



# ANNUAL REPORT

## 2021-22



**Productivity is never an accident. It is always the result of a commitment to excellence, intelligent planning, and focused effort.**

**Paul J. Meyer**



The  
**University of Haripur**  
Restoring Hope; Building Community

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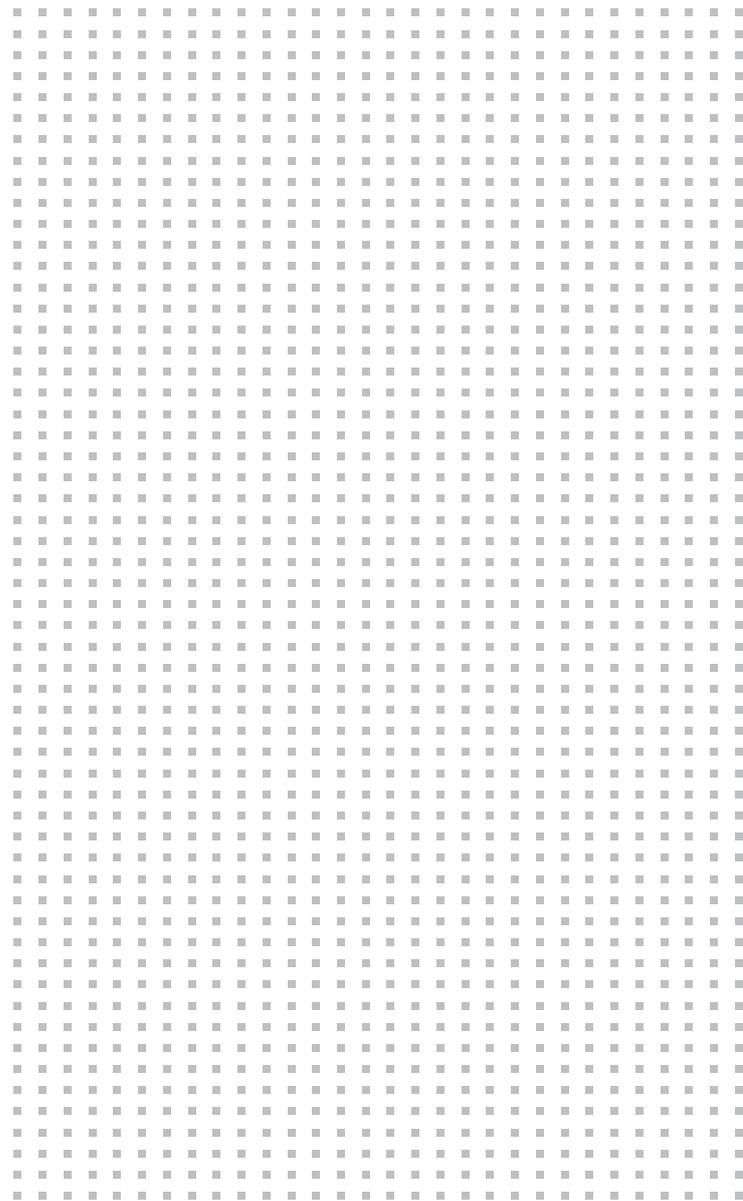
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## ABBREVIATIONS AND ACRONYMS

AC	Assistant Commissioner	M.Phil	Master of Philosophy
AP	Assistant Professor	MoU	Memorandum of Understanding
APO	Annual Plan of Operations	MTDF	Mid-Term Development Framework
APQN	Asian Pacific Quality Network	NA	Not Applicable
AQAIIW	Association of Quality Assurance Agencies of the Islamic World	NGO	Non Governmental Organization
ACCA	Association of Chartered Certified Accountants	NUST	National University of Science and Technology
AAAS	American Association for Advancements of Sciences	NARC	National Agriculture Research Council
ASRB	Advanced Study and Research Board	NRSP	National Rural Support Program
B.E	Budget Estimate	NIH	National Institute of Health
BIC	Business Incubation Center	NTS	National Testing Services
BoS	Board of Study	ORIC	Office of Research Innovation and Commercialization
BoF	Board of Faculty	P&D	Planning and Development
CDC	Carrier Development Center	PARC	Pakistan Agriculture Research Council
CPEC	China-Pakistan Economic Corridor	PMNH	Pakistan Museum of Natural History
Deptt.	Department	PSF	Pakistan Science Foundation
ERP	Enterprise Resource Planning	PTI	Pakistan Tehreek-e-Insaf
F&P	Finance and Planning	PhD	Doctor of Philosophy
FDC	Forest Development Corporation	PITE	Provincial Institute of Teacher Education
FAO	Food and Agriculture Organization	PIMS	Pakistan Institute of Medical Sciences
FY	Fiscal Year	PPAF	Pakistan Poverty Alleviation Fund
GAT	Graduate Aptitude Test	P&D	Planning and Development
HEC	Higher Education Commission	PCSIR	Pakistan Council for Scientific and Industrial Research
HEI's	Higher Education Institutions	PERN	Pakistan Education and Research Network
IF	Impact Factor	PEC	Performance Evaluation Committee
IIUI	International Islamic University Islamabad	QEC	Quality Enhancement Cell
IMSciences	Institute of Management Sciences	R&D	Research and Development
INQAAHE	International Network for Quality Assurance Agencies in Higher Education	SPACM	Society for Peace and Conflict Management
IOT	Indigenous On Campus Training	SUIT	Sarhad University of Science & Technology
IRC	Information Resource Center	SUSI	Study of the United States Institute
IT	Information Technology	ToP	Terms of Partnership
IRS	Islamic and Religious Studies	TTS	Tenure Track System
IRTI	Islamic Research and Training Institute	TMA	Tehsil Municipal Administration
JCR	Journal Citation Report	UAC	University Advancement Cell
KPK	Khyber Pakhtunkhwa	UOH	University of Haripur
LUMS	Lahore University of Management Sciences	USA	United States of America
MAJU	Muhammad Ali Jinnah University	UoP	University of Peshawar
MLT	Medical Lab Technology	VC	Vice Chancellor
MPH	Master of Public Health		
MOST	Ministry of Science & Technology		



## VICE CHANCELLOR'S MESSAGE



**Dear University  
Community Members,**

It gives me great pleasure to offer the annual report for the year 2021-22. This report covers our accomplishments, difficulties and upcoming

objectives as we continue to pursue excellence in research, education, and community involvement.

We have advanced our aim of giving our kids a top-notch education significantly during the past year. Our teachers and staff have shown steadfast passion and commitment, ensuring that our students have a transformative educational experience that will position them for success in their jobs and as responsible members of society.

Our research efforts have remained successful, with ground-breaking findings and creative initiatives leaving a lasting impression in a variety of sectors. Our standing as a preeminent institution of research and innovation has been cemented by the significant funds and collaborations our faculty members have attracted.

We have also made great strides in strengthening our ties with the community. Through community outreach programs, partnerships with local organizations, and initiatives that promote social responsibility, we are actively contributing to the betterment of society.

Despite our successes, we are aware of the obstacles we still have to overcome. We must be flexible and open to change as higher education continues to develop. Our goal is to create a welcoming, varied campus community that values equality, respect, and intellectual freedom.

Looking ahead, we have established challenging objectives for the upcoming year. We will keep making investments in cutting-edge hardware and software to improve our capacity for both teaching and research. By increasing our partnerships with business and community organizations, we will be able to offer more chances for hands-on education and knowledge application in the real world.

The joint work of our faculty, staff, students, alumni, and sponsors made all of these accomplishments possible. I want to thank each and every one of you from the bottom of my heart for your hard work and contributions to the success of our university.

I encourage you to read our annual report, which gives you a detailed rundown of our accomplishments, monetary results, and strategic priorities. Let's start a new year of academic excellence, innovation, and transformational influence together.

I'm grateful.  
Sincerely,

**Prof. Dr. Shafiq Ur Rehman**  
Vice Chancellor, The University of Haripur



## EXECUTIVE SUMMARY

The present report expounds a scrupulous account of multifarious endeavors accomplished during fiscal year 2021-22. The year under review concentrated essentially on an institutional culture that inspires ingenuity, fosters creativity, nurtures productivity, encourages flexibility, and care for academic excellence. The reporting period witnessed remarkable growth and sustained development in diverse facades of UOH academics, research, and administrative spheres. The hallmarks of fiscal year 2021-22 are as follow:

**Academics:** During the year under review student enrollment raised by 14% (6395) against the baseline of preceding years (5598). Similarly, no. of academic programs increased from 97 to 115. To streamline academic and research business on professional footings, a total of 48 BoS (Board of Study) meetings of various academic departments, 12 ASRB (Advance Study and Research Board) meetings and 06 Academic Council meeting were held. These meetings aimed to review, evaluate, update and upgrade the existing status of courses/curriculum, research trends and practices in tandem with contemporary higher education standards. During the reporting period, the university issued a total of 2001 degrees (BA/BSc/BS (Hons.)/MS/MPhil/PhD) Scholarships worth Rs. 73.03 million were awarded to 721 students during the FY 2021-22.

A comprehensive training program funded by USEFP (United States Education Foundation-Pakistan) was implemented that aimed at capacity building of university faculty in academic leadership, modern teaching practices and applied research. A total of 28 training session dispensed by national and international trainers trained over 30 faculty members. Similarly, over 50 faculty members were given leadership training from Pakistan Institute of Management. These programs focused predominantly on aspects of organizational behavior and leadership qualities, modern day teaching/research approaches and relationship strategies with organizations of international repute. Linkages were established with 06 reputable organizations and 12 institutes of global standings to acquire excellence in academic and research business as well as enhance our brand image.

**Research and Development (R&D):** R&D sector demonstrated colossal headway against the baseline of preceding year. To embolden an innovative culture of applied research generating new discoveries, creating new knowledge and making an early impact on society. A total of 558 research papers having 1379.056 impact factors were published in HEC recognized journals. The year under review witnessed enormous progress of 65% growth in research publication against the baseline of 2019-20. During the reporting period, a total of 33 research projects amounting to Rs.233 million were secured from diverse national and international donor organizations. Through ORIC a total of 57 faculty were members were provided opportunity to participate in national and international conferences, seminars and workshops pertaining to applied research and development.

**Quality Assurance:** Quality Enhancement Cell of -UoH plays a central role in quality enhancement through implementation of HEC set evaluation assessment and accreditation policies. Placement of QEC-UOH in Y category by HEC Quality Assurance Agency was due to Covid pandemic during 2021.

QEC-UOH secured over 52% marks in HEC Yearly Progress Review Report. UoH has accredited its 10 programs, 01 by National Computing Education Accreditation Council (NCEAC), 01 by National Business Education Accreditation Council (NBEAC), 06 by National Agriculture Education Accreditation Council (NAEAC), 01 National Education Accreditation Council (NEAC). Similarly at the international level UOH secured membership of Asian Pacific Quality Network (APQN), QEC Yahoo Network, Talloires Network, Association of Quality Assurance Agencies of the Islamic World (AQAAIW), Asian Pacific Quality Network (APQN) and International Network for Quality Assurance Agencies in Higher Education (INQAAHE). QEC also assessed 18 SARs of academic programs and Internal assessments of all postgraduate degree programs.

**Physical and Technological Infrastructure Development:** The university secured PSDP project through HEC worth Rs.1546.960 million. The project comprises of capacity building components, physical infrastructure development component, research infrastructure development, technological infrastructure development, purchase of vehicles as well books and journals. The project is implementation phase and has and is 75% financial progress has been achieved. Of the total 11 civil work components 05 have been almost completed and will be handed over to university administration shortly. Transport and library components have been 100% accomplished and 40% lab equipment procumbent whereas furniture and fixture procurement shall be initiated following completion of buildings. So far a total of Rs. 943 million out 1546.960 millions have been spent.

**Digitalization of UOH:** Advance technology has offered HEI's a global reach and universities are better off to develop an ever-increasing coordination and cooperation with organizations and institutions of global repute. In response to these global changes, UOH has completed its digitalization process through ERP. Smart University project has completed through which whole campus has acquired Wi-Fi connectivity. Internet connectivity has been upgraded from PERN-1 having 32 mbps speed to PERN-2 of 142 mbps connection speed. Network nodes increased from 1600 to 2150. User accounts have been created and every user have achievable data rate of 4Mbps.

**University Governance:** Improved governance within universities depends largely on the active role of statutory bodies. During FY 2021-22 a total of 09 meetings of Syndicate, 03 Senate, 06 Academic Council, 02 Finance and Planning Committee (F&PC) and 12 ASRB meetings were held. During these meetings approvals were granted to a myriad of academic, research, administrative and financial matters.

**Extracurricular Activities:** UOH shown phenomenal results in extracurricular activities as well during FY 2021-22. In HEC Intervarsity Championship, UOH remained winner in 02 sports events ball and qualified for semifinals in 02 sport events. Similarly in Inter-Collegiate Games Championship, out of the total 15 sports events UOH remained winner in 6 sports events, runner up in 5 sports events and received 3rd position in 2 sports events. In overall points table UOH and Government Post Graduate College Haripur (GPGC) stood 1st by securing 78 points and shared Champion Trophy with GPGC-Haripur.

# THE UNIVERSITY OF HARIPUR

## AT A GLANCE

The existing campus of UoH covers an area of 236 Kanals and was in the administrative control of Forest Development Corporation (FDC), Khyber Pakhtunkhwa till January, 2008. This was Rosin and Turpentine factory being established in 1953 for the purpose of fulfilling rosin and turpentine requirements of Hazara region in particular and rest of the country in general. Due to non-availability of raw material the factory was abandoned in 1980 and remained idle for almost two and a half decades.

In view of its strategic location (lying at the confluence of two industrial zones namely Hattar and Gadoon industrial estates), availability of necessary infrastructure and reasonably sufficient land available for future expansion, it was felt seriously to make efficient use of the former factory. The then Vice Chancellor, Hazara University initiated dialogues with the provincial government and FDC and finally the factory was handed over to Hazara University and was given the status of Haripur Campus-Hazara University on March 8, 2008.

The academic journey in Haripur Campus started in April, 2008 with initial enrollment of 150 students in 03 academic departments. Since then till 2012 significant growth was witnessed in diverse spheres and the number of students raised to over 1600 in 07 academic departments. Similarly the number of faculty members raised from 05 in 2008 to 83 in 2012 (of which 18 were PhD, 30 MS/Mphil and 35 M.A/M.Sc).

In view of significant growth and tremendous students from district Haripur and its adjoining areas (Hassanabal, Chaj, Swabi, Mardan, Pindi and Islamabad etc), the Haripur campus came up with three clear and distinguished features;

- ❑ Firstly, it proved that there is huge potential at Haripur campus to attract thousands of students from Haripur and its adjoining districts. It attracted more than sixteen hundred students in just seven academic departments functional over a period of 04 years. It is worth mentioning that the campus had only two departments under faculty of sciences i.e. Department of Environmental Sciences and Agricultural Sciences. With establishment of other departments in the field of Sciences such as Chemical Science, Biological Science, Physical and Health Sciences, this enrollment could boost by 2-3 times.
- ❑ Secondly, the number of female enrollment in different programs being offered is more than 67%. This high enrollment ratio of female students, even lacking hostel facilities at campus, clearly indicates the potential for female education demand in Haripur and its adjoining cities.
- ❑ Third and lastly, the commencement of postgraduate programs (M.Phil/Ph.D) in Environmental Sciences, Agriculture, Education and Islamic and Religious Studies has proved highly successful. The campus has received high student support in these programs. Total enrollment being offered by the Department of Environmental Sciences alone stood at 100 plus in 6 batches. Based on current rate of increase and future demands, it was estimated that enrollment will rise up to 5000 with commencement of five more departments.

The scenario elaborated above provided strong basis for the up-gradation of Haripur Campus to the status of an independent public sector university. The case was taken up by the HED-KPK on March 24, 2012 and the project for UoH was approved followed by passing of Act from KPK assembly on July 04, 2012. The first Vice Chancellor was appointed on September 04, 2012 and UoH was formally recognized as an independent Public Sector University by HEC on January 10, 2013.



## Vision, Mission & Goals

**Vision** The University of Haripur envisions a research based, quality conscious, demand driven future to acquire excellence in diverse fields to restore hope and build community at large

### Mission

The University of Haripur (UoH) is committed to nurture holistic development of students as good citizens and leaders of change through strength in research, excellence in education and character building, all dedicated to providing meaningful contributions to society.

