join this elite hub of academic excellence, which will provide an ideal environment for creating new knowledge, exploring new frontiers and incubation of innovative ideas.

Brig (R) Prof. Dr. Zaffar M. Khan, SI (M)

Vice Chancellor



Introduction

The City of Nowshera

Nowshera, situated in the Khyber-Pakhtunkhwa Province of Pakistan, and located on Grand Trunk Road 27 miles due east of Peshawar, is a central district known for its strategic location and fertile lands. Located on the banks of the Kabul River, it serves as a vital transportation hub, connecting various regions through the historic Khyber Pass and the Grand Trunk Road. Founded by the Khattak tribe in the 16th century, Nowshera has a rich history marked by the rule of empires such as the Mughals, Durrani Empire, and Sikh Empire. It played a significant role during British colonial rule as a military and administrative center, with three military cantonments in the district.

Today, Nowshera is a thriving city with a population exceeding 1 million people. It serves as a major commercial and industrial hub, attracting business activities and contributing to economic growth. The city hosts several educational institutions, including the renowned Shuhada-e-APS University of Technology, which helps develop human capital in the region. Nowshera's historical and archaeological sites, such as the Nowshera Fort, and Tomb of Khushal Khan Khattak, attract tourists seeking to delve into the city's past. Additionally, the surrounding countryside offers picturesque landscapes for outdoor enthusiasts, with opportunities for hiking, camping, and fishing.

Nowshera's strategic importance, cultural heritage, economic vitality, and natural beauty make it a compelling destination for visitors and residents alike. It embodies the harmony between history and progress, inviting exploration of its past while embracing the opportunities of the present.

The University

Shuhada-e-APS University of Technology, Nowshera (UoT), is a prestigious educational institution established in 2016 through an amendment in the KPK Universities Act of 2012 to honor the martyrs of the APS tragedy that occurred in December 2014. As the first public sector technology university in the province, it offers four-year undergraduate programs in six engineering technologies: Civil, Electrical, Electronics, Energy, Information, and Mechanical. The university's curriculum is carefully designed to cultivate innovation, critical thinking, and technical skills among its students, ensuring they possess the knowledge and expertise required to excel in their chosen fields.

UoT places a strong emphasis on research and development, with its faculty actively engaged in government and privately funded research projects. Under the leadership of Vice Chancellor Prof. Dr. Zaffar M. Khan, the university has established a Research and Innovation Block to foster closer ties with industry. Prof. Dr. Zaffar M. Khan has highlighted the importance of the Office of Research Innovation and Commercialization (ORIC) and encouraged faculty members to actively participate in ORIC activities such as research publications, patents, research grants, and startups. This focus on industry linkages aims to strengthen the practical relevance of the university's academic programs.

In addition to academic excellence, UoT places great importance on character building, patriotism, and service. The university organizes a variety of extracurricular activities, community service projects, and seminars to instill social responsibility and ethical values in

its students. By doing so, the university serves as a beacon of hope and resilience, inspiring its students to make positive contributions to society and shape a better future. Despite being a young institution, the university has already made significant strides in advancing engineering technology education in Pakistan and remains committed to providing a high-quality education that equips students for successful careers.

Administration of UoT

In the University's organizational structure, the Governor of Khyber Pakhtunkhwa holds the position of Chancellor, while the Minister for Commerce and Technical Education serves as the Pro-Chancellor. The University is governed by the Syndicate, which acts as the legislative and governing body. On the other hand, the highest academic authority within the University is the Academic Council.

At the helm of the University is the Vice-Chancellor, who assumes the role of Chief Executive and Academic Officer. Assisting the Vice-Chancellor are the Deans of the various Faculties, the Head of Departments, and the Principal Officers of the University. These Principal Officers include the Registrar, the Treasurer, and the Controller of Examinations. Together, they work collaboratively to ensure

faithful observance and implementation of the provisions stated in the KP University Act, as well as the Statutes and Regulations governing the University's operations.

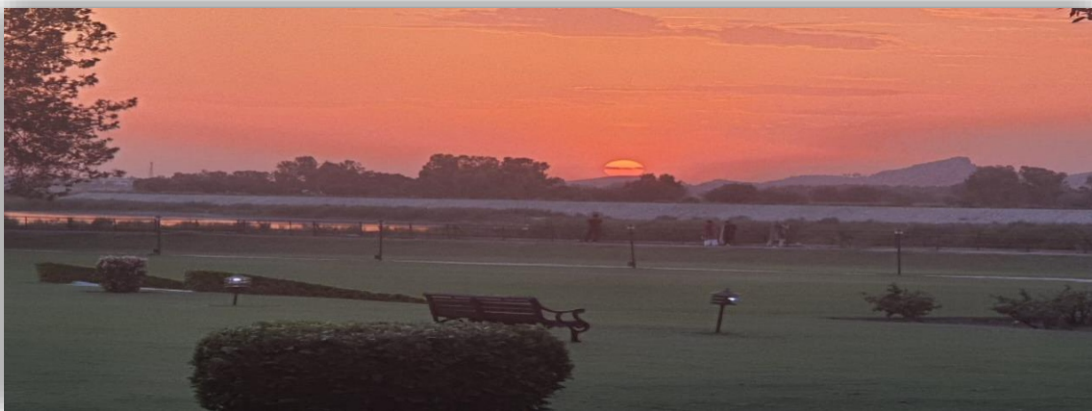
Location of UoT

The University campus is situated just outside the Nowshera district, approximately 7 kilometers away from the city center. It finds its home within the premises of the Ex-Adamjee Paper & Board Mill in Amangarh. The campus is conveniently positioned along the main Grand Trunk Road, which serves as the major route connecting the cities of Peshawar and Rawalpindi. This location offers easy access and connectivity for students, faculty, and visitors alike, making it a convenient hub for learning and academic pursuits.

Academic Programs Offered at UoT

The University offers B.Sc. Degree programs in the following six engineering technologies:

- i. Civil Engineering Technology
- ii. Electrical Engineering Technology
- iii. Electronics Engineering Technology
- iv. Energy Engineering Technology
- v. Information Engineering Technology
- vi. Mechanical Engineering Technology



Sunset at River Kabul, Nowshera



VISION

To emerge as a pioneering technical university, delivering world-class education, training, and skills, cultivating exceptional talents and innovative researchers to support our nation's sustainable development objectives.



MISSION

To foster academic excellence by disseminating extensive knowledge and providing hands-on training with state-of-the-art technology. We aim to develop a diverse and highly skilled workforce that is motivated to pursue continuous professional growth, enabling them to make meaningful contributions to the advancement of industry and society.



Core Values

1. HONESTY, TRUTHFULNESS AND LOYALTY
2. INNOVATIVE AND CREATIVE
3. PROFESSIONAL AND ETHICAL
4. RESPECTFUL AND HELPFUL
5. IMPACTFUL AND RESULT ORIENTED
6. INDUSTRIAL AND ACADEMIC COLLABORATOR
7. DIVERSE AND INCLUSIVE





Major Milestones Achieved (2020-23)

- Acquired 610 Kanals land for the university main campus near the Rashakai special economic zone, a future industrial hub located on the motorway M1 at a distance of 60 km from Peshawar.
- Hosted the 1st convocation in June 2022, a momentous occasion where the achievements of our dedicated students were celebrated. The event was held in the convocation hall of the University of Peshawar. During this event, a total of 285 students were bestowed with Bachelor of Science Degrees in six distinguished engineering technology programs. Additionally, to recognize academics excellence and commitment, we proudly presented 14 high-achieving students with prestigious gold medals.
- Regular grant received from the Higher Education Commission Pakistan, highlighting the recognition and support extended to the University for its academic and research endeavors.
- Renovated the Library, transforming it into a modern learning hub equipped with digital services like the HEC digital library, granting students and faculty access to a vast array of scholarly resources.
- Established the Office of Research, Innovation, and Commercialization (ORIC) and Business Incubation Center, thus fostering a culture of entrepreneurship and providing resources for research and innovation.
- Established a dedicated Quality Enhancement Cell to implement and oversee a comprehensive framework for quality assurance and enhancement throughout the university.
- Procured the QOBE software, a comprehensive platform rooted in the principles of Outcome-Based Education. This software solution has been acquired to effectively oversee the entire educational journey, encompassing activities from the initial onboarding of students to alumni engagement. QOBE provides a robust framework for the assessment and evaluation of Program Education Objectives, Program Learning Outcomes, and Course Learning Outcomes, thereby enhancing the quality of education and educational planning.
- Degree and transcript verification by the Higher Education Commission Pakistan, ensuring the authenticity and credibility of academic qualifications, thereby instilling trust and confidence among stakeholders.
- Appointed of faculty and staff on a regular basis.
- Acquired state-of-the-art laboratories equipment worth Rs. 200 million. The case for procuring additional lab equipment worth Rs. 250 million is in progress.





- Accredited all Academic Programs from the National Technology Council of Pakistan thus validating the high standards and quality of these programs, with ongoing efforts to introduce postgraduate programs.
- Revamped Cafeteria facilities, featuring dedicated space for faculty and staff, creating a comfortable and conducive environment for them to relax and rejuvenate.
- Established a Day Care Center and Gymnasium, demonstrating the University's commitment to the holistic well-being of its students and staff, supporting a healthy work-life.
- Introduced one-window facilitation point, streamlining administrative processes, and providing a seamless experience for students, simplifying procedures and saving valuable time.
- Initiated the affiliation process for technical colleges, extending the University's educational reach and promoting quality technical education in the region.
- Established state-of-the-art computer labs, equipped with cutting-edge technology, enabling students to engage in hands-on learning and stay at the forefront of technological advancements.
- Hosted Scie-Tech 2023, a groundbreaking event showcasing students' research to industry leaders, fostering collaborations, and driving innovation.
- Formed a vital partnership by signing an MoU with the Nowshera Chamber of Commerce, creating strong industrial-academia linkages.
- Upgraded university website, providing a seamless user experience and easy access to resources.
- Boosted on-campus internet speed from 16 Mbps to 60 Mbps, including access to the HEC PERN net at 25 Mbps, enhancing connectivity for students, faculty, and staff.
- Transformed laboratories by procuring high-tech equipment from Pakistan Machine Tool Factory and upgrading existing facilities, ensuring cutting-edge learning environments.
- Opened the Bank of Khyber branch at UoT Campus.
- Won research funding worth Rs. 1.5 million for final year projects from IGNITE.
- Commenced initiatives to create Pension, Endowment, Research and Development Funds at UoT.
- Introduced professional courses in collaboration with NAVTTC, where two batches have successfully completed their courses.





Prof. Dr. Zaffar M. Khan, Vice Chancellor, UoT, Nowshera presenting shield to Mr. Haji Ghulam Ali, honorable Governor Khyber Pakhtunkhwa during the 1st Convocation of UoT, Nowshera.





The Senate

Haji Ghulam Ali

Chancellor/Governor KP
University of Technology, Nowshera

Mr. Syed Aamir Abdullah

Pro-Chancellor/Minister,
Industries, Commerce & Technical Education,
Government of KP.

Brig (R) Prof. Dr. Zaffar M. Khan, SI (M)

Vice Chancellor
University of Technology, Nowshera

Justice (Retired) M. Nasir Mehfooz

Nominee of Honourable Chief Justice,
Peshawar High Court

Nominee

Higher Education Commission, Pakistan

Prof. Dr. Iftikhar Hussain

Vice Chancellor, UET Peshawar
Chancellor's Nominee

Prof. Dr. Afzal Khan

Professor, UET Peshawar
Chancellor's Nominee

Prof. Dr. Ahmad ur Rehman Saljoki

Dean, University of Agriculture, Peshawar
Chancellor's Nominee

Col (R) Zakir Hussain

Regional Director APSACS Nowshera-Attock
Region,
Chancellor's Nominee

Dr. Shahid Bashir

Director, SIC, UET Peshawar
Chancellor's Nominee

The Secretary

Establishment Department,
Government of Khyber Pakhtunkhwa

The Secretary

Industries, Commerce
Department,
Government of Khyber Pakhtunkhwa

The Secretary

Finance Department,
Government of Khyber Pakhtunkhwa

The Secretary

Higher Education, Archives and Libraries
Department,
Government of Khyber Pakhtunkhwa

Dr. Shahid Iqbal

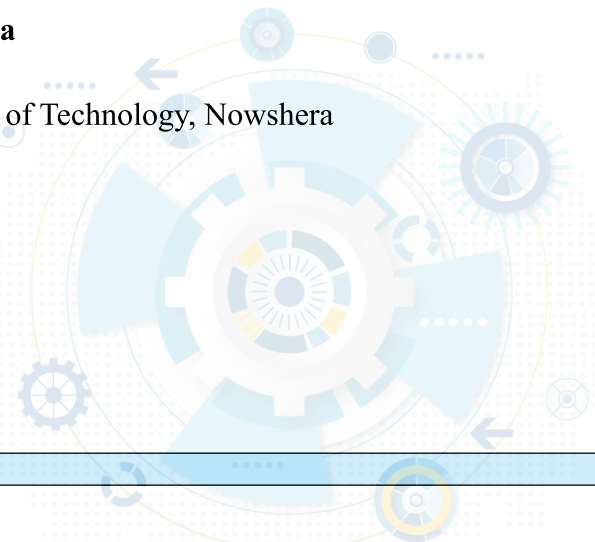
Assistant Professor CT Department,
University of Technology, Nowshera

Engr. Dawar Awan

Lecturer, ET Department,
University of Technology, Nowshera

Mr. Osama

Graduate,
University of Technology, Nowshera





The Syndicate

Brig (R) Prof. Dr. Zaffar M. Khan, SI (M)

