

**HAZARA UNIVERSITY, MANSEHRA PAKISTAN**  
**[www.hu.edu.pk](http://www.hu.edu.pk)**

**FIFTH**  
**SUSTAINABILITY REPORT 2025**



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**Directorate Quality Enhancement**

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## PREFACE

Hazara University was established in 2001 and has since been committed to sustainable development. In line with this commitment, the University is pleased to present and publish its fifth report on sustainable development.

The journey towards sustainability at Hazara University can be divided into three distinct phases:

● **Phase One (2001–2005):** This period marks the inception of the University, including the appointment of the first Vice Chancellor. Initial efforts towards sustainability began with early plantations and raising awareness about environmental responsibility.

● **Phase Two (2006–2016):** Following the devastating earthquake of October 2005, the

University intensified its sustainability efforts. Numerous plantation campaigns were carried out, preservation of existing mature trees on campus was prioritized, and sustainable practices were incorporated into new construction projects.

● **Phase Three (2016–Present):** The current phase focuses on enhancing the campus environment with well-maintained lawns, footpaths, and buildings designed with natural ventilation and lighting according to international standards. Greenery on campus has been significantly expanded, improving both sustainability and aesthetic appeal. During this phase, Hazara University achieved recognition in the UI GreenMetrics World University Rankings, securing the 463<sup>rd</sup> position globally, 9<sup>th</sup> nationally and 1<sup>st</sup> in Khyber Pakhtunkhwa in 2024.

Significant progress in the University's sustainability policy was observed during the third phase, particularly between 2016 and 2019, under the leadership of the then Vice Chancellor. His vision and encouragement motivated the administration to focus on sustainable quality development. It was during this period that Hazara University pioneered the transformation of its Main Campus into a live sustainable environment, guided by a carbon-neutral policy.

The current Honorable Vice Chancellor Prof. Dr. Ikram Ullah Khan has continued this legacy with great enthusiasm, inspiring faculty, staff, and students alike to maintain and enhance the University's green campus and carbon-neutral status. He actively addresses sustainability challenges in every university forum

he chairs and closely monitors the progress of all related initiatives. Hazara University is committed to leading among all Higher Education Institutions in Pakistan to become the top sustainable campus nationwide.

This fifth Sustainability Report highlights the University's progress and ongoing dedication to sustainable development, reflecting the wide-ranging contributions Hazara University has made to this vital global agenda.

In order to improve and enhance its impact on sustainability in different manners and in many & various ways including campus infrastructure settings, institutional policies and strategies, curriculum, and community engagement, the Hazara University has explored the issue of sustainability in length. The report outlines key achievements, summarizes performance and provides detailed evidence and data with reference to published documentation (where needed its inclusion as appropriate). The report also highlights the diverse sustainability initiatives in progress across the campus and looks ahead to those planned for 2025 onwards.

**Table of Contents**

<b><i>SUSTAINABILITY REPORT 2025</i></b> .....	<b>5</b>
<b><i>1. VISION</i></b> .....	<b>5</b>
<b><i>2. MISSION</i></b> .....	<b>5</b>
<b><i>3. QUALITY POLICY</i></b> .....	<b>5</b>
<b><i>4. HAZARA UNIVERSITY CARBON NEUTRAL INITIATIVE</i></b> .....	<b>8</b>
<b><i>5. GOOD HEALTH AND WELL-BEING</i></b> .....	<b>13</b>
<b><i>6. UNIVERSITY RANKING</i></b> .....	<b>14</b>
<b><i>7. QUALITY EDUCATION</i></b> .....	<b>24</b>
<b><i>8. GENDER EQUALITY (2024-25)</i></b> .....	<b>25</b>
<b><i>9. RESEARCH CENTRES</i></b> .....	<b>25</b>
<b><i>10. DECENT WORK AND ECONOMIC GROWTH</i></b> .....	<b>30</b>
<b><i>11. OFFICE OF RESEARCH, INNOVATION AND COMMERCIALIZATION (ORIC)</i></b> .....	<b>32</b>
<b><i>12. ARCHITECTURAL DESIGNING CENTER</i></b> .....	<b>37</b>
<b><i>13. CULTURAL HERITAGE MANAGEMENT</i></b> .....	<b>38</b>
<b><i>14. INTERNATIONAL WATER MANAGEMENT INSTITUTE</i></b> .....	<b>38</b>
<b><i>15. WORLD WIDE FUND FOR NATURE</i></b> .....	<b>46</b>
<b><i>16. SUSTAINABLE COMMUNITIES</i></b> .....	<b>49</b>
<b><i>17. SEWERAGE DISPOSAL</i></b> .....	<b>51</b>
<b><i>18. SOLID/INORGANIC WASTE TREATMENT</i></b> .....	<b>52</b>
<b><i>19. RESPONSIBLE CONSUMPTION AND PRODUCTION (SDG 12)</i></b> .....	<b>53</b>
<b><i>20. RENEWABLE ENERGY PRODUCED INSIDE CAMPUS</i></b> .....	<b>53</b>
<b><i>21. BS (FORESTRY) PROGRAM LAUNCHED AT HAZARA UNIVERSITY</i></b> .....	<b>56</b>
<b><i>22. ENVIRONMENT AND SUSTAINABILITY EVENT</i></b> .....	<b>58</b>
<b><i>23. UNIVERSITY SOCIAL RESPONSIBILITY</i></b> .....	<b>66</b>

## UNIVERSITY QUALITY MANAGEMENT

- **Prof. Dr. Ikram Ullah Khan** Vice Chancellor
- **Lt Cdr (R) Dr. Mahmood Khan**, Director Quality Enhancement

## ACADEMIC MANAGEMENT

- **Prof. Dr. Wajid Rehman**, Dean Faculty of Natural and Computational Sciences
- **Prof. Dr. Shakir Ullah**, Dean Faculty of Arts & Humanities
- **Prof. Dr. Inam Ullah**, Dean Faculty of Biological & Health Science
- **Prof. Dr. Nasir Ud Deen**, Dean Faculty of Law & Social Science

## SUSTAINABILITY LEADERSHIP

- **Prof. Dr. Ikram Ullah Khan**, Vice Chancellor
- **Lt Cdr. (R) Dr. Mahmood Khan**, Director Quality Enhancement
- **Dr. Aurangzeb Khan**, Deputy Director Quality Enhancement, (*Focal Person University Rankings*)
- **Dr. Raja Umer Sajjad**, Assistant Professor, Department of Earth & Environmental Sciences (*Sustainability Officer*)

**SUSTAINABILITY REPORT 2025**  
Hazara University Mansehra, KP, Pakistan

## **1. VISION**

Be a standard university by providing quality education to develop scientific innovation, technological advancement and economic leadership through academic excellence with contemporary research relevance.

## **2. MISSION**

To create a conducive environment, open to the free exchange of ideas and knowledge where research, creativity, innovation, industry academia-linkages, use of advance technology and entrepreneurship can flourish to assist in making the society more enlightened, responsible, peaceful and sustainable. It further aims to provide a l environment in which students, faculty and staff can discuss, examine, preserve, transmit the knowledge, wisdom, social and ethical values to ensure the survival of humanity in order to improve the overall quality of life.

## **3. QUALITY POLICY**

In the contemporary era, Pakistan’s higher education system is undergoing significant transformation, expanding dynamically and embracing the importance of learning outcomes within quality assurance frameworks. These initiatives play a vital role in improving academic performance, guiding academic audits, and enhancing institutional credibility.

Clearly defined educational objectives are now central to ensuring meaningful outcomes. These objectives not only provide students, employers, and stakeholders with a transparent understanding of educational value but also contribute to continuous improvement in curriculum development, program monitoring, teaching practices, and pedagogical methodologies.

Such outcome-based approaches and structured processes offer a more tangible and accountable method of assuring academic quality, traditionally considered difficult to measure. To support this transformation, comprehensive policy guidelines are being developed to standardize and align institutional practices with national and international quality assurance standards.

These guidelines serve as a foundation for establishing **Hazara University’s Quality Policy**, ensuring it reflects global best practices while addressing local academic needs and aspirations

### ***Aim***

The Quality Assurance Policy of Hazara University aims to strengthen the Quality Culture in learning & research activities, enhance the quality of research output and provide support for implementing National and International standards.

### ***Vision***

To aim for Quality Education on Continual basis at Hazara University through quality practices, inputs and by implementing world class Quality Standards.

## ***Mission***

The Directorate of Quality Enhancement (DQE) is devoted to continually enhance excellence in the institutional processes by uplifting the spirit of focusing on quality delivery of educational services, to achieve satisfaction of stakeholders/students and to promote public confidence that the standards of the award of degrees are enhanced and safeguarded.

## ***Quality Assurance Policy Statement***

To promote quality culture in higher education & research at HU based on self-assessing, to obtain improved outcome in view of the University's main vision/objectives duly in compliance to the HU Mission.

### ***a. Compliance with Statutory Requirements***

Hazara University ensures that every individual working for or studying in HU shall comply with the University Act, Statutes, Regulations, Rules and Policies.

### ***b. Basic Principle of Quality Assurance Policy***

Hazara University will serve the community and meet the challenging needs of national and international market by providing quality higher education through effective and efficient quality assurance system underpinned by quality teaching, learning and research. University will also inculcate ethical values in students through its programs to become better citizens. The QA policy of Hazara University is having a holistic approach, based on self-assessment keeping focus on Quality improvement through comprehensive framework.

### ***c. Students' Focus***

Students are direct customers of the university; therefore, HU is committed to produce highly qualified manpower related to multidisciplinary fields. University ensures meeting students' professional needs and expectations and appreciates their role in maintaining a progressive learning environment.

### ***d. Stakeholders Focus***

Every stakeholder is important to the university, therefore HU endeavors to provide encouraging, flexible, empowered, cohesive and congenial working environment to create, assimilate and analyze knowledge for the ultimate benefit of academia, industry, government and society.

### ***e. Knowledge Creation and Dissemination***

HU is focused on conducting multidisciplinary research in order to create knowledge to resolve political, socio, technological and environmental issues and to disseminate this knowledge through trainings, workshops, conferences and research journals to various national and international institutions.

### ***f. Business Startup***

Hazara University is focused on facilitating startups and creating businesses based on multidisciplinary fields.

***g. Linkages and Networking***

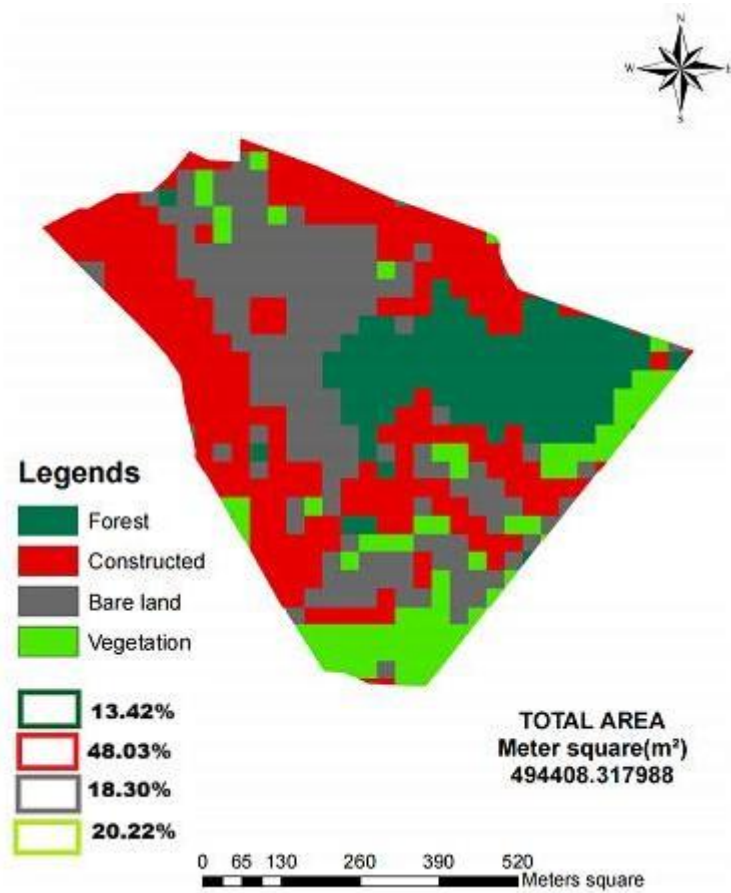
HU establishes strong ties with various national and international universities, industries, INGOs, NGOs, organizations and government.

***h. Optimization of Resources***

HU is focused that the Human Capital, infrastructure and financial resources must be utilized optimally for accruing and sustaining benefits.

***i. Environment Friendly***

HU is committed to making campus(es) environment safest, green and clean and to provide a rewarding and challenging environment for faculty, staff and students to kindle and sustain a passion for excellence. More than 51% of the campus area comprise of forest, gardens, lawns and vegetation.



