

# OFFICE OF RESEARCH, INNOVATION & COMMERCIALIZATION (ORIC)

DOW UNIVERSITY OF HEALTH SCIENCES

# STRATEGIC PLAN (2024 - 2027)

**Pioneering Excellence | Inspiring Innovation** 



## To Heal | To Educate | To Discover



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## DIRECTOR'S MESSAGE



The establishment of the Office of Research, Innovation & Commercialization (ORIC) at Dow University of Health Sciences in 2011, mandated by the Higher Education Commission of Pakistan (HEC), marked a significant step towards advancing our commitment to research excellence.

Our ongoing efforts have been directed at optimizing the functions of ORIC, aligning with the strategic goals of DUHS and HEC. The 2024-27 Strategic Plan is a collective outcome, integrating inputs from our dedicated ORIC staff and informed by a comprehensive assessment of previous years for continual improvement.

Strategic Emphasis:

ORIC holds a pivotal position in supporting and facilitating DUHS's overarching strategic objectives. The 2024-27 Strategic Plan strongly emphasizes elevating research standards and fostering collaboration between academic and industry. The focus is on establishing robust public-private partnerships and integrating all departments with ORIC to enhance research support and facilitation.

#### Capacity Building Programs:

Over the next three years, our capacity-building programs will revolve around enhancing the quality of research and increasing the annual publication of research papers. We are dedicated to nurturing public-private partnerships at both student and faculty levels, aiming to empower our academic community for meaningful contributions in the field of health sciences.

ORIC envisions leveraging emerging technologies like artificial intelligence (AI), blockchain, and big data analytics to transform research capabilities and establish DUHS as a global leader in health sciences innovation.

As we embark on this transformative journey, I encourage active participation from all stakeholders to collectively realize our vision of advancing research to new horizons.

#### Dr. Kashif Shafique

## EXECUTIVE SUMMARY

This strategic plan for the Office of Research, Innovation & Commercialization (ORIC) at Dow University of Health Sciences has been crafted through a collaborative, participatory approach involving stakeholders at all levels. The plan's development employed realistic and measurable goals, with vital contributions from stakeholders, particularly through SWOT analysis and self-assessment reports from previous years.

#### Key Emphasis:

ORIC's significance within the university is underscored by its pivotal role in providing essential support for research and facilitating the commercialization of health innovations. This is achieved through strategic and public-private partnerships. A key focal point is the training and development of human resources in research, innovation, and commercialization, aiming to enhance the quality and quantity of innovative research and increase the number of commercialized projects and research paper publications.

It was discussed to prioritize the objectives of the ORIC strategic plan in line with the vision and goals of the university. The objectives were then clearly designed under the university's vision and the HEC guidelines with clear consideration of the challenges facing research and technology concerning the evolving trends both nationally and internationally.

The key emphasis endured with the comprehensive monitoring and evaluation of the overall performance concerning the KPIs and measurable outcomes as defined in the strategic plan. In essence, the strategic plan for ORIC reflects a collective commitment to advancing research, innovation, and commercialization at Dow University of Health Sciences. The plan leverages AI and machine learning for predictive analytics and blockchain for secure data management. The active involvement of stakeholders has been pivotal in shaping a roadmap that aligns with the university's broader goals and aspirations.

## ABOUT THE DEPARTMENT

With the establishment of DUHS, the Directorate of Research was introduced to foster a robust research culture within the institute. A variety of initiatives were implemented to enhance the progression of research at DUHS, including the facilitation of registration and approval of research proposals through Institutional Review Boards (IRB), the initiation of the Journal of Dow University of Health Sciences (JDUHS) for publication, and the encouragement of faculty research profiles through activities such as research poster competitions and annual research days. Additionally, the introduction of graded courses, degree programs, and periodic training sessions bolstered the understanding of research-based courses among faculty and students.

Since its inception, ORIC has developed policies to enhance activities related to innovation and commercialization at DUHS, offering comprehensive end-to-end services, ORIC covers research and development, innovations, commercialization, patents, collaborations, and the organization of seminars, symposiums, conferences, workshops, and research publication honorarium. Serving as the central point for all research-related activities, ORIC facilitates DUHS researchers, including faculty members and scholars, in promoting their research work both nationally and internationally.

## INTRODUCTION & OVERVIEW

ORIC has been constantly introducing new programs and opportunities annually, which include enhanced research training programs, SDGs conferences, and highly anticipated annual innovation competitions for students and faculty.

Furthermore, ORIC acts as a crucial link between industry and academia, providing a platform for universities to receive financial and strategic support. This collaboration significantly contributes to the research and development support of the industry, aligning DUHS with a broader landscape of innovation and knowledge exchange.