Vice Chancellor/Chairperson Syndicate
University of Technology, Nowshera

Justice (Retired) M. Nasir Mehfooz

Nominee of Honourable Chief Justice,
Peshawar High Court

Nominee

Higher Education Commission, Pakistan

Prof. Dr. Shahab Khushnood

Chancellor's Nominee

The Secretary

Establishment Department,
Government of Khyber Pakhtunkhwa

The Secretary

Industries, Commerce & Technical Education
Department,
Government of Khyber Pakhtunkhwa

The Secretary

Finance Department,
Government of Khyber Pakhtunkhwa

The Secretary

Higher Education, Archives and Libraries
Department,
Government of Khyber Pakhtunkhwa

Dr. Haider Ali

Assistant Professor ELT Department,
University of Technology, Nowshera

Dr. Naveed Jan

Head of IET Department,
University of Technology, Nowshera

Engr. Muhammad Uzair Khan

Lecturer, ET Department,
University of Technology, Nowshera

Mr. Tauseef Ahmad

Assistant Registrar (Admin),
University of Technology, Nowshera

Mr. Dawar Awan

Deputy Registrar Registrar (Secretary),
University of Technology, Nowshera

Mr. Mehran Khan

Assistant Treasurer
University of Technology, Nowshera





The Academic Council

Brig (R) Prof. Dr. Zaffar M. Khan, SI (M)

Vice Chancellor/Chairperson Syndicate
University of Technology, Nowshera

Dr. Shahid Iqbal

Head of Department, Civil Engg. Tech.,
University of Technology, Nowshera

Dr. Naveed Jan

Head of Department, Electrical Engg. Tech.,
University of Technology, Nowshera

Dr. Haider Ali

Head of Department, Electronics Engg. Tech.,
University of Technology, Nowshera

Dr. Irshad Ullah

Head of Department, Energy Engg. Tech.,
University of Technology, Nowshera

Dr. Muhammad Bilal

Head of Department, Information Engg. Tech.,
University of Technology, Nowshera

Dr. Muhammad Shakeel

Head of Department, Mechanical Engg. Tech.,
University of Technology, Nowshera

Mr. Asifullah

Lecturer, Information Engg. Tech.,
University of Technology, Nowshera

Engr. Dawar Awan

Lecturer, Electrical Engg. Tech.,
University of Technology, Nowshera

Mr. Muhammad Uzair Khan

Deputy Controller of Examinations,
University of Technology, Nowshera

Mr. Tuheed ur Rehman

Assistant Registrar (Secretary),
University of Technology, Nowshera





Organizational Setup

Chancellor

Mr. Haji Ghulam Ali

Pro-Chancellor

Mr. Syed Aamir Abdullah
Industries, Commerce & Technical Education,
Government of KP.

Vice Chancellor

Brig (R) Prof. Dr. Zaffar M. Khan, SI (M)

HoD Civil Engg. Tech.

Dr. Shahid Iqbal

HoD Electrical Engg. Tech.

Dr. Naveed Jan

HoD Electronics Engg. Tech.

Dr. Haider Ali

HoD Energy Engg. Tech.

Dr. Irshad Ullah

HoD Information Engg. Tech.

Dr. Abid Haider

HoD Mechanical Engg. Tech.

Dr. Shakeel Ahmad

Additional Director QEC

Dr. Naveed Jan

Additional Director ORIC

Dr. Muhammad Bilal

Library Incharge

Mr. Asifullah

Deputy Registrar

Mr. Dawar Awan

Deputy Controller of Examinations

Mr. Muhammad Uzair Khan

Deputy Director P&D

Mr. Muhammad Lais

Assistant Registrar (Admin)

Mr. Tauseef Ahmad

Assistant Treasurer

Mr. Mehran Khan

Internal Auditor

Mr. Amir Hussain

System Administrator

Mr. Wajid Ali Taj

In charge Sports

Engr. Kamran Khan

Procurement Officer

Mr. Abu Bakar Shinwari

Security Officer

Mr. Ghulam Farooq

Assistant Warden

Mr. Bilal Saleem





Faculty of Engineering Technology

Department of Civil Engineering Technology

Dr. Shahid Iqbal
Assistant Professor/Head of Department

Engr. Imran Khan
Lecturer

Engr. Umar Tariq
Lecturer

Engr. Kamran Khan
Lecturer

↑
Engr. Shah Room
Lecturer

Engr. Masood Ahmad Khan
Lecturer

Department of Electrical Engineering Technology

Dr. Naveed Jan
Assistant Professor/Head of Department

Engr. Lais
Lecturer

Engr. Dawar Awan
Lecturer

Mr. Kashif
Lecturer

Engr. Muhammad Uzair Khan
Lecturer

Engr. Muhammad Israr
Lab Technologist



Department of Electronics Engineering Technology

Dr. Haider Ali
Assistant Professor/Head of Department

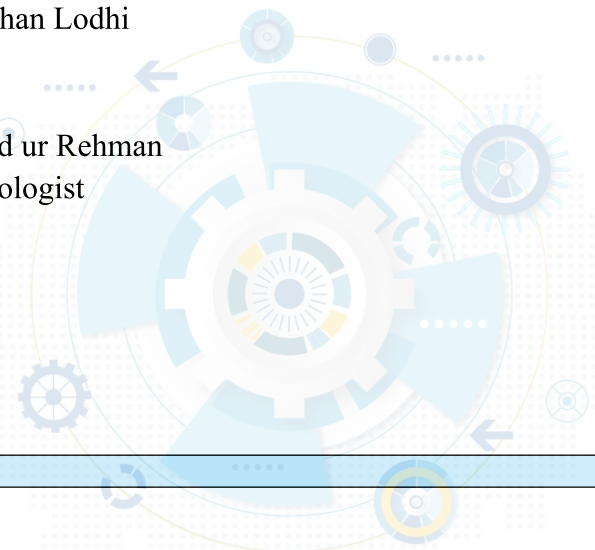
Engr. Saadia Tabassum
Lecturer

Dr. Saad Ijaz Majid
Lecturer

Engr. Zeeshan Lodhi
Lecturer

Engr. Amad Hamza
Lecturer

Mr. Naveed ur Rehman
Lab Technologist





Department of Energy Engineering Technology

Dr. Irshad Ullah
Head of Department

Engr. Imad Hassan
Lecturer

Engr. Muhammad Zia
Lecturer

Ms. Nida Aman
Lecturer

Engr. Shayan Tariq Jan
Lecturer



Department of Information Engineering Technology

Dr. Muhammad Bilal
Assistant Professor/Head of Department

Mr. Tufail Muhammad
Lecturer

Dr. Abid Haider
Lecturer

Mr. Muhammad Bilal
Lab Technologist

Mr. Asifullah
Lecturer

Mr. Younas
Lab Technologist



Department of Mechanical Engineering Technology

Dr. Muhammad Shakeel
Assistant Professor/Head of Department

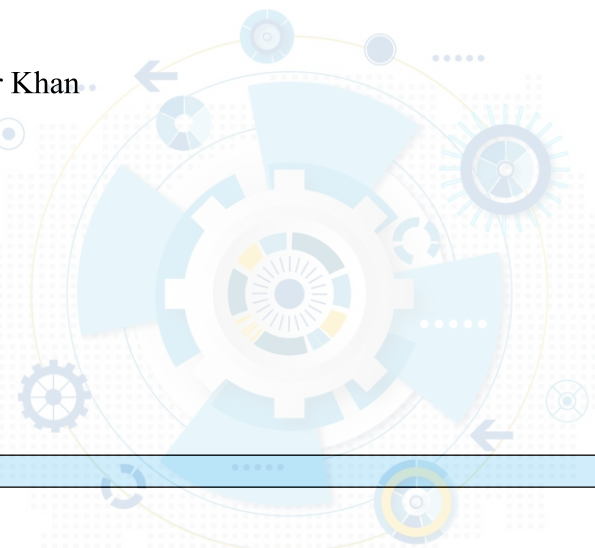
Engr. Shakeel Ahmad
Lecturer

Engr. Syed Ehtisham Gillani
Lecturer

Engr. Haroon Akhtar
Lecturer

Engr. Asad Riaz
Lecturer

Mr. Gulzar Khan
Lecturer





REGISTRAR



Registrar Office



Mr. Dawar Awan
Deputy Registrar

The Registrar's Office at UoT, Nowshera serves as the administrative backbone of this university, overseeing a wide range of essential functions that ensure the seamless operation of the university. This office plays a pivotal role in framing and implementation of related rules, regulations, and policies, human resource management, and maintaining coordination among different sections of the university thus supporting faculty and students in their academic journey, and upholding the integrity and quality of educational programs.

Statutory Bodies

The effective and efficient governance of a university is vital for its successful operation and adherence to established standards of academic excellence and accountability. Central to this governance structure are the statutory bodies, including the Senate, Syndicate, and Academic Council.



4th Meeting of the Senate of UoT, Nowshera

The Senate, Syndicate, and Academic Council are the pillars upon which the university's governance structure is built, each with distinct responsibilities and functions. These bodies bring together a diverse group of stakeholders, including faculty members, administrative staff, external experts, and often student representatives, to collectively steer the institution towards its vision and mission. Their collaborative efforts ensure that the university operates in accordance with regulatory guidelines, advances educational standards,





and strives for continuous improvement in the pursuit of academic excellence. In the subsequent sections, we delve into the specific roles and functions of each of these statutory bodies within the university's governance framework. To shape and implement policies and decisions that impact the academic and administrative facets of the university, several meetings of the statutory bodies were held as per the details mentioned in the table given below:

S. No.	Type of Statutory Body	No. of Meetings Held
1	Senate	04
2	Syndicate	16
3	Finance & Planning Committee	11
4	Academic Council	08



15th Syndicate Meeting of UoT, Nowshera

Recruitments

Faculty and administrative staff are essential for the smooth and efficient operation of the university. To smoothly manage the affairs of the university, the registrar office has completed the recruitment process of the employees mentioned in the tables given below:

The integral role played by the dedicated faculty and administrative staff is pivotal to the seamless and efficient functioning of the university. In this regard, the Registrar's Office has successfully completed the recruitment process for the personnel mentioned in the table given below. This effort aligns with our commitment to the proficient management of university affairs.





Total Number of Recruitments

S. No	Position	BPS	Total Number of Hiring
01	Assistant Professor	19	04
02	Lecturer	18	19
03	Lab Technologists	17	02
04	Assistant Registrar	17	03
05	Assistant Controller of Examination	17	02
06	Assistant Treasurer	17	01
07	Procurement officer	17	01
08	Auditor	17	01
09	IT administrator	17	01
10	Assistant Director P & D	17	01
11	Office Assistant	16	04
12	Accountant	16	01
13	Junior Clerk	11	04

Total Faculty Hired: 25

Total Admin Staff Hired: 19

Hiring in Process

S.No	Position	BPS	Total Number of Position	Remarks
01	Associate Professor	20	08	In Process
05	Assistant Professor	19	02	In Process
06	Lecturer Mechanical	18	03	In Process
08	Deputy Director QEC	18	01	In Process
09	Assistant Director QEC	17	01	In Process
10	Assistant Librarian	16	01	In Process
11	Office Assistant	16	01	In Process
12	Junior clerk	11	06	In Process
13	Lab Assistant	11	06	In Process
14	Reception/ Telephone Operator	07	01	In Process

Faculty Hiring In process: 13

Admin Positions Hiring: 17





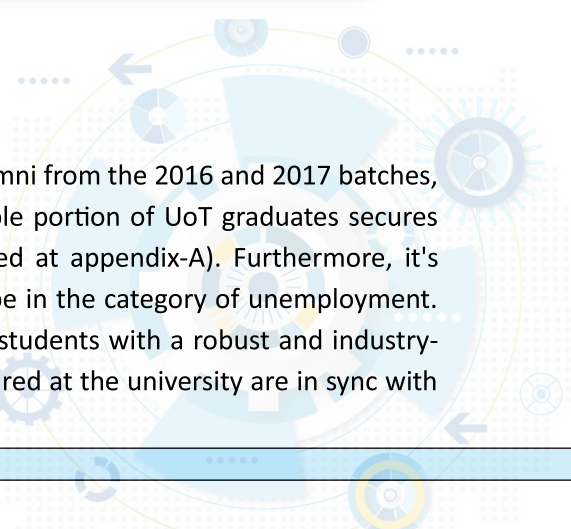
Meeting of the Finance & Planning Committee



Meeting of the Academic Council

Alumni of University of Technology, Nowshera

The pie charts given below illustrate the employment distribution of alumni from the 2016 and 2017 batches, each employed in various sectors. The data indicates that a considerable portion of UoT graduates secures employment shortly after graduation (list of notable alumni is attached at appendix-A). Furthermore, it's noteworthy that only a minor percentage of UoT graduates appear to be in the category of unemployment. This outcome not only underscores the success of UoT in providing its students with a robust and industry-relevant education but also suggests that the knowledge and skills acquired at the university are in sync with

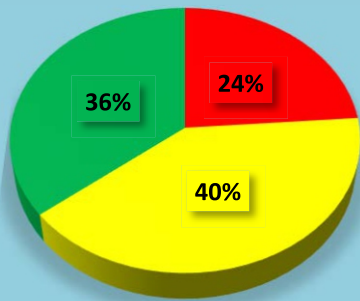




the needs of the job market. The high employability of UoT graduates, therefore, stands as a testament to the quality of education and training imparted by the institution.