#### 4. HAZARA UNIVERSITY CARBON NEUTRAL INITIATIVE

Hazara University has launched a comprehensive **Carbon Neutral Policy** aimed at promoting environmental sustainability and reducing the institution’s carbon footprint. The policy emphasizes maintaining existing **land use and land cover** by minimizing new construction activities and preserving the university’s natural green landscape. A key component of the initiative is the enhancement of **university transport services**, designed to encourage collective commuting and significantly reduce emissions from private vehicles. Through these strategic measures, Hazara University demonstrates its commitment to creating an eco-friendly campus and contributing to global climate action goals.

##### *Sustainable Campus Mobility Plan*

##### *No of Vehicles and Ration per Population*



Total 52 vehicles entering the university daily

##### **Description:**

Status	LTV	HTV	Other Vehicles	Total
University official vehicles	28	16	Tractors, 2 Chengchi loaders, 2 Motorcycles, 4	52

S.No.	Vehicle	Total Number
1	Car managed by the University	52
2	Car Entering the University	20
3	Motorcycle entering the University	11
<b>Total</b>		<b>83</b>

### Shuttle Services



Shuttle Services – 0700 hrs to 1700 hrs five days a week , Hazara University Pakistan

University sites in and around Mansehra and Abbottabad are very well served by students, faculty and administration transport buses run by the University management. The university own shuttle service inside the campus and outside the campus in and around district Mansehra is active from 0700 hrs to 1700 hrs five days a week.

- |  |           |
|--|-----------|
| ➤ No. of Shuttle buses operated in university:   | <b>04</b> |
| ➤ No. of Van deployed for pick and drop of staff | <b>02</b> |
| ➤ Average No. of Passenger of each shuttle/Bus:  | <b>35</b> |
| ➤ No. of buses operated outside the campus       | <b>16</b> |
| ➤ Total Trips of shuttle service each day:       | <b>22</b> |

### Zero Emission Vehicles (ZEV) Policy on Campus

Hazara University campus is pedestrian friendly. Many have vehicle-free paths way in the campus for these users. There is a 20 km/hr speed limit on all internal roads for vehicles. Waste bearing vehicles and hybrid vehicle running by the university faculty reduce emission in the campus environment.

The University notified Zero Emission Policy of the Govt. of Pakistan from the year w.e.f. 2020, 2021-22 and onward.

- |  |           |
|--|-----------|
| ➤ No. of Zero emission Vehicles on campus per day: | <b>32</b> |
|--|-----------|




**HAZARA UNIVERSITY MANSHEERA, PAKISTAN**  
 Phone No: 0997-414163 Fax No: 0997-414111  
 Email: registrar@hu.edu.pk

F. No. 4(1)-HU/Reg/2020/ 564 July 17, 2020

**NOTIFICATION**

It is notified for information of all concerned that Zero Emission Policy for vehicles has been adopted at campuses of the University. In this regard the following measures are required to be strictly observed:

1. Vehicles' fitness certificate from concerned authorities are required to be obtained for all the official vehicles in use.
2. Proper maintenance of the vehicles be carried out to ensure and achieve the goal of environment protection.

  
 Assistant Registrar  
 (Establishment)

Copy for information and necessary action to;

1. PS to Vice Chancellor
2. PA to Registrar
3. Director QI
4. Transport Officer
5. Relevant File
6. Master File

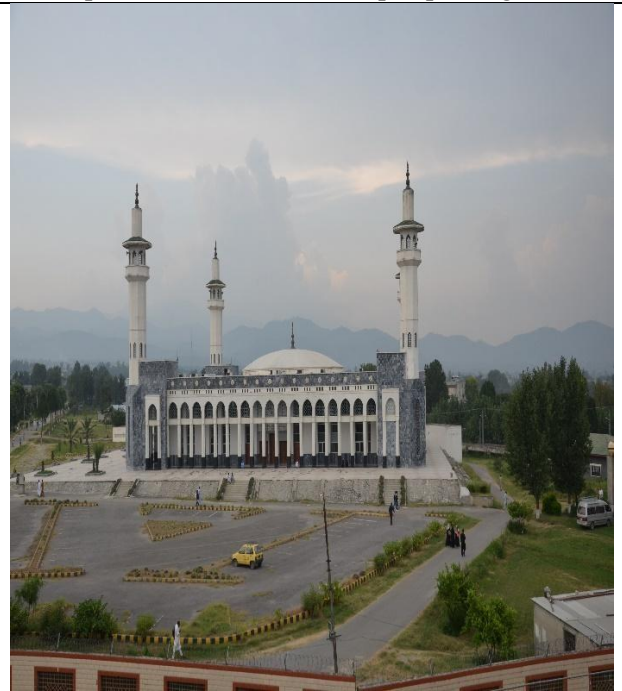
***Ratio of Parking Area to Total Campus Area***

Hazara University has undertaken significant measures to enhance its campus environment and promote sustainability. The university has reduced parking areas and transformed them into **lawns, walkways, and seating spaces** for students, faculty, and visitors. To preserve the campus ecology and minimize noise pollution, a **strict ban on private vehicles within the campus** has been enforced. In support of this initiative, the university has expanded **green spaces, pedestrian-friendly pathways, and accessible routes** connecting all departments and facilities. Additionally, a **free campus shuttle service** with increased daily trips has been introduced to facilitate mobility while discouraging vehicle entry. To further assist visitors, **student and visitor guides** are stationed throughout the campus to provide directions and encourage walking along designated pathways.

Total main campus area: **505576.21 m<sup>2</sup>**  
 Total parking area = **1677 m<sup>2</sup>** (inside the campus)  
 Ratio = **1.073%**

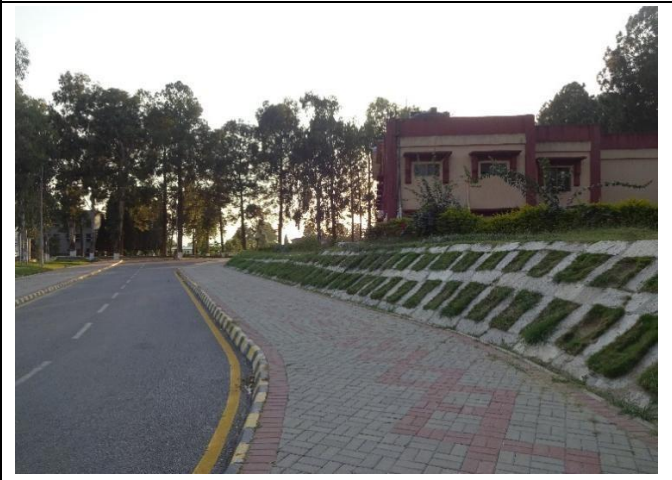


Parking Area to Total Campus Area, RED: Inside the campus, BLUE: Outside campus parking



### *Pedestrian Path Policy on Campus*

Hazara University boasts a **lush, green, and beautifully designed campus** featuring an extensive network of pedestrian pathways planned under a **dual-season design system**—with sustained paths suitable for winter and shaded paths for summer use. To ensure accessibility and inclusivity, the campus is equipped with **ramps and guiding blocks** specifically designed to assist individuals with physical disabilities. For safety and convenience during nighttime, **179 solar-powered street lamps** with dual-charge backup illuminate the pedestrian areas. Additionally, **wheelchairs are available at the main entrance** to facilitate mobility for differently-abled students and visitors. Every university building is thoughtfully constructed with **dedicated pathways and accessibility features** to ensure ease of movement for all.



### *Solarization of the Campus*

Hazara University has undertaken a major **solarization initiative** as part of its commitment to achieving long-term **sustainability goals** and reducing dependency on conventional energy sources. The project includes the installation of **solar power systems across main university blocks**, enabling clean and renewable energy generation to meet a significant portion of the campus's electricity demand. This initiative not only reduces the university's carbon footprint but also ensures energy efficiency and cost-effectiveness. Through solarization, Hazara University continues to demonstrate its dedication to **green energy transition** and serves as a model for environmentally responsible academic institutions.



## 5. GOOD HEALTH AND WELL-BEING

### *Medical Facilities in Campus and Out Campus*

Hazara University's Medical Center is housed in a seven-room building on campus, featuring two wards, one each for male and female patients. The facility is staffed by a dedicated and qualified team, including three doctors (recently joined by a lady doctor), one Lady Health Visitor (LHV), one OT technician, one male nurse, one security guard, three ward boys, and three ambulance drivers.

Equipped with emergency vehicles, the medical center provides 24/7 emergency services to students, staff, and their families. Recently, its services have been extended to include the students of SOS, as well as local communities in the vicinity of the university.

The wards are fully furnished with essential medical equipment, beds, and furniture, ensuring comfortable and effective patient care. A medical laboratory has also been added to enhance diagnostic capabilities. Emergency medicines are provided free of cost to students.

Over the past three years, the medical center has treated nearly 18,000 patients, demonstrating its critical role in supporting the health and well-being of the university community.



## 6. UNIVERSITY RANKINGS

### **REPORT OF “THE IMPACT RANKINGS 2025”** **based on the United Nations Sustainable Development Goals (SDGs)”**

The following all seventeen Sustainable Development Goals are essential for Time Higher Education Impact Ranking 2025. The data collection was started from Sep 20, 2024, till Nov 12, 2024. The following are the 17 SDGs for the subject ranking.

SDG1: No Poverty	SDG10: Reduced Inequalities
SDG2: Zero Hunger	SDG11: Sustainable Cities and Communities
SDG3: Good Health and Wellbeing	SDG12: Responsible Consumption and production
SDG4: Quality Education	SDG13: Climate Action
SDG5: Gender Equality	SDG14: Life Below Water
SDG6: Clean Water and Sanitation	SDG15: Life on Land
SDG7: Affordable and Clean Energy	SDG16: Peace, Justice and Strong Institutions
SDG8: Decent Work and Economic Growth	SDG17: Partnership for the Goals
SDG9: Industry, Innovation and Infrastructure	

For first time the Time Higher Education agency UK has approved the impact ranking login for Hazara university in year 2021 after participating in world university ranking and Hazara University Focal Person from Directorate QE submitted the available and own prepared data for all SDG. Upon which for the first time, HU was ranked in THE-IMPACT Rankings 2022.

Now it's the 4<sup>th</sup> time that Hazara University has maintained its Impact Rankings reputation in 2025. The “THE-IMPACT RANKINGS 2025” have been announced on **18 June 2025** and Hazara University has been ranked in sixteen-SDGs, which is a remarkable achievement.

From all over the **world 2318 universities as compared last year it was 1963** submitted the data for this ranking. **Hazara University ranked individually against each SDGs.** *While the detail of the individual SDGs is given below in this report.*

It is pertinent to mentioned that 03 documentary evidences as a policy were mandatory requirement for each individual SDG and 03 SDGs with SDG 17 is mandatory required for Impact Ranking. This year we have been submitted 07 SDGS and SDG 17 data.

Each and every SDGs requirement for consideration towards “World Universities Impact Rankings” was at least three evidences for submission.

Beside the other submissions on THE portal, total **24 evidences** were prepared and submitted to support the data for acceptance **whose all credit goes to the Deputy Director QE.**

The comprehensive Result detail of every SDG is as follow.