#### Past Achievements/Progress:

Year	Score Via Self- Assessment	Scores validated by HEC
2016-17	60	Late submission
2017-18	62	Late Submission
2018-19	68	51
2019-20	80	Not reported
2020-21	71	45 (Covid Year)
2021-22	74.5	69 (X Category)
2022-23	76	Pending

#### HEC-ORIC self-assessment scorecard:

## EXTRAMURAL FUNDING:

Extramural funding (PKR millions/year)	2018	2019	2020	2021	2022	2023
Targets	3.9	4.5	5	5.5	6	6.5
Progress	10	16.5	27.8	18	120	85

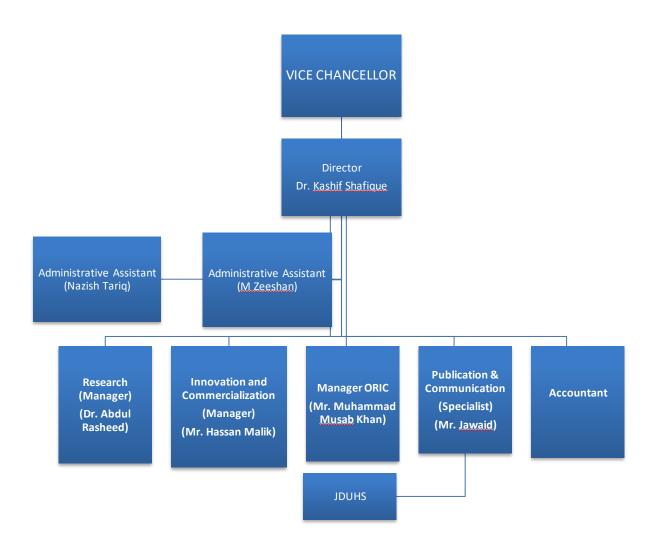
## PUBLICATIONS:

Scientific Publications in Journals with Impact Factor	2018	2019	2020	2021	2022	2023
Targets	140	175	200	225	250	275
Progress	216	336	236	344	248	604

### PUBLIC-PRIVATE PARTNERSHIPS:

Public- private partnerships	2018	2019	2020	2021	2022	2023
Targets	2	3	4	4	6	8
Progress	2	4	5	4	6	7

### ORIC ORGANOGRAM



## SECTION I: OVERVIEW OF THE STRATEGIC PLANNING PROCESS

The strategic planning process for ORIC at DUHS is a structured approach aimed at fostering research excellence, innovation, and commercialization. It begins with aligning ORIC's objectives with DUHS's broader mission of academic and research advancement. Stakeholder engagement plays a key role, involving faculty, researchers, students, and industry partners through consultations, surveys, and strategic discussions to ensure a comprehensive and inclusive planning process.

A thorough situational analysis, including a SWOT assessment, is conducted to evaluate ORIC's strengths, weaknesses, opportunities, and challenges. External trends in research funding, intellectual property, and commercialization strategies are also examined to inform decision-making.

To translate the priorities into actionable outcomes, SMART goals are defined, supported by detailed action plans outlining initiatives, responsible entities, timelines, and resource requirements. The implementation phase ensures efficient allocation of research funds, grants, and technological resources, with ORIC taking a leading role in driving execution. Performance monitoring is conducted through Key Performance Indicators such as research publication output, patents filed, commercialization success rates, industry partnerships, and research training effectiveness.

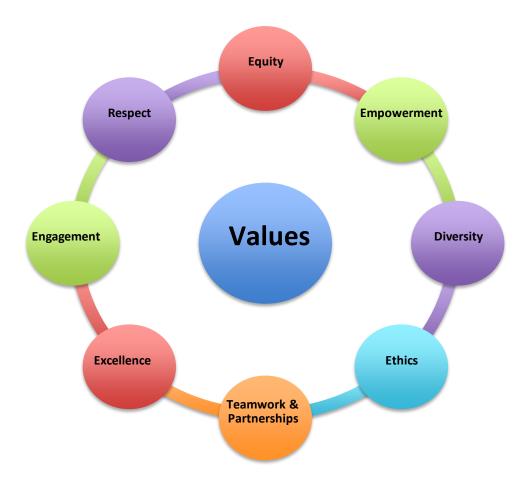
A system of continuous evaluation and adaptation ensures that ORIC remains responsive to emerging trends and evolving institutional needs. Regular reviews and refinements of strategies maintain alignment with national and global research and innovation landscapes. By following this structured strategic planning approach, ORIC strengthens DUHS's research ecosystem, drives impactful innovation, and facilitates sustainable commercialization and industry engagement.