### Strategic Goals

To advance this mission, The University of Haripur will;

1

Respond to identified needs in the regions and country and offer academic and technological programmes of high quality.

2

Seek and create opportunities to enhance student services and student life and development

3

Consider students' perspectives, needs and provide support and recognition

4

Foster the free exchange of ideas in an ethical, interdependent, and diverse community of faculty, staff, students, and alumni

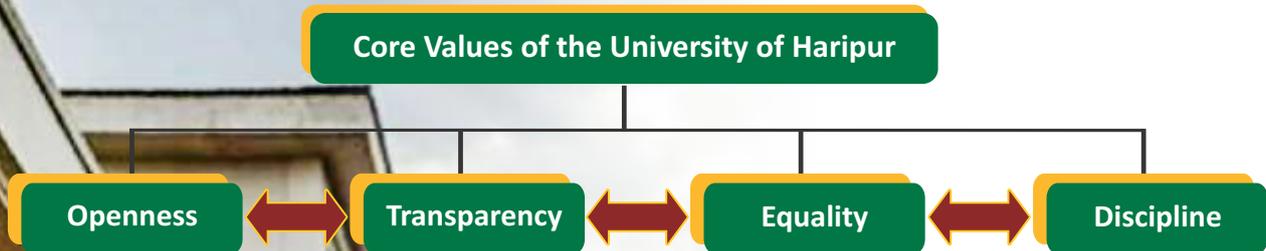
5

Exercise accountability to our stakeholders, uphold our integrity and endorse fair practice.

## CORE VALUES

The establishment of University of Haripur (UoH) as providing opportunity for strengthening and extending the important relationship between modern sciences and Islamic, social action and thus providing a platform for a more just and prosperous world. Accordingly, UoH is envisioned potentially to provide a tangible symbol of resurrection hope for the Muslim

ummah. By determining that it shall be a university for the whole of Pakistan and be accessible to all who are qualified-irrespective of their religious stance. It will also stand for peace and unity. With this recognition in mind the University of Haripur will follow the following core values in its day-to-day routine official business and management.



### Openness:

The University will observe openness as core value in its official business. Openness to foreign values, religious beliefs, ethnic profiles, changes in government policies, plans and programs. Each and every aspect of the official business shall have a built in resilience mechanism to accommodate itself in the changing circumstances.

### Transparency:

The University shall observe and ensure transparency in every sphere of its academic/administrative set up. Each and every aspect of the official business shall have a clear, fair and transparent procedure/system to achieve and sustain excellence in diverse fields.

### Equality:

By determining that University of Haripur shall be for the whole of Pakistan. Everyone belonging to diverse corners of the country, having varied social, cultural, economical and religious backgrounds, gender etc fulfilling the required criteria and standards shall have equal opportunities to avail educational, research and work facilities.

### Discipline:

The University will observe, maintain and sustain discipline in every field to acquire high standards in its administration, academic and research area. This will ensure sustainability in every effort, approach and action for the pursuance of University mission accomplishment.



# ACADEMICS

At The University of Haripur



"The task of excellent academics is to stimulate "apparently ordinary" people to unusual effort. The tough problem is not in identifying winners; it is making winners out of the ordinary people"

Patricia Cross



The **University of Haripur**  
Restoring Hope; Building Community



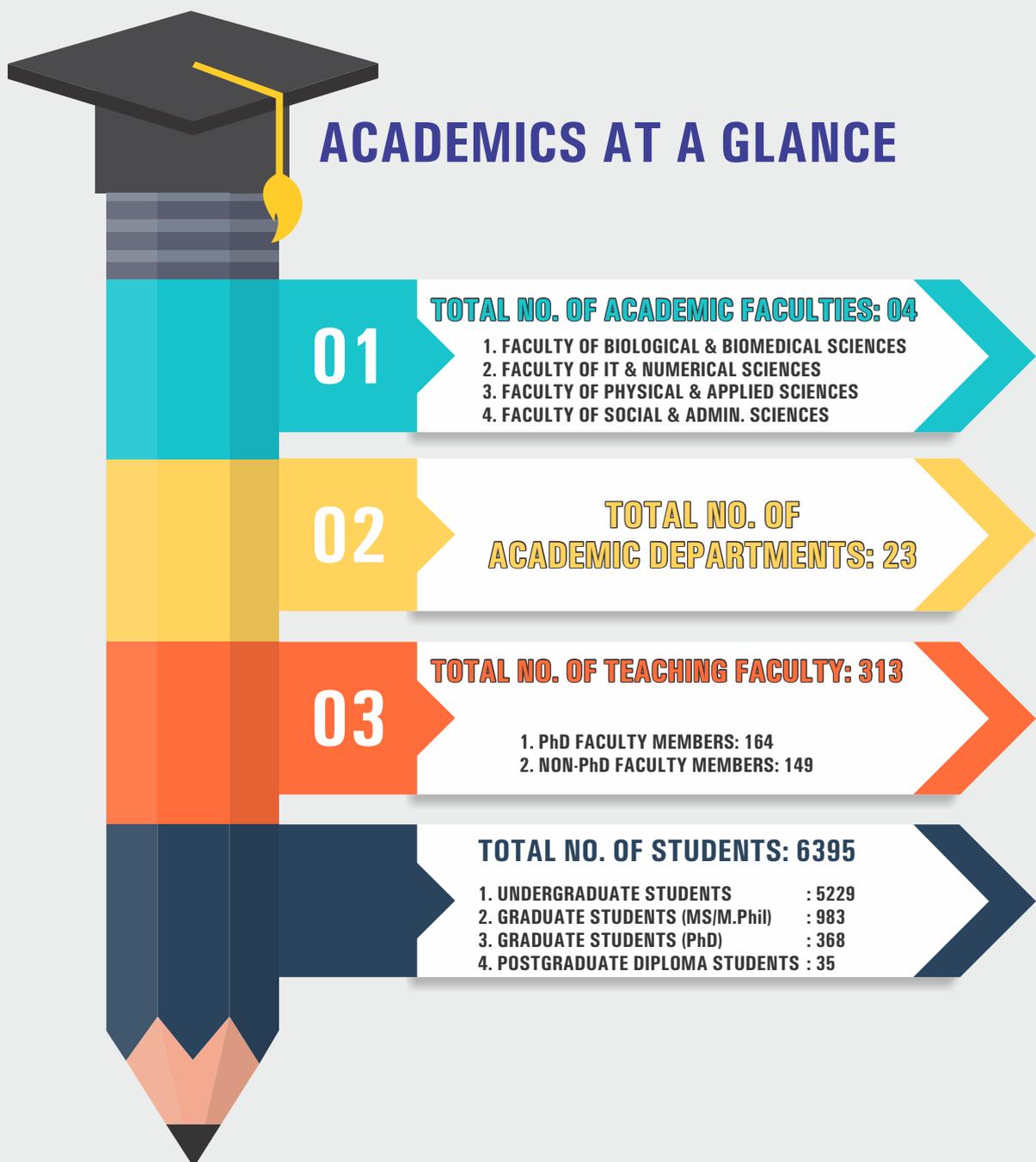
## 1.1. OVERVIEW OF ACADEMICS AT UOH

Currently UOH offers a total 115 academic programs in 23 departments at undergraduate, graduate and postgraduate level. At present 04 academic faculties namely Faculty of Biological and Biomedical Sciences, Faculty of Information and Numerical Sciences, Faculty of Physical and Applied Sciences, Faculty of Social and Administrative Sciences are managing the academic and research business of the University.

These programs are designed in view of its contemporary and emerging needs, application, and recognition at the local, national and international level. All academic programs are designed in such a way to equip student with essential

knowledge and needful skills empowering them to proficiently compete and professionally perform in the open market.

Of the total 23 departments, 09 were under the purview of accreditation and all of them are being accredited by their respective accreditation councils. QEC-UOH has established its own internal mechanism to guarantee that all quality standards are profusely recognized, copiously embraced, effusively adopted, and timely applied. The following schematic diagram provides a meticulous account of detailed academic programs functional at present.





## CURRENT ACADEMIC DEPARTMENTS

### 1 FACULTY OF BIOLOGICAL & BIOMEDICAL SCIENCES

Department of Biology  
(Botany, Zoology,  
Biochemistry)

Department of Medical  
Lab Technology

Department of  
Microbiology

Department of Public  
Health & Nutrition

### 2 FACULTY OF IT & NUMERICAL SCIENCES

Department of  
Information Technology

Department of  
Mathematics & Statistics

Department of Physics

### 3 FACULTY OF PHYSICAL & APPLIED SCIENCES

Department of Chemistry

Department of  
Earth Sciences

Department of  
Environmental Sciences

Department of Forestry  
& Wildlife Management

Department of Food Science  
& Technology

Department of Agricultural  
Sciences

### 4 FACULTY OF SOCIAL & ADMIN. SCIENCES

Department of Economics

Department of Education

Department of  
History & Politics

Department of Islamic  
& Religious Studies

Department of Linguistics

Department of  
Management Sciences

Department of Psychology

Department of Sports  
Science & Physical Education



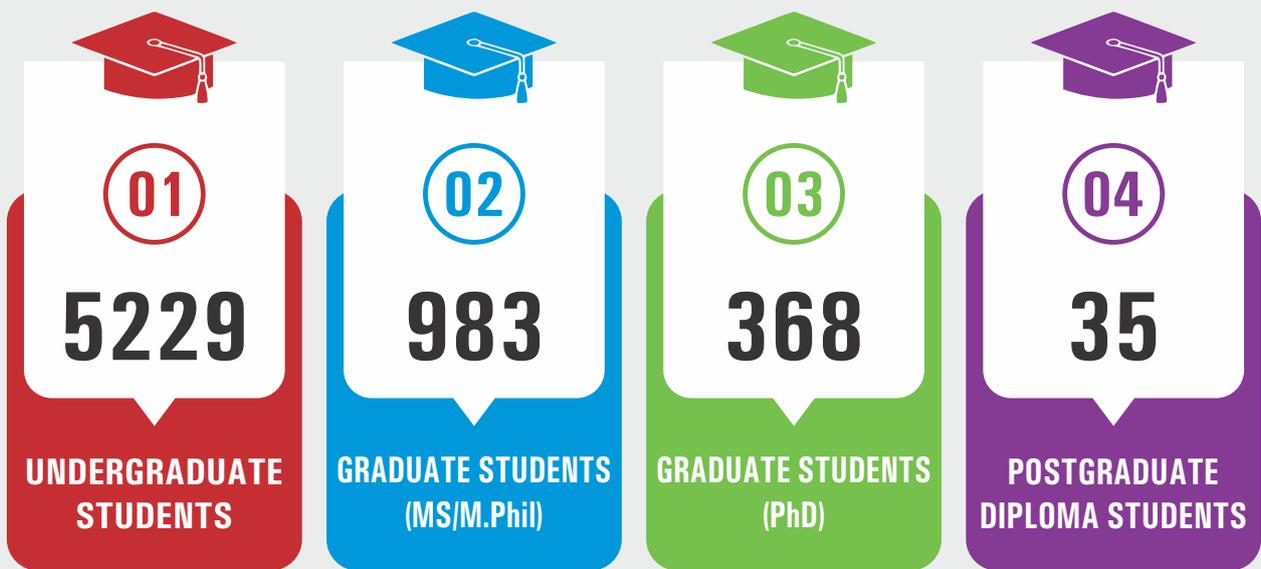
### 1.2. STUDENT ENROLLMENT

The FY 2020-21 witnessed sustained growth in student enrollment (upsurge of 14% against the baseline data of 2020-21). This upturn could modestly be ascribed to initiation of new market demanded academic programs and recognition and accreditation of UOH academic programs by HEC, placement

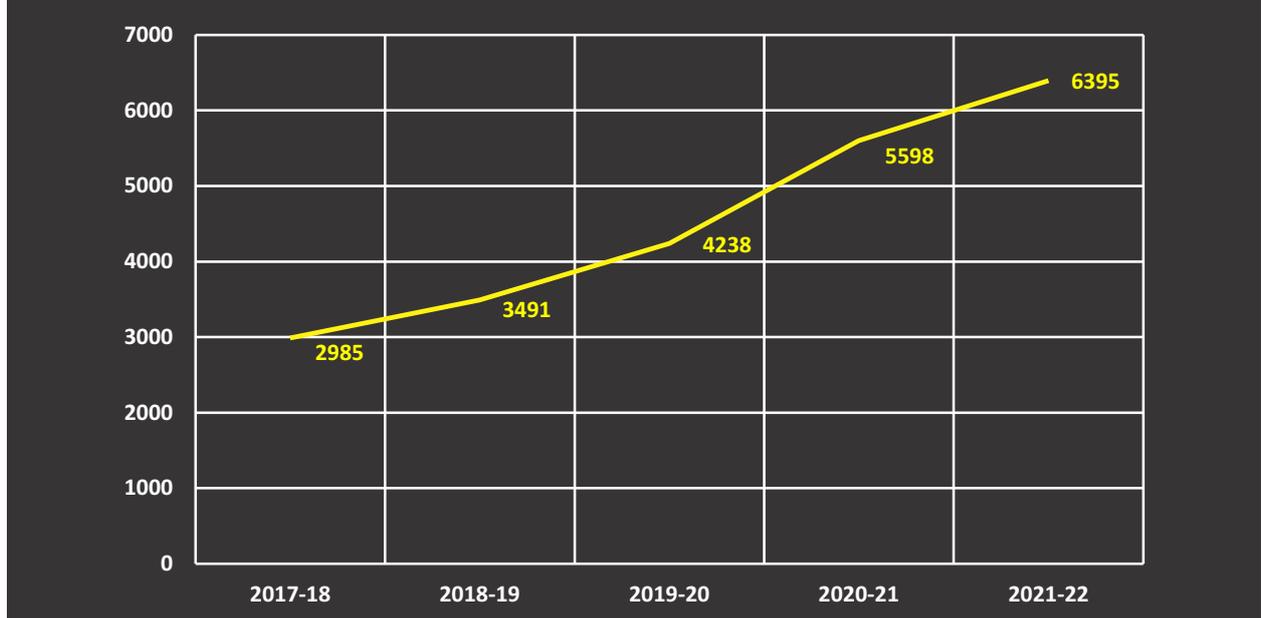
of internal quality assurance mechanism and system, digitalization of UOH academic and research business and hard work of all faculty members. Tendencies in student's enrollment overtimes are briefly elaborated in figure 1.