**Ranking for Publishing by University through banner**

<b>SGD</b>	<b>Reputation</b>	<b>Position in KP</b>	<b>Position in Pakistan Total 120</b>	<b>Position in World Total 2318</b>
<b>08 SDGs</b>	<b>Over All Ranking</b>	<b>1<sup>st</sup></b>	<b>28<sup>th</sup></b>	<b>8001-1000</b>

<b>SDG No</b>	<b>Reputation</b>	<b>World</b>	<b>Pakistan</b>	<b>KP</b>
<b>SDG No. 3</b>	<b>(Good Health and wellbeing)</b>	<b>1001-1500</b>	<b>44<sup>th</sup></b>	<b>5<sup>th</sup></b>
<b>SDG No. 4</b>	<b>(Quality Education)</b>	<b>301-400</b>	<b>22<sup>nd</sup></b>	<b>2<sup>nd</sup></b>
<b>SDG No. 5</b>	<b>(Gender Equality)</b>	<b>801-1000</b>	<b>46<sup>th</sup></b>	<b>2<sup>nd</sup></b>
<b>SDG No. 6</b>	<b>(Clean water &amp; Sanitation)</b>	<b>301-400</b>	<b>9<sup>th</sup></b>	<b>2<sup>nd</sup></b>
<b>SDG No. 7</b>	<b>(Affordable &amp; Clean Energy)</b>	<b>401-600</b>	<b>12<sup>th</sup></b>	<b>1<sup>st</sup></b>
<b>SDG No.11</b>	<b>(Sustainable Cities and Communities)</b>	<b>401-600</b>	<b>8<sup>th</sup></b>	<b>1<sup>st</sup></b>
<b>SDG No 16</b>	<b>(Peace Justice &amp; Strong Institute)</b>	<b>401-600</b>	<b>2<sup>nd</sup></b>	<b>1<sup>st</sup></b>
<b>SDG No 17</b>	<b>Partnership for the Goals</b>	<b>601-800</b>	<b>13<sup>th</sup></b>	<b>1<sup>st</sup></b>

THE Impact Rankings 2025

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OVERALL SCORE

**61** out of 100

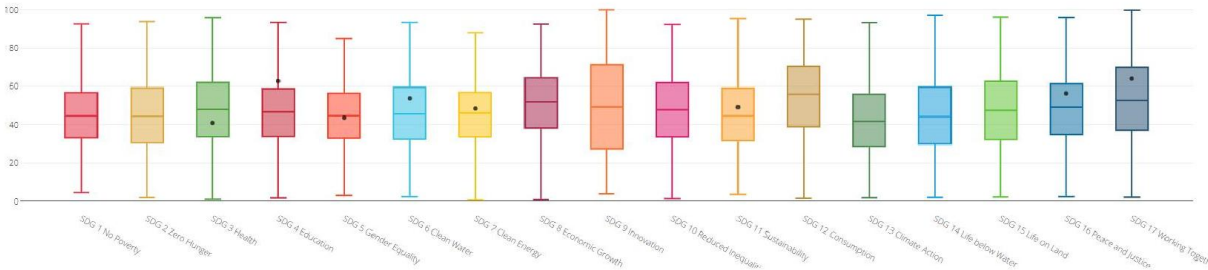
OVERALL RANK

**801-1000** out of 2318 institutions

SDG PARTICIPATED

**8** out of 17 Sustainable Development Goals

SDG SCORES



**3** **GOOD HEALTH AND WELLBEING**

SCORE: **41.0** RANK: **1001-1500** out of 1788 institutions

SDG3 research: 34.6  
N graduating in health: 61.4  
Collaborations and health services: 27.2

**4** **QUALITY EDUCATION**

QUALIFYING SDG - 20% OF OVERALL

SCORE: **62.7** RANK: **301-400** out of 1973 institutions

SDG4 research: 66.0  
% grads w/ teaching quals: 54.8  
Lifelong learning measures: 32.9  
% 1st gen students: 89.8

**5** **GENDER EQUALITY**

SCORE: **43.7** RANK: **801-1000** out of 1500 institutions

SDG5 research: 46.9  
% 1st gen female students: 59.1  
Student access measures: 38.3  
% senior female academics: 79.6  
% women receiving degrees: 3.8  
Women's progress measures: 21.9

**6** **CLEAN WATER AND SANITATION**

QUALIFYING SDG - 20% OF OVERALL

SCORE: **53.8** RANK: **301-400** out of 1042 institutions

SDG6 research: 72.1  
Water consumption per person: 65.2  
Water usage and care: 56.7  
Water reuse: 47.9  
Water in the community: 16.7

**7** **AFFORDABLE AND CLEAN ENERGY**

SCORE: **48.4** RANK: **401-600** out of 1181 institutions

SDG7 research: 61.5  
Energy university measures: 41.1  
Energy use density: 53.1  
Energy and the community: 28.3  
Low-carbon energy use: 0.3

**8** **DECENT WORK AND ECONOMIC GROWTH**

SCORE: **N/A** RANK: **N/A** out of 1330 institutions

**11** **SUSTAINABLE CITIES AND COMMUNITIES**

SCORE: **49.1** RANK: **401-600** out of 1134 institutions

SDG11 research: 59.9  
Arts & heritage support: 31.9  
Arts & heritage expend.: 100.0  
Sustainable practices: 29.6

**12** **RESPONSIBLE CONSUMPTION AND PRODUCTION**

SCORE: **N/A** RANK: **N/A** out of 973 institutions

**13** **CLIMATE ACTION**

SCORE: **N/A** RANK: **N/A** out of 1889 institutions

**14** **LIFE BELOW WATER**

SCORE: **N/A** RANK: **N/A** out of 711 institutions

**15** **LIFE ON LAND**

SCORE: **N/A** RANK: **N/A** out of 854 institutions

**16** **PEACE, JUSTICE AND STRONG INSTITUTIONS**

QUALIFYING SDG - 20% OF OVERALL

SCORE: **56.4** RANK: **401-600** out of 1203 institutions

SDG16 research: 70.3  
Unl. governance measures: 35.4  
Working with government: 27.6  
% grads in law and civil enforce: 93.2

**17** **PARTNERSHIP FOR THE GOALS**

MANDATORY QUALIFYING SDG - 20% OF OVERALL

SCORE: **64.0** RANK: **601-800** out of 2389 institutions

SDG17 research: 82.4  
Relationships to support the goals: 33.3  
Publication of SDG reports: 52.9  
Education for the SDGs: 77.8

**HAZARA UNIVERSITY OBTAINED 1001-1200 OUT OF 3118 POSITION IN “TIME HIGHER EDUCATION WORLD UNIVERSITIES RANKING” FOR 2026 3<sup>rd</sup> IN KHYBER PAKHTUNKHWA & 21<sup>st</sup> POSITION IN PAKSISTAN**

Time Higher Education (UK) World University Ranking has been announced for the year 2025 on 09 Oct 2025. Hazara University is being ranked in slab **1001-1201** among universities of the world. **Hazara University is ranked at 3<sup>rd</sup> place in Khyber Pakhtunkhwa & 21<sup>st</sup> in Pakistan.** While Ranked in Quality Research in **TOP category of 68.1 percentile & above in the World.** Total **30118** universities from all over the world were listed for the current rank, of which **48** universities from Pakistan succeeded in attaining their positions, including Hazara University. The good for Pakistan is that the strength of Pakistani universities has increased from **94** to **99** as compared to the previous year while overall submission is **2855 universities** from all 120 Countries in the world.

The short detail of Performance is as follows:

**Position in KP, PAKISTAN & WORLD**

- A. Hazara University Pakistan position is **21<sup>st</sup>** in General Universities out of 99 (48)
- B. Hazara University Position in **KP is 3<sup>rd</sup> out of 14**
- C. Hazara University Position in **World is 1001-1200** out of **3118 universities**

**Categories**

<b><u>Pillar</u></b>	<b><u>Totals Score</u></b>	<b><u>Obtain Score</u></b>
Teaching	<b>29.5</b>	<b>17.1%</b>
Research Environment	<b>29</b>	<b>11.6%</b>
Quality Research	<b>30</b>	<b>68.1%</b>
Industry	<b>04</b>	<b>17.1%</b>
International outlook	<b>7.5</b>	<b>49.8%</b>
Total	<b>100</b>	

*Times Higher Education (THE)* is a UK based magazine organization which is providing trusted performance data on universities, for students & their families, academics, university leaders, governments and industry, using **13 carefully calibrated performance indicators** to comprehend balance comparisons. ***THE-World University Ranking*** (Global Rankings) makes a definitive list of the world’s best universities on judgement of the *research mission, core mission, teaching/learning environment, research volume, income & reputation, research influence (i.e., Quality Research), knowledges (i.e., industry income)* and international outlook (*of staff, students & research*). The overall rank includes the sub eleven (11) subject-specific-rankings.

THE WUR 2025-26 ranking evidence are as follow, please;

**World: 1001-1200      Pakistan: 21      KP: 3<sup>rd</sup>**

Rank ↕	Name	Overall ⓘ ↕	Teaching ⓘ ↕	Research Environment ⓘ ↕	Research Quality ⓘ ↕	Industry ⓘ ↕	International Outlook ⓘ ↕
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📍 Pakistan							
<b>801-1000</b>	<b>Abdul Wali Khan University Mardan</b> 📍 Pakistan	35.5-38.9	19.0	12.5	81.2	24.6	50.1

Rank ↕	Name	Overall ⓘ ↕	Teaching ⓘ ↕	Research Environment ⓘ ↕	Research Quality ⓘ ↕	Industry ⓘ ↕	International Outlook ⓘ ↕
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<b>801-1000</b>	<b>University of Malakand</b> 📍 Pakistan	35.5-38.9	25.6	12.9	70.6	42.6	50.7
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Rank ↕	Name	Overall ⓘ ↕	Teaching ⓘ ↕	Research Environment ⓘ ↕	Research Quality ⓘ ↕	Industry ⓘ ↕	International Outlook ⓘ ↕
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<b>1001-1200</b>	<b>Hazara University Mansehra</b> 📍 Pakistan	32.1-35.4	17.1	11.6	68.1	17.1	49.8
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**Total Universities in World participated: 3118 (263) Pakistan: 99 (15) KP: 14 (06)**



ASIA 2025 : SOUTHERN ASIA

**179**

Hazara University, Dodhial

November 2024

Date

A handwritten signature in black ink, appearing to read 'Ben Sowter', written over a horizontal line.

Ben Sowter  
Senior Vice-President  
QS Quacquarelli Symonds



ASIA 2025

**601-620**

Hazara University, Dodhial

November 2024

Date

A handwritten signature in black ink, appearing to read 'Ben Sowter'.

Ben Sowter  
Senior Vice-President  
QS Quacquarelli Symonds



UNIVERSITAS  
INDONESIA  
Wise, Bold, Just, For All



# Certificate

This certificate is awarded to  
**Hazara University Mansehra, Khyber  
Pakhtunkhwa (KP) Pakistan**  
as The 463<sup>rd</sup> World's Most Sustainable University  
in 2024 UI GreenMetric World University Rankings

12 December, 2024



**Prof. Dr. Ir. Riri Fitri Sari, M.M., M.Sc.**  
Chairperson of UI GreenMetric



### UNIVERSITY PROFILE

NAME : HAZARA UNIVERSITY MANSEHRA,  
KHYBER PAKHTUNKHWA (KP) PAKISTAN  
EST. : 2001  
COUNTRY : PAKISTAN

### 1. VERIFIED DATA

#### Campus Sustainability Scores

Overall Performance **68.25 %** Total Score **6825 / 10000**



Figure 1.1 Category Score Contribution to Total Score

## 7. QUALITY EDUCATION

### *Academic Structure & Sustainability-Focused Courses at Hazara University (2024–25)*

Hazara University comprises **four major faculties**:

- i. Faculty of Arts and Humanities
- ii. Faculty of Biological Sciences
- iii. Faculty of Law and Social Sciences
- iv. Faculty of Natural and Computational Sciences

Under these faculties, the University operates **36 academic departments**, offering **110 academic programs** at various levels, including:

- BS (Bachelor of Science)
- LLB (Bachelor of Laws)
- LLM (Master of Laws)
- B.Arch (Bachelor of Architecture)
- Master's (18 years of education)
- PhD (Doctor of Philosophy)

### **Sustainability-Focused Courses at Hazara University (2024–25)**

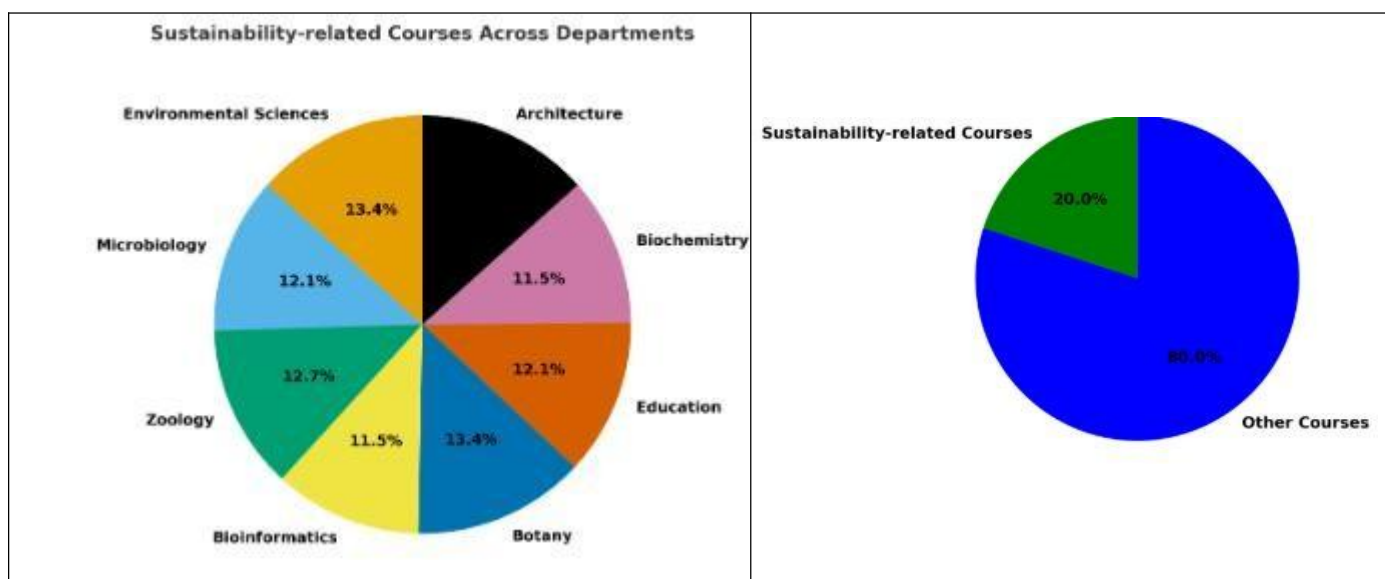
Hazara University is committed to integrating sustainability into its academic framework. During the academic year **2024–25**, a total of **780 courses** across various disciplines were identified as having sustainability components.