## SECTION II: VISION, MISSION & VALUES

Vision:

To be a pre-eminent academic institution committed to changing and saving lives. Mission:

Providing outstanding patient-centered education, training, and clinical care informed by cutting-edge research and innovation, while generating and disseminating new knowledge.



#### VALUES

- Customer Service
  - o Put students first
- Empathy & Compassion
  - Understand before you judge
  - o Be concerned for the sufferings and misfortunes of others
- Excellence
  - Be the best and commit to exceptional quality and service
- Innovation
  - Encourage curiosity, imagine, create, and share

- Teamwork
  - Engage and collaborate
- Integrity & Leadership
  - o Be a role model and influence others to achieve their best
  - Have the courage to do the right thing
  - Hold yourself and others accountable
- Respect & Collegiality
  - $\circ$  Be kind
  - Listen to understand
  - Value different opinions

#### STATEMENT OF PURPOSE

The Office of Research, Innovation, and Commercialization (ORIC) at DUHS aims to be the cornerstone of transformative research and innovation by integrating cutting-edge technologies, fostering global collaborations, and driving commercialization efforts to address critical healthcare challenges."

## SECTION III: ASPIRATIONAL INSTITUTIONS

Outlining aspirational institutions of higher education with established ORICs provides our office with an opportunity not only to benchmark its performance but also to clearly articulate the path that it wishes to pursue and its ultimate destination. It provides both internal and external stakeholders with the tool to continually evaluate our institution's progress toward accomplishing its goals using objective and measurable parameters. Hence, ORIC has selected certain institutions as benchmark institutions.

The process of defining the aspirational institution was based on the list obtained from the HEC comprising of the established and notified ORICs as well as fully functional in the areas that are of potential development for ORIC-DUHS. Also, the defined institutions share moral values and mission with the Dow University of Health Sciences.

#### **REGIONAL:**

#### • The Aga Khan University, Karachi

The Aga Khan University in Karachi, the National University for Science & Technology (NUST) in Islamabad, and NED University in Karachi are identified as aspirational institutions for ORIC-DUHS due to their exemplary achievements in research, innovation, and commercialization. The Aga Khan University stands out for its impactful contributions to medical science, translating research into practical applications that significantly improve healthcare practices and outcomes.

#### • National University for Science & Technology, Islamabad

NUST in Islamabad has excelled in scientific research and technological innovation, with its ORIC fostering successful collaborations and the commercialization of research outcomes, positioning the university as a leader in research-driven initiatives.

#### • NED University, Karachi

NED University in Karachi has a notable history of achievements in engineering and technology, with its ORIC playing a key role in promoting an entrepreneurial culture and driving innovations with tangible societal impact.

#### GLOBAL:

#### • Harvard University

Harvard University is a global leader in research and innovation, renowned for its groundbreaking contributions across various fields, including healthcare, technology, and the sciences. With state-of-the-art research facilities and a collaborative environment, Harvard fosters interdisciplinary projects that drive discoveries and advancements. Its commitment to addressing global challenges has made it a hub for transformative ideas and cutting-edge solutions.

#### • Broad Institute

The Broad Institute is a premier research organization focused on advancing biomedical science and innovation. Collaboration between MIT and Harvard excels in genomics, disease research, and the development of new technologies to improve human health. Its interdisciplinary approach accelerates discoveries, fostering breakthroughs in precision medicine and transforming how diseases are understood and treated.

Recognizing these specific achievements, ORIC-DUHS seeks inspiration from these institutions to enhance its research, innovation, and commercialization efforts. The strategic plan focuses on addressing existing gaps and aligning practices to contribute to the overall advancement of ORIC-DUHS.

## SECTION IV: STRATEGIC GOALS

ORIC, considering the vision of the Dow University of Health Sciences and the guidelines of the HEC, aspires to gain pre-eminence in the selected areas of research, innovation & commercialization. To accomplish these objectives and to use our available resources most judiciously, we have identified the following strategic areas of emphasis:

Goal O1: Training and development of ORIC staff and faculty
 Objective 1: Conduct annual workshops/trainings/seminars on research capacity building and commercialization
 Objective 2: Arrange annual training for key ORIC personnel.
 Objective 3: Organize workshops on all relevant steps of Patents – from searching to filing annually.

Goal 2: Research Excellence

Objective 1: Encourage interdisciplinary research through competitive intramural funding of outstanding research proposals
Objective 2: Increase the amount of extramural funding annually
Objective 3: Organize research awareness week comprising of research awareness seminars, poster competitions, and community engagement events annually.