## TOTAL STUDENT ENROLMENT IN 2021-22

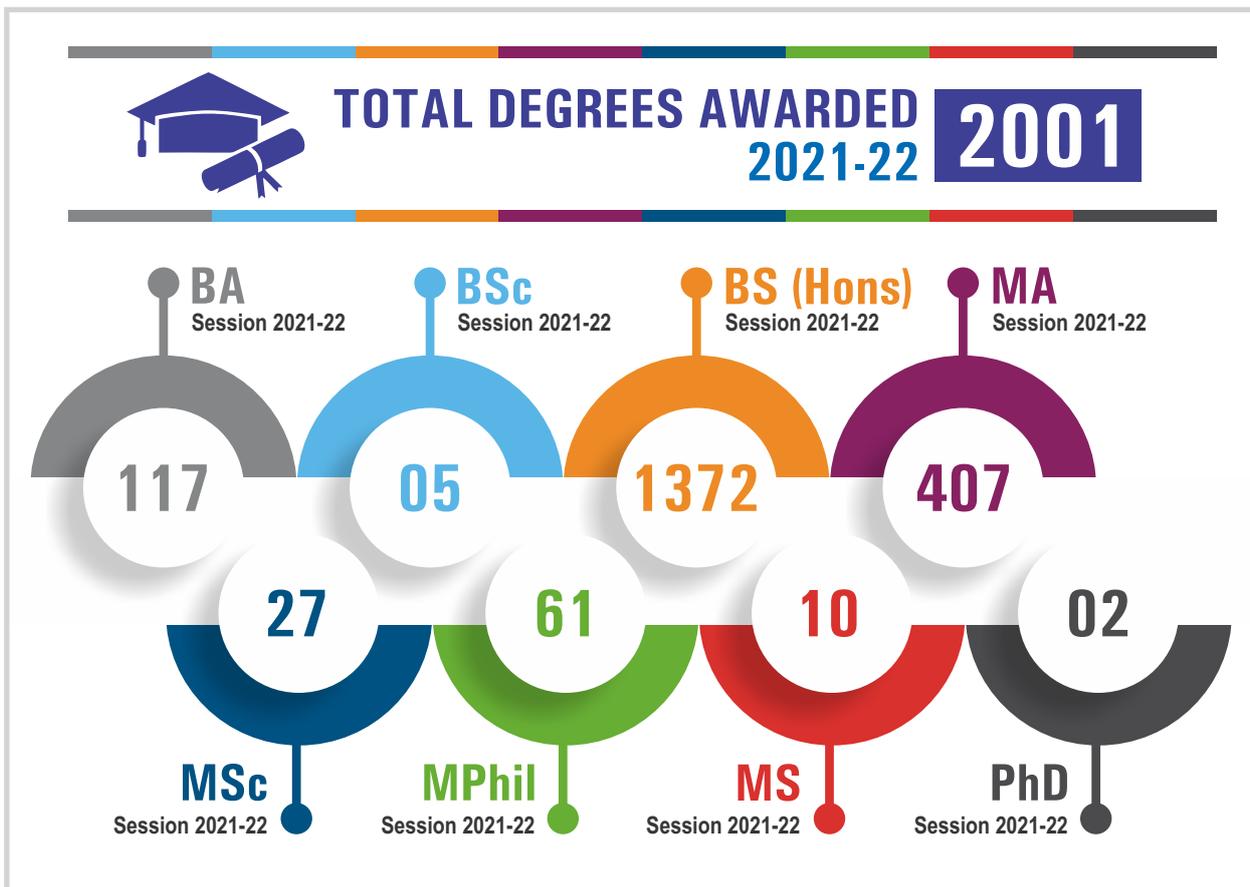
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**Fig 1: Trends in Student Enrollment Overtime (2017-22)**



**1.3. TOTAL NUMBER OF DEGREE AWARDED**



**1.4. BOARD OF STUDY (BOS) MEETINGS DURING 2021-22**

To keep curriculum in tandem with modern day needs, updating and upscaling of academic programs on consistent basis is of pivotal importance. During the reporting period, a total of 11 BoS meetings of different departments for varied academic programs were held. Diverse range of agenda points pertaining

to academic, research and administrative aspects of various academic programs and departments were deliberated upon, addressed and granted approval during these meetings. Following tables offers an exhaustive overview of the BoS meeting held during 2021-22.

**1.5. FACULTY STATUS, STRENGTH AND DEVELOPMENT**

**1.5.1. Trends in Faculty Strength and Profile Overtimes (2021-22)**

During the year under review faculty strength viewed 20% growth in 2020-21 against the baseline of preceding year. It was 248 in 2020-21 whereas now it is 313. At present a total of 313 faculty members are running the academic and research

business of 23 departments. Of the total faculty members 164 are PhDs whereas 149 are MS/MPhil. Faculty student ratio during the reporting period remained as 1:20 against the previous year ratio of 1.1:23. Figure 2 & 3 gives detailed accounts existing faculty members engaged in teaching and research at the University of Haripur.

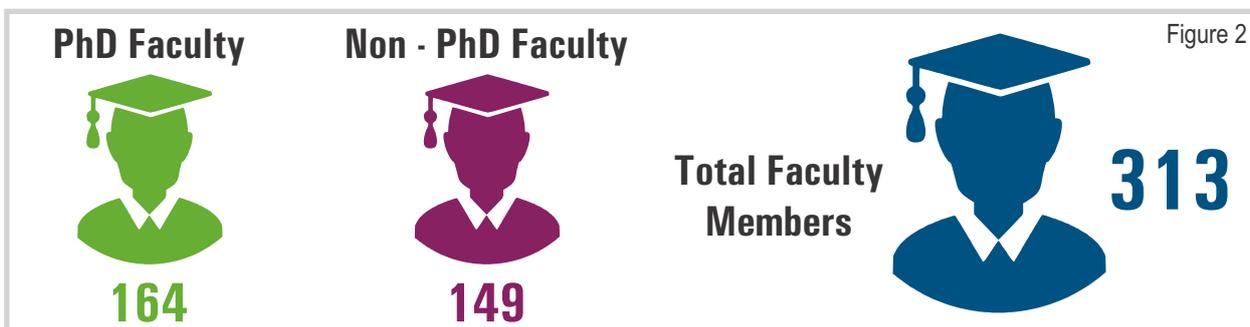
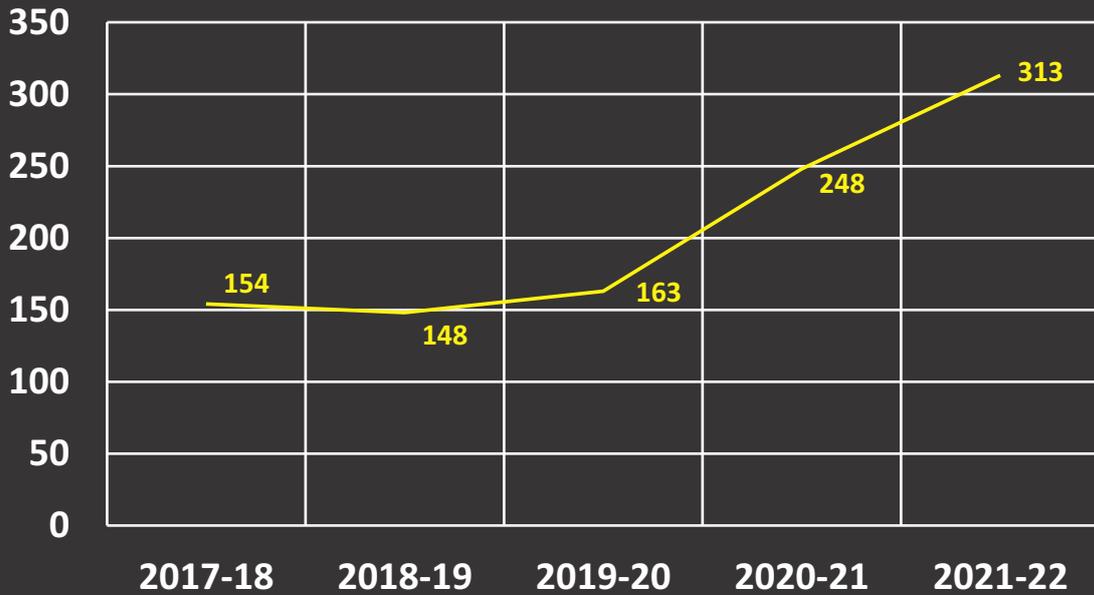


Figure 2

**Fig 3: Trends in Faculty Strength Overtimes (2017-2022)**



**1.5.2. Faculty Development**

The long term sustainability of any HEI depends largely on the outstanding performances of its faculty members. They would continue to sustain excellence in teaching and applied research provided they are offered opportunities where their personal, professional and organizational skills, knowledge, abilities and capacities are regularly built, updated and upgraded. Faculty development program at UOH focuses and emphasizes on the following priority areas.

- Regularly updating, upgrading and upscaling professional skills, knowledge and abilities of faculty members through short-term on job professional development trainings
- Encouraging and promoting faculty members for improving their qualification through pursuing higher studies
- Providing travel grants and sponsoring inland faculty member participation in conferences and seminars

During the fiscal year 2021-22, following worth mentioning activities were undertaken for faculty development.

**1.5.2.1. Faculty Development Programs**

The University of Haripur believes in constant updating, upgrading and upscaling of its faculty members to ensure quality in broader spectrum of its academic and research business and in this regarding is investing heavily in their capacity building. Following table give a brief account of UOH

faculty members participation in trainings, seminars and workshops.

**1.5.2.2. Conference, Seminars and Workshops**

In view of globalization, technology advancements, improvements in workplace ethics, methods and strategies pertaining to teaching and research, there comes a need for employers and employees to align with these changes in terms of knowledge, skills, values and abilities. One of the best ways to enhance knowledge and skills is through arranging and participating in conferences, seminars, workshops and trainings. Getting faculty members exposed to relevant and consistent training can help universities improve performance and increase productivity in the workplace. These events are important because it represents a good opportunity for faculty to grow their knowledge base and improve their job skills to become more effective in the workplace. Despite the cost of training for employees, the return on investment is immense if it is consistent.

To enable UOH employees for matching highest standards of acceptance and practice, faculty members participated in a total of 27 events were organized by different departments at UOH during 2021-22. The basic objective of this initiative was to build the professional capacity of UOH faculty and administrative staff in diverse range of academic, research and administrative governance enabling them to efficiently, effectively and professionally perform at different levels. Details of the trainings/workshops/seminars are as follow:



**Faculty members attended conferences/workshops/trainings.**

Sr.No	Name of Faculty Member	Title of Conference/Workshops/Training	Date
1.	Dr. Muhammad Ikramullah	One Day Conference "5th International Conference on Islamic Business – ICIB 2021" on "Islamic Finance: The Need and Prospects of Moving to Social Finance", Riphah Centre of Islamic Bussiness (RCIB), Riphah International University, Islamabad	February 27, 2021
2.	Dr. Muhammad Ikram Ullah	03 Days Conference on "1st International Conference on Modern Trends in Humanities and Social Sciences (ICMTHSS) 2021", Academic Research & Policy Foundation, Islamabad, Hosted by Department of Humanities and Social Sciences KFUEIT RYK	August 03 – 05, 2021
3.	Dr. Muhammad Ikram Ullah	O2 Days Teacher Training Workshop on "Teachers Shifting to Teaching Online" U.S Mission, Pakistan and University of Wah	September 11 - 12, 2021
4.	Dr. Muhammad Ikram Ullah	One Day Talk Session on "Theory of Building and the PhD Journey: A Practical Approach", ORIC The Superior University, Lahore	October 03, 2021
5.	Dr. Muhammad Umar	Workshop" Promoting Excellence in Acadmic's across Pakistan	1-2 Feb 2022
		Embracing Change and Transformation in Society	07-09 June -22
		Conference " Diamond Jubilee Celebrations of Pakistan (1947-2022)	7-8 Sep 2022
6.	Nouman Khan	Embracing Change and Transformation in Society	07-09 June -22
		National Conference on Religious Madaris in Pakistan	17-18 June 22
7.	Waqas Ur Rehman	Embracing Change and Transformation in Society	07-09 June -22
8.		National Conference on Religious Madaris in Pakistan	17-18 June 2022
9.	Dr. Majid Hussain	One day Seminar "Application of GIS in Forestry"	Feb. 2022
10.	Prof. Dr. S. M Nizami	Orientation Sessions	Nov 2022
11.	Dr. Mohammad Saleem / Dr. Majid	Study Trips to Gilgit Baltistan.	April 2022
12.	Dr. Mohammad Kabir	Wildlife surveys conducted with KP Wildlife Department (7 <sup>th</sup> Semester)	May 2022
13.	Dr. M. Kabir and Dr. Saleem	Filed visits to Changa Manga Irrigated Plantations	Aug. 2022
14.	Dr. M. Kabir	Fire Prevention Walk	July 2022
15.	Prof Dr. Kabir	Workshop on Wildlife Surveying Techniques	Nov. 2022
16.	Mr. Tayyab Khan	Two weeks training on R Programming Language	Nov. 2022
17.	Dr. Sarir Ahmed/ Prof Nizami	To aware the graduates for emerging field in forestry	Oct. 2021
18.	Prof. Dr. S. M Nizami	To brief the semester rules to newcomers	Oct 2021
19.	Dr. Mohammad Saleem / Dr. Majid	To study dry temperate forests of Pakistan	April 2021
20.	Dr. Mohamamd Kabir	Students of BS were sent to KP WLM department for hand on experiance for survey tools.	May 2021
21.	Dr. Sarir and Prof. Dr. S M Nizami	On PM call for Plantation nationwide on Independence Day.	Aug. 2021
22.	Dr. Sajida Noreen	On request of AUST Internship to students of zoology was given for WLM.	Oct –DEC 2021
23.	Prof Dr. S. M Nizami	To aware the forestry graduates for emerging technology in forestry.	Nov. 2021
24.	Dr. Sarir Ahmed/ Prof Nizami	To aware the graduates for emerging field in forestry	Oct. 2021
25.	Dr. Aliya Ibrar	British Council- Higher Education Commission Capacity Building Course for Researchers	5-8 Sept,2022
26.	Dr. Salma Shad	British Council- Higher Education Commission Capacity Building Course for Researchers	5-8 Sept,2022
27.	Dr. Salma Shad	RSC-IITM Desktop Seminar on Environmental Sciences" hosted by RSC Publishing Webinars	12 Oct, 2022



## 1.6. ACADEMIC LINKAGES AT NATIONAL AND INTERNATIONAL

Higher education is and has always been a very dynamic, rapidly changing and swiftly evolving sector. Therefore achieving, maintaining, and sustaining excellence in diverse spheres of academics & research depends essentially on strong bonding, close networking and efficient coordination with national and international organizations and institutions of global repute. Nothing could be achieved in seclusion rather to have an ever-increasing cooperation and coordination amongst HEIs around the globe. To put UOH on a track of academic and research glories following note and praiseworthy efforts were initiated during the year under review.

MoUs were signed with different institutions and organizations to encourage and promote cooperative research and

development activities with focus on academic, research and development. Cooperation arising thereof will result in;

- a) Joint research projects.
- b) Student exchange programs.
- c) Faculty exchange programs.

### 1.6.1. List of MoU signed with various organizations/ institutions

So far the University has signed MoUs with 76 national and international organizations, HEI's, Departments and Institutions. During 2021-22 a total of 18 MoUs signed.

S.No	Organization	Year	Scope of Collaboration
1	Careem, Pakistan	Jan, 2020	Provide personalized location specific promo codes, provide 20% discount on the trip fare, announce formal partnerships on social media platform, possible partnerships in the future
2	The University of Lakki Marwat	Feb, 2020	Teaching assistance, technical assistance, training program and student internships, joint research projects, student exchange programs, student and faculty visits, exchange of publication, reports and other academic material and information
3	Innovation and Incubation Center, University of Lahore	July, 2020	Joint research projects, Joint organization of business plans competition and investors pitch, Student and faculty and startups expo's, Joint short term/ distance learning courses,
4	University of Swabi	July, 2020	Training program and student internship, exchange of publication, report, and other academic material and information, joint organization of scientific seminars, on demand technical/ consultancy, providing University of Swabi students facility of business incubation center at UOH
5	University of Turbut Kech Balochistan	August, 2020	Joint research activities, exchange of faculty members for research, lecture, discussion, exchange of students for study and research, promotion of educational opportunities
6	Pakistan Testing Services	Jan, 2021	Admissions and job tests
7	Elite Testing Services	1/6/2021	Organize tests/recruitments for UOH
8	The University of Azad Jammu and Kashmir	Feb, 2021	Teaching assistance, technical assistance, training program and student internships, Joint research projects, student exchange programs, student and faculty visits, exchange of publication, reports and other academic material and information
9	Sungi Development Foundation	Feb, 2021	Share technical and human resources, support selected research students, Implementation of governance, climate change, rural and urban development, social work and relevant programmes

S.No	Organization	Year	Scope of Collaboration
10	Association For Biorisk Management- Pakistan	Mar, 021	Technical support, constituting a biosafety committee, Train faculty member and research scholars
11	Pakistan Bait-ul-Mal	June, 2021	Offering scholarships for orphans
12	Pakistan Bait-ul-Mal	June, 2021	Offering scholarships for orphans
13	NIC Peshawar	6/28/2021	Collaboration in incubation and acceleration program, jointly organize training, workshops, conferences for startups, joint capacity building program, joint research projects
14	Pelican Tour and Travel	8/10/2021	Training program and student internship, exchange of publication, report, and other academic material and information, joint organization of scientific seminars, on demand technical/ consultancy
15	U Microfinance Bank Limited, Islamabad	8/26/2021	Fee collection and funds
16	Ripah International University, Islamabad	11/22/2021	Faculty exchange, student exchange, short term training, programme/curricular development, research
17	Muslim Institute, Islamabad	12/14/2021	Research and technical assistance, training programs, mutual visits, distance learning courses,
18	Kohsar University Muree	12/27/2021	Sharing of expertise, experiences and recourses, exchange of library recourses, publication, reports and other information, joint venture in teacher education, student teacher exchange programs

### 1.7. ACADEMIC ACTIVITIES WITH MICROSOFT

Directorate of IT Services at University of Haripur is engaged with different academic activities to entertain the students with the industrial experience and skills development. The UoH in collaboration with HEC, Microsoft, Huawei and TEC education are playing their role in lightening up the lives of individuals, whether they are respected faculty members, staff, students or externals with some sort of affiliation with the UoH.