These courses are offered across **33 academic departments** during the **two regular semesters (Spring and Fall)**. The university has made significant efforts to embed sustainability in key subject areas. Major contributions include:

- **Environmental Sciences** – 21 courses
- **Microbiology** – 19 courses
- **Zoology** – 20 courses
- **Bio-informatics** – 18 courses
- **Botany** – 21 courses
- **Education** – 19 courses
- **Biochemistry** – 18 courses
- **Architecture** – 21 courses

In addition to these departments, the **remaining 24 departments** each maintained a minimum of **15% sustainability-related content**, collectively offering approximately **360 sustainability-focused courses**.

Collectively, these departments offer around **1,800 courses annually**, with **at least 20% of the courses focused on sustainability-related topics**. This emphasis reflects the university's geographical significance, being located in a **sub-tropical region** and strategically positioned between two international corridors: the **Silk Route** and the **China-Pakistan Economic Corridor (CPEC)**.



Number of Total Courses and Courses Related to Environment & Sustainability Offered for Four Years BS-Programs in the Department of Earth and Environmental Sciences.

## 8. GENDER EQUALITY (2024-25)

Based on the 2024–25 admissions data, Hazara University demonstrates a strong commitment to gender inclusion across all academic levels. With female students making up over **33%** of total admissions—and nearly **43%** at the postgraduate level—the university is actively promoting equitable access to higher education for women. These figures reflect the impact of Hazara University’s gender inclusion policy, which prioritizes equal opportunities in admissions, academic support, and campus life. The university continues to strengthen initiatives that support female participation in higher education, particularly in traditionally underrepresented fields.

### Admissions Fall 2024- Spring 2025

Program	Male	Female	Total admissions
Bachelor Programs (BS)	1632	798	2430
Master Programs (MPhil/MS)	85	73	158
Doctoral Programs (PhD)	42	13	55
<b>Grand Total Admissions (BS+MPhil+PhD)</b>			<b>2,643</b>

## 9. RESEARCH CENTRES

There are four Research centers in the university.

### a. Centralized Research Labs (CRL)

The centralized research lab was established 2021 and two floors are dedicated to the lab. This lab is equipped with the state-of-the-art instruments to facilitate the students and faculty to carry out target analyte characterization. Various instruments present in CRL are Gas Chromatograph –Mass Spectrometer (GC-MS), Thermogravimetric Analyzer (TGA), Differential Scanning Calorimeter (DSC), FTIR, Polarized Optical Microscope (POM), QPCR Thermal Cycler,

autoclaves, Gel Horizontal Apparatus, Gel Documentation System, Temperature controlled Centrifuges, Incubators, Gene gun, Electroporator, Four Probe Analyzer, Laser Induced Breakdown Spectroscopy (LIBS). The CRL provides analytical services to researchers from various institutes and also training to the undergraduate/graduate students of the KPK province.

***b. Center for Human Genetics (CHG)***

***c. Center for Software Engineering***

***d. Archaeological Teaching & Conservation Research Lab (ATCRL)***

***e. Architectural Designing Center***

Department of Conservation Studies established the “Archaeological Teaching Conservation & Research Laboratory” (ATCRL), with the financial assistance of HEC (Rs.39.172 million) in 2013, to fulfill the practical and research requirement of students of Hazara University.

Main objective to establish ATCRL is to facilitate the research students of not only parent department but also to other field relevant departments of Hazara University as Conservation is a multidisciplinary field. ATCRL building comprises of four well equipped laboratories.

Three labs are established at the ground floor and one at the first Floor.

Their names and functions are as follows:

- Metal Conservation lab, i.e lab # 1.
- General Practicals lab, i.e Lab # 2.
- Organic Materials Conservation Lab, Lab # 3.
- Wildlife Conservation and Herbarium Management Lab, i.e Lab # 4.

***1. Metal Conservation Laboratory***

- Basic aim to establish this lab is to conserve the metallic artifacts by removing the encrustation and corrosion from their surfaces by applying mechanical, chemical and electrochemical treatments.
- Various archaeological coins which are very badly corroded and heavily encrusted are treated in this lab. Not only the archaeological coins but other metallic artifacts which are rusted and decayed are also being treated in this lab to restore their metallic luster, patinas and identification.
- We also have sand blasting machines for the treatment of larger metallic objects.
- We have ultra-sonication bath to remove the coagulation of coins.
- We also have various conservation tools besides chemicals for mechanical treatment of coins and smaller artifacts.

## **2. *General Practical's Laboratory***

- This lab is particularly designed to fulfill the practical and research requirements of BS students of Conservation Studies department. This lab is highly equipped with all the necessary requirements of BS level students.
- In this lab various Conservation techniques and practical's like; sampling methods, water absorption methods for porous materials, porosity in solid materials, Movement of salts, salt crystallization measurements, Qualitative analysis of water soluble salts and carbonates, particle size analysis methods, measurement of plastic and liquid limits of soils, mortar analysis methods, cleaning of building stones, repointing of stone and brick work, sampling of architectural surface materials, seasoning of wood, test loading of wooden material, preparation and application of traditional oil house paint.
- This lab is highly equipped with important instruments like Stereomicroscope, centrifuge, furnaces, Hot plates, sonicators, dental tooling kit, deionization water plant, pH metre, conductivity metres, hgyrometres (hygrometer), ASTM apparatus for measuring liquid and plastic limits, Lux meters etc.

## **3. *Organic materials Conservation Laboratory***

- This lab is established to fulfill the research requirements of students doing specialization in Conservation of organic materials artifacts like wood, bone, ivory, textile, paper, papyrus, parchment and painting Conservation.
- Various techniques and practical's related to textile conservation like organic pigments composition, their deterioration factors, analysis of textile texture's plant based or animal based textile materials analysis, their Conservation techniques, use of various binders and cleaning solvents and bleaching techniques have been practiced in this lab.
- Wood seasoning techniques and use of various fumigants as pesticides, insecticides and fungicides for conservation of wooden artifacts have also been studied and practiced. Various consolidates for conservation of bone and ivory materials are studied and practiced in this lab.
- Painting Conservation techniques from mural to fresco to cave carvings has been practiced and studied in this lab.

## **4. *Wildlife Conservation and herbarium management laboratory***

- It is very important and specialized field laboratory. Basic aim to establish the lab is to preserve the endangered plant and animal

species from being extinct.

- This lab needs special attention to be equipped with important stuffing techniques and equipment's for stuffing the endangered animal species. Herbarium management also needed to be established.

### ***Achievements***

More than 70 M.Phil. and 2 Ph.D. students of the department of conservation Studies have been facilitated from these labs and many students from other allied departments like chemistry, botany, and zoology have also been facilitated from ATCRL. Miss Seemab Pervaiz as Chief Archaeological Chemist is supervising and maintaining these labs since their establishment.

### **Linkages with National and International Organizations**

We have established linkages with:

- Army Museum Rawalpindi,
- Taxila Museum, Taxila.,
- Department of Archaeology Peshawar Museum,
- Taxila Institute of Asian Civilization, Quaid I Azam University,
- ICCROM Rome Italy,
- Isfahan University, Tehran, Iran,
- Canadian Conservation Institute, Canada.
- CACH, Beijing, China etc.
- Directorate of Archaeology and Museums, Islamabad. (Korean Conservation Laboratory)
- University of Leads, London, U.K.
- Teachers Resource Center, Karachi, Pakistan
- International Water Management Institute, Pakistan

### ***Future Plans and Goals***

- We will upgrade all these laboratories to meet the research activities of students, especially in the field of dating technology. We want to establish another Lab for Radiocarbon dating techniques.
- We also want to establish an archaeological building Conservation material analysis Laboratory, for which we need to install XRD, SEM and XRF apparatus.
- Just like the department of Conservation being unique, we also want to upgrade and equip the ATCRL with all new uniqueness and advances in the field of Conservation of Cultural heritage.

The credit goes to HEC for funding and financial assistance. Without this help from HEC, it would be impossible to establish ATCRL. We are thankful to HEC for being the core investor.



## 10. DECENT WORK AND ECONOMIC GROWTH

### *Smart Classrooms*

The smart classrooms initiative has been taken by Higher Education Commission (HEC) Pakistan under the Socio-Economic Development Sector of China Pakistan Economic Corridor (CPEC). This facility enabled the university to faculty sharing with far-flung institutes and is helping improve the quality of Education through smart classroom gadgets i.e., Auto Audio/Video Tracking, Lecture Recording, Interactive Digital Boards, and E- Learning System.



### *University's Official Website*

Under the visionary guidance and directives of the Honorable Vice Chancellor, **Prof. Dr. Ikramullah Khan**, Hazara University Mansehra has proudly launched its new, dynamic, attractive, and fully updated official website, ([www.hu.edu.pk](http://www.hu.edu.pk)) a major milestone in the university's digital transformation journey.

The newly launched website presents a modern and user-friendly interface enriched with the latest features and comprehensive information about the University, including:

- \* Number of students enrolled
- \* Faculty strength and departmental profiles
- \* Offered programs and courses
- \* Research publications and achievements
- \* News, events, and activities
- \* Quick access to admissions, examinations, and academic updates

This upgraded platform aims to provide maximum transparency, accessibility, and engagement for students, faculty, and visitors alike, reflecting the university's commitment to excellence in education and innovation.



### ***Campus Management System (CMS)***

Hazara University has introduced campus management system (CMS), which provides online admission application opportunity to far-flung areas candidates and selected candidates. The CMS system is also very helpful in student's registration, assessing classes timetable, lecture rooms/laboratories finding, availability of room for class, students daily rollcall, examination datasheet and to download the transcripts and other certificates. The introduction of CMS has reduced the amount of paper used in various communications and notices etc.

### ***Learning Management System (LMS)***

The COVID-19 pandemic has changed the world dynamics, and forced society for virtual meeting, work and learning. Therefore, HU successfully started the LMS system to virtually conduct classes during lockdown periods. Currently, if a faculty member is away from

university can conduct a class through this system. Additionally, the course content, semester plan and reference material is shared with students through LMS.

## **11. OFFICE OF RESEARCH, INNOVATION AND COMMERCIALIZATION (ORIC)**

### **Innovation and Commercialization**

As reported in the last few years that the university with the guidance of the HEC created an independent **Office of Research, Innovation and Commercialization (ORIC)** for organization of R&D activities. The main purpose of the ORIC is to organize R&D and guide university faculty to make their research viable commercial products.

The office of the ORIC is responsible for the following:

- To Manage and Enhance the Research Activities of the university
- Develop Research Policies and Priorities
- To mobilize Faculty, Business Community and Industry for Research Commercialization
- Monetize Royalty Streams from Licenses
- Draft and Monitor Department Budget
- Work with Development Office to promote Institute IP success stories
- Collaborate with the Principal Liaison for Technical Marketing and Licensing on the commercialization of the Institute's IP in coordination with Manager Industrial Linkages
- Establishment of center of innovation and entrepreneurship HU through a joint venture with SYBRID (A subsidiary of Lakson Group of Companies), mandated to foster entrepreneurship and innovation in Hazara region in particular and entire Pakistan in general.
- Approval of business incubation and services framework for HU business incubation center from the statutory bodies establishing its status as a separate entity.
- Proposal for the establishment of Hazra University Skilled Development Center to foster technically skilled workforce and their retention, expansion and attraction of graduates by business and organizations.
- Lead in the consortium of universities and institutions for KPK accelerated skills development programs for merged districts.
- Permanent collaboration with NVTTC in high tech trade programs and conventional programs for improving technical skills on campus and off campus.

### ***Research Projects earned by Faculty during 2024-25***

The faculty of Hazara University is actively involved in R&D activities and getting funded projects on regular basis to provide solutions to the problems faced by the society. The details of funded projects under various categories are shown in the below tables.