## Goal 3: Foster an innovative and entrepreneurial ecosystem through enhanced research and support.

**Objective 1:** Establish research links with other institutions, industry, and key stakeholders.

**Objective 2:** Create a digital and on-campus marketplace for students and faculty to promote innovation and entrepreneurship.

**Objective 3:** Design and promote short and long courses on entrepreneurship to improve the quality of FYPs, startups, and research projects.

## Goal 4: Drive commercially viable, groundbreaking projects for long-term sustainability.

**Objective 1**: Initiate a forum comprising faculty, management, and students for industry-academia liaison.

**Objective 2**: Optimize income generation through DUHS initiatives such as DUBIC by renting chair spaces and offices to startups

**Objective 3:** Partner with tech companies to introduce AI-driven diagnostics and research solutions.

Goal 5: Maximize publications output and quality through a strategic approach
 Objective 1: Improve the quality of published articles in JDUHS by
 effective marketing strategies and enhance its reach.
 Objective 2: Reduce the rejection rate of manuscripts submitted to
 DUHS

**Objective 3**: Increasing the number of high impact factor publications.

## **OBJECTIVES, OKRs & KPIs**

#### Goal 01: Training and development of ORIC staff and faculty

		b starr and racarty	to proficiently support enhancing their ca		ation, and comm		vicies by
		c	bjectives & Key Res	ults (OKRs)			
Ob	jective 1: Conduct a	nnual workshops/t	rainings/seminars o	n research capacit	y building and co	mmercialization	
Objective	Key Results	KPI	Measurement Method	Target	Person Responsible	Resource Requirement	Timeline
Conduct annual workshops/tr ainings/semin ars on	5 workshops/sem inars conducted annually.	Number of workshops/se minars held per year.	In the process of preparing the annual calendar for the next year	Target Q1 Identify key areas of focus, Target Q2 approved calendar of annual workshops	M Musab Khan	Experts	Q4 2025
research capacity building and commercializ ation.	3 workshops on research capacity building	Number of Workshops on research capacity building	already planned workshops on topics including manuscript writing, grant writing, etc.	Target Q1 Resource planning for the workshops, Target Q2 5 annual workshops/se minars organized	Nazish Tariq	Experts	Q4 2025
		Objective 2: Ar	range annual training	g for key ORIC per		_	
Objective	Key Results	KPI	Measurement Method	Target	Person Responsible	Resource Requirement	Timeline
Arrange annual training for key ORIC personnel.	Enhanced knowledge of staff about their respective roles	Number of ORIC staff and faculty attending the training session.	Allocated budget for trainings	Target Q1 Assessment of the staff performance/S WOT Analysis, Target Q2, Train 1 of the ORIC personnel considering their weaknesses and opportunities	Director ORIC	Budget for international trainings	Yearly
	Objective 3: Org	anize workshops	on all relevant steps	of Patents - from	searching to filing	g annually	
Objective	Key Results	KPI	Measurement Method	Target	Person Responsible	Resource Requirement	Timeline
Organize workshops on all relevant	3 patent workshops are held annually.	Number of patent-related workshops are conducted annually.	Planned workshops with IPO office	Resource planning for IP Workshops: Organize 2 workshops	Nazish Tariq	Patent expert/ Financial	Yearly
stops of			lus it in the all Mall				