- Different seminars were conducted. Individuals from Microsoft were hosted who highlighted the importance of MOS and other resources offered by Microsoft.
- A specialized computer lab was developed comprised of 20 PCs with high speed internet and installed with required software to become a Certiport testing center.



#### 1.7.1. Huawei, HEC and The University of Haripur launch HAINA Lab to build digital capacity.

Huawei Technologies, HEC and the University of Haripur unveils the Huawei Authorized Information and Network Academy (HAINA). Huawei Technologies Pakistan has partnered with the University of Haripur (UoH) to launch a fully-



fledged Information Technology teaching laboratory as part of a collaborative effort to bridge the digital divide in building capacity.

The Huawei Authorized Network Academy (HAINA) Labs are a non-profit programme designed to build the skills that are required to practical skills for students undertaking Computer Science and related studies. This partnership will bring on board

expertise in ICT and related technology. Huawei Technologies, an industry leader, committed to impart relevant employability skills to the youth who enroll to the programme. The university is providing the necessary resources to students so that they get the most out of the programme and in turn change the entire scope of the ICT Industry in terms of application of the skills gained.

### 1.8. SELF-ASSESSMENT REPORT (SARS')

To assure quality across broader spectrum of UOH academic and research matching national and international standards of acceptance and practices, SARs of various departments for the year 2021-22 were prepared. The whole process was carried out in accordance with HEC Self-Assessment Manual focusing specifically on eight (8) criteria and associated standards. Program Teams (PT) were constituted to conduct departmental audit with the basic objective to propose recommendations for improvement thereby attaining better accreditation category in future.



All reports prepared respectively by departments were submitted to QEC-UOH. The reports were reviewed and shared

subsequently with HEC. A total of 18 SARs have been submitted and evaluated successfully.

### 1.9. QUALITY ASSURANCE AT UOH

#### 1.9.1. Impact of quality assurance in the university

The University of Haripur has taken substantial efforts to put in the preeminent practices to guarantee extraordinary academic standards. QEC-UOH has demonstrated incredible performance compared to fiscal year 2020-21. QEC has been ranked “Y” category while scoring more than 52% marks in Yearly Progress Report submitted to the HEC.

To match highest standards of acceptance and best practices, the University has constituted QEC, Office of Research Innovation & Commercialization (ORIC), University Advancement Cell (UAC) and Career Development Cell (CDC). Quality Assurance Agency (QAA)-HEC bestowed letter of appreciation to UOH in recognition of its outstanding performances being revealed through Institutional Performance Evaluation and PhD Review Process.

#### 1.9.2 Quality Enhancement Cell

The prime objective of the QEC is to practice evaluative measures to achieve excellence in diverse spheres of academic and research business. QEC has developed and implemented several quality assurance processes. During FY 2021-22, the process of self-assessment (SARs) of 18 department has been successfully initiated, completed, and submitted to QAA-HEC. Similarly, a number of departments have been successfully accredited by their relevant councils for their undergraduate programs and two departments are pursuing for their accreditations.





## HUMAN RESOURCE DEVELOPMENT



### 1.9.3. Accreditation of Academic Programs

#### Accreditation Report 2020-21

S. No.	Relevant Council	Program Name	Accredited Category Valid Till
1	NAEAC	BS Agronomy	2022
2	NAEAC	BS Entomology	Nov-23
3	NAEAC	BS Food Science & Technology	2021
4	NAEAC	BS Horticulture	Nov-23
5	NAEAC	BS Plant Breeding & Genetics	2021
6	NAEAC	BS Soil & Climate Science	2024
7	NAEAC	BS Food Science & Technology	In process
8	NAEAC	BS Agricultural Biotechnology	In process
9	NAEAC	BS Climate Change	In process
10	NAEAC	BS Agribusiness	In process
11	NCEAC	BS Artificial Intelligence	In process
12	NCEAC	BS Computer Sciences	In process
13	NCEAC	BS Software Engineering	In process
14	NCEAC	BS Telecom & Networking	In process
15	NCEAC	BS Data Science	In process
16	NAEAC	BSc (Hon) Forestry & Wildlife Management	June 2023
18	NBEAC	Bachelor of Business Administration	Nil
19	NBEAC	BS Accounting and Finance	Nil
20	NBEAC	Master's in business administration	Nil
21	NBEAC	BS Public Administration & Governance	Nil
22	NACTE	BS B.Ed (Hons Elementary ( 4 Years)	In Process

## 1.9.4 Membership at International Levels:



### 1.10 ACTIVITIES CARRIED OUT THROUGH UOH-QEC

#### 1.10.1. Participation in International Conference on Future Trends of Quality Assurance

NED University Karachi arranged two days International Conference on Future Trends of Quality Assurance on MAY 16-17, 2022, in which two officials, Mr. Ahsan Nawaz, Assistant Director and Malik Sajjad Ahmed, Office Assistant participated from QEC, The University of Haripur. Mr. Ahsan Nawaz, Assistant Director QEC presented the paper titled "Role of QEC in assuring quality in teaching"



#### 1.10.2. Training for UEP Implementation at Affiliated Colleges under PBC 4 and 5 at UOH, Haripur

HEC has organized workshop on June 8, 2022 "Training for UEP Implementation at Affiliated Colleges under PBC 4 and 5 at UOH, Haripur". The QEC, The University of Haripur facilitate the HEC to conduct the training at UOH, Haripur.



#### 1.10.3 Mixed-Method Research Workshop

QEC arranged one day training session on March 31, 2022, for MS/MPhil and PhD Scholars of The University of Haripur. The aim of this workshop was to aware the scholars about the mixed-method research which will enhance the research skills of the scholars.

#### 1.10.4 SPSS Orientation Workshop

QEC arranged one day training session on April 7, 2022, for MS/MPhil and PhD Scholars of The University of Haripur. The aim of this workshop was to aware the scholars about the SPSS which will enhance the research skills of the scholars.

#### 1.10.5 EndNote Orientation Workshop

QEC arranged one day training session on April 21, 2022, for MS/MPhil and PhD Scholars of The University of Haripur. The aim of this workshop was to aware the scholars about the EndNote which will enhance the research skills of the scholars.

#### 1.10.6 Self-Assessment Awareness Workshop

QEC conducted one day workshop on Self-Assessment Exercise on May 12, 2022 for Program Team Members. The aim of the workshop is to demonstrate the program team members on process of conducting Self-Assessment (SA) of academic Programs in the University which will enable them to enhance

academic standards, student learning and feedback mechanism. Mr. Ahsan Nawaz Assistant Director and Malik Sajjad Ahmed Office Assistant are the resource persons.

**1.10.7 Plagiarism Policy and Use of Turnitin Software.**

QEC arranged one day training session on MAY 27, 2022 for newly inducted faculty members of The University of Haripur. The aim of this workshop is to aware the faculty about the Plagiarism and Use of Turnitin Software which will enhance the writing skill of the faculty members.

**1.10.8 First International Multidisciplinary Conference on Embracing Change and Transformation in Society**

Department of Psychology, The University of Haripur arranged the First International Multidisciplinary conference on Embracing Change and Transformation in Society on June 8-9, 2022. Malik Sajjad Ahmed Office Assistant, QEC presented paper in this conference

**1.10.9 Institutional Performance Evaluation:**

Quality Enhancement Cell, The University of Haripur conducted self IPE for the year 2021-22 on 7-9 June 2022. The experts for



this activity were Mr. Imran Ullah Marwat Director Quality Assurance HED Peshawar and Dr. Jahngir Ex-Director Quality Enhancement Cell, Malakand University. During the visit expert panel conducted different activities which included meeting with Worthy Vice Chancellor, Chairpersons/HoDs, students and different departments like Registrar Office, Treasurer Office, Undergraduate Office, Examinations, Central Library. After that the expert panel reviewed the record and gave their suggestions.



# 1.11 SPORTS AT UOH

Directorate of Sports was established in 2010. Sports are great socializing force in the students' community. These bring the students together with emphasis on discipline, personal values and personality development. The Directorate of Sports has been engaged in diverse sports events. Details are as follow.



**1.11.1. HEC Intervarsity Championship 2021-22**

Sports Events	Location	Results
Handball	ISB Sports Complex	Participated
Athletics	ISB Sports Complex	Participated
Squash	ISB Sports Complex	Participated
Cricket	Hazara Uni Mansehra	Participated
Basketball	The UoH	Participated
Table Tennis	Kohat university	Participated

**1.11.2. RESULT OF 8th ANNUAL INTER-COLLEGIATE (Boys) CHAMPIONSHIP 2021-22**

<p><b>Chess</b></p>  <p>UoH Position Runner Up</p>	<p><b>Football</b></p>  <p>UoH Position Winner</p>	<p><b>Volleyball</b></p>  <p>UoH Position Winner</p>	<p><b>Basketball</b></p>  <p>UoH Position Winner</p>	<p><b>Hand Ball</b></p>  <p>UoH Position Runner Up</p>
<p><b>Futsal</b></p>  <p>UoH Position Runner Up</p>	<p><b>Hockey</b></p>  <p>UoH Position 3<sup>rd</sup></p>	<p><b>Table Tennis</b></p>  <p>UoH Position Winner</p>	<p><b>Kabbadi</b></p>  <p>UoH Position Runner Up</p>	<p><b>Badminton</b></p>  <p>UoH Position Runner Up</p>
<p><b>Cricket</b></p>  <p>UoH Position Winner</p>	<p><b>Tug of war</b></p>  <p>UoH Position Runner Up</p>	<p><b>Lawn Tennis</b></p>  <p>UoH Position 3<sup>rd</sup></p>		

**1.11.3. Table Points for Championship Trophy**

<p><b>2<sup>nd</sup></b></p>  <p>in 05 events</p>	<p><b>1<sup>st</sup></b></p>  <p>in 07 events</p>	<p><b>3<sup>rd</sup></b></p>  <p>in 03 events</p>
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S.#	Institution Name	Football	Badminton	kabbadi	Hand Ball	Volley Ball	Hockey	Basketball.	Table Tennis.p	Chess	Cricket	Tug of War.	Lawn Tennis	Futsal	Total Points
1	The UoH	07	05	05	05	07	03	07	07	05	07	05	03	05	71
2	G.D.C Khanpur														
3	G.P.G.C Haripur	05	7	07	07	05	05	05	03		05	03	05	07	64
4	G.D.C Ghazi									07					07
5	GCMS	03									03	07			13
6	G.D.C KTS		03	03	03	03	07	03	05	03			07	03	40
7	WAPDA Degree College														

**1.11.4. Detail of Result of 8<sup>th</sup> Annual Inter-Collegiate (Girls) Championship 2021-2022**

S.No	Games	Location	Position
1	Table Tennis	GGDC Mankarai	Runner Up
2	Basketball	GGDC Kotnajibullah	3 <sup>rd</sup>
4	Netball	GPGC For Women	Runner Up
5	Handball	GPGC for Women	3 <sup>rd</sup>
6	Volleyball	The Uoh	3 <sup>rd</sup>
7	Futsal	The UoH	Winner
8	Football	The UoH	Winner
9	Cricket	GPC For Women	Runner Up
10	Cross Country	The UoH	Winner
11	Hockey	GPGC for Women	Runner
12	Athletics	GGDC KTS	Runner

**1.11.5. Table Point for Championship Trophy (Female)**



S.#	Institution Name	Table Tennis	Basketball	Tug of War	Netball	Handball	Volleyball	Futsal	Football	Cricket	Cross	Hockey	Total Points
1	G.P.G.C Haripur For Women	7	7	5	7	7	5	5	5	7	5	7	67
2	GPGC Boys	3			3	5		3	3	3			20
3	G.G.D. College, KTS			3									03
4	The University Of Haripur	5	3		5	3	3	7	7	5	7	5	50
5	G.G.D. College, Seri Salah		5									3	8
6	B/N Wali Khan GGDC												
7	G.G.D. College No 2												
8	G.D.C Khanpur												
9	Zubaida Aman GPGC Ghazi			7			7						14
10	G.D.C Kotnajibullah												

**1.11.6. Final Result of 8th Annual Inter-Collegiate (Girls) Athletics Championship 2021-22**

S.#	Institution Name	100 M Race	200M Race	Discuss	Javelin	Short Put	Total points
1	GPGC Boys		3				03
2	G.G.D.College, KTS						
3	G..P.G.C for Women						
4	The UoH	7		7	7+3	3	27
5	G.D.C Khanpur						
6	Zubaida Aman GPGC Ghazi	7+5	7+5	3		7+5	39
7	Begum Naseem Wali Khan GGDC	3		5	5		13

**Points for Games Position:** (Zubaida Aman GPGC Ghazi (39) 1st,  
(The UoH 27) 2nd,  
(Begum Naseem Wali Khan GGDC: 13) 3rd

- General Trophy Goes to Zubaida Aman GPGC Ghazi
- **Beast Athlete:** Laraib With (22) Points





# RESEARCH

CHAPTER-2

At The University of Haripur



" True science discovers **GOD** waiting behind every unexplored door"



The **University of Haripur**  
Restoring Hope; Building Community



## 2.1 R&D: AN OVERVIEW

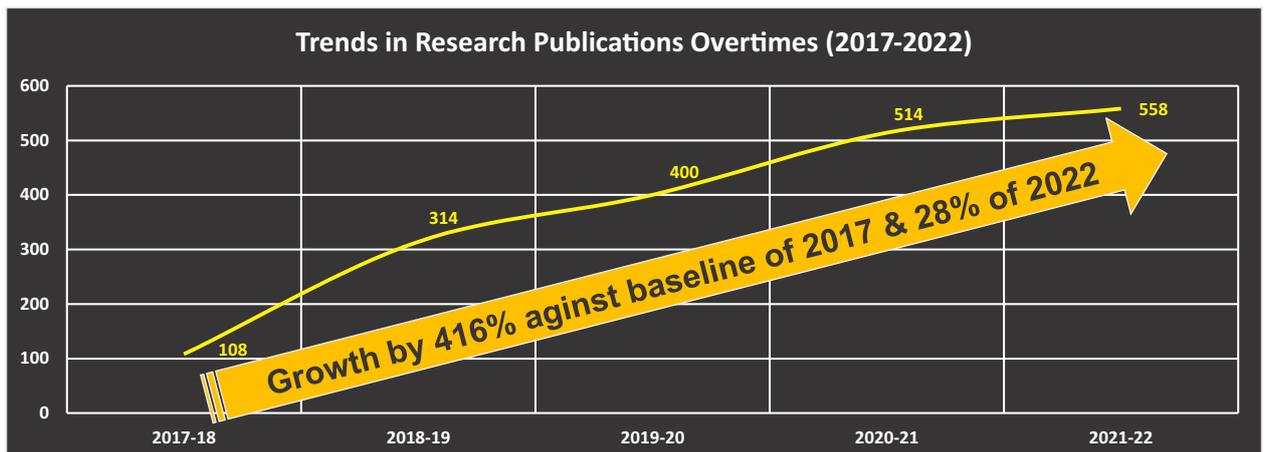
The University of Haripur aims to promote a vibrant and quality conscious research culture matching highest standards of acceptance and practice. We believe in establishment of a research culture that encourages ideas and innovations, stimulates new fields of knowledge and prompt an early and direct impact on socio-economic, environmental and health uplift of the community at large.

FY 2020-21 witnessed momentous growth in employing an apposite research structure and mechanisms, completion of forgoing research projects, establishment and strengthening of research facilities, instituting linkages with universities, research institutions and organizations and improved access to national and international research journals and publications.

## 2.2. RESEARCH PUBLICATIONS

R&D sector demonstrated colossal headway against the baseline of preceding year. To embolden an innovative culture of applied research generating new discoveries, creating new knowledge and making an early impact on society, A total of 558

research papers having 1379.056 impact factors were published in HEC recognized journals. The year under review witnessed enormous progress of 65% growth in research publication against the baseline of 2017-18.