S#	TITLE OF PROJECT	PI	START DATE	DURATI ON IN MONTH	AMOU NT	SPONSORED BY/Funding Agency	Status
1	Archaeological Excavations at Iron Age Cemeteries in District Chitral	Dr. Abdul Hameed	2021	36	9.98	HEC (NRPU)	Ongoing
2	Identification of DNA-Markers for early detection of Cardio Vascular Diseases in Pakistan	Dr. Aziz ud Din	2022	36	4.95	HEC Under NRPU	On going
3	Exploration, Conservation, Biological Potential Assessment and DNA Barcoding-based Molecular Species Identification of the Selected Pteridophytes of Hazara Division and Adjoining Areas, Pakistan	Alia Gul	2022	36	4.37	HEC Under NRPU	Ongoing
4	Synthesis and Characterization of functionalized Surfaces for the removal of Arsenic from Drinking and wastewater.	Dr. Zarshad Ali	2022	36	4.96	HEC Under NRPU	Ongoing
5	Identification and Functional Characterization of Gene Mutations Causing Asthenzoospermia.	Dr. Manan Khan	2022	36	2.59	HEC Under NRPU	Ongoing
6	Exploring the diversity in Pea (Pisum Sativum) for different stresses and adaptation to the cropping system of Hazara Division.	Dr. Monsif ur Rehman	2022	36	5.96	HEC Under NRPU	Ongoing
7	Exploring the genetic landscape of inherited retinal dystrophies in Khyber Pakhtunkhwa using whole exome sequencing approach.	Dr. Atta ur Rehman	2022	36	5.74	HEC Under NRPU	Ongoing
8	Characterization and Antiviral Evaluation of Multiple TRIM Protenis against SARS-COV-2	Dr. Amjad Ali	2022	36	4.64	HEC Under NRPU	Ongoing
9	Delineation of mutation spectrum for developing the genomic diagnostic kit for screening of genetic skeletal disorders.	Dr. Umm-E-Kalsoom	2021	36	6.27	HEC Under NRPU	Ongoing
10	Population Dynamics of begomoviral complex and its insect vector in vegetable crops of Khyber Pakhtunkhwa	Dr. Ishtiaq Hassan	2022	36	4.75	HEC Under NRPU	Ongoing

11	Genomics Assisted Conservation of Endangered Himalayan Yew in Pakistan	Dr. Rabia Afza	2022	36	7.78	HEC Under NRPU	Ongoing
12	Deep learning based predication support system for anaemic red blood cells, Hazara University, Mansehra	Dr. Syed Hamad Shirazi	2023	24	2.4	HEC Under NRPU	Ongoing
13	Study of Multi-Sided Platform Ecosystem	Dr. Muhammad Gulistan	2022	36	4.83	HEC Under NRPU	Ongoing
14	CRISPR- Cas- Based Promoter Editing of Sweet Gene (s) in Locally Adapted Rice Cultivar (s) in Pakistan for Bacterial Blight Resistance	Dr. Tariq Mahmood	Jul-21	36	6.741	PARC	Ongoing
15	Exploring the signaling role of rice mutant (astoll) in drought tolerance and its future perspective related to develop drought resistance genotypes	Dr. Nisar Ahmad	2023	24	4973800/-	PSF Natural Sciences Linkage Programme (NSLP)	Ongoing
16	“Archaeology and Heritage of the British Period in Khyber Pakhtunkhwa, Pakistan” Pak-UK Education Gateway: Innovative and Collaborative Research Grant (ICRG)	Dr. Shakir Ullah	2022	36 months	PKR 32 Million	Pak-UK Education Gateway: Innovative and Collaborative Research Grant (ICRG)	Ongoing
17	Improving host genetic resistance deployment through surveillance, genotyping and forecasting for wheat rust diseases	Dr. Sajid Ali	Jan, 2023	3 years	USD 30,000 = ~Rs. 10 million (M)	Bill & Melinda Gates Foundation (BMGF) and UK Foreign, Commonwealth & Development Office (FCDO) – through CIMMYT International	Ongoing
18	Genetic diversity in wild olive germplasm across Pakistan using genotype by sequencing technique	Dr. Sajid Ali	July 2023	2 Year	PKR 3.9 M	Italian Ministry of Foreign Affairs and International Cooperation – through	Ongoing

						CIHEAM Bari	
19	Tempo and mode of molecular evolution and host adaptation in dikaryotic fungi – Case study of Pakistan	Dr. Sajid Ali	August, 2022	3 Years	43,044 AUD = ~Rs. 6.7 M	Australian National University, Australia	Ongoing
20	Rust Watch: A European early-warning system for wheat rust diseases	Dr. Sajid Ali	6/1/2018	48	23.3	Sub-grant of EU-H2020 funded by European Research Council	Ongoing
21	Puccinia Striiformis Population Genetic Structure in Tribal Districts of Pakistan and its Control through Wheat Genetic Improvement using non-conventional Germplasm Resources	Dr. Sajid Ali	2021	36	820857	CIMMYT, Mexico	Ongoing
22	“Digital Preservation and Documentation of Ashoka Rock Edicts, Tomb of Sultan Mahmud Khurd and Naukot Fortress District Mansehra: Promoting the Principled Use of Emerging Technologies for Archaeology and Cultural Heritage in Pakistan”	Prof. Dr. Shakir Ullah	2025	6 Months	1,498,786	United States Education Foundation in Pakistan- US Alumni Network (USEFP-PUAN)	Ongoing
23	Development Of Novel Transposon Based Molecular Markers To Explore The Genetic Diversity In Economically Important Crops Of Kp, Pakistan	Dr. Faisal Nouroz	2025	24	2.45	KHYBER PAKHTUNKH WA HIGHER EDUCATION RESEARCH ENDOWMENT FUND.	Ongoing
24	Remote Sensing And Geospatial Analysis For Modeling And Predicting The Impacts Of Climate Change On Glacier Water Resources And Crop Mapping In Pakistan	Dr. Syed Hamad Shirazi	2025	24	2.35	KHYBER PAKHTUNKH WA HIGHER EDUCATION RESEARCH ENDOWMENT FUND.	Ongoing
25	Mapping/Quantification Of Socioeconomic Impacts Of Mphs In Kp	Dr. Sohail Farooq	2025	24	2.261	KHYBER PAKHTUNKH WA HIGHER EDUCATION RESEARCH ENDOWMENT	Ongoing

						T FUND.	
26	Economic Advantages Of Sustainable Practices: Analyzing The Impact On Herbal Plant Production In Hazara	Dr. Misbah Nasheen	2025	24	2.1	KHYBER PAKHTUNKHWA HIGHER EDUCATION RESEARCH ENDOWMENT FUND.	Ongoing
27	“Hands-on Training workshop for college students on Water Sampling and In-Situ Water Quality Monitoring for Geogenic contaminants - Arsenic and Fluoride”	Dr. Junaid Ali Khattak	2025	12	2500 \$	International Granted by Geochemical Society of America	Ongoing
28	Restoration of Chilgoza Pine forests in Khyber Pakhtunkhwa; screening best performing genotypes under changing climate scenario	Dr. Abdul Majid	2025	24	9.5	HEC (NRPU)	Ongoing

### Undergraduate Research Support Funding

It is to inform you that the following students and Principal Investigators are awarded subject grants and a payment of Rs 420,000 has been released to Hazara University Mansehra, vide cross cheque No. 2983774 dated 20-03-25 by the Directorate General of Science & Technology. You are further requested to make expenditures while strictly adhering to the clauses/ terms & conditions of the agreement already signed between the Directorate General of Science & Technology and the students/PI of Hazara University Mansehra, Khyber Pakhtunkhwa.

No	Name	Supervisor Name	Research Grant	PI Honorarium	Total
1	Amman	Dr. Kushi Muhammad	120,000	30,000	150,000

No	Name	Supervisor Name	Research Grant	Student Stipend	Total
1	Fawad Hussain	Ishtiaq Hassan	60,000	75,000	135,000
2	Sheryar Khan	Dr. Monsif Ur Rehman	60,000	75,000	135,000

With best regards

  
Project Manager

## **12. ARCHITECTURAL DESIGNING CENTER (Department of Architecture, Hazara University, Mansehra)**

### **Introduction**

Architecture design cells are recently being established by various universities of Pakistan with different specialties, which benefits faculty, students and university as well. For example, at NED university of Engineering and Technology Karachi Urban Research and Design Cell (URDC) at the Department of Architecture and Planning (DAP) was initiated in 2007 by a group of resident academics / architects and associated professionals with following objectives:

- ✓ Promotion of a new Urban Planning and Design Paradigm.
- ✓ Research & Extension.
- ✓ Provision of a platform for Advocacy, Research and Practice Interaction.
- ✓ Studio as a means of Professional Linkage.
- ✓ Outreach to all concerned stakeholders.
- ✓ Development of Urban Design as a Profession in Consolidation of URDC as a professional body

### ***Architecture Design Cell, Department of Architecture, Hazara University, Mansehra***

If the department of Architecture steps in, for the establishment of Architecture design cell with in the Department following objectives can be achieved:

- ✓ Research studies regarding Contemporary Architecture
- ✓ Architecture design projects within the university
- ✓ A consultancy service for public / private projects
- ✓ Outreach to all concerned stakeholders
- ✓ Internship positions for the students, with field experiences

### ***Required Infrastructure***

No additional infrastructure is required by the department, but only a research lab with provision of computers / Laptops with good graphics

### ***Financial Benefits***

The department can generate finance for itself, stakeholders / Architects involved in the projects and for the university as well.

### ***Academic Benefits***

Establishing a design cell, not just means designing for university and outside, but this will be more beneficial for the students of the department, who can win paid internship within the department and actively participate in the running projects.

### *Design cell to construction firm*

Being a public university, after successful launch of Architecture design cell, we can work for the establishment of a construction firm as well in the future.

### **13. CULTURAL HERITAGE MANAGEMENT**

The Department of Archaeology has launched 2-year Master degree program and a 6- month Post Graduate Diploma (PGD) in Cultural Heritage Management in collaboration with University of Leicester (UK) in 2013.

Cultural heritage management (CHM) is the vocation and practice of managing cultural heritage. It is a branch of cultural resources management (CRM), although it also draws on the practices of cultural conservation, restoration, museology, archaeology, history and architecture. While the term cultural heritage is generally used in Europe, in the USA the term cultural resources is in more general use specifically referring to cultural heritage resources.

CHM has traditionally been concerned with the identification, interpretation, maintenance, and preservation of significant cultural sites and physical heritage assets, although intangible aspects of heritage, such as traditional skills, cultures and languages are also considered. The subject typically receives most attention, and resources, in the face of threat, where the focus is often upon rescue or salvage archaeology. Possible threats include urban development, large-scale agriculture, mining activity, looting, erosion or unsustainable visitor numbers.

The public face of CHM, and a significant source of income to support continued management of heritage, is the interpretation and presentation to the public, where it is an important aspect of tourism. Communicating with government and the public is therefore a key competence.

### **14. International Water Management Institute (IWMI)**

#### **Project Brief – Achievements**

The collaboration between **Hazara University** and the **International Water Management Institute (IWMI)** has led to several impactful achievements, particularly in the areas of sustainable agriculture, faculty development, and student engagement. Key accomplishments include:

#### **✓ Drip Irrigation System**

IWMI successfully installed a **drip irrigation system** on the university campus to promote **efficient water usage** and **sustainable agriculture**. This system is actively utilized by the **Department of Agriculture and Environmental Sciences** and students for practical learning and research.

## Field Assessment

- February 20, 2025 ( IWMI, WWF, & Hazara University ) conducted comprehensive pre-installation assessment survey

### Objective

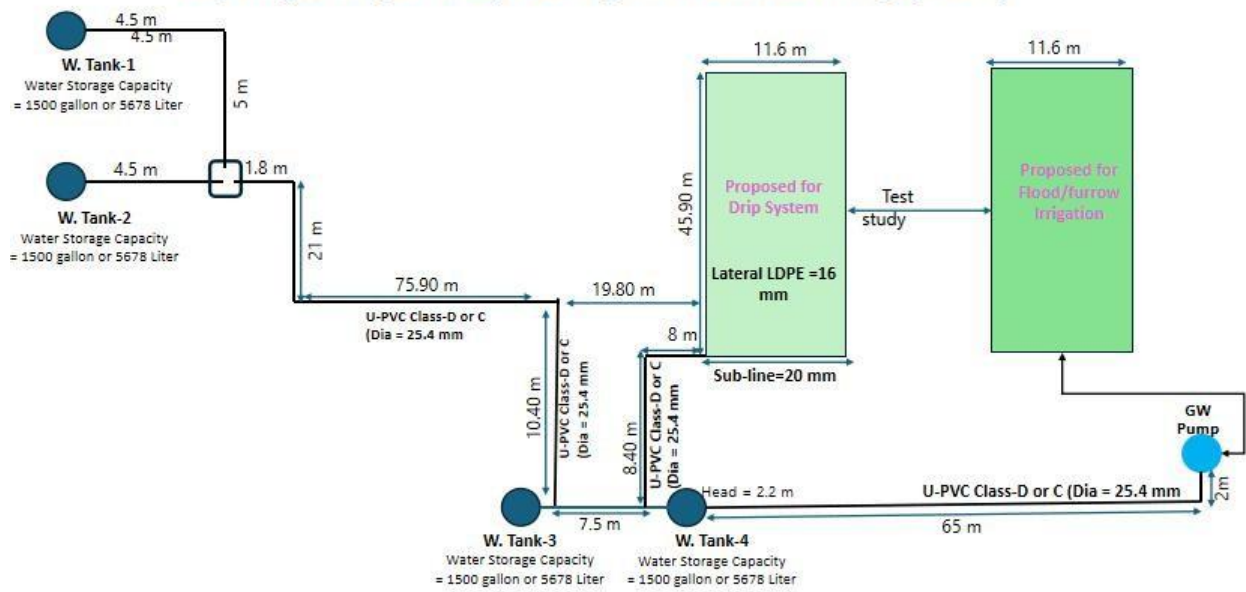
- I. Identification of Water Sources:** Availability & Suitability of water sources, including both rainwater harvesting potential and groundwater reserves, crucial to ensure a sustainable and reliable water supply.
- II. Field Dimensions:** Detailed measurements of the proposed field to plan the layout and scale
- III. Distance of Water Source:** Distance between the identified water sources and the field to evaluate the feasibility of water transportation and distribution.
- IV. Application of Drip System:** Analysis on how the drip system would be applied, considering factors (crop type, soil conditions, and water requirements) . Special attention was given to integrating rainwater harvesting and groundwater usage to optimize water efficiency.
- V. Risk and Challenge Assessment:** Potential risks and challenges (water availability, reliability of groundwater supply , efficiency of rainwater harvesting systems)