Initiated MoU

with Intellectual

property firm to

facilitate the

applications process MoU signing with IP

consultants, 2

patent

applications

initiated

steps of

Patents -

from

searching to

filing annually

4 patent

applications annually Number of

patents filed

annually

Yearly

Approved budget for

patent

filing/Patent

consultancy

expense

M Musab

Khan

			Goal 02: Research E	Excellence			
Go	oal Statement: Enha	nce research cultu	re in the university t	o achieve excellen	ce in research an	d development	
		c	Objectives & Key Res	ults (OKRs)			
Objective	1: [Encourage interc	lisciplinary researc	ch through competiti	ve intramural func	ling of outstandin	ng research prop	osals ]
Objective	Key Results	KPI	Measurement Method	Target	Person Responsible	Resource Requirement	Timeline
Encourage interdisciplina ry research through competitive intramural funding of outstanding research	Increase in the number of intramural- funded projects by 50%	Number of funded projects approved	Assigned the ORIC team for effective allocation of budget for intramural funding opportunities with VCSFI as the benchmark initiative	Take new initiatives for external funding, allocate funds for intramural funding, and disseminate the information to the faculty, improve the number of funded projects by 25%	M Zeeshan	ORIC designated staff for VCSFI	50 % Increase in the Intramurall y funded projects by Q4 2025
proposals.	Improved timely completion rate of the awarded projects	Completed projects	Working on further improvement in communication with awardees regarding timely completion of the projects	[Specific target for the key result]	M Zeeshan	ORIC designated staff for VCSFI	Improve the timely completio n of the projects up to 90% by Q4 2025
		Objective 2: Incr	ease the number of e	extramural funding	annually		
Objective	Key Results	KPI	Measurement Method	Target	Person Responsible	Resource Requirement	Timeline
	50% increase in extramural funding annually.	Percentage increase in the total amount of extramural funding.	In talks with the industry partners for events support and participation	Achieving a 50% increase in the research funding sources	Jawaid Ali/M. Hasan	Marketing Budget	Launch new awareness program in Q4 2025
Increase the number of extramural funding annually	Increase the funding sources and sustain the existing programs	The number of new funding sources secured.	Identified new programs for community engagement, hosting the Hult Prize international regional program in 2025. organizing an annual innovation event.	Initiate new partnerships/c ollaborations and announce 5 new programs of extramural research.	Abdul Rasheed		Organize 3 research awareness events by Q4, 2025
Objective 3:	Organize research	awareness week o	comprising of researce engagement events		nars, poster com	petitions, and co	ommunity
Objective	Key Results	KPI	Measurement Method	Target	Person Responsible	Resource Requirement	Timeline
Organize research awareness week comprising of research awareness seminars, poster competitions, and community	Increase in awareness activities to generate new ideas and enhance the research ecosystem	Number of research awareness events	In talks with the industry partners for events support and participation	Identify potential industry partners for organizing awareness events, develop new industry links to organize academia- industry linkages events	Jawaid Ali/M. Hasan	increase the allocated Budget	Launch new awareness program in Q3 2025

events annually.	Enhanced engagement of faculty, students, public, and external stakeholders through events	level of community participation in engagement events.	Identified new programs for community engagement, hosting the Hult Prize international regional program in 2025. organizing an annual innovation event.	Engage with key stakeholders to mutually address the challenges/pro blems by organizing a research and technology exhibition (1), organize awareness seminars/work shops for students and faculty (2)	Abdul Rasheed	ORIC marketing team and approved budget	Organize 3 research awareness events by Q4, 2025
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Goal 03:	Enhance research ar		support for both stuc preneurial and innov		vith the overarchi	ng goal of foster	ing an
Goal Stateme	ent: Enhance researc		rial support for both preneurial and innov		ty, with the overa	rching goal of fo	stering an
		(	Objectives & Key Res	ults (OKRs)			
	Objective	1:Establish researcl	n links with other inst	itutions, industry, a	nd key stakehold	lers.	
Objective	Key Results	KPI	Measurement Method	Target	Person Responsible	Resource Requirement	Timeline
Establish research links with other institutions, industry, and key	10 new research partnerships/ links are established annually.	Number of new research partnerships/ links established annually	Leads generation through networking and outreach	Devise an outreach strategy to explore new potential collaborations, and 4 new links established with industry/key stakeholders.	Abdul Rasheed/M Hasan Malik	Outreach team for consistent efforts	Yearly
stakeholders.	5 collaborative research projects with other HEIs	Number of collaborative research projects with other HEIs	In negotiations with 2 new HEIs, Jinnah University and Sohail University regarding research partnerships	Bi-monthly meetings with ORICs of other HEIs, 2 New research collaborations	Abdul Rasheed/Nazi sh Tariq	Outreach team for consistent efforts	Yearly
Objective	2: Create a digital a	and on-campus ma	rketplace for studen	ts and faculty to pr	omote innovation	and entreprene	urship.
Objective	Key Results	KPI	Measurement Method	Target	Person Responsible	Resource Requirement	Timeline
Create a digital and on- campus marketplace for students and faculty to promote innovation	Fully operational marketplace at the campus	Establishment of the marketplace	Already pitched the idea to the authorities	Approval of the initiative/alloca tion of space/land, and the initiation of the establishment of the marketplace.	Muhammad Musab Khan/	Land allocation and basic structure	Quarterly
innovation and entrepreneur- ship.	10 products listed on the marketplace	Number of products listed on the marketplace.	planned event to identify/scout relevant products for the marketplace	Scout relevant products for the marketplace, induct 5 products to be listed	Muhammad Musab Khan/Hasan Malik	Website and application budget	Yearly