### 2.2.1. Department Wise Research Paper Contribution

Sr.No	Name of Department	No. of Publications	Impact Factor
1	Mathematics and Statistics	39	129.633
2	Education	19	0
3	Islamic & Religious Studies	19	0
4	Food Science and Technology	5	33.21
5	Forestry & Wildlife Management	15	25.955
6	Agronomy	10	7.26
7	Entomology	19	59.613
8	Horticulture	17	54.395
9	Plant Breeding and Genetics	47	150.636
10	Soil & Climate Sciences	5	24.941
11	History & Politics	4	0
12	Management Sciences	14	0
13	Environmental Sciences	15	57.032
14	Microbiology	43	298.088
15	Economics	13	41.311
16	Public Health & Nutrition	7	33.263
17	Medical Lab Technology	24	116.717
18	Sports Science & Physical Education	17	0
19	Biology	31	48.818
20	Physics	8	31.848
21	Linguistics	4	
22	Psychology	35	27.159
23	Information Technology	95	213.504
24	Earth Sciences	18	56.852
25	Chemistry	35	117.386

### 2.2.2. Details of Research Publications

#### 1. Department of Mathematics and Statistics

1. Alam, M.K., Memon, K.N., Siddiqui, A.M., Shah, S.F., Farooq, M., Ayaz, M., Nofal, T.A. and Ahmad, H., 2021. Modeling and analysis of high shear viscoelastic Ellis thin liquid film phenomena. *Physica Scripta*, 96(5), p.055201.
2. M. Kamran Alam. A General Study on Gravity Driven Tank Drainage Flow Through a Vertical Heated Tube of a Pseudo-Plastic Fluid. *Physics of Fluids*. 2021. (Impact Factor: 3.514)
3. Khan, A., Shah, R.A., Alam, M.K., Ahmed, H., Shahzad, M., Rehman, S., Ahmed, S., Khan, M.S., Abdel-Aty, A.H. and Zakarya, M., 2021. Computational investigation of an unsteady non-Newtonian and non-isothermal fluid between coaxial contracting channels: A PCM approach. *Results in Physics*, 28, p.104570.
4. Khan, A., Shah, R.A., Alam, M.K., Rehman, S., Shahzad, M., Almad, S. and Khan, M.S., 2021. Flow dynamics of a time-dependent non-Newtonian and non-isothermal fluid between coaxial squeezing disks. *Advances in Mechanical Engineering*, 13(7), p.16878140211033370.



## 1. Department of Mathematics and Statistics

5. Waqas, H., Farooq, U., Ibrahim, A., Kamran Alam, M., Shah, Z. and Kumam, P., 2021. Numerical simulation for bioconvective flow of burger nanofluid with effects of activation energy and exponential heat source/sink over an inclined wall under the swimming microorganisms. *Scientific Reports*, 11(1), p.14305.
6. Hashim. Heat transfer attributes of MoS<sub>2</sub>/Al<sub>2</sub>O<sub>3</sub> hybrid nanomaterial flow through converging/diverging channels with shape factor effect. *Advances in Mechanical Engineering*. Vol 13(5)1-13,2021.
7. Hashim, Hafeez, M. and Chu, Y.M., 2021. Numerical simulation for heat and mass transport analysis for magnetic-nanofluids flow through stretchable convergent/divergent channels. *International Journal of Modern Physics B*, 35(19), p.2150198.
8. Liu, P., Khan, Q., Mahmood, T., Khan, R.A. and Khan, H.U., 2021. Some improved pythagorean fuzzy Dombi power aggregation operators with application in multiple-attribute decision making. *Journal of Intelligent & Fuzzy Systems*, 40(5), pp.9237-9257.
9. Khan, Q., Mahmood, T. and Ullah, K., 2021. Applications of improved spherical fuzzy Dombi aggregation operators in decision support system. *Soft Computing*, 25(14), pp.9097-9119.
10. Ullah, K., Garg, H., Gul, Z., Mahmood, T., Khan, Q. and Ali, Z., 2021. Interval valued T-spherical fuzzy information aggregation based on Dombi t-norm and Dombi t-conorm for multi-attribute decision making problems. *Symmetry*, 13(6), p.1053.
11. Siddique, M.I., Iqbal, M.F., Mahmood, T. and Khan, Q., 2021. On lattice ordered double framed soft rings. *Punjab University Journal of Mathematics*, 53(4).
12. Ali, Z., Mahmood, T., Ullah, K. and Khan, Q., 2021. Einstein geometric aggregation operators using a novel complex interval-valued pythagorean fuzzy setting with application in green supplier chain management. *Reports in Mechanical Engineering*, 2(1), pp.105-134.
13. Rasul, A., Nasir, J.A., Akhtar, S. and Hinde, A., 2022. Factors associated with female age at first marriage: An analysis using all waves of the Pakistan Demographic and Health Survey. *Plos one*, 17(3), p.e0264505.
14. Akhtar, S., Nasir, J.A., Ali, A., Asghar, M., Majeed, R. and Sarwar, A., 2022. Prevalence of type-2 diabetes and prediabetes in Malaysia: A systematic review and meta-analysis. *Plos one*, 17(1), p.e0263139.
15. Ahmadini, A.A.H., Javed, A., Akhtar, S., Chesneau, C., Jamal, F., Alshqaq, S.S., Elgarhy, M., Al-Marzouki, S., Tahir, M.H. and Almutiry, W., 2021. Robust assessing the lifetime performance of products with inverse Gaussian distribution in Bayesian and classical setup. *Mathematical Problems in Engineering*, 2021, pp.1-9.
16. Alam, M.K., Bibi, K., Khan, A. and Noeiaghdam, S., 2021. Dufour and Soret effect on viscous fluid flow between squeezing plates under the influence of variable magnetic field. *Mathematics*, 9(19), p.2404.
17. Wang, F., Ali, S.N., Ahmad, I., Ahmad, H., Alam, K.M. and Thounthong, P., 2022. Solution of Burgers' equation appears in fluid mechanics by multistage optimal homotopy asymptotic method. *Thermal Science*, 26(1 Part B), pp.815-821.
18. Memon, K.N., Alam, M.K., Baili, J., Nawaz, Z., Shiekh, A.H. and Ahmad, H., 2021. Analytical solution of tank drainage flow for electrically conducting newtonian fluid. *Thermal Science*, 25(Spec. issue 2), pp.433-439.
19. Mehmood, A., Al Ghour, S., Imran Khan, M., Afzal, F., Ishfaq, M. and Qureshi, H., 2022. Neutrosophic soft bi-topological structures concerning some special neutrosophic soft open sets. *Journal of Intelligent & Fuzzy Systems*, 43(1), pp.125-142.
20. Qureshi, H., Khan, M.I., Ahmad, A., Awan, U.A., Khattak, A.A., Khan, A.A. and Sun, Y., 2021. Passive surveillance of malaria in pregnant women, non-pregnant women and children under 5 years of age in Bannu district, Khyber Pakhtunkhwa Pakistan. *Frontiers in Medicine*, p.2151.
21. Fayomi, A., Majeed, R., Algarni, A., Akhtar, S., Jamal, F. and Nasir, J.A., 2022. Forecasting Tennis Match Results Using the Bradley-Terry Model. *International Journal of Photoenergy*, 2022.



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22. Akhtar, S., Ramzan, M., Shah, S., Ahmad, I., Khan, M.I., Ahmad, S., El-Affendi, M.A. and Qureshi, H., 2022. Forecasting Exchange Rate of Pakistan Using Time Series Analysis. *Mathematical Problems in Engineering*, 2022.
23. Akhtar, S., Latif, M., Ahmed, O.S., Sarwar, A., Alina, A. and Khan, M.I., 2022. Prevalence of foot ulcers in diabetic patients in Punjab, Pakistan. *Frontiers in Public Health*, 10.
24. Khan, Q., Garg, H., Khattak, H., Al-Babtain, A.A., Elbatal, I. and Elgarhy, M., 2022. A Novel MAGDM Approach Based on Cubic-Rung Orthopair Fuzzy Power Generalized Maclaurin Symmetric Mean Operator. *Journal of Function Spaces*, 2022.
25. Khan, Q., Bantan, R.A. and Elgarhy, M., 2022. Applications of Hesitant Interval Neutrosophic Linguistic Schweizer-Sklar Power Aggregation Operators to MADM. *Journal of Function Spaces*, 2022.
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27. AbdRabbuh, O.A., Abdelrazek, A.H., Kazi, S.N. and Zubir, M.N.M., 2022. Nanofluids thermal performance in the horizontal annular passages: a recent comprehensive review. *Journal of Thermal Analysis and Calorimetry*, 147(21), pp.11633-11660.
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30. Akhtar, S., Awais, M., Hussain, I., Ali, G., Ahmad, S., Khan, M.I., Qureshi, H. and ElAffendi, M., 2022. Rating Batters in Test Cricket. *Mathematical Problems in Engineering*, 2022.
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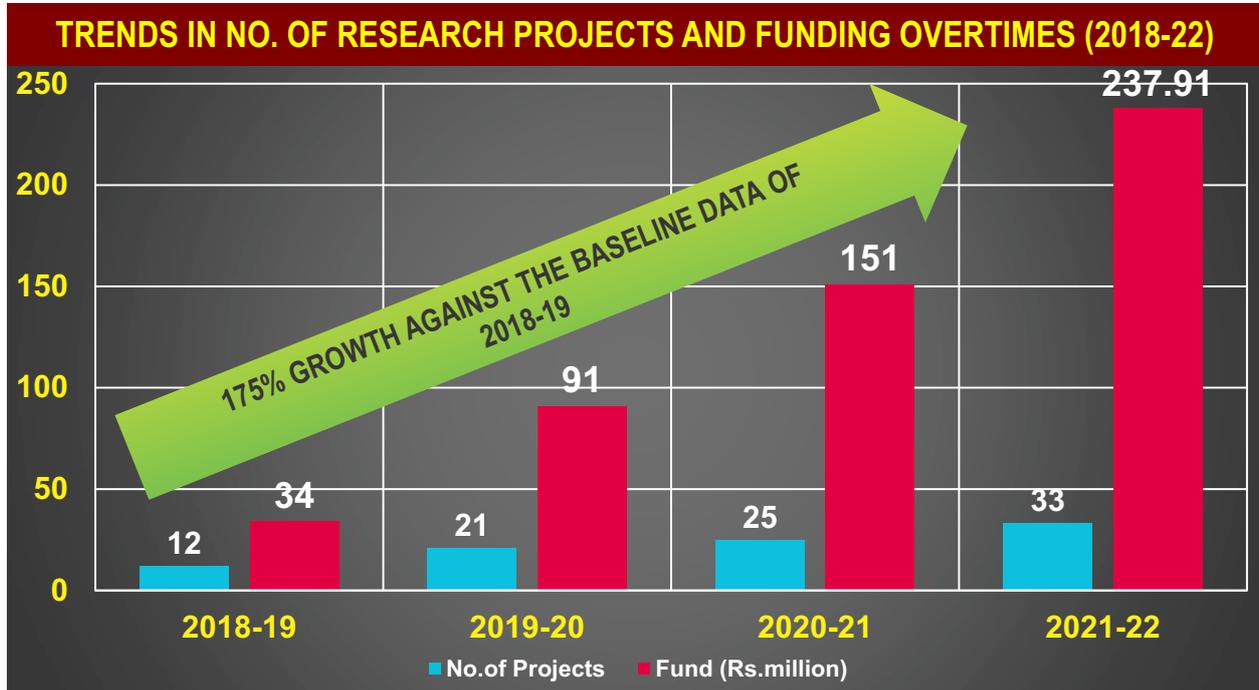
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### 2.3. RESEARCH PROJECTS

Like rest of the performance indicators, wining of research project also witnessed sustained growth. Comparative analysis and trends in No. of projects and funding is given below. During

FY 2021-22, UOH secured a total of 33 research project amounting to Rs. 237.91 million. Details of the project are given below.



#### 2.3.1. Department Wise Details of Research Project

Sr.	Department	No. of Projects	National	International
1	Management Sciences	1	01	-
2	Forestry & Wildlife Management	3	3	-
3	Environmental Sciences	1		
4	Microbiology	5	5	-
5	Soil Science	6	6	-
6	Food Science	3	3	-
7	Psychology	2	2	-
8	Horticulture	1	1	-
9	Pure & Applied Mathematics	3	3	-
10	History & Politics	1	1	-
11	Education	1	-	1
12	MLT	1	1	-
13	Agronomy	1	1	-
14	Chemistry	1	1	-
15	PBG	1	1	-
<b>Grand Total</b>			<b>33</b>	



## 2.3.2. Details of Project Secured during 2021-22

Sr.#	Project Title	Funding (Rs. M)	PI Name	Department	Funding Agency	Status	Date of Approval
1	Large-scale Production of Indigenous Developed Pellet Biofuel in Khyber Pakhtunkhwa, Pakistan	6.2	Dr. Majid Hussain	Forestry	TTSF-HEC	Continued	May-21
2	Development of Biochar Technology for Remediation of Heavy Metals and Pharmaceutical Contaminated Agriculture Soils	4.6	Dr. Alia Naz	Environmental Sciences	NRPU-HEC	Continued	2021
3	Development of Broad-Spectrum Phage Cocktail and Endolysins against Multi Drug Resistant Mastitis Pathogens: In Vitro and In Vivo Study	12.9	Dr. Muhammad Javeed	Microbiology	NRPU-HEC	Continued	2021
4	Development of and Formulation of Mycorrhizal Fungi based fertilizer	9.51	Dr. Ali Raza Gurmani	Soil Science	NSLP- PSF	Continued	2021
5	Use of modified chitosan based antimicrobial edible coating in combination with calcium chloride as hurdle technology for fruits shelf-life extension	10.49	Dr. Imran Khan	Food Science	NRPU-HEC	Continued	22-Dec-21
6	Screening of Pakistan Medicinal Plant for Nicotene Amid adenine dinucleotide phosphate	7.5933	Dr. Inam Ullah	Food Science	NRPU	Continued	2-Mar-22
7	Assessment of Neuro Psychological Functioning and Behavior Problems in survivors of covid 19	8.261	Dr. Ammara Gul	Psychology	NRPU	Continued	27-Jan-22
8	Molecular characterization of isolates and their application for organo phosphates biodegradation in peach orchards	3.549	Dr. Mazhar Rafique	Soil Science	NRPU	Continued	17-Nov-21
9	Neglect of Moral Development in Higher is menace to society: Bringing reforms is the need of the time	8.587	Dr. Najia Zulfqar	Psychology	NRPU-HEC	Continued	
10	Vocational Training and access to decent work for women domestic workers, transgender individuals and persons with disabilities: Reflections on Gender, labor and equality for social inclusion of disadvantaged groups of Hazara Division	28	Prof. Dr. Abdul Majid	Management Sciences	LCF-HEC	Continued	11-Dec-20
11	Development of Higher Education Linkages between UK and Pakistan on the themes of heritage, knowledge economies and cultural tourism	2.07	Dr. Arfan Mahmood	History and Politics	British Council	Continued	2021
12	Development of and Formulation of Mycorrhizal Fungi based fertilizer	9.51	Dr. Ali Raza Gurmani	soil science	NSLP- PSF	Continued	2021
13	Psychological and Social Impact of COVID-19 on Pakistan Population	1	Dr. Humera Qureshi	Mathematics and Statistics	SRGP-HEC	Continued	2021
14	Prediction of COVID-19 prevalence in Pakistan	1	Dr. Muhammad Imran Khan	Mathematics and Statistics	SRGP-HEC	Continued	18-Aug-21