## Field Assessment





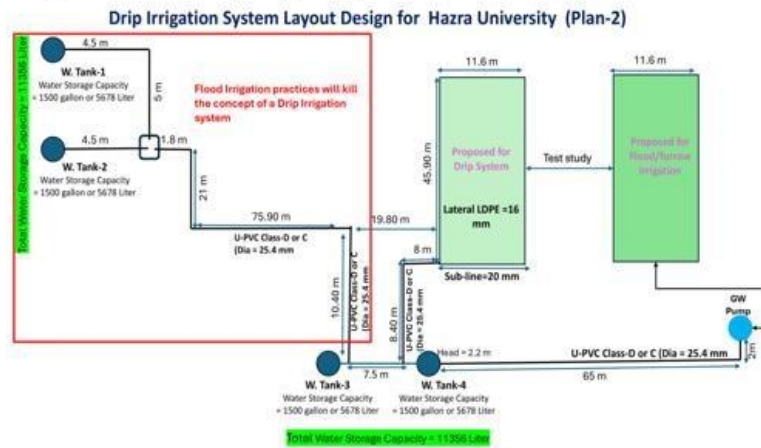
### Drip Irrigation System Layout Design for Hazra University (Plan-I)



**Total Water Storage Capacity = 22712**

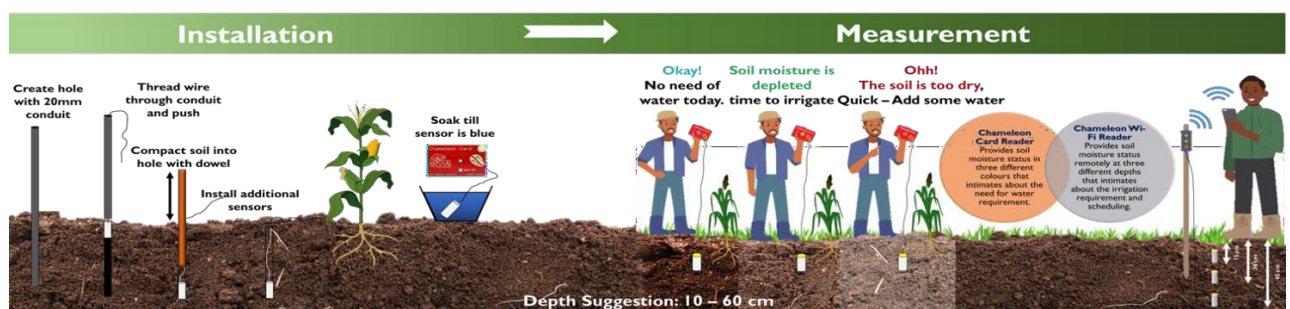
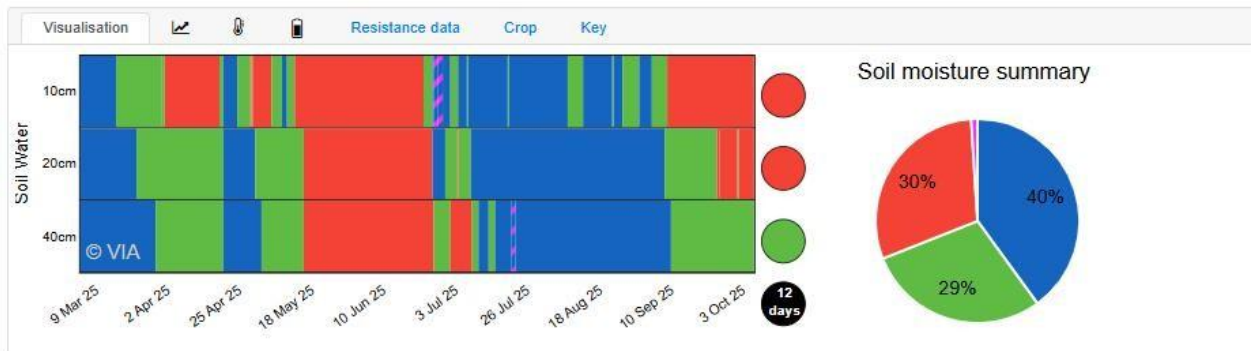
## Drip Irrigation System for Hazra University (Plan-2)

In Plan 2, the proposed drip irrigation system will connect with two rainwater harvesting tanks (Tank-3 & Tank-4) and groundwater sources. By utilizing plan-2 the overall cost of the drip irrigation system is expected to be reduced by 5 to 10% across all operational scenarios. However, a critical challenge in Plan-2 is that the remaining two overhead water sources will continue to irrigate using the flood irrigation method. This practice is counterproductive as it will negate the fundamental benefits of the drip system. Additionally, another major drawback of Plan 2 is that it will reduce 50% of water supplies from rainwater storage tanks for the drip irrigation system.



### ✓ Soil Moisture Sensors

Two **soil moisture sensors** were installed at the university’s agriculture fields, with additional sensors placed at **student-managed farms off-campus**. These installations support **real-time monitoring** of soil conditions, contributing to improved crop management and research outcomes.



## ✓ Internship Opportunities

Hazara University graduate **Mr. Danish Ijaz (MPhil, Environmental Sciences)** has been offered a **fully-funded internship** with IWMI, receiving a **monthly stipend of PKR 100,000+**. Additionally, students frequently visit the IWMI office for hands-on exposure to real-world projects and institutional operations.



## ✓ Workshop Organization & Support

IWMI provided full financial and technical support for the “**Hands-on Training Workshop on Water Quality Assessment**” organized in collaboration with the **Department of Earth & Environmental Sciences**.

**Hands-on Training Workshop on In-Situ Water Quality Monitoring and Groundwater Governance**

Date: April 15<sup>th</sup>, 2025      Time: 10:00 am – 05:00pm

**Hazara University, Mansehra**

## ✓ Faculty Capacity Building

Approximately **20–25 faculty members** participated in capacity-building activities, including **exposure visits** and **hands-on training workshops**. These sessions—held at venues like **Serena Hotel, Peshawar**—focused on equipping faculty with modern tools, technologies, and field-based techniques



## **Solar-Driven Drip Irrigation System**

IWMI have installed Solar Powered Drip Irrigation System at Hazara University Mansehra utilizing rainwater harvesting. 6000-gallon water is stored in tanks installed by WWF, IWMI ensured effective use by making “every drop count” through drip irrigation system and soil moisture sensors.

The inauguration ceremony of solar-driven drip irrigation system installed by International Water Management Institute (IWMI), held on March 25th, 2025, at Agriculture research Farm, Hazara University. Vice Chancellor Prof. Dr. Mohsan Nawaz and Engineer Kifayat Zaman, IWMI Team Lead for WRAP Khyber Pakhtunkhwa inaugurated the system. In the opening remarks, Dr. Asif Javed, HOD, Earth and Environmental Sciences, thanked the IWMI staff for their tireless efforts to install the system and briefed the participants about Hazara University's pivotal role in the implementation of UK AID-funded WRAP project in Hazara District, followed by detailed briefing by Engr. Kiffayat Zaman who gave in-depth briefing on the UK AID-funded WRAP project's core objectives, including enhancing water efficiency and building climate resilience within the agricultural sector. Engr. Kashif from IWMI gave a detailed briefing and demonstration of the system. The system contains four rooftop rainwater harvesting tanks, each with a capacity of 1,500 gallons, installed by the World-Wide Fund for Nature (WWF). These tanks are integrated with a state-of-the-art solar-powered drip irrigation system. Prof. Dr. Muhammad Sajid, from Department of Agriculture, Hazara University, also briefed the participants about the important of this system for water conservation and crop productivity. In his closing remarks, Vice Chancellor Prof. Dr. Mohsan Nawaz emphasized Hazara University's commitment to community-focused collaborations. He explained how the drip irrigation system, alongside IWMI-installed moisture sensors and WWF's water harvesting structures, will transform the university's farms into a dynamic field laboratory. This will allow students to conduct practical research relevant to local farmers. The ceremony was attended by diverse audience including Dean, Faculty of Arts and Humanities, Focal Person, Faculty of Biological and Health Sciences, Manager ORIC, HU, Director Works and Controller of Examination (COE), Faculty, students and staff from Hazara University, IWMI staff and representatives from Government Departments including NTHRI Shinkiari, Agriculture Engineering, Agriculture Extension, On-Farm Water Management, the Public Health Department and Progressive Farmers.



These achievements highlight the **strong institutional linkage** and **effective partnership** between IWMI and Hazara University. They also reflect a shared commitment to research excellence, sustainability, and human capital development.

## 15. World Wide Fund (WWF)

### **Hazara University – WWF Collaboration for Sustainability**

Hazara University and the **World Wide Fund for Nature (WWF)** have collaborated on multiple fronts to advance their shared sustainability agenda. This partnership aims to integrate environmental awareness, climate action, and sustainable development principles into academic and community practices. The collaboration not only enriches student learning but also supports local and regional environmental goals through joint initiatives.

#### **Key collaboration avenues include:**

**Guest Lectures & Expert Talks:** Regular sessions by WWF experts (e.g., recent lecture on carbon sciences and sequestration models) to build student capacity and environmental awareness.

**Research Collaboration:** Joint research on biodiversity conservation, climate change, and ecosystem management.

**Community Outreach Programs:** Joint awareness campaigns and sustainability drives involving local communities and schools.

**Capacity Building Workshops:** Training and workshops for faculty and students on water conservation, waste management, and sustainable land use.

**Internships & Field Exposure:** WWF offers internship placements and field visits for students to gain hands-on experience in environmental conservation projects.

**Green Campus Initiatives:** Collaborative planning and advisory support for making Hazara University a model green campus through waste reduction, energy conservation, and eco-friendly practices.

#### **Activities Conducted under the WRAP Project at Hazara University, Mansehra**

Under the *Water Resource Accountability in Pakistan (WRAP)* project, several initiatives have been undertaken at Hazara University to promote sustainable water management, enhance ecosystem resilience, and support nature-based learning.

##### **1. Rooftop Rainwater Harvesting System:**

A rooftop rainwater harvesting system has been installed at Hazara University to provide an eco-friendly and sustainable irrigation source for research crops and plants cultivated on a 2 Ha land area. The system is designed to conserve clean drinking water that was previously being used for irrigation purposes. Four storage tanks, each with a capacity of 1,500 L, are being installed to collect and store harvested rainwater. This setup will ensure a consistent water supply for the university's agricultural and research activities, while also serving as a practical demonstration of sustainable water conservation practices for students and faculty.

##### **2. Afforestation Initiative:**

In collaboration with Hazara University, WRAP facilitated the plantation of 800 trees comprising 300 *Cedrus deodara* (Deodar) and 500 *Pinus roxburghii* (Chir) across a 2 Ha area

on the university campus. A Terms of Partnership (TOP) agreement was signed with the university to ensure the proper care and long-term maintenance of the plantation. This initiative supports carbon sequestration, improves local biodiversity, and provides a living laboratory for students and researchers to study forest ecology and restoration practices.

### 3. Student Exposure Visit:

Students from the Department of Earth and Environmental Sciences and the Department of Botany participated in an exposure visit to WRAP intervention sites. The visit provided hands-on learning experiences about sustainable land and water management practices, enhancing students' understanding of NbS and their practical applications in addressing climate and water challenges.



### 4. Feasibility of Recharge Well:

A feasibility study for constructing a groundwater recharge well within the university premises has been conducted. The proposed recharge well aims to enhance groundwater

replenishment by utilizing harvested rainwater and surface runoff, contributing to improved local water security and supporting long-term sustainability goals of the WRAP project. Through these initiatives, Hazara University has become an active partner in demonstrating and promoting Nature-based Solutions, integrating sustainability into academic research, and serving as a model for climate-resilient campus development in the Hazara region.