Objective	Key Results	KPI	Measurement Method	Target	Person Responsible	Resource Requirement	Timeline
Design and promote short and long courses on	3 short/long courses designed and implemented	Short-term courses designed, and workshops organized	Preparing the academic calendar of courses with DSDC incorporating entrepreneurship- focused courses	Identify internal/extern al experts as course facilitators, incorporate the courses in the academic calendar, Lunch 1 short-term course	M Musab Khan/Farhan Khan	ORIC/DSDC staff	Yearly
entrepreneur- ship to improve the quality of FYPs, startups, and research projects	1 long-term course developed	Long-term courses on entrepreneursh ip and related topics of key significance	Working on the course outline on advertising psychology	Get feedback from the faculty and students with research projects/FYPs for needs assessment and course validation, Launch a comprehensive course on entrepreneur- ship (1)	M Musab Khan/Farhan Khan	ORIC/DSDC staff	Yearly

Goal 04: Pur	oosefully foster g	roundbreaking pro	jects and programs that fiscal viability over th		le commercial re	levance, ensuring	g susta ined
Goal Statem	nent: Purposefully	r foster groundbrea sus	aking projects and prog stained fiscal viability o	grams that bear co ver the long term	onsiderable comn	nercial relevance	e, ensuring
			Objectives & Key Res	sults (OKRs)			
	Objective 1:Initi	ate a forum compi	rising faculty, managem	ent, and students	for industry-acad	lemia liaison.	
Objective	Key Results	KPI	Measurement Method	Target	Person Responsible	Resource Requirement	Timeline
Initiate a forum	3 quarterly meetings were conducted.	Number of quarterly meetings conducted.	In the process of identifying the proactive students and dedicated faculty to notify the forum	formation of the industry- academia forum, Induct key stakeholders/c orporate experts in the forum	Qurat-Ul Ain	ORIC Staff	Quarterly
comprising faculty, management, and students for industry- academia liaison.	3 industry- academia collaborations were initiated.	The number of industry- academia collaborations initiated.	In the process of MoU signing with 2 organizations	3-5 meetings with potential industry partners, 2 new liaisons achieved	M Hasan Malik/Musab Khan	ORIC Staff	Quarterly
	3 consultancy opportunities were created.	Create consultancy opportunities for faculty.	Exploring new projects to maximize consultancy opportunities for the faculty	Initiate a new project with industry, 2 new consultancy opportunities created	M Hasan Malik/Musab Khan	Consultancy budget	Yearly

Objective	Key Results	KPI	Measurement Method	Target	Person Responsible	Resource Requirement	Timeline
Optimize income generation through DUHS	2 rental agreements	No. of rental agreements signed	identification and allocation of ample chair space	Allocation of chair space for the purpose, 1 rental agreement	Muhammad Musab Khan	Marketing budget	Quarterly
initiatives such as DUBIC by renting chair spaces and offices to startups	Social media campaigns, digital marketing, and push strategy	Marketing of the facility/services	Submitted a proposal to HEC, currently in talks regarding the rental of chair space for freelancers	design and implement a social media marketing strategy, 4-5 applications for the chair space	Muhammad Musab Khan/M Zeeshan		Quarterly
	1		1	•		<u> </u>	
	Objective 3:	Partner with tech of	companies to introduce	Al-driven diagnos	stics and researc	h solutions.	
Objective	Objective 3: Key Results	Partner with tech of KPI	Measurement	Al-driven diagnos	Person	Resource	Timeline
Objective	•		<u> </u>				
Objective Partner with tech companies to introduce Al- driven	Key Results 3 tech companies	KPI The number of tech companies	Measurement Method 1 potential partnership initiated with EZShifa for AI	Target identify 2 potential tech partners,1 partnership	Person Responsible	Resource Requirement space allocation to	<b>Timeline</b> Quarterly Quarterly

Goal 05: De	Goal 05: Devise and execute a comprehensive strategy aimed at maximizing publications while elevating the standard of quality in published works						
Goal Statemen	t: Devise and exe	ecute a comprehens	ive strategy aimed at in published		cations while elev	ating the standa	ard of quality
			Objectives & Key Re	sults (OKRs)			
Object	tive 1: Improve th	e quality of publish	ed articles in JDUHS	by effective market	ting strategies ar	nd enhance its re	ach.
Objective	Key Results	KPI	Measurement Method	Target	Person Responsible	Resource Requirement	Timeline
Improve the quality of published articles in JDUHS by effective marketing strategies and enhancing its reach.	10 percent improvement in the quality of articles	Implementation of marketing strategy	90%	Create engaging content about JDUHS, such as infographics, video testimonials from published authors, and highlights of impactful articles. Host workshops and webinars on manuscript preparation and journal submission for researchers. (5% improvement)	Muhammad Zakauddin	ORIC STAFF	10 % improveme nt in Q4 2025