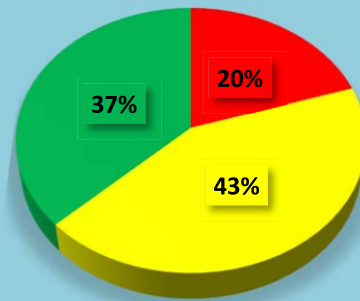
Alumni Data of Batch-2016

- Employed in Public Sector
- Employed in Private Sector
- Self Employed/Not Employed



Alumni Data of Batch-2017

- Employed in Public Sector
- Employed in Private Sector
- Self Employed/Not Employed



Student Affairs Office

The establishment of the Student Affairs Office by the Vice Chancellor at the University of Technology Nowshera signifies a commitment to improving the holistic student experience. This dedicated office will address non-academic needs, including student support, extracurricular activities, counseling, housing, and career services. By doing so, it aims to enhance student well-being, engagement, and personal growth, contributing to a vibrant and supportive campus community.





FINANCE

Finance Section



Mr. Mehran Khan
Assistant Treasurer

Approved Budget

The finance section within a university is an integral part of its management system. Finance management not only supports financial stability and transparency but also contributes to strategic planning and decision-making. It allows the university to assess the feasibility of new initiatives, optimize efficiency, and maintain the quality of education, research, and support services. Under the visionary leadership and unwavering dedication of the second Vice Chancellor, the Finance section achieved a significant milestone by securing approval for its budget in the university's Senate for the fiscal years 2021-22 and 2022-23. The table below provides a comprehensive, year-by-year overview of the approved budgets and corresponding expenditures for the past years, encompassing both establishment charges and non-salary operating expenditures.

S.No.	Year	Approved Budget in PKR (millions)	Expenditures in PKR (millions)	Surplus/Deficit in PKR (millions)
1	2021-22	288.59	140.94	147.65
2	2022-23	305.83	260.63	45.2

Recurring Grant from HEC

In a landmark development, the Higher Education Commission initiated the allocation of a recurring grant to the University of Technology Nowshera for the first time in the fiscal year 2022-23, generously endowing the institution with a sum of Rs. 20.00 million. Notably, this financial support continued into the subsequent fiscal year, as the grant was also approved for the CFY 2023-24, underscoring the ongoing commitment to the university's mission.

Funding from ADP Scheme

Furthermore, in addition to the recurring grant, the Government of Khyber Pakhtunkhwa released a substantial amount of Rs. 700.00 million through the Annual Development Program (ADP) scheme. This funding has been earmarked for the expansion and development of laboratory facilities and other developmental expenditures. The expenditure details for the last three years within the ADP scheme are presented below, providing a transparent view of the utilization of these funds for the enhancement and growth of the university's infrastructure and support of academic activities.

Year Wise Expenses (Million PKR)

PC-I Budget Head	PC-I Approved Budget (Revised) 2022	Expenditure up to June 30, 2020	2020-21	2021-22	2022-23	Expenditure incurred during 2020-23	Total Expenditure up to June 30, 2023	Balance
Labs Equipment	2279.47	84.46	–	53.98	49.74	103.72	188.18	2091.29
Teaching and Staff aids	41.37	4.56	1.66	2.44	5.88	9.99	14.55	26.82
Human Resource Development	28.81	0.30	–	–	1.02	1.02	1.32	27.49
Furniture and Fixture	73.75	22.31	0.19	2.28	0.97	3.44	25.75	47.99
Misc. Electric and other Appliances	37.56	15.76	0.19	–	0.60	0.79	16.55	21.01
Books and Journals	13.50	5.46	1.18	–	3.48	4.66	10.12	3.38
Transport and Logistics	103.22	26.48	–	5.79	–	5.79	32.27	70.95
Renovation Repairs and Maintenance of Hired Premises	94.20	81.84	0.83	1.18	–	2.01	83.85	10.35
Land Acquisition	193.60	–	158.60	4.15	–	162.76	162.76	30.84
Recurring Expenditures	890.00	398.63	100.85	122.78	139.12	362.75	761.38	128.62
Total	3755.47	639.80	263.51	192.61	200.81	656.93	1296.73	2458.73

Internal Audit

To ensure transparency in budget utilization, the honorable Vice Chancellor has asked Mr. Muhammad Faheem, the former Deputy Accountant General of KP and a member of the Finance & Planning Committee of UoT, Nowshera, to carry out an internal audit of the university. After conducting a comprehensive review, Mr. Muhammad Faheem expressed his satisfaction with how the budget was allocated, confirming that the expenditures adhered to the existing statutes and regulations.



Mr. Muhammad Faheem, Ex-Deputy Accountant General Khyber Pakhtunkhwa conducting internal audit of UoT, Nowshera on the request of Honorable Vice Chancellor.

Establishment of Sustainable Funds

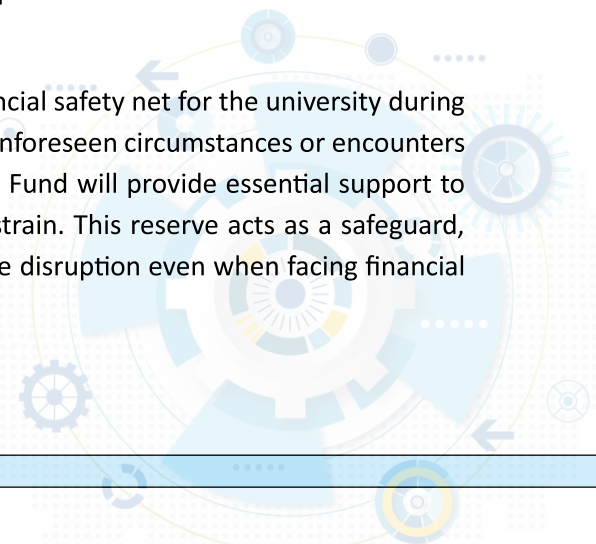
The distinguished and forward-thinking vision of the esteemed Vice Chancellor at the University of Technology, Nowshera has played a pivotal role in facilitating the establishment of three distinct funds: the Research & Development Fund, the Reserve Fund, and the Contributory Provident Investment Fund. These financial instruments have been strategically introduced to ensure the university's long-term financial sustainability and operational autonomy. The established funds are not meant to be idle resources; they will be strategically invested to generate a reasonable profit.

Research & Development Fund

The profit generated from the Research & Development (R&D) fund will play a pivotal role in fostering innovation within the university community. This is a significant step towards encouraging and supporting faculty members and students who present pioneering ideas. The generated profit will be used for initiatives that drive innovation, such as research projects, technology development, and other creative endeavors. Additionally, it will be channeled into human resource development, potentially enabling the university to attract and retain top talent, thus fueling its academic and research capabilities.

Reserve Fund

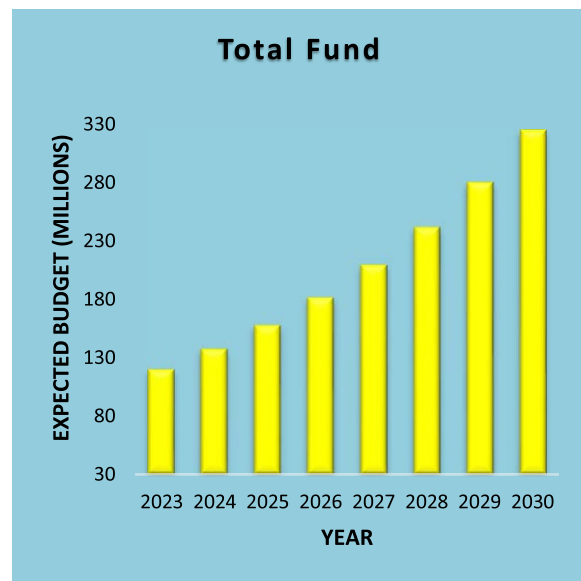
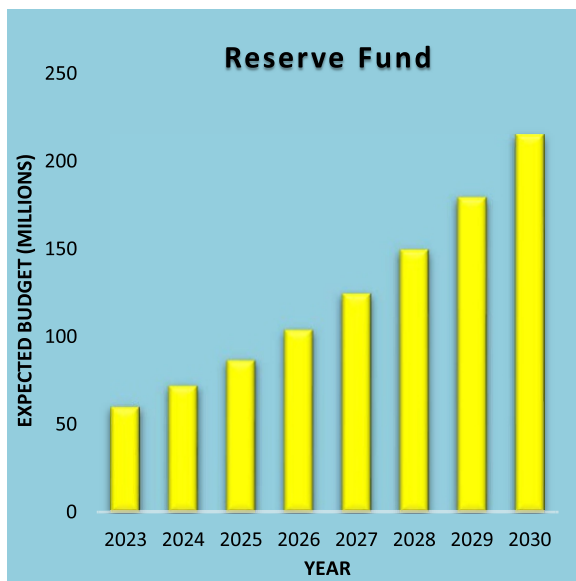
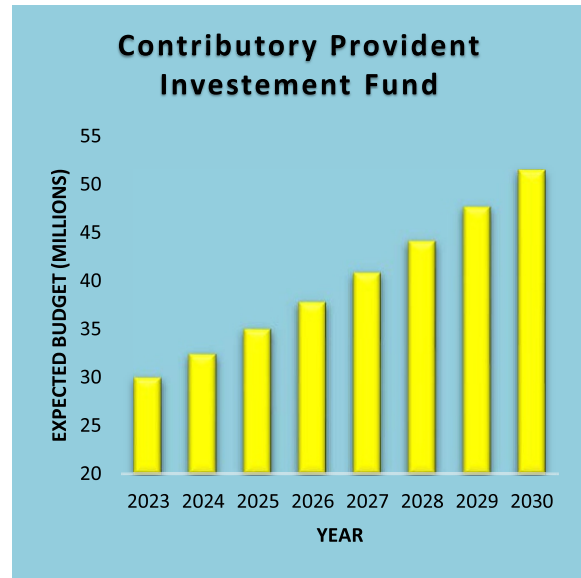
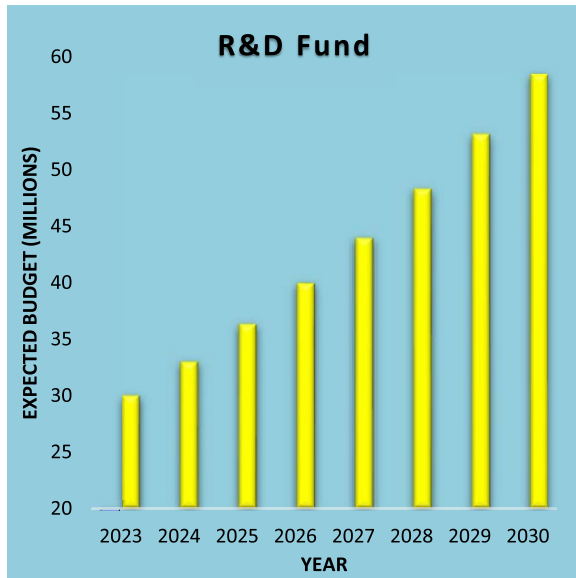
Similarly, the profit generated by the Reserve Fund will serve as a financial safety net for the university during challenging times. There may be instances when the university faces unforeseen circumstances or encounters budgetary constraints. In such situations, the profit from the Reserve Fund will provide essential support to cover necessary expenditures that might otherwise pose a financial strain. This reserve acts as a safeguard, ensuring that the university can continue its operations without undue disruption even when facing financial adversity.





Contributory Provident Investment Fund

The profit derived from the Contributory Pension Investment Fund will contribute the university's part in the contributory pension of the regular employees. This is an important aspect of ensuring the financial well-being of the university's workforce.



As a result of these prudent financial measures, the university is well-positioned to maintain fiscal stability and, thus, evade the financial challenges often encountered by other institutions within the province. The anticipated budgets for these funds in the upcoming years are visually represented in the figure given above, providing a clear and concise overview of the university's financial planning.





Award of Ehsas Scholarship

A total of 194 needy students were awarded Ehsas need based scholarships which included their tuition fee as well as monthly stipend ensuring that they receive financial support for their academic expenses while also helping them meet their basic living costs through the stipends provided.

Inauguration of the Sub-Branch of Bank of Khyber

Through the dedicated efforts of the esteemed Vice Chancellor, the Bank of Khyber has entered into an agreement to establish a sub-branch at the University of Technology, Nowshera. Subsequently, the honorable caretaker Minister of Khyber Pakhtunkhwa for Industries, Commerce and Technical Education, Mr. Syed Aamir Abdullah, has officially inaugurated the Bank of Khyber sub-branch. This sub-branch has been established with the primary objective of providing convenient financial services to the students, faculty, and staff at the main campus of the university. Furthermore, the Bank of Khyber has generously contributed Rs. 1 million to support the educational needs of needy students.



Honorable caretaker Minister of Khyber Pakhtunkhwa for Industries, Commerce and Technical Education, Mr. Syed Aamir Abdullah, inaugurating the Bank of Khyber sub-branch at UoT, Nowshera.





QUALITY ENHANCEMENT CELL



Quality Enhancement Cell



Dr. Naveed Jan
Director QEC

The University of Technology, Nowshera, has taken a significant step towards elevating the standards of its academic programs with the establishment of a dedicated Quality Enhancement Cell (QEC). This strategic move is a testament to our dedication to continuous improvement and a clear indicator of our resolve to provide students with an education that prepares them for success in a rapidly changing world. Through rigorous self-assessment and benchmarking against international quality standards, we are well-positioned to advance the quality of our academic programs and, in turn, produce graduates who are well-prepared to meet the challenges of the modern professional landscape.

The QEC team is excited about the positive impact that the QEC will have on university's academic excellence and look forward to the continuous enhancement of the learning experience for our students.