### 5. Establishment of Knowledge Resource Centre:

As part of its ongoing collaboration with Hazara University, **WWF has established a Knowledge Resource Centre** within the **Department of Earth and Environmental Sciences**. This facility is equipped with **computers, high-speed internet access, and a state-of-the-art conference room**, providing students with a conducive environment for **research, academic projects, and collaborative learning**. The Centre serves as a vital hub for promoting environmental education, data analysis, and sustainability-focused research, enhancing students' capacity to engage with real-world environmental challenges using modern tools and technologies.





## 16. SUSTAINABLE COMMUNITIES

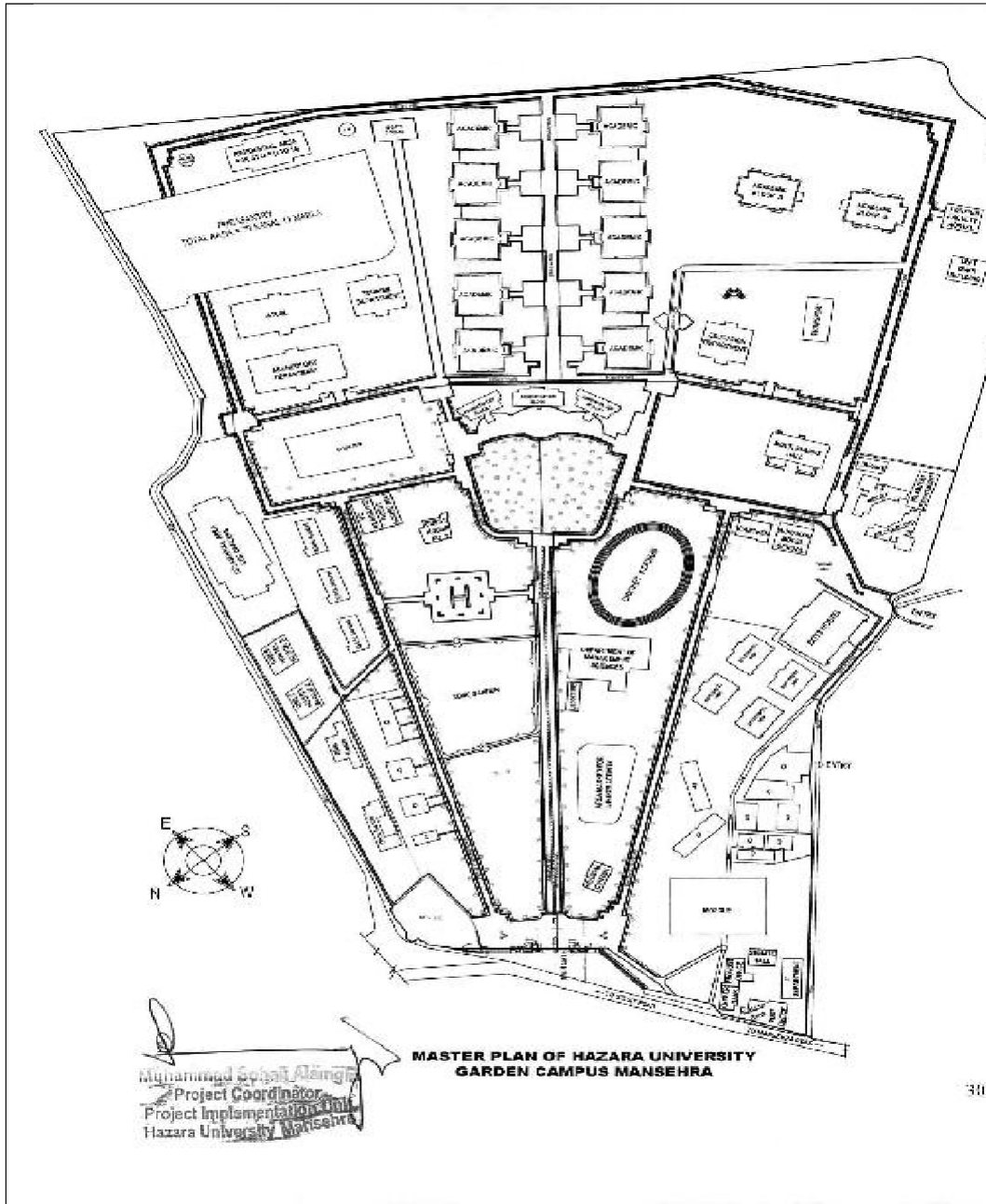
Hazara University is considering, and addressing, students, employees and residents on campus needs, not just focusing few at the exclusion of all others. HU is enabling the environment where students and employees of diverse backgrounds and perspectives feel welcome and safe, where every group has a seat at the decision-making table, and where prosperity is shared. HU manages its natural and financial capital to meet current needs while ensuring that adequate resources are available for the future. Furthermore, HU is seeking solutions to problems such as poverty, inequality, climate change, environmental

degradation and social injustice, which could be the biggest threats to sustainable communities.

To generate and strengthen sustainable communities, universities are engaged in providing inclusive, equitable and quality education. Through innovation in teaching and research, through active participation of all academic stakeholders (teaching staff and students) the university is covering the vision of the Sustainable Development Goals (SDGs) and responding to the problems set out by the 2030 Agenda.

1. The university is training its teaching staff to improve teaching skills and course upgradation to provide skilled based and quality education (**SDG 4** – quality education). The university has established the *Central Research Lab (CRL)* which is providing quality education and training to students with high analytical skills for the future.
2. University is incorporating aspects of the SDGs in the university courses, thus delivering students with the knowledge and skills necessary to address the complex challenges of sustainable development throughout their careers. University has already incorporated courses or academic directions towards specific SDGs (for example, **SDG 6** – Clean Water and Sanitation and **SDG 13** – Climate action).
3. University researchers are working to enhance crops yield to address food insecurity (**SDG 2** – Zero hunger).
4. Research is being carried at university for the synthesis/isolations of various active compounds to address various diseases and to combat/solve environmental pollution problems (**SDG 3** – Good health and well-being)
5. University management has already adopted policies and implemented strategies to address the SDGs and further improve its policies and strategies. The adopted policies are gender equality (**SDG 5** – Gender Equality), appropriate environmental management on campus, moving towards a carbon neutral university, cooperating with the local communities to promote sustainable goals (sustainable use of fertilizers/pesticides, introducing biofertilizers, biological pest control, introduction of suitable crop varieties), providing safe and supporting environment for minorities and handicapped students. University is discouraging fossil fuel combustion and exploiting alternate energy sources, new energy efficient buildings are made, old buildings are renovated to achieve high-energy efficiency and university installed a 300-kW solar power (**SDG 7** – Affordable and clean energy) facility, which soon will provide clean electricity to surrounding communities.
6. Hazara University established a Integrated Resource Recovery Center (IRRC) for the segregation and management of solid waste of Hazara University. Furthermore, the placement of different colors of waste bins creates awareness among the students and residents of university about the types of waste and management (**SDG 3** – Good health and wellbeing, **SDG 15** – Life on land).
7. Hazara University is establishing global linkages with other universities/institutes both on national and international levels to acquire advanced techniques and professional skills to address SDGs related challenges. For example, conservation of natural resources, excavation and preservation of old civilizations in Pakistan, digitalization of flora and Fauna in Pakistan, clean energy production, waste reduction and waste material application in pollution abatement.

## 17. SEWERAGE DISPOSAL



### *Description*

Sewerage / Drainage system of the University is completely underground as per Master plan of University. The university sewerage system is combined in a large underground tank constructed for the purpose of step-by-step settlements of eliminating toxic chemicals and waste. The filter sewerage is entering a large channel outside the campus in the main drainage system of Town Municipal Committee leading to district level sewerage treatment center outside the city.

## 18. SOLID/INORGANIC WASTE TREATMENT

Apart from university administration with collaboration of Govt. of Pakistan NGOs from 2018 has started education campaign regarding waste (organic/inorganic/toxic) management in organization and societies the same is exercising till now.

For this purpose, toxic waste treatment university medical/health center trained laboratory staff regarding different chemicals. The toxic waste treatment is properly categorized step by step and managed by our cleaning staff for disposal in proper containers. See fig above.

The last figure showed neat and clean Hazara University from drone footage as evidence.

### ***Solid Waste Management***

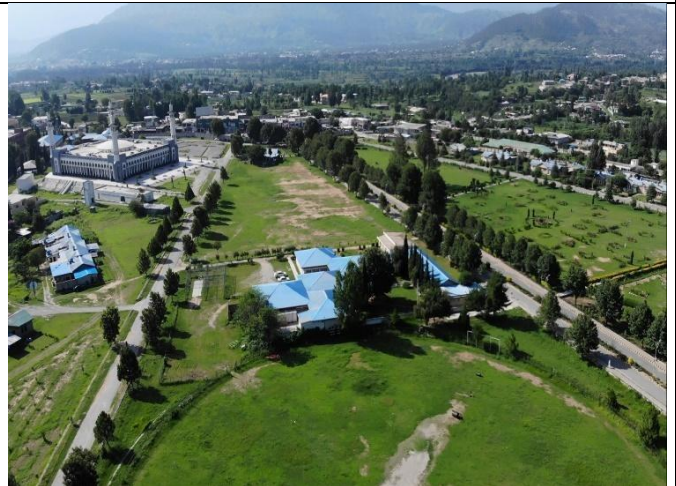
Hazara University management installed waste bins at various sites throughout the campus for solid waste collection. The collected waste is transferred to the recently built Integrated Resource Recovery Center (IRRC) and separated into burnable/biowaste, recyclable and hazardous waste categories. At a later stage the collected waste is recycled and converted to valuable products.

### ***Recycling Program for University Waste***

Hazara University management collects about 50-70 kg of solid waste on daily basis when university is fully operational, while during break time the daily solid waste reduces to about 10-20 kg. Almost 90-100 collection bins are installed at various points in the university for the waste collection. At 17 sites bins are placed in triplicates to segregate burnable/biowaste, recyclable and hazardous waste. The collected waste is transferred to the Integrated Resource Recovery Center (IRRC) and further separated into burnable/biowaste, recyclable and hazardous waste categories. The organic waste is converted into the biofertilizer of good quality and will be used to fulfill the university requirements, moreover this compost would be shared with the local community. The recyclable waste is used to generate mats, decorative artifacts and also transfer the iron, steel, aluminum, paper, ink-cartridges and plastic waste to nearby recycling market to be reutilized. (Khaghan, shinkhari, Mansehra)

Besides, Hazara University has arranged every year through students and faculty cleanliness and recycling programs on campus and outside the university such as public places (parks/waste lands), tourist hubs, and protected (national parks) areas in Mansehra and Abbottabad districts. These programs are sponsored by the district government, Khyber Pakhtun Khawa government and higher education commission Pakistan (HEC) and stress to allows all types recyclables (plastic, paper, glass, aluminum) to be collected in the same place and dispose of to the local recycling agency. However, the university administration is in practice all the year to collect paper, plastic, glass, steel, electronic waste and ink-cartridges from printers etc. and auctioned out to the local recycling agency properly.





## **19. RESPONSIBLE CONSUMPTION AND PRODUCTION (SDG 12)**

Energy efficient appliances usage is replacing conventional appliances. More than 70% of the computer monitors used at the HU campuses are energy efficient LCD monitors. The old Tungsten filament bulbs and fluorescent light tubes are completely phased out and replaced with smart LED lights. Those old ceiling fans which are in good condition are being modified to consume less electrical energy through their conversion to DC source. While others which are completely broken are replaced with new energy efficient fans. Energy efficient appliances are gradually replacing the conventional high energy consumption appliances.

There are various campaigns and directions through lectures, seminars, social media and on campus walks to reduce waste generation. Students are given projects to utilize the waste material to make decors or some valuable products such as mats, manure, ropes etc. The metal waste is provided to recycling market.

## **20. RENEWABLE ENERGY PRODUCED INSIDE CAMPUS**

1. Solar System energy i.e. 19 Kw is used for Tube Well all-day water supply for daily usage.
2. Solar Panels at every building roof the New Academic Blocks are used for energy and all nature lights as energy sources for electricity, heating and lighting in classrooms and corridors of smart building.
3. Small wind turbines are installed at every building for backup energy to the UPS systems for renewable energy as sources.
4. Solar cars are made by students of Physics department to be used in for disabled students' convenience.

5. Planation inside the building used for cooling effects and provide fresh oxygen in all the days.
6. Buildings overhead 'Heat Trap' in winter.