Objective 2: Reduce the rejection rate of manuscripts submitted to JDUHS							
Objective	Key Results	KPI	Measurement Method	Target	Person Responsible	Resource Requirement	Timeline
Reduce the rejection rate of manuscripts submitted to JDUHS	10% reduction in manuscript rejection rate.	Manuscript rejection rate.	80% Complete	Create a standardized checklist for statistical evaluation during the peer-review process to ensure consistency in assessing manuscripts. Increase the quality and number of publications by assisting in statistical analysis of the papers potentially considered for publication in JDUHS.	Moatter Jahan Urf Maryam	ORIC STAFF	Q4 2025
	25 resubmissions after revision.	Number of revisions submitted for resubmission.		Implement a fast-track review and publication process for exceptional papers to attract high- quality submissions. Work towards indexing JDUHS in more recognized databases like PubMed and Web of Science. (5% reduction)	Syed Omair Adil	ORIC STAFF	Q4 2025
Objective 3: Increasing the number of high-impact factor publications							
Objective	Key Results	KPI	Measurement Method	Target	Person Responsible	Resource Requirement	Timeline
Increasing the number of high-impact factor publications	300+ high- impact factor publications	Increase in the number of high- impact factor publications	80% Complete	70-80 publications, 150-200 publications	Qurat-Ul Ain/Nazish	ORIC STAFF	Q4 2025

#### SECTION V: RESOURCE PLANNING FOR ACHIEVING STRATEGIC GOALS

Successfully achieving the above-listed ORIC strategic goals is essential to the mission of DUHS. For the DUHS to achieve excellence in academics as well as administrative areas of success, the ORIC office is pivotal with its key functions comprising research support, innovation, and Commercialization, respectively.

The right identification, allocation, and mobilization of the resources will be the key to the achievement of the goals; therefore, the following is the resource plan for achieving the strategic goals.

S No.	RESOURCES	PRINCIPAL SOURCE
1	Human Resource	
	<ul> <li>Hiring adequate staff with relevant education and experience.</li> </ul>	University
	<ul> <li>Upgradation of the existing staff</li> </ul>	
2	Funding	
	- Allocation of budget for research	University
	and innovation funds and events	
	<ul> <li>Intramural grant programs</li> <li>Allocation of budget for publications,</li> </ul>	
	seed money for startups, and	
	training for staff	
	<ul> <li>Extramural funding and grant</li> </ul>	Government/Industry
3	programs Infrastructure	
5	- Allocation of space for new ventures	University
	and programs, for example	
	(Marketplace)	
4	Training and Development	
	- Training programs for researchers on	University
	grant writing, research	
	methodologies, ethics, compliance, and other relevant topics.	
	<ul> <li>Training programs using AI tools and</li> </ul>	
	equipment	
	- Development of a VR lab	
	- Training, workshops, and courses	HEC/Professional
	offered for staff	Associations
5	(national/international) Communication and Outreach	
5	- Constitution of an outreach team for	University
	the promotion of programs and	Oniversity
	services	
	- Social media (Facebook/LinkedIn)	
	subscriptions for ads and promotions	
	- Collaboration with external PR or	PR Agencies
	communication firms for outreach	
	campaigns	

6	Assessment and Evaluation	
	- Self-assessment report for	University, HEC
	monitoring and planning	oniversity, nee
7		
7	Software and Technology	
	<ul> <li>Purchasing of research software, AI</li> </ul>	University
	tools, and subscriptions	
	- IT equipment: computers,	University
	multimedia, printers, and other office	2
	supplies	
	- Development of Apps and websites	External Vendors
	for research, BIC, and startups	
8	Compliance and SOPs	
	<ul> <li>Policies and procedures for revenue</li> </ul>	University
	generation, for example Rent income	_
	from offices and chair space	
	- External consultants for IP,	Industry, HEC,
	commercialization, and investments	Professionals
9	Networking/Collaborations	
	- MOUs for research, innovation	Industry/Professional
	capacity building, etc.	organizations/Government