Accreditation Visit by National Technology Council

Accreditation of Programs

With the efforts of the QEC team and honorable Vice Chancellor, all engineering technology programs of UoT have been successfully accredited by the National Technology Council (NTC). This accreditation is a testament to the high standards and exceptional quality of programs offered by the university, assuring both current and future students that they are receiving education that not only meets but exceeds national and international benchmarks. The accredited programs are listed below:



1. Civil Engineering Technology
2. Electrical Engineering Technology
3. Electronics Engineering Technology
4. Energy Engineering Technology
5. Information Engineering Technology
6. Mechanical Engineering Technology

Procurement of QOBE Software:

The university has procured the QOBE software, a comprehensive platform rooted in the principles of OutcomeBased Education. This software solution has been acquired to effectively oversee the entire educational journey, encompassing activities from the initial onboarding of students to alumni engagement. QOBE provides a robust framework for the assessment and evaluation of Program Education Objectives, Program Learning Outcomes, and Course Learning Outcomes, thereby enhancing the quality of education and educational planning.

Trainings/Seminars Organized

The Quality Enhancement Cell (QEC) at UoT, Nowshera has organized a series of workshops and seminars as mentioned in the table below. The objective is to enhance the faculty's proficiency in the Outcome-Based Education System and to guarantee that our educational delivery aligns with the rigorous standards set forth by NTC and HEC guidelines.

S.No.	Title of Training/Seminar	Details of the Focal Person	Date
1	2-Days OBE Workshop	Dr. Shaukat Ali Khan <i>Associate Dean</i> <i>Abasyn University, Peshawar</i>	6 th – 7 th September, 2022
2	Mock Visit of all Departments before NTC Accreditation Visit	Dr. Salman Ahmad <i>Assistant Professor</i> <i>UET Peshawar</i>	16 th November, 2022
3	Seminar on Learning Management System	Muazzam A. Bhatti <i>CEO</i> <i>Alfoze Technologies</i>	7 th December, 2022
4	Training Session on Q-OBE Software	Mr. Zeeshan Aslam <i>Q-OBE Support Engineer</i> <i>Alfoze Technologies</i>	6 th February, 2023
5	Interactive Hands-on training Session on QOBE Software	1. Tuheed ur Rehman <i>Assistant Director QEC</i> <i>UoT, Nowshera</i> 2. Dr. Abid Ali <i>Chairman IT Committee</i> <i>UoT, Nowshera</i>	6 th April, 2023
6	Seminar on Facilitation of QEC and Preparation of	Dr. Naveed Jan <i>Director QEC</i>	10-Apr-23



	Institutional Performance Evaluation (IPE)	<i>UoT, Nowshera</i>	
7	One-day Outcome-Based Education (OBE)/QOBE Training Workshop	Dr. Arbab Waheed <i>Head of the Department of Electrical Engineering and the designated OBE focal person for the institution</i> <i>Pak-Austria Fachhochschule: Institute of Applied Sciences and Technology (PAF-IASST) Pakistan</i>	1st September 2023



The National Curriculum Revision Committee (NCRC) meeting regarding BSc Petroleum and Gas Engineering Technology was held in the University of Technology Nowshera from 23rd to 25th November 2022.

QEC Participation/Involvement in National Level Activities

The QEC team has participated in different activities arranged by HEC and NTC. The details of these activities is mentioned in the table below:

S.No	Activity	Arranged by	Date	Venue
1	Progress Review Meeting & Training of QECs	QAA HEC Islamabad	25 th – 27 th May 2022	University of Swat
2	NCRC for Chemical Engineering Technology	National Technology Council Islamabad	14 th – 16 th September, 2022	University of Technology Nowshera
3	NCRC for Petroleum and Gas Engineering Technology	National Technology Council Islamabad	23 rd – 25 th November, 2022	University of Technology Nowshera
4	One Day Training Course for Program Evaluators	National Technology Council Islamabad	29 th May, 2023	University of Technology Nowshera
5	Online Interactive Session on “How to Prepare YPR and its Evidences”	QAA HEC Islamabad	20 th July, 2023	Online





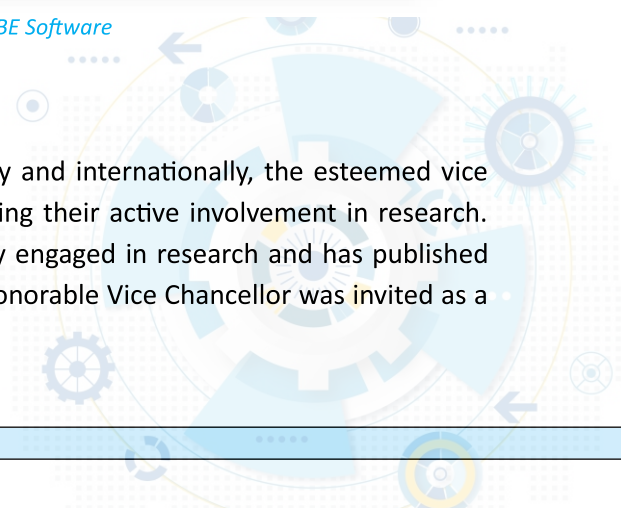
NTC Program Evaluators Training was organized on 29th May 2023 at University of Technology (UoT) Nowshera.



Interactive Hands-on Training Session on QOBE Software

Research Contributions

With the aim of improving the university's standing both nationally and internationally, the esteemed vice chancellor has issued a directive to all faculty members, emphasizing their active involvement in research. During his tenure, the honorable Vice Chancellor remained actively engaged in research and has published three research articles in well reputed journals. Furthermore, the honorable Vice Chancellor was invited as a





guest speaker about “In-situ Structural Health Monitoring of Composite Materials by Piezoresistive Nano Sensor” at 19th IBCAST, held in Murree, on 16-20 August 2022. Furthermore, he was also invited to Nanjing University of Aeronautics and Astronautics, China in July-Aug 2023 as foreign expert. During his visit, he delivered a series of lectures and wrote a research proposal on thermal protection of spacecraft using wirelessly connected graphene dioxide coated nano sensors. List of publications (appendix-B) authored by the honorable Vice Chancellor and faculty members of UoT, Nowshera, demonstrates the commitment and progress in this regard.



Vice Chancellor, UoT, Nowshera Visited Nanjing University of Aeronautics and Astronautics, China on Foreign Faculty Expert Program in Summer 2023.



Prof. Dr. Zaffar M. Khan, Vice Chancellor UoT, Nowshera along with Prof. Zhaofeng Chen, and Faculty at Nanjing University of Aeronautics & Astronautics, China.





Prof. Dr. Zaffar M. Khan, Vice Chancellor UoT, Nowshera, presenting university shield to Prof. Zhaofeng Chen, Head of Department, Nanjing University of Aeronautics & Astronautics, China.





EXAMINATION



Examination Section



Mr. Muhammad Uzair Khan
Deputy Controller of Examinations

The examination section in a university serves as a window into the institution's academic operations, assessment practices, and educational impact. It is a means to demonstrate accountability, transparency, and a commitment to providing quality education and fostering student success. Under the esteemed guidance of the honorable Vice Chancellor and through the diligent efforts of the dedicated team of the examination section, the following significant milestones have been accomplished:

Inaugural Convocation of the University of Technology Nowshera

The First convocation of the University of Technology, Nowshera was a momentous occasion, held in the Convocation Hall of University of Peshawar on June 26, 2023, celebrating the academic achievements of 285 graduates (details given in table below) who were awarded degrees of Bachelor of Science in Engineering Technology Programs. Additionally, 14 outstanding students were honored with prestigious gold medals in recognition of their exceptional academic performance. Haji Ghulam Ali, the Governor of Khyber Pakhtunkhwa, graced the event as the distinguished chief guest. His presence at the ceremony was marked by an impactful address in which he lauded the university for its unwavering dedication to advancing knowledge and fostering innovation. This convocation not only marked a significant milestone in the lives of the graduates but also underscored the university's dedication to academic excellence and its role in shaping the future of our society.

Department	Batches Graduated	No. of Graduates
Civil Engineering Technology	3	77
Electrical Engineering Technology	3	64
Electronics Engineering Technology	3	27
Energy Engineering Technology	1	27
Information Engineering Technology	1	18
Mechanical Engineering Technology	3	61
Total	14	285

Degree and Transcript Verification by HEC

The university has achieved a significant milestone as Higher Education Commission of Pakistan has attested and verified of degrees and transcripts. This accomplishment is a testament to the institution's unwavering commitment to ensuring the authenticity and credibility of academic qualifications awarded to its graduates. With this milestone, the university can offer its students and alumni the assurance that their academic qualifications are not only valid but also recognized and respected on a national level. This recognition by the Higher Education Commission serves as a powerful endorsement of the university's academic programs and the quality of education it provides.

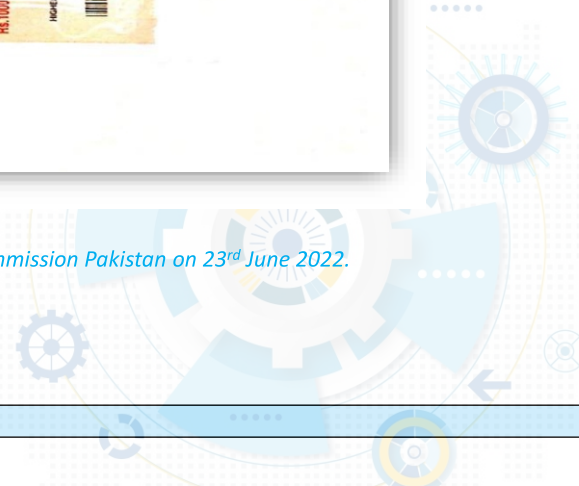




Moreover, this achievement contributes to the institution's competitiveness and standing within the education sector, solidifying its reputation as an institution that prioritizes academic rigor, transparency, and accountability. It also serves as a valuable resource for employers, academic institutions, and other entities that require assurance regarding the academic credentials of individuals associated with the university.



First degree issued by UoT, Nowshera and verified by Higher Education Commission Pakistan on 23rd June 2022.





One Window Facilitation Point

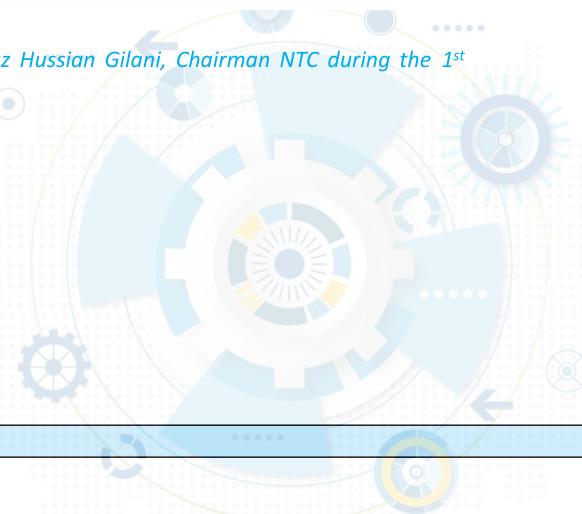
The introduction of a One-Window Facilitation Point at our university has yielded substantial benefits for our students. This centralized hub has simplified their interactions with administrative and academic services, providing a convenient one-stop solution for inquiries related to registration, academic records, and financial assistance. This initiative has enhanced efficiency, reduced processing times, and eased the burden of administrative procedures for our students. Consequently, they can now allocate more of their time and energy to academic and personal development. This innovation underscores our dedication to creating a more student-centric and efficient university experience.

Initiation of the Affiliation Process

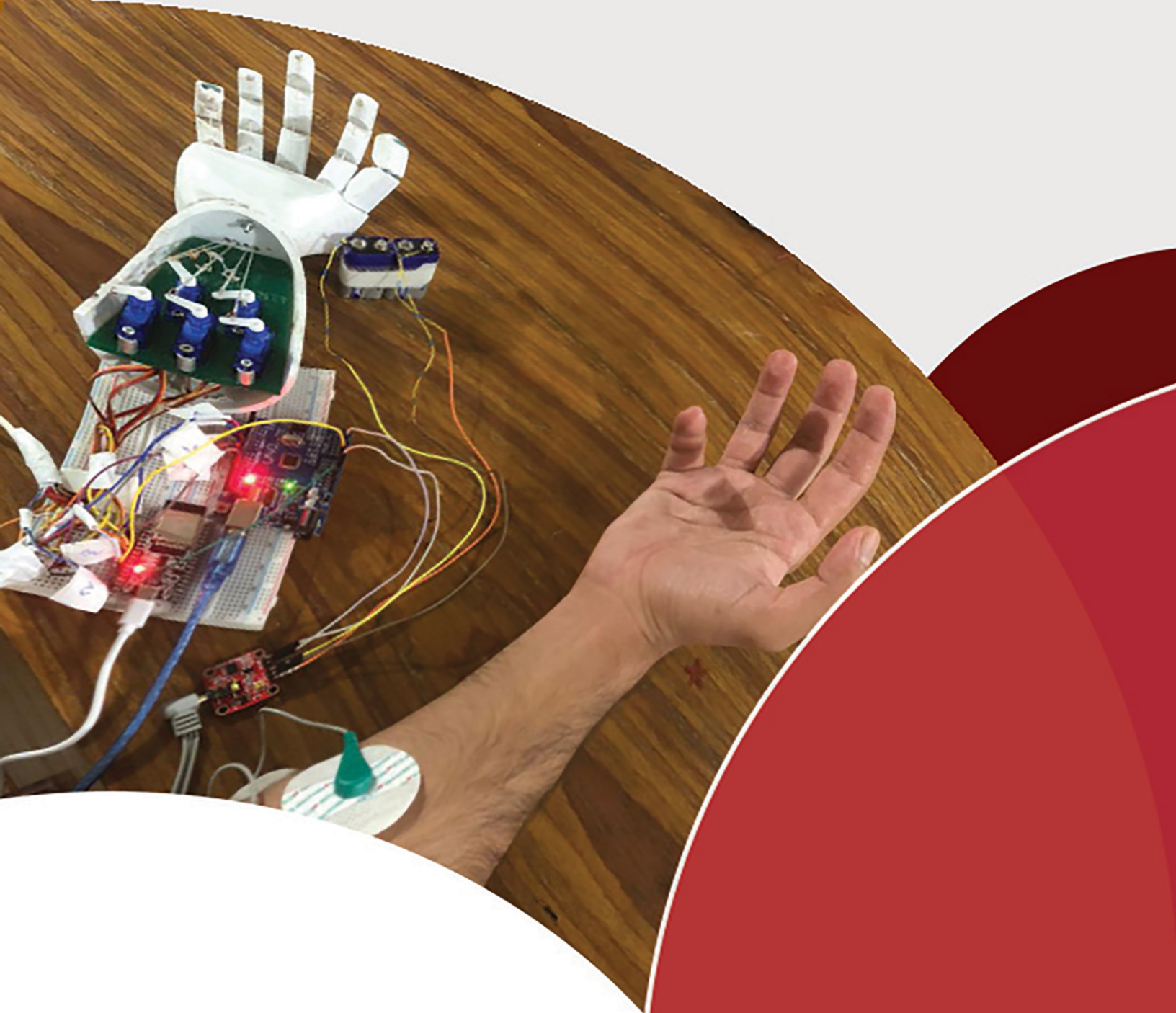
The commencement of the affiliation process for technical colleges marks a significant step taken by the UOT. This initiative not only expands the university's educational influence but also plays a pivotal role in fostering and advancing the quality of technical education within the region. By extending its affiliation to technical colleges, the university is contributing to the enhancement of technical education standards, facilitating increased accessibility to such programs, and fortifying its commitment to serving the educational needs of a wider demographic. This endeavor also cultivates a mutually beneficial relationship, wherein technical colleges gain access to the university's resources and expertise, and the university, in turn, expands its educational footprint, reinforcing its dedication to academic excellence and community development.