Sr.#	Project Title	Funding (Rs. M)	PI Name	Department	Funding Agency	Status	Date of Approval
15	Evaluation of fermenting microorganisms for introduction of rice bran oil	2.1	Dr. Sadia Alam	Microbiology	NRPU-HEC	Continued	18-Aug-21
16	Restoring soil health through biochar application to enhance the yield and production of citrus fruits (oranges)	5.436	Zahoor Ahmad	soil science	HEC-NRPU	Continued	22-Dec-21
17	Fungal and ethylene induced modifications process in promising commercial cut flower for export	10.5806	Dr. Waseem Ahmed	Horticulture	HEC-NRPU	Continued	2-Mar-22
18	Assessment of Neuropsychological functioning and behavioral problems in survivors of COVID-19: A study of Rehabilitation Therapy	11.21	Dr. Amara Gul	Psychology	HEC-NRPU	Continued	21 April, 2021
19	A lab-scale development of Lignin-Formaldehyde (LF) resin: A bio-renewable adhesive for wood panel industries in Pakistan	8.2	Dr. Majid Hussain	Forestry and Wild life Management	HEC-NRPU	Continued	26 April, 2021
20	Risk management of amputation due to bacterial infection in diabetic foot ulcer patients	6.6	Dr. Waqas Ahmed	Microbiology	HEC-NRPU	Continued	5 May, 2021
21	predication of COVID- 19 Prevalence of Pakistan	0.928	Dr Muhammad Imran Khan	Pure and Applied Mathematics	HEC	Continued	6 May, 2021
22	mineral Based Composite Accelerants for Anaerobic Digestion of Organic waste for Improving Biogas Yield and Digest Nutrients Quality as and organic Fertilizers	5.505	Ayaz Mehmood	soil science	HEC	Continued	Aug-21
23	production of Bigas from Organic waste using Microbially Triggered Clay Minerals as an Accelerant	4.0314	Dr Ayaz Mehmood	soil science	PSF - NSLP	Continued	Nov-21
24	Exploration disease pattern and consequences of confection with malaria, dengue and typhoid in relation to COVID19, pandemic Mapping disease perturbations and co-infection model formulation using a systems biology approach	1	Dr. Ayesha Obaid	MLT	SRGP-HEC	Continued	15-Nov-20
25	Creative Network plus: Baseline Research & Development Project	14.76	Dr. Asif Nawaz	Education	University of Derby	Continued	1/9/2020
26	Impact of nanoparticle on biochemical and agronomic attributes of maize and wheat	1.899	Dr. Abdul Qayyum	Agronomy	HEC	Continued	Feb-20
27	Dendrochronological Analysis of Historical Forts of Chitral and Gilgit Baltistan, Pakistan	1.1	Dr. Majid hussain	Forestry & Wildlife Management	SRGP-HEC	Continued	Sep-20
28	Identification of Drought Tolerant Rice Genotypes ans Seedling Based Morpho-Physiological Selection Indices and Molecular markers Analysis for Crop Improvement	1	Dr. Sajid Faiz	Plant Breeding and Genetics	SRGP-HEC	Continued	Sep-20



Sr.#	Project Title	Funding (Rs. M)	PI Name	Department	Funding Agency	Status	Date of Approval
29	Facets Selective Deposition of Metal on SrTiO <sub>3</sub> and Resultant Impact on CO <sub>2</sub> Reduction	1	Dr. Muzaffar Iqbal	Chemistry	SRGP-HEC	Continued	Sep-20
30	Evaluation of fermenting microorganisms for introduction of rice bran oil	2.1	Dr. Sadia Alam	Microbiology	NRPU-HEC	Continued	8-Dec-20
31	Risk management of amputation due to bacterial infection in diabetic foot ulcer patients	6.6	Dr. Waqas Ahmed	Microbiology	HEC-NRPU	Continued	6 May, 2021

## 2.4 ORGANIZING/PARTICIPATION IN TRAININGS/WORKSHOPS/ CONFERENCES

To build the professional capacity of UOH faculty in dealing with day-to-day academic, research and administrative business, a total of 31 faculty members were provided professional trainings from prestigious intuitions of Pakistan whereas 12 faculty

members were provided funding for participation in national/international level conferences. Details of the trainings/workshops/conferences attended during the reporting period are as follow.

### 2.4.1. Participation in Trainings/Workshops

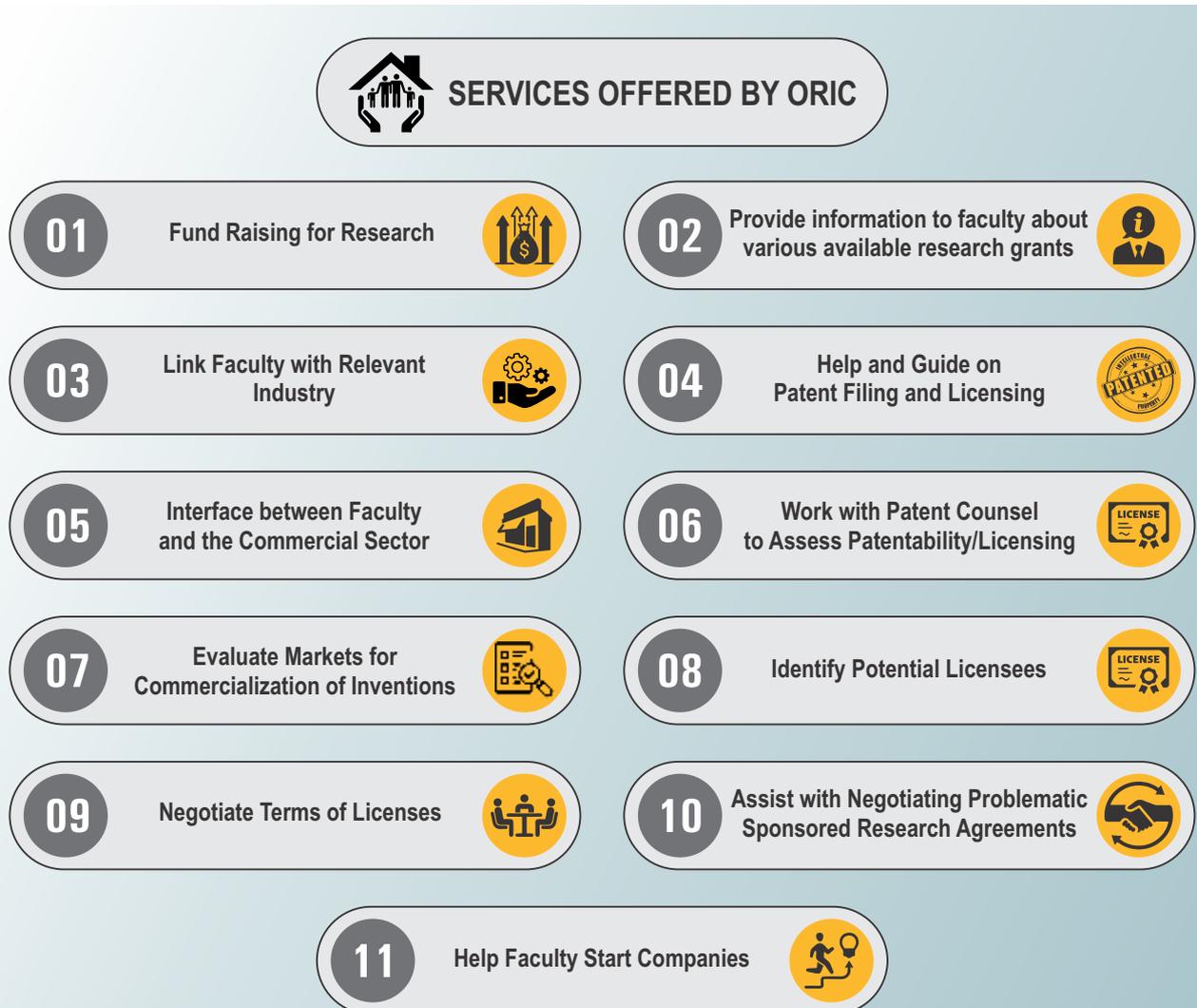
S.No	Title of Event	Workshop/ Seminar	Funded by	No. of Participants
1	Science Day Ceremony	Seminar	UOH	150
2	3 <sup>rd</sup> Training workshop for person with disabilities	Workshop	HEC-LCF	30
3	1 <sup>st</sup> Training Workshop for person with disabilities	Workshop	HEC-LCF	30
4	2 <sup>nd</sup> Training Workshop for person with disabilities	Workshop	HEC-LCF	30
5	Antimicrobial Resistance	Workshop		60
6	First 1000 Golden Day of Life & Nutrition	Seminar		50
7	Science Day Exhibition	Expo	UOH	300
8	Workshop on Personal & Professional Skill Development	Workshop	UOH	80
9	Food Myths	Seminar	UOH	100
10	Seminar on Transgender Act	Seminar	HEC and UOH	120
11	Blood Donation Camp	Seminar		
12	3 Day Training Workshop on Quickbook	workshop	Fee	30
13	Two Day Workshop on Mashroom Farming	Workshop	Reg Fee and UOH	50
14	Design Your Life time Management	Workshop		50
15	Bio Safety and Bio Security	Workshop	UOH	50
16	Inter District Speech Competition on Iqbal Day	Seminar	UOH	80
17	Recent Trends & Opportunities of Olive Oil industry in Pakistan	Seminar	UOH	100
18	Information Session on IGPRC	Seminar	UOH	120
19	Responsibilities of Intellectuals in Development of Society	Seminar	UOH	
20	Advancement on Mining & Mineral Exploration	Seminar	UOH	30
21	Food Safety Concerns & Role of KP Food Safety & Halal Food authority	Seminar	UOH	50
22	Emerging Trends in Cryo Preservations	Seminar	UOH	50
23	Business Mindset: A virtual capacity building initiative	Seminar	UOH	50
24	Boot Camp 0.1; The Concept Drive	Workshop	UOH	80

S.No	Title of Event	Workshop/ Seminar	Funded by	No. of Participants
25	Starting Business: Managerial Mindset Vs Entrepreneurial Mindset	Seminar	UOH	100
26	The Philosophy of Effectuation	Seminar	UOH	120
27	The Bird in Hand Principle	Seminar	UOH	
28	The Affordable Loss	Seminar	UOH	30
29	Boot Camp 0.2	Workshop	UOH	50
30	Boot Camp 0.3	Workshop	UOH	50
31	Food Function Competition	Workshop	UOH	50

## 2.5. INNOVATION AND COMMERCIALIZATION

### 2.5.1. Operations of ORIC

The Office of Research Innovation and Commercialization is being established to link research and commercialization from the University with emerging and existing firms across Pakistan and around the world. The Office of Research Innovation and Commercialization is dedicated to commercialize university technologies as an umbrella work closely with the researchers, chancellors and on campus Incubators & S&T Park, the office also serves as a conduit to local, regional and federal partners to ensure research results aid the growth of Pakistan's economy. The key services being offered by ORIC at UOH are as follow:





## 2.6. UNIVERSITIES BUILDING ECONOMIES

The exceptional economic growth of developed nations could solely be accredited to their investment in research and development sector. In today's competitive market, the role that universities is taking on a superfluous transformation. HEIs around the globe are being recognized as “economic engines” that drive, uphold and withstand economies through discoveries and novelties.

Attainment of resources and their ownership don't drive economies or impact people any more. It is the investment in higher education sector and applied scientific research that

impact people, drives economies, sustain growth, inculcate positive changes in attitudes and ensures all round development within a society.

The universities play a pivotal part in leading the nations towards position of honor, prestige, esteem and strength. The mission of UoH is to achieve and maintain high standards in every sphere of its teaching and promote an open, collaborative and novel culture of scientific inquiry to improve the lives and livelihoods of the people through sustainable development.



### 2.5.2. Establishment of Business Incubation Center

University of Haripur has recently got generous grant from Higher Education Commission (HEC) for the establishment of Business Incubation Center (BIC) at UOH. The main objective behind its establishment is to produce graduates of entrepreneurial minds from all the academic departments of UOH. BIC has following broad objectives;

1. To provide a platform for young entrepreneurs, especially from outgoing students, faculty and small entrepreneurs to develop their technology based companies at the incubation center.
2. To make intensive efforts to involve the industry into joint projects by means of seminars, workshops, lectures poster exhibitions, permanent exhibits and provision of facilities.
3. Provide management guidance, technical assistance

and consulting tailored to young growing companies.

4. To provide support to University of Haripur members in intellectual property right matters and incubators to obtain patents for their R&D output.
5. Create linkages between academic/ R&D institutions and private sector, aimed
6. Business Incubation Center (BIC) has been in contact with angel investors and venture capital firms. Multiple Startups has been funding by different sources. Following are some of startups funded by KP Impact Challenge program.

#### 2.5.2.1 Startups Registered at BIC

BIC incubated following start-ups during the year 2018-2019. During the incubation period, the start-ups were provided with mentorship, trainings and infrastructure facilities.



General Start-ups					
Sr.#	Name of Company	Representative	Products/Services	Revenue (Rs. M)	HR
1	Soft Cob	Arsalan	IT Services	0.2	04
2	Codecue	Khanzada Saleem	IT based Firm	0.6	10
3	Excellence ICT	Muhammad Pervez	Trainings and Development	0.7	02
4	Go Tech	Muhammad Faizan	Tech Solutions	0.3	10
5	WADAN	Muhammad Ali	Marketing and Sales	0.5	06
6	Karvaan	Waleed Nasir	E-Commerce	0.3	04
7	2 DN	Mr. Usman	IT solutions	0.2	03

### 2.5.2.2. Graduated Startups

Sr.#	Company	Representative	Products/Services	21-3-18	20-9-18	Revenue (Mil)	HR
1	Sam's Kitchen	Mrs. Saima Rehman	Food	21-3-18	20-9-18	0.7	12
2	Desi Tiffin Services	Kamran Ali	Food	13-4-18	20-9-18	0.9	07
3	Sapphire Innovations	Neelam Akhtar	Handicrafts	15-10-18	26-9-19	0.1	03

### 2.5.2.3. Faculty Start-ups Registered So Far

Sr.	Name of Company	Representative	Products/Services	Revenue (Millions)	HR
1	Halal Assessment and Certification Institute (Pvt Ltd)	Dr. Muhammad Jahangir	Halal Certification	0.14	05
2	Pak- China Seeds services	Dr. Shah Masaud Khan	Seeds	0.00	01
3	Business Solution Consultants	Imran Khan	Business Solutions	0.3	05
4	Tech En Gate	Athar Kaleem	Tech Solutions	0.00	01
5	Environmental & Sustainable Development Consultancy	Dr. Abdullah Khan	Environmental Solutions	0.4	04
6	U- Solutions	Dr. Mumtaz Khan	Research Consultancy	0.00	01

### 2.5.3. Universities Industries Linkages

The University of Haripur has taken number of initiatives in order to link industry with the academia. UOH has taken initiatives for building economy in the following:

1. Metal Detector Walkthrough Gate Production & Development
2. Peasantry Development
3. Mushroom Production
4. New Wheat Variety Production
5. Auto Gas Detector
6. Educating Entrepreneur
7. Transferring Technology
8. Public Health and Nutrition

### 2.5.4. Internship and Placement Office

The Placement Office also called Provost office works to facilitate full time employment and internships for UoH students and alumni. The office strives to develop and maintain a strong relationship with leading organizations of technology, public health, agricultural sciences, and information technology.

The Placement Office provides programs and services that create opportunities for employers, students, faculty, and staff to engage in mutually beneficial partnerships that meet the needs of an evolving workforce in the following manner:

- Communication Skills
- Critical Thinking Skills



- Interpersonal Skills
- Leadership Skills
- Self-Management Skills

**2.5.5. Student Counselling and Career Guidance**

Students from all departments can get registered themselves with Internship and Placement Office for receiving reputed internship and career opportunities. The Provost Office at UoH, provides programs and services to students and Alumni in

exploring and making effective career choices. The office offers the students and alumni with the following services: -

1. Career Advisory Group
2. Resume and Cover Letter Assistance
3. Interviewing Skills
4. Internship Program
5. Job Search Strategies
6. Potential Employers
7. Open Houses
8. Development Workshops for career building





CHAPTER-3

# GOVERNANCE

At The University of Haripur



"The task of excellent academics is to stimulate "apparently ordinary" people to unusual effort. The tough problem is not in identifying winners; it is making winners out of the ordinary people"

Patricia Cross



The  
**University of Haripur**  
Restoring Hope; Building Community



### 3. UNIVERSITY GOVERNANCE

University governance is an exercise of authority, control or direction through statutory bodies based on defined ways, means, rules regulations and policies. It is process through which higher education institutions are formally established, organized, managed and operated. University governance focuses mainly in bringing effectiveness, transparency and accountability in diverse academic, research and administrative spheres.

The UOH governs its internal and external administrative,



academic and research business through following statutory bodies.

1. The Senate
2. The Syndicate
3. The Selection Board
4. The Finance and Planning Committee (F&P)
5. The Academic Council
8. The Advanced Study and Research Board (ASRB)

During 2021-22 following activities were performed through different statutory bodies.