No	Renewable Energy	Production (in kWh)
1	Biodiesel	0
2	Biomass	0
3	Solar panel	36000
4	Windmill	2.5
	<b>Total</b>	<b>36002.5</b>

$36002.5 \times 100/406023$  (renewable energy divided by total usage of the university) = 8.8% (renewable energy %age) per year

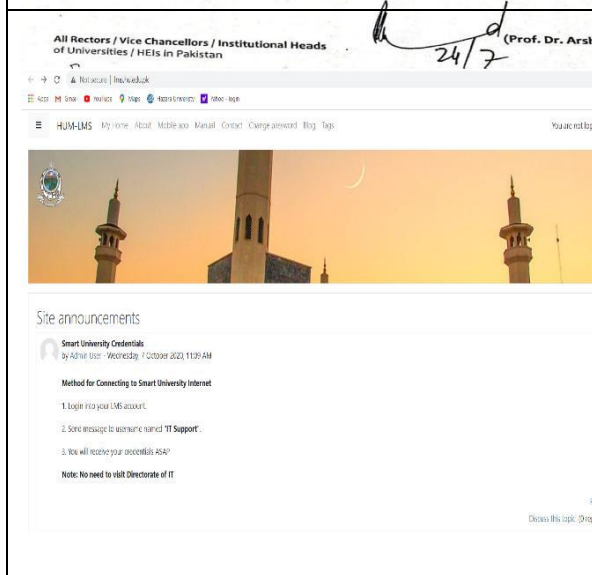
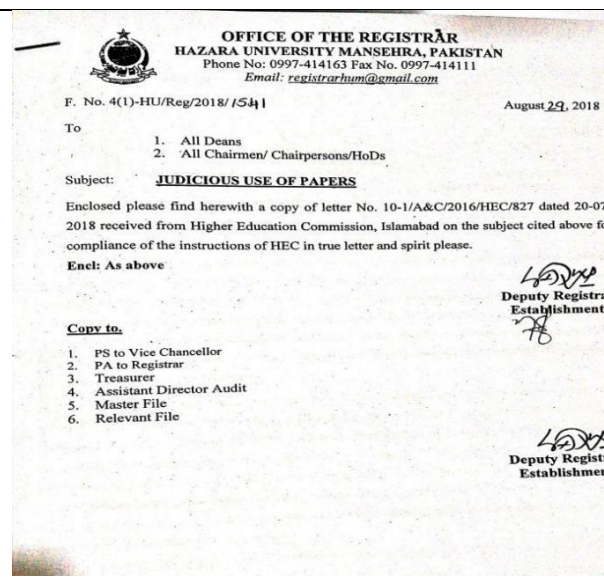
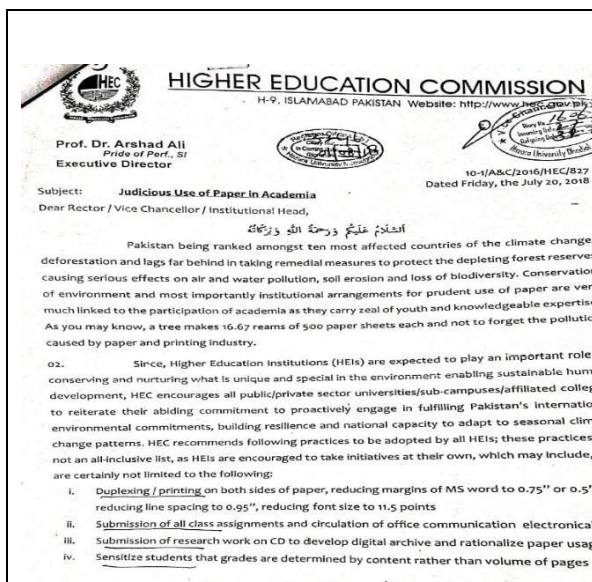
### *Energy Efficient Appliances Usage*



The following is an example of the description of the energy efficient appliances usage on HU campus.

Appliance	Total Number	Total number energy Efficient appliances	Percentage
LED Lamp 12watt	10,500	10,500	100%
Fluorescent tube light 40 watt	3,000	3,000	80%
Fog Lamp	10	10	100%
LED lights 2x2 feet 40 watt	150	150	100%
LED Street Lights	211	211	100%
LED Flood Lights	30	30	100%
		<b>Average Percentage</b>	<b>96%</b>

PROGRAM TO REDUCE THE USE OF PAPER AND PLASTIC ON CAMPUS THROUGH CAMPUS / LEARNING / OPERATION MANAGEMENT SYSTEMS (CMS/LMS/OMS)



1. Hazara University has started Learning Management System (LMS) and Campus Management System (CMS) to support paperless system to reduce paper in daily workplace. Important notices, lecture materials and exam datasheets are circulated through these systems, which is reducing a lot of paper use at Hazara University. Consequently, HUIs playing its role in reducing CO<sub>2</sub> emissions.
2. Re-usable paper in the back office, e.g., using 2-side of paper, always recheck data before print, use online system instead of hard copy.
3. Hazara University has adopted National policy of “Reduce Reuse plastic bag since Aug 29, 2018, till now. University is playing its role in reducing plastic waste in university and outside the university in the Mansehra district through campaigns organized by the university student and teachers’ team.

## **21. BS (FORESTRY) PROGRAM LAUNCHED AT HAZARA UNIVERSITY**

Forests: Vital for Ecosystem Services and Climate Change Mitigation

Forests play a crucial role in maintaining ecological balance and combating the adverse effects of climate change. The Hazara Division, known for its rich natural forest cover, holds immense ecological and environmental significance in Pakistan.

As Pakistan faces increasing challenges due to climate change, there is a growing demand for a well-trained and skilled forest workforce to manage, conserve, and protect our natural resources.

To address the shortage of qualified foresters, Hazara University has launched a Bachelor of Science (BS) in Forestry program. This program is designed to equip students with the knowledge and practical skills required to tackle environmental issues and contribute to sustainable forest management.

### *Seminar on Digital Tools for Forest Management Held at Hazara University*

The Department of Botany, Hazara University, organized a one-day seminar on “Revolutionizing Forest Management with Satellite, LiDAR, Lot-Based Sensors and Digital Tools.” Dr. Samiullah Dawar, Head of the Department of Forestry & Range Management at Kohsar University, Murree, served as the resource person. He delivered a comprehensive lecture highlighting modern tools and techniques in digital forestry and their potential to transform forest management practices.

The seminar was attended by faculty members and students from various departments, who actively engaged in the session and appreciated the valuable insights shared by the expert.





## 22. ENVIRONMENT AND SUSTAINABILITY EVENTS

More than 50 events related to environment and sustainability hosted or organized by the HU in the academic year 2024-25 most of them were awareness programs online with the community. The same is published in the annual report 2024-25 of Hazara University.

Total number of sustainability/environment related events in: 2024-2025: >50

A total average per annum over the last 3 years of **40 events** (e.g. conferences, workshops, awareness raising, practical training, etc.). After neutralizing 2021-24, average per Annum 62 events.





new sustainable infrastructure site visit





*Glimpses of Olive Summit 2.0 titled “Developing Safe, Sustainable, and Ready-to-Export Supply Chain of the Olive Sector” held at Serena Hotel, Islamabad, on October 21st, 2025*

The event brought together experts, researchers, policymakers, and stakeholders to discuss innovative strategies for enhancing the quality, sustainability, and export potential of Pakistan’s olive industry. **Prof. Dr. Ikramullah Khan**, Vice Chancellor Hazara University, graced the occasion as Guest of Honor, highlighting the vital role of research, technology, and academic industry collaboration in strengthening the olive value chain and promoting Pakistan as a competitive player in the global olive market.





***Sustainability Initiatives led by Department of Art & Design***

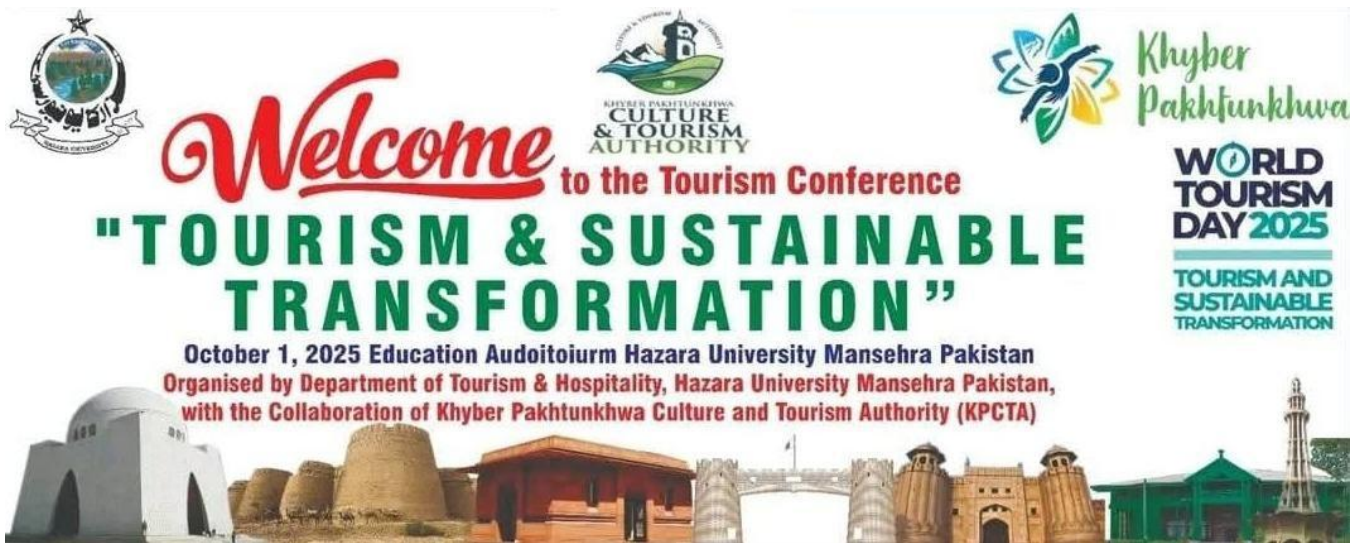
Under the leadership of Dr. Hajra Awan, the Art and Design Department organized a series of impactful sustainability initiatives. These included a Climate Change Exhibition, cleanliness campaigns in the northern regions, and various environmental awareness activities. The efforts aimed to promote environmental consciousness and foster a sense of responsibility and ownership among participants.





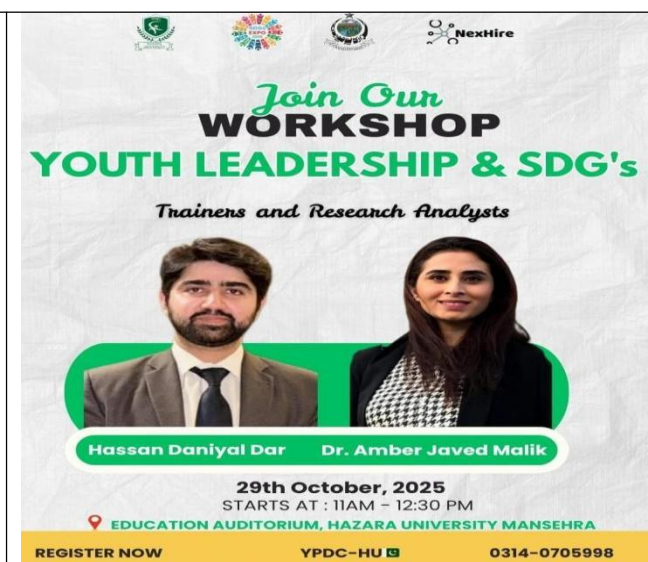
## *Tourism and Sustainable Transformation*

Hazara University celebrated **World Tourism Day** with the theme **“Tourism and Sustainable Transformation,”** emphasizing the vital role of sustainable practices in shaping the future of the tourism industry. The event highlighted how tourism can serve as a driver for environmental conservation, cultural preservation, and community well-being. Speakers and participants discussed the importance of adopting green policies, promoting eco-friendly infrastructure, and supporting local communities to ensure that tourism growth aligns with sustainability goals. The celebration reflected Hazara University’s commitment to fostering awareness about responsible tourism and integrating sustainability principles into education, research, and campus initiatives.



### 23. UNIVERSITY SOCIAL RESPONSIBILITY

1. Hazara university is engaged to fully develop students' abilities with a sense of social responsibility, educating them to become critical participants in a democratic society and promoters of changes that will foster equity and justice.
2. University is emphasizing in providing equal opportunities for all in terms of access, progress and completion of studies, despite different cultural, and social backgrounds.
3. University is making sure that students acquire the knowledge and the skills needed to promote sustainable development, including, among others, human rights, gender equality, promotion of a culture of peace and non-violence, global citizenship, and appreciation of cultural diversity.
4. HU beside advancing science and sharing knowledge with society, also empowering the students through their participation in various events where students feel inclusive.





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# Certificate

This certificate is awarded to  
**Hazara University Mansehra, Khyber  
Pakhtunkhwa (KP) Pakistan**  
as The 463<sup>rd</sup> World's Most Sustainable University  
in 2024 UI GreenMetric World University Rankings

12 December, 2024


**Prof. Dr. Ir. Riri Fitri Sari, M.M., M.Sc.**  
Chairperson of UI GreenMetric

**Dr. Aurangzeb Khan**  
Focal Person, University Rank