Honourable Governor KP, Mr. Haji Ghulam Ali presenting shield to Engr. Syed Imtiaz Hussian Gilani, Chairman NTC during the 1st convocation of UoT, Nowshera







ORIC



Office of the Research, Innovation and Commercialization (ORIC)



Dr. Muhammad Bilal
Additional Director ORIC

The establishment of Office of the Research, Innovation and Commercialization at UoT, Nowshera marks a significant milestone in our commitment to fostering a culture of innovation, knowledge creation, and industry collaboration. This office, designed to serve as a dynamic hub for research activities and the transfer of academic knowledge into practical applications, represents our unwavering dedication to advancing the frontiers of research, technology, and entrepreneurship.

ORIC Vision

ORIC vision is to promote entrepreneurial cultural in UoT, Nowshera by transferring students innovative research from classroom to market through commercialization.

ORIC Mission

The above vision is achieved by promotion of applied research in coordination with industries through triple helix program. This will lead to formation of business proposal, students/faculty startup, establish small and medium business in coordination with potential investors.



KP Caretaker Minister for Commerce and Technical Education Adnan Jalil visited UoT, Nowshera on 14th June 2023 and inaugurated the ORIC block.





ORIC Objectives

- To cater and manage multi-disciplinary research grants as per the need of the society.
- To manage national & international internships for graduates.
- To link academia with Industry and promote entrepreneurship.
- To engage with the community through exhibitions, seminars, and workshops.
- To facilitate interim placements and engage faculty through various academic activities.
- To share knowledge and technology transfer through faculty exchange programs.
- Establish student / faculty startup.
- Formation of an effective business plan.
- Participation in national / international innovative competition
- Organizing innovative exhibition of UoT
- ORIC's Research and Innovation Block
- Business Incubation Center

ORIC's Research and Innovation Block

Business Incubation Center

Within the Research and Innovation Block, a Business Incubation Center has been established that offers faculty members and students the opportunity to launch spin-off companies designed to foster entrepreneurial ventures within the university. Moreover, a dedicated meeting room is at the disposal of faculty members and students to facilitate the exchange of business ideas and collaborative discussions. Additionally, a project display room has been designated for showcasing tangible products created by the esteemed faculty and students at UoT. This room serves as a platform to exhibit the innovative projects and achievements stemming from our academic community.

Technology Development Lab

The Research and Innovation block also includes a Technology Development Lab, managed by a team of experienced faculty members. This lab provides essential support for the inception and growth of novel product innovations.

Industrial Liaison Office

UoT has established an Industrial Liaison Office (ILO) as an integral component of its ORIC. The primary objective of this office is to enhance student experiences by offering internships and job placement opportunities. Additionally, it coordinates and facilitates industrial visits for students throughout their academic programs. This initiative aims to bridge the gap between academia and industry, providing valuable real-world exposure and career prospects for our students.

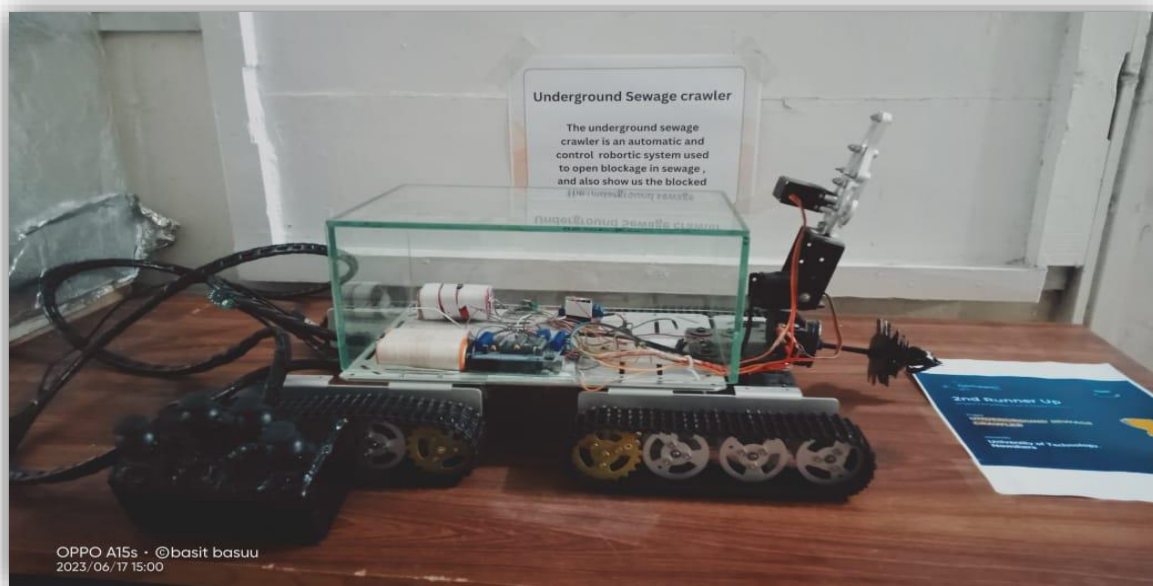
Funded Projects

IGNITE prioritizes the advancement of fourth industrial wave technologies and ecosystem development as part of its mission to establish a knowledge-based economy in Pakistan. Through its extensive network of national incubators, IGNITE provides support to startups, and tech innovation grants are available for pioneering deep tech projects and startups. ORIC of University of Technology (UoT) strongly encourages UoT students to seek these funding opportunities to further develop their conceptual models. UoT has achieved notable success in securing funding for the following projects:





S.No	Project Title	Department	Supervisor	Funding Amount in PKR
1	Advance Intelligent Home Assistant System Using IoT	Information Engineering Technology	Dr. Muhammad Bilal	84,200
2	Design and development of a lightweight 3D printer with a controlled heating Mechanism'	Electronics Engineering Technology	Dr. Haider Ali	72,360
3	'Underground sewage crawler'	Electrical Engineering Technology	Dr. Saad Ijaz Majid	76,140
4	'Road side battery charging system for street lights'	Electrical Engineering Technology	Engr. Muhammad Uzair	81,180
5	Design and Prototyping of a Energy Efficient Eggs Incubator	Electrical Engineering Technology	Dr. Haider Ali	81,060
6	RFID and finger print (biometric) based attendance system'	Electronics Engineering Technology	Engr. Dawar Awan	72,690
7	Design and implementation of solar and wind based portable mobile/laptop charging unit	Electrical Engineering Technology	Engr. Naveed ur Rehman	69,660



Underground Sewage Crawler: 2nd runner-up in Computer Project Exhibition and Competition 2023.





Patient Lifting Machine: 1st runner-up in Computer Project Exhibition and Competition 2023.

Roadside Hybrid Battery Charging system: Winning the city level competition in Natural Resource category at National Idea Bank 2022.

Year 2023				
S.No	Project Title	Department	Supervisor	Funding Amount In PKR
1	Design of Dual Mode Electric Bicycle	Electrical Engineering Technology	Engr. Saadia Tabassum	86,410
2	Detecting the Undetectable; A New Approach to the Blind Spot Detection for Trucks and Buses	Electrical Engineering Technology	Engr. Muhammad Uzair Khan	80,780
3	CNC Milling Machine	Mechanical Engineering Technology	Engr. Haroon Akhtar	76,200
4	SMS based gas Leakage Detection and Prevention System	Electrical Engineering Technology	Dr. Haider Ali	76,480



5	Patient Lifting Wheel Chair	Mechanical Engineering Technology	Engr. Haroon Akhtar	64,300
6	Automatic Product Sorting Machine	Electronics Engineering Technology	Engr. M. Israr	80,000
7	SU-27 RC Plane	Electronics Engineering Technology	Dr. Haider Ali	83,190
8	Ventilator Using Arduino with Blood Oxygen Level	Electronics Engineering Technology	Dr. Haider Ali	81,000
9	Design and Development of a Robotic Hand Using EMG Signals	Electrical Engineering Technology	Engr. Muhammad Zia	79,750
10	A Deep Learning Model for Bone and Fracture Detection and Classification	Information Engineering Technology	Dr. Abid Haider	73,479
11	Designing and Developing a Bionic Arm for Surgeons to Perform Tele Surgery Precisely	Electrical Engineering Technology	Engr. M. Zia	81,750
12	IoT Smart Plant Monitoring System Smart Irrigation	Information Engineering Technology	Dr. M. Bilal	74,600

Hosting NAVTTC Short Courses

The Prime Minister's Youth Skill Development Program (PMYSDP) has been launched with the overarching goal of enhancing the quality of technical and vocational education and training (TVET). This initiative seeks to equip young individuals with both traditional and cutting-edge skills that are in demand within the job market. Considering the technical expertise of its faculty members and keeping in view the market demands of the country, UoT has completed the training of two batches in short courses on graphic design, web development, Android application development and Programmable Logic Controller (PLC). Students who have successfully completed these courses are now positively playing their role in shaping the economy of the country.

Activity Calendar

ORIC at UoT undertakes a range of initiatives across the academic calendar with the objective of equipping its students for leadership and entrepreneurial responsibilities. These activities include the regular organization of workshops and seminars that foster relevant skills and knowledge. Moreover, the university has established collaborative relationships through Memorandums of Understanding (MoUs) with a variety of organizations, reflecting its commitment to strengthening industrial connections and partnerships. UoT remains actively engaged in expanding and enhancing these relationships.



Certificate awarding ceremony of Prime Minister Youth Skill Development Program held at UoT, Nowshera

ORIC's role extends beyond just technical proficiency. It also encompasses a holistic approach to student development, including initiatives aimed at promoting the physical and mental well-being of its student body. Through these multifaceted efforts, ORIC actively guides students to achieve both high technical standards and a well-rounded state of physical and mental health. List of activities performed under the umbrella of ORIC at UoT are given in the table given below:

- MoU with ITAP
- Seminar on Aspire Leadership Program
- Seminar on Connecting Student with Tech Companies
- Seminar on Industrial Health and Safety
- Plantation Drive (GYM CLUB)
- SCIE-TECH 2023
- MoU with Nowshera Chambers of Commerce
- Energy Conversation Drive (GYM CLUB)
- Awareness Session on Renewable Energy (GYM CLUB)
- Awareness Session Energy Conservation (GYM CLUB)
- Plantation Drive (GYM CLUB)
- Students Visit to KPITB-IT Park Peshawar

IEEE UoT, Nowshera Student Branch

IEEE UoT, Nowshera Student Branch, established in June 2022, is the first student branch for Engineering Technology Program in Khyber Pakhtunkhwa. It has successfully organized/collaborated NCRC curriculum review meetings, Scie-Tech 2023, trainings on PLCs and Arduino, and project poster competitions. The branch has 25 student members and 4 faculty members. The President of Student is Engr. Shahab Khan and the student's Counselor is Engr. Muhammad Uzair Khan.





Engr. Muhammad Uzair Khan
Students Counselor



Mr. Shahab
Chair



Mr. Amir Sohail
Treasurer



Mr. Aqib
Secretary

Members of the IEEE UoT, Nowshera Student Branch.



Vice Chancellor UOT signed an MoU with President Nowshera Chamber of Commerce for industry and academia linkages.