#### 3.1. SENATE MEETINGS

During the year under review, a total of 03 meetings of the Senate were held to discuss, decide and grant approval to a number of agenda items. Senate meetings were chaired by the Hon'ble Chancellor /Honorable Governor KP. Details of these meetings are as follow:



Meeting No.	Agenda of the Meeting	Date	No. of Participants
7 <sup>th</sup>	<ul style="list-style-type: none"> <li>Correction/Amendment in Statutes</li> </ul>	Dec, 2020	14
8 <sup>th</sup>	<ul style="list-style-type: none"> <li>Confirmation of minutes of 6<sup>th</sup>&amp; 7<sup>th</sup> meeting of Senate</li> <li>Revised Budget for FY 2020-21&amp; budget Estimates for FY 2021-22                             <ul style="list-style-type: none"> <li>Annual Reports for 2018-19&amp; 2019-20 and Activity Plan for 2021-22</li> <li>Establishment of new Departments &amp; Faculties (Restructuring of Academic Programs)</li> </ul> </li> <li>GIT Report</li> </ul>	Jan 5, 2022	19
9 <sup>th</sup>	<ul style="list-style-type: none"> <li>Confirmation of minutes of 8<sup>th</sup> Meeting of Senate</li> <li>Minutes of Committees constituted by 8<sup>th</sup> meeting of Senate</li> <li>Committee for Restructuring of Academic Programs</li> <li>Regarding GIT's Report</li> <li>Revised budget for FY 2021-22 &amp; Budget Estimates for FY 2022-23</li> </ul>	May 28, 2022	16

### 3.2. SYNDICATE MEETING

During 2021-22 a total of 09 syndicate meeting were held to discuss, deliberate upon and decide upon key academic, research and administrative matters pertaining to the University of Haripur. Details of meetings and key agenda points discussed are as follow:

Meeting No.	Agenda of the Meeting	Date	No. of Participants
19 <sup>th</sup>	<ul style="list-style-type: none"> <li>Endorsement of minutes of 18<sup>th</sup> Meeting of the Syndicate</li> <li>Syndicate Nominee as member of F&amp;PC</li> <li>Mercy appeal of Mr. Waqas Ahmed</li> <li>Reconsideration of Prime Minister's Assistance Package for families of Government Employees who die in service.</li> <li>Approval of Minutes of 6<sup>th</sup> meeting of F&amp;PC</li> <li>Minutes of 7<sup>th</sup> meeting of Academic Council</li> <li>Minutes of Sub-committee of Syndicate to investigate regular induction of contract employees (BPS 1-16)</li> <li>Minutes of 6<sup>th</sup> Selection Board</li> <li>Study leave of faculty members</li> <li>Minutes of special meeting conducted by internal members of Syndicate regarding appeal of Mr. Riaz Muhammad</li> <li>Report of Sub-committee regarding appeal of Mr. Riaz Muhammad</li> <li>Case of Annual increment of TTS faculty</li> <li>Standing list of experts approved by Syndicate</li> <li>Constitution of DAC</li> <li>Scrutiny &amp; Quantification Criteria</li> </ul>	Feb 14, 2020	16

Meeting No.	Agenda of the Meeting	Date	No. of Participants
20 <sup>th</sup>	<ul style="list-style-type: none"> <li>• Endorsement of minutes of 19<sup>th</sup> Meeting of the Syndicate</li> <li>• Approval of minutes of 7<sup>th</sup> Meeting of F&amp;PC</li> <li>• Approval of minutes of 7<sup>th</sup> Selection Board</li> <li>• Approval of minutes of 8<sup>th</sup>&amp; 9<sup>th</sup> meetings of Academic Council</li> <li>• Approval of minutes of 8<sup>th</sup>&amp; 14<sup>th</sup> meetings of Selection Board</li> <li>• Decision of HEC TTS Review Committee</li> <li>• Approval of Medical Attendance Rules and Transport Rules 2020</li> <li>• Appeal of Mr. Riaz Muhammad</li> <li>• Appointment of Mr. Akbar Khan</li> <li>• Meeting of 15<sup>th</sup> selection board postponement</li> <li>• Annual increment of TTS faculty</li> <li>• Case of Fixed pay faculty members</li> </ul>	Jul 27, 2020	16
21 <sup>st</sup>	<ul style="list-style-type: none"> <li>• Endorsement of minutes of 20<sup>th</sup> Meeting of the Syndicate</li> <li>• HEC Policy on Sexual Harassment in HEIs</li> <li>• Appointment case of Dr. Wasif Nauman</li> <li>• Appointment of Chairpersons</li> <li>• Annual Increment Cases of TTS</li> <li>• Testing Organizations</li> <li>• Approval of minutes of 10<sup>th</sup> to 12<sup>th</sup> meeting of Academic Council</li> <li>• Annual report 2018-19 &amp; 2019-20</li> <li>• Approval of fee of makeup exam of MS/MPhil and PhD</li> <li>• Remuneration for MPhil/PhD Thesis Evaluation, Viva Voce &amp; Comprehensive Examination</li> <li>• Nomination of member Syndicate as member Affiliation Committee</li> <li>• Dr. Fayyaz Khan TTS Advance Increment</li> <li>• MS/ MPhil or Equivalent Degree Allowance</li> <li>• Approval of UOH Rules</li> <li>• Inquiry Committee Reports</li> <li>• Appeal of Class IV employees working on contract for relaxation</li> <li>• Quantification of Criteria Clarification</li> <li>• Surety bond of various leave Cases</li> </ul>	Jan 16, 2021	13
	<ul style="list-style-type: none"> <li>• Legal Professional fee</li> <li>• Nomination for members of ASRB</li> <li>• Appointment of Advisor</li> <li>• Approval of minutes of 13<sup>th</sup> Academic Council</li> </ul>		
22 <sup>nd</sup>	<ul style="list-style-type: none"> <li>• Approval of 16<sup>th</sup> meeting of selection board</li> </ul>	Feb 6, 2021	16
23 <sup>rd</sup>	<ul style="list-style-type: none"> <li>• Minutes of 8<sup>th</sup> meeting of F&amp;PC</li> <li>• Hiring of Consultant finance</li> <li>• Syndicate Nominee for Selection board</li> </ul>	Jun 12, 2021	17
24 <sup>th</sup>	<ul style="list-style-type: none"> <li>• Endorsement of minutes of 21<sup>st</sup>, 22<sup>nd</sup>&amp; 23<sup>rd</sup> Meetings of the Syndicate</li> <li>• BOK case</li> <li>• Approval of minutes of 8<sup>th</sup> meeting of F&amp; PC</li> <li>• Approval of minutes of 17<sup>th</sup>, 18<sup>th</sup>&amp; 19<sup>th</sup> meetings of Selection board</li> <li>• Changes in master plan of UOH</li> <li>• Approval of minutes of 14<sup>th</sup> meeting of Academic Council</li> <li>• Transport Rules</li> </ul>	Jun 19, 2021	17



Meeting No.	Agenda of the Meeting	Date	No. of Participants
	<ul style="list-style-type: none"> <li>Appointment of Chairpersons</li> <li>TTS cases</li> <li>Report of Hiring of fixed pay faculty</li> <li>Report on 2-16 appointments</li> <li>Case of Musa Khan &amp; Others</li> <li>Inquiries</li> <li>Equivalency of IPFP fellowship as Postdoctoral fellowship</li> <li>Remuneration of external members</li> </ul>		
25 <sup>th</sup>	<ul style="list-style-type: none"> <li>Endorsement of minutes of 24<sup>th</sup> Meeting of the Syndicate</li> <li>Constitution of Selection Committee</li> <li>Case of Musa Khan &amp; Others</li> <li>Case of Annual increment to TTS Faculty</li> <li>Mr. Riaz Muhammad Salary deduction</li> <li>Mr. Ayaz Ahmad &amp; Mr. Sajid Mehmood - Annual Increment Case</li> <li>Case of Muhammad Nadeem Dispenser</li> <li>Approval of minutes of 9<sup>th</sup> meeting of F&amp;PC</li> <li>Case of implementation of supreme court judgement – quota for minorities</li> <li>Approval of Recommendations in 15<sup>th</sup> meeting of Academic Council</li> <li>Status of appointment being shortlisted as stand by candidate for post of Deputy Registrar</li> </ul>	Aug 7, 2021	17
26 <sup>th</sup>	<ul style="list-style-type: none"> <li>Endorsement of minutes of 25<sup>th</sup> Meeting of the Syndicate</li> <li>Approval of minutes of 10<sup>th</sup> Meeting of F&amp;PC</li> <li>Approval of Minutes of 16<sup>th</sup> Meeting of Academic Council</li> <li>Approval of Policies of UOH</li> <li>Approval of Rules of UOH</li> <li>Establishment of 3 Centers at UOH</li> <li>Leave Cases</li> <li>Extension granted in joining of faculty members</li> <li>Case of annual increment of TTS faculty</li> <li>Approval of opening of official accounts of UOH</li> <li>Case of Payment of arrears of MS allowance</li> <li>Report of Faculty Hiring on Fixed Pay Basis Fall 2021</li> <li>Adoption of guidelines issued by HED regarding recruitment under Section 11 5-d &amp; Section 11-5 e</li> <li>Pay Protection Cases</li> <li>Complaints &amp; updated progress</li> <li>Request of MR. Khurram Mehtab for correction in his termination order</li> <li>Nomination for ASRB by Syndicate</li> <li>Case of Implementation of Deceased Employee's son quota</li> <li>Approval of minutes of 12<sup>th</sup> meeting of Selection &amp; Promotion Committee</li> <li>Update on 8<sup>th</sup> Meeting of Senate &amp; Performance of University during last 3 years and annual report 2021</li> <li>Request of Dr. Afsha Jabeen for conversion from TTS to BPS</li> <li>Confirmation of minutes of 18<sup>th</sup> meeting of Investment Committee</li> </ul>	Mar 8, 2022	19
27 <sup>th</sup>	<ul style="list-style-type: none"> <li>Approval of minutes of 11<sup>th</sup> Meeting of F&amp;PC</li> </ul>	May 19, 2022	14

### 3.3. SELECTION BOARDS

A total of 04 Selection Board meetings were held during the reporting period. Selection of 41 posts were made during these meetings. Details of the meetings are as follow:

Details of Selection Boards (2021-22)					
Meeting No.	Name of Department	Date	No. of Post	No. of post Vacant	Title of Post/Grade
<b>16th Meeting of Selection Board</b>	Information Technology	5-Feb-21	1	--	Professor(BPS/TTS)
	English		1	1	Professor(BPS/TTS)
	Health & Physical Education		1	--	Associate Professor (BPS/TTS)
	Psychology		1	--	Associate Professor (BPS/TTS)
	Establishment		1	--	Assistant Registrar (BPS-17)
	Meetings		1	--	Assistant Registrar (BPS-17)
	Academics		1	--	Assistant Registrar (BPS-17)
	Exam Section		1	--	Assistant COE (BPS-17)
	Registrar Office		2	--	Deputy Registrar (BPS-18)
	Exam Section		1	1	Deputy COE(BPS-18)
	Treasure Office		1	--	Deputy Treasurer (BPS-18)
	Provost Office		1	--	Additional Provost (BPS-19)
	Exam Section		1	1	Additional COE (BPS-19)
	P&D Office		1	1	Additional Director P&D (BPS-19)
Treasure Office	1	1	Additional Treasurer (BPS-19)		
QEC Section	1	--	Additional director QEC (BPS-19)		
<b>Total No. of Posts Filled . 12</b>					
<b>17th Meeting of Selection Board</b>	Chemistry	16-Jun-21	1	--	Professor(BPS/TTS)
	Chemistry		2	--	Assistant Professor (TTS)
	Bio-Chemistry		1	--	Assistant Professor (TTS)
	Physics		1	1	Professor(BPS/TTS)
	Physics		1	--	Assistant Professor (TTS)
	Medical Lab Technology		2	--	Assistant Professor (TTS)
	Zoology (Biology)		1	--	Assistant Professor (TTS)
	Earth Sciences		1	--	Assistant Professor (TTS)

Details of Selection Boards (2021-22)					
Meeting No.	Name of Department	Date	No. of Post	No. of post Vacant	Title of Post/Grade
<b>Total No. of Posts Filled . 13</b>					
<b>18th Meeting of Selection Board</b>	Information Technology	17-Jun-21	2	--	Associate Professor (BPS/TTS)
			5	--	Assistant Professor (TTS)
	Mathematics & Statistics		1	--	Associate Professor (BPS/TTS)
			1	--	Assistant Professor (TTS)
<b>Total No. of Posts Filled . 09</b>					
	Economics		1	1	Professor BPS/TTS)
<b>19th Meeting of Selection Board</b>	Economics	18-Jun-21	1	--	Assistant Professor (TTS)
	English		1	1	Associate Professor (BPS/TTS)
	English		1	--	Assistant Professor (TTS)
	History & Politics (History/Pak Std)		1	--	Assistant Professor (TTS)
	History & Politics (Pol.Sci./IR)		1	--	Assistant Professor (TTS)
	Health & Physical Education		1	--	Assistant Professor (TTS)
<b>Total No. of Posts Filled . 07</b>					

### 3.4. ADVANCED STUDIES AND RESEARCH BOARD MEETINGS

Advance Studies and Research Board -UOH was established in March 2014. This statutory body is mandated to advise authorities on all matters connected with the promotion of advanced studies and research in the university, consider and report to the authorities on the institution of research degrees and propose regulations regarding the award of research degrees.

During 2021-22 a total of 12 ASRB meetings were held:

- 17th-A Meeting of ASRB held on Feb 23, 2021
- 17th-B Meeting of ASRB held on April 6, 2021
- 18th Meeting of ASRB held on July 7, 2021
- 19h Meeting of ASRB held on September 24, 2021
- 20th Meeting of ASRB held on December 2, 2021
- 21st Meeting of ASRB held on February 9, 2022
- 22nd Meeting of ASRB held on March 31, 2022
- 23rd Meeting of ASRB held on May 31, 2022
- 24th Meeting of ASRB held on August 12, 2022
- 25th Meeting of ASRB held on September 13, 2022
- 26th Meeting of ASRB held on November 16, 2022
- 27th Meeting of ASRB held on December 13, 2022

### 3.5. FINANCE AND PLANNING (F&P) COMMITTEE MEETING

Finance & Planning Committee 02 meeting was held on 2021-22. The meeting was chaired by Hon'ble VC-UOH. The meeting reviewed annual statement of accounts and revised budget estimates, existing financial position of the university, and matters relating to physical and technological infrastructural development, investment, financial performance of the preceding year in terms of income and expenditure incurred, development and recurring financial plan (budget), sources of income and other related issues pertaining to UOH financial management. The meeting granted approval of UOH for Budget 2021-22 and issued directives concerning diverse range of financial matters.

### 3.6. ACADEMIC COUNCIL MEETING

A total of 06 meeting of the Academic Council, University of Haripur was held on May 16, 2016. The agenda items presented and approved after discussion included:

- Minutes of the meeting of Board of Faculty of Basic and Applied Sciences
- Minutes of the of Board of Faculty Social and Administrative Sciences
- Selection and approval of members for Board of Studies for various departments

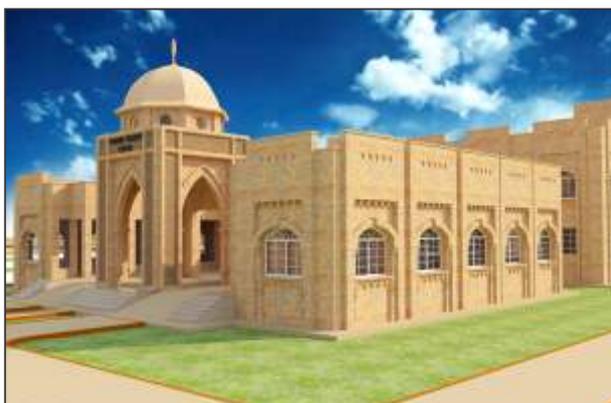
### 3.7. STRENGTHENING OF PHYSICAL AND TECHNOLOGICAL INFRASTRUCTURE

#### 3.7.1. Physical Infrastructure

##### 3.7.1.1. UOH-HEC Development Project

The hallmark of the year is characterized the approval of UOH-HEC development Project titled “Strengthening and Development of Physical and Technological Infrastructure at the University of Haripur”. The subject project was approved by CDWP on May 6, 2019 with total allocation of Rs. 1546.960 million. The project is in implementation phase and almost 70% of the project in completed. The project covers:

1. UoH Social & Administrative Sciences Block Construction
2. UoH Basic & Applied Sciences Block Construction
3. UoH Central Library
4. UoH Male Student Hostel
5. UoH Female Student Hostel
6. UoH Faculty Hostel
7. UoH Student Teacher Center
8. UoH Gymnasium Hall
9. UoHVC Residence
10. 1.5 km Internal Road
11. Water Tank having storage capacity of 50,000 gallons of water.