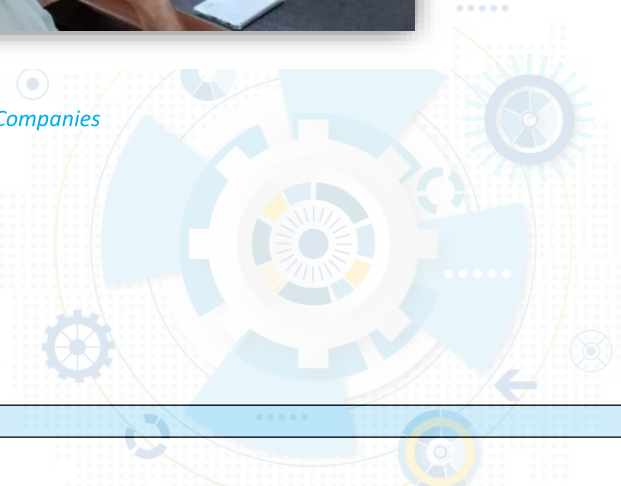




Seminar on Aspire Leadership Program



Seminar on Connecting Students with Tech Companies

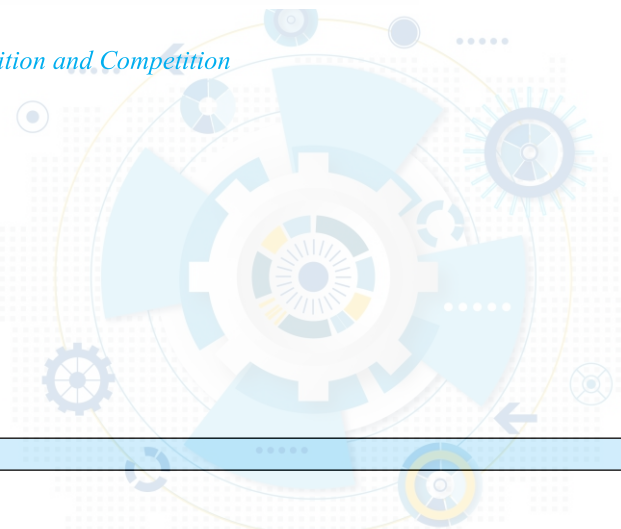




Seminar on Poster Competition and Energy Conservation



Students Receiving Awards at Computer Project Exhibition and Competition





Students Receiving Awards at Computer Project Exhibition and Competition





WORKS DEPARTMENT



Works Department



Engr. Shah Room
Deputy Director Works

The University Work Department plays a central role in the daily operations and infrastructure management, ensuring a seamless and conducive environment for teaching, learning, research, and administrative functions. As a critical component of our university's administrative framework, this department is responsible for the planning, development, and maintenance of the physical infrastructure, utilities, and support services that underpin our academic and operational excellence. List of the projects, and achievements of the University Work Department over the past years is given below, highlighting the critical role it plays in preserving the university's overall functionality and vitality.

Land Acquisition

- Successfully acquired a substantial 610 Kanals of land from the district government Nowshera for the university's main campus, strategically situated in close proximity to the Rashakai Special Economic Zone, an industrial hub adjacent along the M-1 motorway.
- Installed concrete posts along the boundaries of the acquired land to demarcate and secure the premises.
- Erection of a prominent University display board, serving as a visual identifier and information source for the campus.



Honourable Governor, Khyber Pakhtunkhwa, Mr. Haji Ghulam Ali laid the foundation stone for the new site for the main campus of University of Technology, Nowshera near Karnal Sher Khan Interchange on motorway M-1.





Examination Section

- Completed the construction of two dedicated offices within the Examination Section, enhancing administrative infrastructure.
- Performed distempering and weather coating of office walls to ensure a conducive and professional work environment.

ORIC (Office of Research, Innovation, and Commercialization)

- Successfully constructed two new offices within the ORIC department, reinforcing its operational capacity.
- Undertook extensive repair and renovation work in three rooms, rejuvenating the infrastructure for research and innovation activities.



Library

- Constructed a specialized digital library section, complete with custom-designed furniture, partition walls, and suitable fittings to facilitate the university community.
- Established a dedicated photocopy cabin for the convenience of students and faculty.
- Installed bookshelves and an award wall, optimizing the storage and display of library resources.
- Conducted essential roof treatment and paintwork to maintain the library's structural integrity.

Audio-Video Conference Room

- Revamped the audio-video conference room by installing new flooring tiles for a refined appearance.
- Added wall panels and a false ceiling, enhancing the room's acoustic and aesthetic qualities.
- Replaced old doors and windows to improve insulation and security.
- Performed weather coating of the room's walls for an overall refreshed look.



Audio-Video Conference Room





Laboratories

- Renovated laboratories for three departments, modernizing the facilities for advanced research and practical work.
- Installed false ceilings in one of the laboratories to improve lighting and insulation.

Canteen

- Constructed a staff room to provide a comfortable workspace for staff.
- Installed durable granite flooring in the canteen area, ensuring a hygienic and appealing dining environment.
- Built kitchen cabinets to enhance food preparation and storage facilities.
- Undertook a comprehensive renovation of the canteen to create an inviting space for the university community.

Gym

- Installed plush floor carpeting within the gym area, creating a comfortable and safe workout environment.
- Added mirrors and window curtains to enhance the gym's functionality and ambiance.

Day Care

- Constructed a dedicated washroom to facilitate the needs of the day care center.
- Installed floor carpeting for a cozy and child-friendly atmosphere.
- Conducted renovations within the day care center, ensuring a conducive environment for young children.



Gymnasium for healthy activities of students.

Nursery & Garden House

- Installation of an efficient steel stand with green cloth, optimizing the nursery and garden house for plant cultivation.
- Constructed a wooden door and installed barbed wire for security and access control.





- Added nine spacious garden benches to provide seating for visitors and enhance the garden area's utility.

Construction of Monument Wall

- Successfully completed the construction of a monument wall dedicated to the shuhada of Army Public School, paying homage to the sacrifices of those individuals who were martyred in the incident.

Administration Block

- Improved the aesthetics and functionality of the administration block by grinding and polishing the floors.
- Conducted distempering and weather coating of walls to maintain a professional and welcoming atmosphere.
- Erected a "Wall of Honour" to acknowledge and celebrate significant contributions.



Monument established to commemorate the Shuhada of Army Public School incident 2014.





PLANNING & DEVELOPMENT



Planning and Development Section



Mr. Muhammad Lais
Deputy Director P&D

The Planning & Development section is entrusted with the responsibility of evaluating both the present and future requisites for physical infrastructure, academic resources, and human resources, and subsequently devising strategic plans. Under the supervision and leadership of Prof. Dr. Zafar M. Khan, the Vice Chancellor of the University of Technology Nowshera, and in collaboration with the university's statutory bodies, the Planning and Development section operates. This department is managed by a Deputy Director (P&D) and is supported by a dedicated ministerial staff. The Planning & Development section has made substantial contributions to the growth and advancement of the University of Technology Nowshera across various sectors, as outlined below:



Commissioner Peshawar and DC Nowshera awarding letter pertaining to the acquisition of land for university main campus.

Acquisition of Land for University Main Campus

The Provincial Government has displayed generosity by allocating land measuring 610 Kanals near the Karnal Sher Khan Interchange in District Nowshera for the establishment of the University's main campus. The acquisition of this land was successfully completed, with the award notification being issued in June 2023. Subsequently, the Provincial Government has made the required payment to the District Officer (Revenue and Estate) in Nowshera, who will further disburse it to the landowners. Detailed plans for infrastructure, construction, and related facilities have been solidified. The construction work, beginning with the boundary

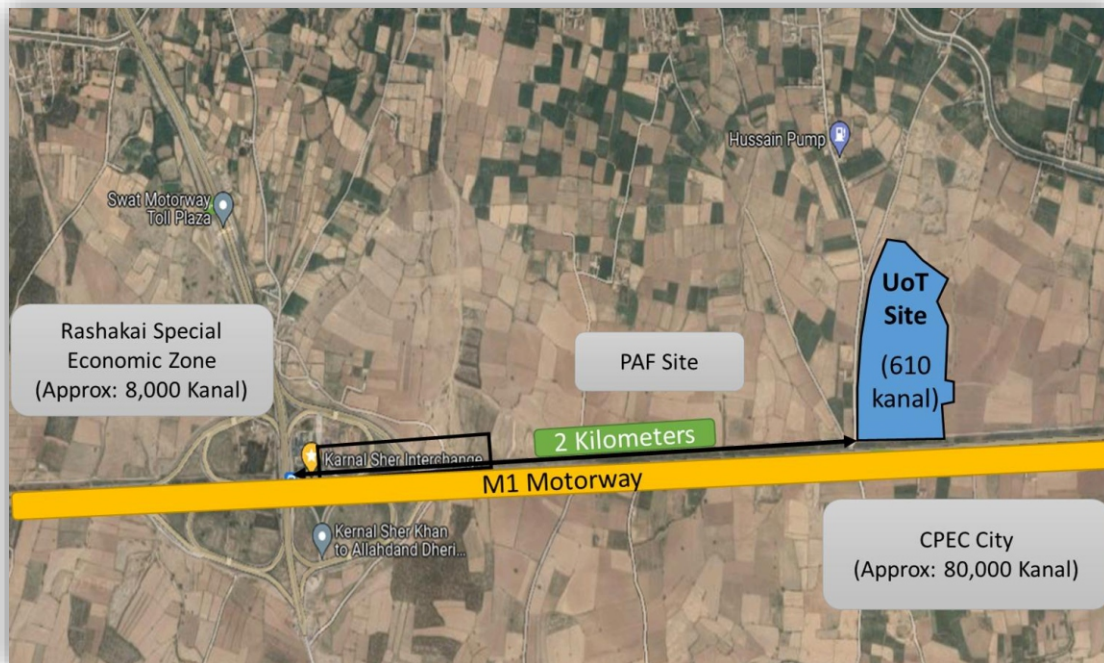




and site office, will commence shortly after the commitment of funding, which amounts to Rs. 220 million for Phase-I from the Provincial Government and Rs. 5,300 million for Phase-II from the Federal Government through the Higher Education Commission (HEC). This development will be carried out under the diligent supervision of the Planning & Development Department.



Honourable Governor KP, Mr. Haji Ghulam Ali, alongside key dignitaries, including caretaker Minister of Khyber Pakhtunkhwa for Industries, Commerce and Technical Education, the Vice Chancellor of the University of Technology Nowshera, Chairman of the NTC, Vice Chancellor of the University of Swabi, and the Rector of Pak-Austria Fachhochschule Institute of Applied Sciences and Technology, during the groundbreaking ceremony for the new site of UoT, Nowshera.



New site of UoT, Nowshera near Rashakae Special Economic Zone on Motoryway M1





PC-1 Revision

The P&D Department achieved a remarkable milestone by revising the PC-1 and updating its specifications to precisely align with the needs and aspirations of the university. This substantial revision encompassed a thorough reassessment of the project's parameters, encompassing essential adjustments to the project's scope, budget, and projected timeline. Furthermore, the department extended the lifespan of the PC-1, fortifying its utility until 2023, allowing for a more comprehensive planning horizon.

PSDP PC-1

The P&D Section has made remarkable progress by successfully submitting the PSDP PC-1. This crucial submission pertains to the comprehensive infrastructure development of the university. The approval is pending until the procurement of land is finalized.

Establishment of Labs

The P&D Department reached another significant milestone by nearly completing a procurement of 200 million rupees for the establishment and development of state-of-the-art labs and workshops. This has enhanced the laboratory infrastructure and resources of the civil, electrical, electronics, and mechanical departments. In addition, the procurement of remaining lab equipment worth Rs. 250 million is in process.



Steam Power Plant



Universal Testing Machine





Fluid Mechanics Lab



Circuit Analysis Lab.





IT SECTION

IT Section



Mr. Wajid Ali Taj
System Administrator

Information technology (IT) plays a pivotal role in modern educational institutions, and its significance within a university's infrastructure cannot be overstated. The IT section is often considered the heart and soul of the university, responsible for an array of critical services and support systems, including internet provision, email communication, network management, learning management systems, technical troubleshooting, IT support, and skill development programs that empower students and faculty with essential technological competencies. In this context, the University of Technology Nowshera recognizes the central importance of IT services in enabling academic excellence and innovation.

Advancements in the IT Department

Upon assuming the role as the second Vice Chancellor of the University of Technology Nowshera, Professor Dr. Zaffar M. Khan undertook a series of significant initiatives aimed at bolstering the university's IT infrastructure and services. These advancements are listed below:

Enhancing Internet Speed

The university's internet connectivity has been increased from 16 Mbps to a commendable 60 Mbps. Furthermore, the university gained access to a high-speed 25 Mbps HEC PERN Internet, ensuring efficient online operations.

Expanding Fiber Internet Connectivity

The administration spearheaded the expansion of fiber internet connectivity, offering this service to the university's staff, student hostels, and the University guest house. This expansion aimed at ensuring seamless internet access for the entire university community.

Server Room Modernization

A critical facet of the IT infrastructure, the server room was established to ensure the reliability and efficiency of digital operations.

Access to HEC Digital Library and PERN2 Connectivity

The university gained access to the Higher Education Commission (HEC) digital library, providing students and faculty with a wealth of academic resources. Additionally, HEC PERN2 connectivity was established, facilitating fast and reliable network access.

Free Microsoft Licenses

To empower faculty, students, and staff, free Microsoft licenses were provided, enabling access to essential software tools for academic and administrative purposes.



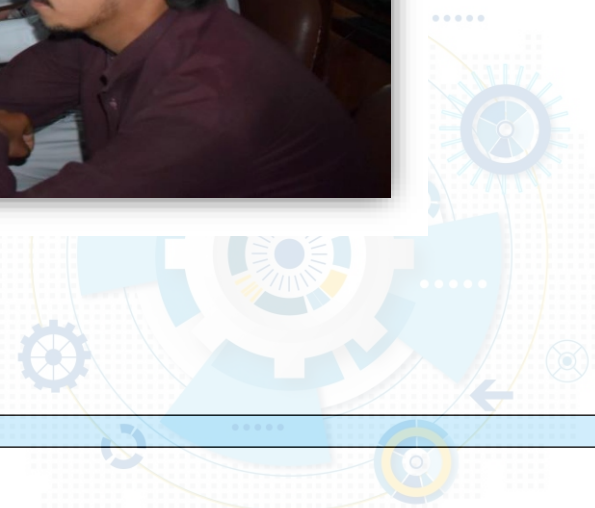
Land Acquisition meeting and Inauguration of HEC PERN at UoT, Nowshera

Technological Upgrades

To enhance online instruction and support academic activities, several key upgrades were made. These included the provision of digital writing pads for faculty, the acquisition of a cutting-edge computer equipped with an Intel Core i7 10th Generation processor and a 4GB graphics card for the library, the deployment of 5G access points for high-speed internet connectivity, and the installation of a new firewall for robust network monitoring.



Computer Lab





Laboratory Equipment

The university acquired 124 state-of-the-art computers with Intel Core i7 11th Generation processors and 4GB graphics cards for the Departments of Information Engineering Technology, Electrical Engineering Technology and Electronics Engineering Technology.

Enhanced Security Measures

In line with the commitment to ensuring the safety of its students, faculty, and staff, the University of Technology Nowshera strategically installed Closed-Circuit Television (CCTV) cameras across the campus. These surveillance cameras play a vital role in monitoring the university premises, reinforcing the institution's dedication to a safe and secure learning environment.





LIBRARY



Library



Mr. Asifullah
Incharge Library

The university library, a cornerstone of academia, plays an important role in the dissemination of high-quality education across all sectors of learning. It is within this sanctum of knowledge that students and scholars alike embark on their intellectual journeys, and thus, the importance of optimizing the library's infrastructure and resources cannot be overstated. This narrative unfolds with the assumption of leadership by our distinguished Vice Chancellor, Prof. Dr. Zaffar M. Khan, in December 2020, who swiftly ushered in a series of transformative initiatives at UoT's library, signifying the institution's unwavering commitment to advancing education and enhancing the student experience.



Central Library of UoT, Nowshera

The first notable enhancement is the significant extension of the library's operational hours, a testament to the evolving demands of modern education. The previous schedule, limited from 9:00 AM to 4:00 PM, has now been broadened to accommodate the dynamic schedules of students, spanning from 9:00 AM to 11:00 PM. This extension not only fosters flexibility but also caters to diverse learning preferences and time constraints, thereby promoting a more accessible and inclusive environment for academic exploration. In parallel, a substantial investment was made to enrich the library's collection, with the procurement of nearly 1500 new books and magazines. These additions were thoughtfully curated to provide students with the latest and most pertinent learning materials. By expanding the library's collection, UoT underscores its dedication to ensuring





that its students have access to a rich and diversified knowledge base, reinforcing its role as an institution committed to providing students with the tools and resources for academic success.

Additionally, a fundamental improvement in the library's physical infrastructure was the installation of an air conditioning system, enhancing the ambient conditions and ensuring that students can comfortably engage in their studies. This not only speaks to the institution's commitment to the well-being of its students but also fosters an environment conducive to concentration and learning. To regulate the library's temperature, five vertical curtains were thoughtfully hung before the windows, contributing to temperature control and the comfort of library users. This attention to detail ensures that the environment remains conducive to concentration and productivity.

To further improve the learning environment, a false ceiling was installed, and a proper lighting system was introduced, illuminating the library and creating an environment that is conducive to focused study and research. These improvements go a long way in creating a space that inspires intellectual growth and exploration. In addition to the mentioned advancements, the library's infrastructure saw the provision of fifteen new bookshelves, fostering organized accessibility to knowledge resources, and a glass cupboard was installed for the librarian to efficiently maintain records and facilitate the ease of access for library users.

Communication within the academic community was facilitated by the installation of a Notice Board, which serves as a platform for disseminating critical information and administrative decisions, ensuring that students are kept well-informed regarding university matters of significance. Safety measures were further improved by the provision of fire extinguishers, reinforcing the library's readiness to respond to unforeseen incidents, and guaranteeing the well-being of its users. Embracing the digital age, the university also initiated a Digital Library, with the establishment of a computer section equipped with six new computers and internet connectivity. This transformation empowers students to access a wealth of digital resources, thus broadening the horizons of their research and learning capabilities.



A section of UoT 's Library dedicated to accessing the digital library services.





The series of initiatives undertaken by our esteemed Vice Chancellor underscore the central role of the library in the university setting. These far-reaching improvements not only enhance the accessibility, security, and comfort of the library but also highlights UoT dedication to equipping its students with the resources and infrastructure required to thrive academically.



Commissioner Peshawar Mr. Zubair Khan Inaugurating the Digital Library





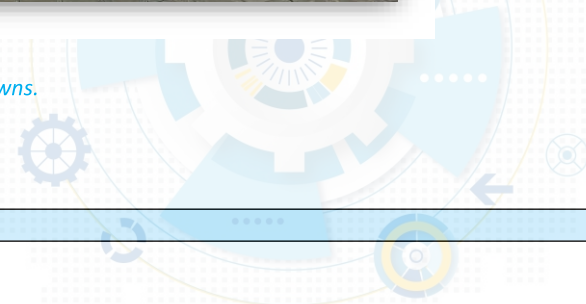
A Glance of UoT, Nowshera



Administration Block



Picturesque of the university lush green lawns.

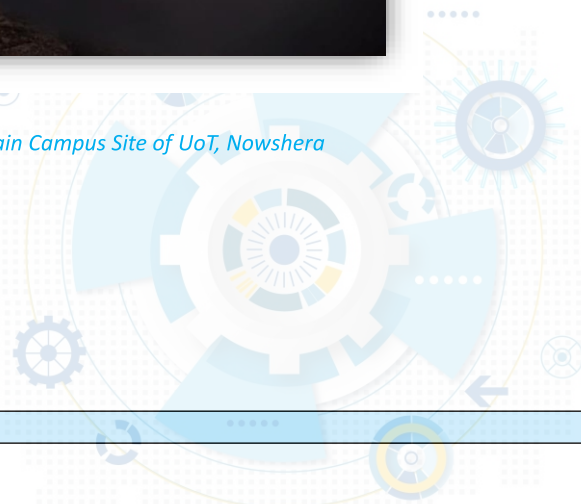




A group photo of Prof. Dr. Zaffar M. Khan, Vice Chancellor, UoT, Nowshera along with the faculty members and administrative staff of the university.



Governor Khyber Pakhtunkhwa Mr. Haji Ghulam Ali Planting a Tree at Main Campus Site of UoT, Nowshera





Prof. Dr. Zaffar M. Khan, the Vice Chancellor of the University of Technology Nowshera, graciously accepting a university souvenir from Prof. Dr. Muhammad Idrees, the Vice Chancellor of the University of Peshawar, in a distinguished moment of academic exchange and collaboration



Life at UoT, Nowshera



Students at Computer Lab.



Students Reading Books and Magazines in the Central Library.

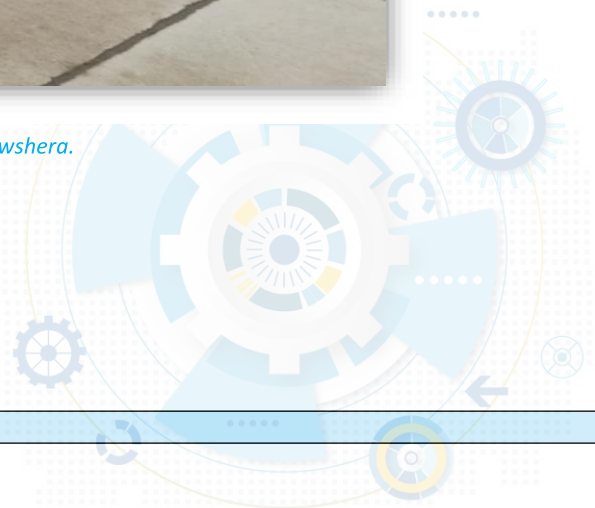




Participation of students of UoT, Nowshera in KP Intersarsity Games



Celebration of anti-corruption week at UoT, Nowshera.





Grand Annual Night



Musical night arranged at UoT, Nowshera

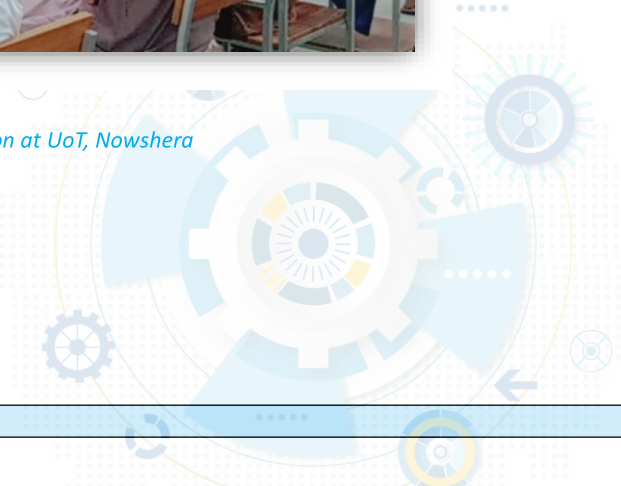




Training workshop in collaboration with Empowerment Thru Creative Integration (ECI) Pvt Ltd on “Civic Education and Social Action Drives” funded by UNDP.



Blood donation camp organized by Fatimid Foundation at UoT, Nowshera





Students of UoT, Nowshera participated in Kamyab Jawan Sports Gala



Students actively participating in fitness routines at the gymnasium.





Appendix-A

Notable Alumni



Wasee Ullah
Khan Research Laboratories



Basit Ali
NESCOM



Azhar Azam
Military Engineering Services



Noor Ali
Frontier Works Organization



Sahar Gul
NESPAK



Qasim Rashid
C&W



Adnan Nazir
Pakistan Navy



Waqar Ahmad
PESCO



Salman Khan
WAPDA



Ihtisham ul Haq
PAC Kamra



Nizam Ullah
PEDO



Amir Sohail
CISNR, UET Peshawar





Saifullah
Fauji Cement Factory



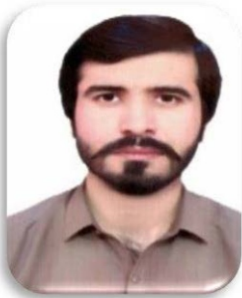
Ubaid ur Rehman
K-Electric



Muhammad Rahman
PTCL



Muhammad Atif
NanoArth Green Energy



Imran Ullah Khan
Northwest General Hospital



Mustansar Hussain Shah
Zon



Saeed Ali
Hyundai Nishat Motor Pvt. Ltd



Roohullah
ED Energy Pvt. Ltd



Subhan Ullah
Green Wind Energy Pvt. Ltd.



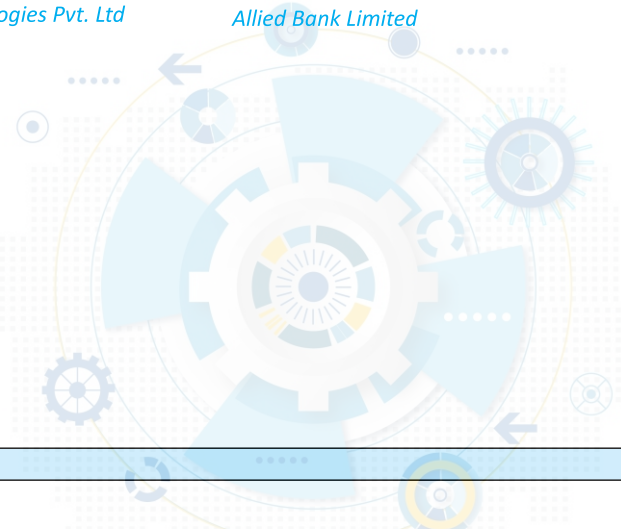
Asad Khan
Code Packard Software House



Muhammad Aesa Khan
Zeta Technologies Pvt. Ltd



Nomanullah
Allied Bank Limited





Appendix-B

List of Publications in HEC Recognized Journals

S.No.	Title of Research Article	Authors	Name of the Journal	Category of the Journal
1	Electrospun nanofibrous yarn based piezoresistive flexible strain sensor for human motion detection and speech recognition	Sheraz Ahmed, Saad Nauman, Zaffar Muhammad Khan	Journal of Thermoplastic Composite Materials	X
2	GO-modified P(VDF-TrFE) fibrous membrane for humidity sensing applications in vacuum insulation panels	Asim Shahzad, Zhaofeng Chen, Azhar Ali Haidry, Lixia Yang, Ahmar Mehmood, Zaffar M.Khan	Materials Letter	W
3	Performance evaluation of glass wool core VIPs and silica-fly ash core VIPs	Asim Shahzad, Zhaofeng Chen, Zaffar M Khan , Desire Emefa Awuye	Journal of Building Physics	W
4	Mechanical & microstructural properties of self-compacting concrete by partial replacement of cement with marble powder and sand with rice husk ash	Shahid Iqbal, Muhammad Zaheer, Shah Room	The Sciencetech	Y
5	Effect of Brick Powder and Stone Dust on Mechanical Properties of Self-Compacting Concrete	Shahid Iqbal, Muhammad Arslan, Shah Room, Khalid Mahmood	The Sciencetech	Y
6	Investigating Optimal Confinement Behaviour of Low-Strength Concrete through Quantitative and Analytical Approaches	Mujahid Ali, Sheraz Abbas, Bashir Salah, Javed Akhter, Waqas Saleem, Sani Haruna, Shah Room, and Isyaka Abdulkadir	Materials	W