**3.7.2. Strengthening of Technological Infrastructure**

Directorate of IT Services at The University of Haripur provides students, faculty and staff with technology resources that support the University's mission of providing education, conducting research, and advancing engagement. They aim to provide central technology support across both the academic and administrative domains of the University and work to unify the various information technology visions across campus into one. The University's earlier investment in the Data Centre continues to serve the University well and further enhancements have been carried out by Directorate of IT services and are:

**3.6.2.1. PERN-2 Internet Connectivity**

Initially UOH had PERN1 internet connection having about 32mbps connection which is now upgraded to PERN2 having about 142mbps connection speed which is about 5 times faster enabling seamless internet browsing and usage. Although we have 142mbps connection, but the actual real time speed is nearly 300Mbps as depicted in the below graph.

**3.6.2.2. UoH LAN Enhancements:**

At startup UoH LAN has approximately 400 network connections. Last year we have approximately 1600 network nodes spread across multiple buildings. Now the network nodes increased to 2150 approximately. These nodes spreading across the university campus with state-of-the-art logical networking comprised of multiple VLANs for different departments and having local client connectivity speed is about 1Gbps. Administrative staff, faculty and labs are equipped with this network and enhancement is carried out on daily basis.

**3.6.2.4. Labs Maintenance**

Initially UoH has only 2 IT labs consisting of about 40 computers each. Now with the construction of new academic blocks it has about 8 IT labs consisting of about 240 computers. Data Center team setup all the labs with up to date operating System and all latest educational software's. All systems are connected to high speed network and are member of the active directory domain. All users use the system with their own username and password.

**3.6.2.5. Smart University Project (SUP)**

UoH has recently completed Smart University Project. SUP is equipped with the most advanced Wi-Fi technology providing wireless blanket coverage across campus, enabling users to freely access internet in all open and indoor areas with minimum of 60 per cent of signal strength, power backup units (UPSs) for 24x7 services and achievable data rate of 4Mbps to each user. About 3000 user accounts have been created and every user

have its own username and password to connect to internet. This has been done under a three-year 'Smart Universities Project' launched by the Higher Education Commission of Pakistan and implemented by Cisco in collaboration with Commtel.

This Rs. 2 billion project across HEIs will also provide support of Eduroam services which enable students and faculty to freely access internet, while visiting any other university in the country or universities abroad offering Eduroam services. Eduroam or education roaming is an international roaming service that provides students and faculty an easy and secure network access, when visiting an institution other than their own. Students will have to use the same credentials provided to them by their home institution to access the network locally, while authorization to access the Internet and possibly other resources is handled by the visited institution.

**3.6.2.6. Video Conferencing**

The basic objective of Video Conferencing facility is to enhance students' teachers' interaction through distance learning, bridge the gap of good faculty, meet the shortage of faculty members at the universities located at far-flung areas and ultimately to uplift the standard of education in Pakistan.

UoH has coordinated about 60 video conference sessions in the year 2020-21. In these sessions, interactive lectures on various topics and recorded lectures from local and foreign universities. The lectures delivered/broadcast has aimed to develop fundamental concepts, to enhance the critical thinking for under-graduate and graduate students and to discuss cutting edge technologies/research work in the fields of modern sciences for students and faculty members.

**3.6.2.7. IP Surveillance- Enhancement of Safe Campus Project with pictures**

During 2020-21 in addition to UoH 60 IP cameras 41 more cameras added under Safe University Campus. Now total 100 IP cameras installed, and separate control Room is setup to provide state of the art IP surveillance.



### 3.7.2.8. Access Control System- Student RFID attendance

UoH is equipped with latest state of the art biometric access control system that provides digital Attendance of the University Staff. UoH has in house RFID Printer by the help of which we print RFID cards of Employees and Students. Until last year about 5000 RFID Cards are printed and distributed to the staff, Faculty and students. Now this year students are added to mark their attendance through RFID student cards that is recorded online in ERP system. This year about 1500 more RFID cards have been printed for the Fall 2018 students and new faculty and staff.

### 3.7.2.10. Enterprise Resource Planning System / Campus Information Management System

Formal Study of design and development of the UoH ERP started since Feb 2016 and completed in the reporting period.. Objective of this system was to provide technology solutions for the specific needs of different sectors and departments of UoH. Following modules and subsystems have been developed for the automation of the process of the UoH.



System Configuration Module	Financial Management Module
Student Enrollment Module	Academic/ Event Calendar Module
Basic Human Resources (HR) Module	Attendance Module
Human Resources Induction Module	Faculty Portal
Academic Programs Configurations	Students' Portal
Timetable Management Module	User Management System
Fee Management Module	Quality Enhancement Cell Module
Examination Management Module	Library Management Module
Financial Management Module	Quality Enhancement Cell Module
Academic/ Event Calendar Module	Library Management Module
Attendance Module	Basic Hostel Management Module.
Faculty Portal	Online Admissions Portal
Students' Portal	Online Job Application Portal
User Management System	Inventory and Warehouse Management
Basic Transport Management Module	Document Tracking Module
Procurement Management Module	ORIC automation





CHAPTER-3

# FINANCIAL STATUS

of The University of Haripur



"A budget isn't about restrictions. Having a plan allows you the freedom to make spending without guilt and regret"



The  
**University of Haripur**  
Restoring Hope; Building Community



### 4.1. ANNUAL STATEMENT OF ACCOUNTS (FY 2021-22)





SUMMARISED BUDGET PROFILE						
Revised Estimates FY 2021-22 & Budget Estimates FY 2023-24 (Rs. Million)						
Particulars	2021-22 (Actual)	CFY 2022-23				Budget Estimates 2023-24
		Budget Estimates 22-23	Revised Estimates			
			Actual for 10 months	Estimates for 2 months	Total R. Estimates 22-23	
<b>1. Opening Balance:</b>	312.648	232.185	299.961	486.963	299.961	279.624
<b>2. Total Grants &amp; Donations [a - h]</b>	<b>293.703</b>	<b>300.267</b>	<b>332.374</b>	<b>22.644</b>	<b>355.017</b>	<b>350.000</b>
a. Federal Govt. General Budgetary Support including ORIC,QEC,FAD	200.858	200.858	183.473	8.346	191.819	288.323
b. Federal Government Grant for Need Based Sch.			8.646	0.393	9.039	
c. Ceiling Tenure Track Faculty	92.540	99.409	85.850	3.905	89.755	
d. Federal Govt. Supplementary / Additional Grant in Aid				10.00	10.000	
<b>Total Federal Grant</b>	<b>293.398</b>	<b>300.267</b>	<b>277.969</b>	<b>22.644</b>	<b>300.613</b>	<b>288.323</b>
e. Provincial Govt. Grant						61.677
f. Grant for Endowment Fund (HEDP) for Revenue Generation through Non Traditional Sources & Establishment of UDO Office			53.900		53.900	
g. Any Other Grant (Share of ORIC)	0.305		0.505		0.505	
<b>3 (i) Students Related Income [3(i) a - 3(i) e]</b>	<b>471.080</b>	<b>599.613</b>	<b>547.690</b>	<b>10.682</b>	<b>558.372</b>	<b>654.759</b>
<i>Tuition Fees</i>	192.825	264.283	235.654	3.425	239.079	290.896
<i>All Other Fees</i>	179.490	252.880	201.411	5.629	207.041	251.163
<i>Hostel Charges, Transport etc.</i>	19.309	19.700	26.985	0.165	27.150	29.700
<b>a. On Campus Students (sub-total)</b>	<b>391.623</b>	<b>536.863</b>	<b>464.050</b>	<b>9.219</b>	<b>473.270</b>	<b>571.759</b>
b. Affiliated College/Institutions' Students	55.355	50.000	59.475	0.127	59.602	61.500
c. External (Private) Students	24.103	12.750	24.165	1.335	25.500	21.500
<b>3 (ii) Other Venues of Income [3(ii) a - 3(ii) f]</b>	<b>62.432</b>	<b>61.600</b>	<b>82.078</b>	<b>2.903</b>	<b>84.981</b>	<b>87.300</b>
f. Any Other Income	62.432	61.600	82.078	2.903	84.981	87.300
<b>3 (iii) Receipts from Endowment Fund (if any)</b>						
<b>3. Total Own Resources</b>	<b>533.512</b>	<b>661.213</b>	<b>629.768</b>	<b>13.585</b>	<b>643.353</b>	<b>742.059</b>
<b>A. Total Available Resources [1+2+3]</b>	<b>1,139.864</b>	<b>1,193.665</b>	<b>1,262.103</b>	<b>523.192</b>	<b>1,298.331</b>	<b>1,371.683</b>
<b>4. Expenditure Break-up:</b>	<b>839.903</b>	<b>1,008.637</b>	<b>775.139</b>	<b>243.568</b>	<b>1,018.707</b>	<b>1,121.261</b>
a. Faculty Salary	255.466	302.747	212.808	60.979	273.787	356.268
b. TTS Faculty Salary/ Gratuity	186.857	223.437	159.161	49.087	208.248	214.237
c. Salary of Officers & Staff -Teaching Departments	45.806	32.850	41.148	3.264	44.412	49.992
d. Salary of Officers & staff -All Non-Teaching Department:	148.552	186.152	137.363	40.286	177.650	199.968
e. Other Establishment Charges	3.517	6.500	4.289	1.911	6.200	10.300
f. Non Salary Expenses / Other Charges	194.408	225.871	206.861	82.649	289.510	260.496
g. Research	4.088	25.000	12.000	5.000	17.000	25.000
h. Library Expenses	1.005	3.000	1.375	0.225	1.600	2.000
i. QEC Expenses	0.204	3.080	0.134	0.166	0.300	3.000
<b>5. Total Establishment Charges [4 a to e ]</b>	<b>640.198</b>	<b>751.686</b>	<b>554.769</b>	<b>155.528</b>	<b>710.297</b>	<b>830.765</b>
<b>6. Total Non Salary Expenses [4 f to h ]</b>	<b>199.704</b>	<b>256.951</b>	<b>220.370</b>	<b>88.040</b>	<b>308.410</b>	<b>290.496</b>
<b>B. Total Expenditures [ 5 + 6 ]</b>	<b>839.903</b>	<b>1,008.637</b>	<b>775.139</b>	<b>243.568</b>	<b>1,018.707</b>	<b>1,121.261</b>
<b>C. Surplus / Deficit [A - B]</b>	<b>299.961</b>	<b>185.0281</b>	<b>486.963</b>	<b>279.624</b>	<b>279.624</b>	<b>250.422</b>



## 4.2 SELF-GENERATED INCOME

UoH is striving hard to emerge as a self-generated income HEI in Pakistan. Under the umbrella of University Advancement Cell (UAC), different academic departments are promoting Entrepreneurship among faculty, students, and administration. Two of our departments namely IT and Agriculture have worked out different products that have enough potential to become a market-oriented product and provide valuables to UoH. Currently, different MOUs have been signed with main objective of generating income to University.

## 4.3 FINANCIAL AID AND DEVELOPMENT

### 4.3.1. Highlights during last 5 Years

So far a total of 2,728 students were awarded financial assistance worth Rs. 70 million from 2013-2022. Year wise trends in students financial aid are as follow





**Year Wise Trends in Financial Assistance Provided to Students (2015-22)**

Year	No of students	Amount awarded (In Millions)
2015-16	494	8.339
2016-17	459	9.783
2017-18	528	14.744
2018-19	635	19.73
2019-20	612	18.973
2020-21	857	68.39
2021-22	721	73.05
<b>Total</b>	<b>2728</b>	<b>213</b>



Types of Scholarships Offered			
Institutional Scholarships	Foreign Funded	Local / Indigenous	Loan Scheme
Orphans	French Need Based	HEC NBS	Ihsan Trust
Sibling Rebate	German Need Based	MORA	NBP
Physically Challenged	Scottish Scholarship for Women	Bait Ul Mal	
UOH Merit Based	USAID Scholarships	Political	
UOH Merit Cum Need Based		DIYA Pakistan	
		SAFE	
		PEEEF	
		PMFRS	



#### 4.3.4. THE DONORS

1. Higher Education Commission (HEC)
    - HEC Need Based Scholarships
  2. Federal Government
    - PM Fee Reimbursement
    - Political Scholarships
    - PM Laptop Scheme
  3. KPK Government
    - Zakat Stipends under MORA Scholarships
    - Pakistan Bait Ul Mal Scholarships
    - Frontier Education Foundation (FEF)
  4. French Need Based
  5. German Need Based
  6. DIYA Pakistan
  7. Hashoo Foundation
  8. PEEF (Punjab Education Endowment Fund)
  9. IHSAN Turst Qarz-e-Hasna Scheme
  10. National Bank Loan Scheme
  11. Al-Khidmat Foundation
  12. Karwan-e-Ilam Foundation
  13. Akhtar Nawaz Foundation
- b. Institutional Scholarship (from University Own Resources)**
1. University of Haripur Scholarship Merit Based Scholarships
  2. University of Haripur Merit cum Need based Scholarships  
(Top three students from each department; waiver in tuition fee of 100%, 75% and 50% respectively).
- c. Tuition Fee Waiver Program**
- a. Tuition Fee Waiver for Orphans
  - b. Tuition Fee Waiver for Real Brother / Sisters (sibling rebate)
  - c. Tuition Fee Waiver for Physically Challenged Students



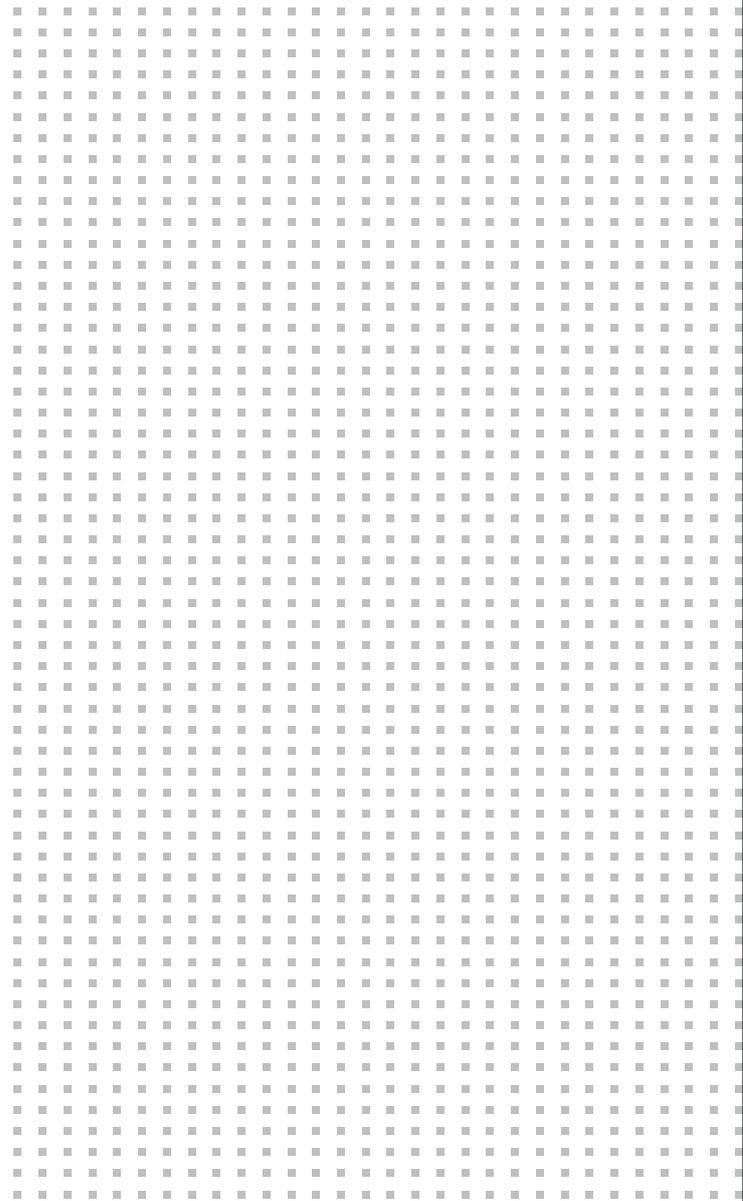
A person wearing a dark suit, white shirt, and dark tie is holding a rectangular wooden sign. The sign is light-colored wood and has the words "STUDENT FINANCIAL AID" printed on it in a bold, dark brown, sans-serif font. The person's hands are visible at the top and bottom edges of the sign. The background is plain white.

**STUDENT  
FINANCIAL  
AID**



"Just as castles provided the source of strength for medieval towns, and factories provided prosperity in the industrial age, universities are the source of strength in the knowledge based economy of the 21<sup>st</sup> century"

(Lord Dearing, September 2002)



The  
**University of Haripur**  
Restoring Hope; Building Community