7	Value added usage of granular steel slag and milled glass in concrete production	Sajjad Ali, Shahid Iqbal, Shah Room, Ahsan Ali, and Zia Ur Rahman	Journal of Engineering Research	Y
8	Assessment of Local Earthen Bricks in Perspective of Physical and Mechanical Properties Using Geographical Information System In Peshawar Pakistan	Mujahid Ali, Shah Room, Muhammad Imran, Faisal Masood, Rizwan Ali, Razaullah Khan, and Abdul Muhaimin	Structures	W
9	A Trade-off Analysis of Economic and Environmental Aspects of a Disruption Based Closed-Loop Supply Chain Network	Abdul Salam Khan, Catalin Iulian Pruncu, Razaullah Khan, Khawar Naeem, Abdul Ghaffar, Pakeeza Ashraf, and Shah Room	Sustainability	W
10	An Experimental Study of Bond Behavior of Micro Steel Fibers Added Self-Compacting Concrete with Steel Reinforcement	Abdul Salam, Shah Room, Shahid Iqbal, Khalid Mahmood, and Qaiser Iqbal	Periodica Polytechnica Civil Engineering	W
11	Performance Evaluation of Self-Compacting Concrete Using Bagasse Ash and Granine as Partial Replacement of Cement and Sand	Shahid Iqbal, Muhammad Irshad, Shah Room, Khalid Mahmood, and Qaiser Iqbal	Technical Journal	Y
12	Bandwidth Enhancement and Generation of CP of Yagi-Uda-Shape Feed on a Rectangular DRA for 5G Applications	Bari, Inam, Javed Iqbal, Haider Ali, Abdul Rauf, Muhammad Bilal, Naveed Jan, Usman Illahi, Muhammad Arif, Muhammad Amir Khan, and Rania M. Ghoniem.	Micromachines	W
13	Performance and design comparison of moving-magnet linear oscillating actuators based on their mover positions	Khan, Mehtab, Adnan Daud Khan, Muhammad Jawad, Zahoor Ahmad, Naveed Ur Rehman, and Muhammad Israr	World Journal of Engineering	Y



14	Design and analysis of modular moving magnet linear oscillating actuator for compressor in refrigeration system	Ahmad, A., Ahmad, Z., Ullah, A., Rehman, N.U.U., Israr, M., Zia, M., Ali, H. and Rahmanood	World Journal of Engineering	Y
15	Four-Port MIMO Antenna System for 5G n79 band RF Devices	Ali, H.; Ren, X.-C.; Hashmi, A.M.; Anjum, M.R.; Bari, I.; Majid, S.I.; Jan, N.; Tareen, W.U.K.; Iqbal, A.; Khan, M.A.	Electronics	X
16	An Eight Element Dual Band Antenna for Future 5G Smartphones	Ali, H.; Ren, X.-C.; Hashmi, A.M.; Anjum, M.R.; Bari, I.; Majid, S.I.; Jan, N.; Tareen, W.U.K.; Iqbal, A.; Khan, M.A.	Electronics	X
17	Novel perovskite solar cell with Distributed Bragg Reflector	Farooq W, Tu S, Ali Kazmi SA, Rehman Su, Khan AD, Khan HA	PLoS ONE	W
18	Using an Efficient Technique Based on Dynamic Learning Period for Improving Delay in AI-Based Handover	Majid, S. I., Shah, S. W., Marwat, S. N. K., Hafeez, A., Ali, H., & Jan, N.	Mobile Information Systems	X
19	A Novel Shape Compact Antenna for Ultrawideband Applications	Saad Hassan Kiani, Xin Cheng Ren, Muhammad Rizwan Anjum, Khalid Mahmood, Haider Ali, Naveed Jan, Muhammad Adil Bashir, Muhammad Abbas Khan	International Journal of Antennas and Propagation	X
20	A Coordinated Charging Scheduling of Electric Vehicles Considering Optimal Charging Time for Network Power Loss Minimization	Usman, M.; Tareen, W.U.K.; Amin, A.; Ali, H.; Bari, I.; Sajid, M.; Seyedmahmoudian, M.; Stojcevski, A.; Mahmood, A.; Mekhilef, S.	Energies	W
21	Using an Efficient Technique Based on Dynamic Learning Period for Improving Delay in AI-Based Handover	Majid, S. I., Shah, S. W., Marwat, S. N. K., Hafeez, A., Ali, H., & Jan, N.	Mobile Information Systems	X



22	Orthogonal Frequency Division Multiple Access Passive Optical Network for 5G Deployment	Shah, P.M.A., S.S. Qureshi, R.A. Butt, H. Ali and S. Khan. 2021	Journal of Engineering and Applied Sciences	Y
23	Experimental Validation of Bulk-Graphene as a Thermoelectric Generator	Muhammad Uzair Khan, Amir Naveed, Syed Ehtisham Gillani, Dawar Awan, Muhammad Arif, Shaista Afridi, Muhammad Hamyun, Muhammad Asif, Saadia Tabassum, Muhammad Sadiq, Muhammad Lais, Muhammad Aslam, Saeed Ullah Jan and Zeeshan Ahad	Materials Research Express	X
24	Reconfigurable compact wideband circularly polarised dielectric resonator antenna for wireless applications	S. Khan, X. C. Ren, H. Ali, C. Tanougast, A. Rauf	Computers, Materials & Continua	W
25	Constraint Waveform Design for Spectrum Sharing Under Coexistence of Radar and Communication Systems	S. Mir, I. Bari, M. Kamal and H. Ali	IEEE Access	W
26	Analysis & Development of Automated System for On-Wafer Channel Thermal Measurement of RF Power Devices Using Ordinary Lab Instruments	A. Ali, H. Ali*, M. Pirola, J. Tong	Measurement	W
27	Rheology of hydro-magnetic polymeric material with heat generation/absorption and chemical reaction	Awais, M., Awan, S., Irum, S., Shoaib, M., Ali, H. and Raja, M.	Journal of the National Science Foundation of Sri Lanka	X
28	A Review of Optimal Charging Strategy for Electric Vehicles	Amin, A.; Tareen, W.U.K.; Usman, M.; Ali, H.; Bari, I.; Horan, B.;	Sustainability	W

	under Dynamic Pricing Schemes in the Distribution Charging Network	Mekhilef, S.; Asif, M.; Ahmed, S.; Mahmood, A		
29	Modeling and Simulation of Grid Synchronized DC Microgrid with Wind and Solar Resources	K Khan, A Basit, T Ahmad, H Ali, K Mahmood	Technical Journal	Y
30	Modular Design and Thermal Modeling Techniques for the Power Distribution Module (PDM) of a Micro Satellite	A. Ali, H. Ali*, J. Tong, M. Rizwan Mughal and S. U. Rehman	IEEE Access	W
31	Reconfigurable compact wideband circularly polarised dielectric resonator antenna for wireless applications	Shahid Khan, Hazrat Ali, Syed Usman Shah, Haider Ali and Camel Tanougast	Applied Computational Electromagnetics Society Journal	X
32	Effects of Butanol Blending and Fumigation with Jatropha Biodiesel on Combustion, Performance, and Emissions of Diesel Engine	S. E. Gillani, M. Ikhlq, M. U. Khan, D. Awan, and A. Hamza	International Journal of Environmental Science and Technology	W
33	A Novel Power Scheduling Mechanism for Islanded DC Microgrid Cluster	Wahid, A.; Iqbal, J.; Qamar, A.; Ahmed, S.; Basit, A.; Ali, H.; Aldossary, O.M.	Sustainability	W
34	A Detailed Thermal and Effective Induced Residual Spin Rate Analysis for LEO Small Satellites	A. Ali, J. Tong, H. Ali, M. R. Mughal and L. M. Reyneri	IEEE Access	W
35	Thin-film tandem organic solar cells with improved efficiency	Farooq, W., Khan, A.D., Rauf, A., Khan, S.D., Ali, H., Iqbal, J., Khan, R.U., and Noman, M.	IEEE Access	W
36	Miniaturization of dielectric resonator antenna by using artificial magnetic conductor surface	Khan, S., Ali, H., Khalily, M., Shah, S.U.A., Kazim, J.U.R., Ali, H., and Tanougast, C.	IEEE Access	W
37	Numerical computing	Awan, S. E., Awais, M., Qayyum, A., Rehman,	Thermal Sciences	X

	paradigms for the dynamics of squeezing rheology of third grade fluid	S. U., Khan, A., Ali, H., & Raja, M. A. Z.		
38	Minimization of total harmonic distortions of cascaded H-bridge multilevel inverter by utilizing bio inspired AI algorithm	Muhammad Salman; Inzamam Ul Haq; Tanvir Ahmad; Haider Ali; Affaq Qamar; Abdul Basit;; Murad Khan; Javed Iqbal	EURASIP Journal of Wireless Communications and Networking	W
39	Design and analysis of modular moving magnet linear oscillating actuator for compressor in refrigeration system	Ahmad, A., Ahmad, Z., Ullah, A., Rehman, N.U.U., Israr, M., Zia, M., Ali, H. and Rahmanood	World Journal of Engineering	Y
40	Influence of absorption, energy band alignment, electric field, recombination, layer thickness, doping concentration, temperature, reflection and defect densities on MAGeI_3 perovskite solar cells with Kesterite HTLs	Shayan Tariq Jan & Muhammad Noman	Physica Scripta	W
41	Thin-Film Carbon Nitride (C_2N)-Based Solar Cell Optimization Considering $\text{Zn}_{1-x}\text{Mg}_x\text{O}$ as a Buffer Layer	Waqas Ahmad, Waqas Farooq, Adnan Daud Khan, Shayan Tariq Jan	Processes	X
42	26.48% efficient and stable FAPbI_3 perovskite solar cells employing SrCu_2O_2 as hole transport layer	Muhammad Noman, Muhammad Shahzaib, Shayan Tariq Jan	RSC Advances	w
43	Performance analysis and optimization of inverted inorganic CsGeI_3 perovskite cells with carbon/copper charge transport materials using SCAPS-1D	Waqar Ahmad, Muhammad Noman, Shayan Tariq Jan	Royal Society Open Science	W

44	Exploring the Effect of Kesterites and Zinc based Charge Transport Materials on the Device Performance and Optoelectronic Properties of FAPbI ₃ Perovskite Solar Cells	Muhammad Aneeq, Muhammad Noman, Shayan Tariq Jan	Energy Technology	W
45	A CRITIC-TOPSIS Multi Criteria Decision Making Approach for optimum Site Selection for Soalr Power Plant	Imad Hassan, Ibrahim Al Hamrouni, Nurul Hanis Azhan	Energies - MDPI	W
46	Effect of various biochars on physical, mechanical, and microstructural characteristics of cement pastes and mortars	M.Haris, Javed M, Ali Sikandar, Waqas A, M Tariq Bashir, R. Alrowais, Muhammad Bilal	Micromachines	W
47	Power Prediction of Combined Cycle Power Plant (CCPP) Using Machine Learning Algorithm-Based Paradigm	Raheel Siddiqui, Hafeez Anwar, Farman Ullah, Rehmat Ullah, Muhammad Abdul Rehman, Naveed Jan, and Fawad Zaman	Journal of Building Engineering	W
48	An Eight Element Dual Band Antenna for Future 5G Smartphones	Ali, H.; Ren, X.-C.; Hashmi, A.M.; Anjum, M.R.; Bari, I.; Majid, S.I.; Jan, N.; Tareen, W.U.K.; Iqbal, A.; Khan, M.A.	Wireless Communications and Mobile Computing	W
49	Four-Port MIMO Antenna System for 5G n79 band RF Devices	Ali, H.; Ren, X.-C.; Hashmi, A.M.; Anjum, M.R.; Bari, I.; Majid, S.I.; Jan, N.; Tareen, W.U.K.; Iqbal, A.; Khan, M.A.	Electronics	X
50	A Novel Shape Compact Antenna for Ultrawideband Applications	Saad Hassan Kiani, Xin Cheng Ren, Muhammad Rizwan Anjum, Khalid Mahmood, Haider Ali, Naveed Jan, Muhammad Adil Bashir, Muhammad Abbas Khan	Electronics	X



51	Using an Efficient Technique Based on Dynamic Learning Period for Improving Delay in AI-Based Handover	Majid, S. I., Shah, S. W., Marwat, S. N. K., Hafeez, A., Ali, H., & Jan, N.	International Journal of Antennas and Propagation	X
52	Congestion-Aware Routing Algorithm for NoC Using Data Packets	Khurshid Ahmad, Muhammad Athar Javed Sethi, Rehmat Ullah, Imran Ahmed, Amjad Ullah, Naveed Jan and Ghulam Mohammad Karami	Mobile Information Systems	X
53	C2S2-LOOP: Circular Chessboard based Secure Source Location Privacy Model using ECC-ALO in WSN	Naveed Jan, Sarmadullah Khan, Ali H. Al-Bayatti, Madini Alassafi, Ahmed Alfakeeh, Mohammed A. Alqarni,	Wireless Communications and Mobile Computing	W
54	Impact of black hole attack on the performance of dynamic source routing and optimized link state routing protocols in MANETS	Waqas Khan, Khalid Saeed, Sheeraz Ahmad, Tariq Bashir, M. Shahzad, Asif Nawaz, Adil Khan, Naveed Jan, Zia Ullah Khan	Wireless Communications and Mobile Computing	W
55	Nature Inspired Optimization Techniques, A review for FANETS	Shahzad Hameed, Qurratul-Ain Minhas, Sheeraz Ahmed, Asif Nawaz, Muhammad Shahzad and Naveed Jan	Journal of Mechanics of Continua and Mathematical Sciences (JMCMMS)	Y
56	Thermal Aware Link Energy Efficient Scheme For Body Area Networks	M. Javed, Asim Zeb, M. Shahzad, Asif Nawaz, Ahmed Ali Shah, Naveed Jan, Zeeshan Rasheed, Atif Ishtiaq, Sheeraz Ahmed	Sukkur IBA Journal of Emerging Technologies	Y
57	A Secured and Enhanced Mitigation Framework for DDOS Attacks	Mujahid shah, Shahbaz Qadar Khattak, Muhammad Farooq, Sadeeq Jan, Mehtab Ejaz Qureshi, Naveed Jan, Sheeraz Ahmed	Journal of Mechanics of Continua and Mathematical Sciences (JMCMMS)	Y