# SECTION VI: IMPLEMENTATION AND MONITORING OF STRATEGIC PLAN

Strategic Goals	Implementation and Monitoring (KPIs)	
1. Training and development of ORIC staff and faculty.	<ul> <li>The ORIC Directorate will identify the relevant training for the ORIC staff.</li> <li>Under the supervision of the Director ORIC, prepare an action plan for the academic year comprising all the key areas of capacity building specifically around intellectual property.</li> <li>Allocation of appropriate budget to execute the workshops, staff training and seminars, etc. annually.</li> </ul>	
	<ul> <li>Key Performance Indicators:</li> <li>✓ Begin with at least 5 annual workshops/trainings/seminars on research capacity building and commercialization, etc.</li> <li>✓ Arrange annual training for key ORIC personnel.</li> <li>✓ Workshops on all relevant steps of Patents – searching to filing annually.</li> <li>✓ Set realistic goals and objectives to ensure continued improvement stimulated by rewards and appraisals</li> </ul>	
	Responsibility:Muhammad Musab Khan(Lead) Manager ORICM. Hasan MalikManager Innovation and Com.M. ZeeshanAdministrative AssistantJawed AliCommunication Specialist	

Strategic Goals	Implementation and Monitoring (KPIs)
2. Research Excellence	<ul> <li>Frequent meetings with other HEIs and relevant entities with a composed agenda.</li> <li>Identification of contemporary materials and tools to be incorporated into the entrepreneurship courses and workshops</li> <li>Allocation of space at a key location in the OJHA campus for the marketplace</li> <li>Adequate distribution and allocation of budget for annual events and other entrepreneurial support endeavors</li> </ul>
	<ul> <li>Key Performance Indicators:</li> <li>Establishment of research links with other Higher education institutions, industry, and key stakeholders.</li> <li>Create a digital and on-campus marketplace for the students and faculty to promote innovation and entrepreneurship and execute marketing activities every month</li> <li>Design and promote short and long courses on entrepreneurship and relevant subjects to improve the quality of FYPs, startups, and research projects.</li> <li>Organize an annual research, innovation, and entrepreneurial exhibition and ideas competition to create a competitive environment for aspiring researchers and entrepreneurs</li> <li>Responsibility:         <ul> <li>Muhammad Musab Khan (lead) Manager ORIC</li> <li>Masan Malik</li> <li>Manager Innovation and Com.</li> <li>Qurrat ul Ain Masood</li> <li>Liaison Officer</li> <li>Jawed Ali</li> </ul> </li> </ul>

<ul> <li>3. Foster an innovative and entrepreneurial ecosystem through enhanced research and support.</li> <li>All the necessary steps systematic compliance procedures</li> <li>Create a competitive submissions for extram Key Performance Indic</li> <li>Encourage interdiscipli intramural funding of or VICE CHANCELLORS' 1</li> <li>Increase the number of annually</li> <li>Organize research wee seminars, poster comp engagement events an</li> <li>Develop and implement research process</li> <li>Leverage AI to automat research proposal anal Responsibility:</li> </ul>	lead the intramural funding process CHANCELLORS' SEED FUNDING is to be taken to ensure smooth and e of all the research processes and e environment and upscale the hural funding opportunities. <b>Eators:</b> inary research through competitive outstanding research proposals – SEED FUNDING INITIATIVE f extramural funding by 15 % ek comprising research awareness betitions, and community mually at relevant policies to support the ate patent searches and enhance

Strategic Goals	Implementation and Monitoring (KPIs)
4. Drive commercially viable, groundbreaking projects for long-term sustainability.	<ul> <li>ORIC Directorate will identify the relevant personnel for the formation of the forum.</li> <li>Reach out to the top industry decision-makers and create an active advisory board/steering committee</li> <li>Attain necessary approvals from the VC secretariat and disseminate the information through the registrar regarding revenue generation through rent, paid courses, and other programs.</li> <li>Design a marketing strategy for the university technologies and startup, incorporate and assign a marketing team to carry out the tasks effectively.</li> <li>Use the existing infrastructure for the Virtual labs and tech enhancement initiatives</li> </ul>
	<ul> <li>Key Performance Indicators:</li> <li>Initiate a forum comprising all the potential contributors from faculty, management, and students for industry-academia liaison, innovation &amp; commercialization and hold quarterly meetings.</li> <li>Optimize income generation through DUHS initiatives such as DUBIC by renting chair spaces and offices to startups</li> <li>Establish an outreach team comprising relevant personnel from ORIC and relevant departments specifically for the marketing of research projects, capacity-building programs, and other potential services offered</li> <li>Deployment of AI-based diagnostics and research solutions</li> <li>Responsibility: Muhammad Hasan Malik (lead) Manager ORIC M. Musab Khan Manager IL &amp;TT Qurrat-ul-Ain Masood Administrative Assistant Jawed Ali Communication Specialist</li> </ul>

Strategic Goals	Implementation and Monitoring (KPIs)
5. Maximize publications output and quality through a strategic approach	<ul> <li>Analyze the existing database of the publications from the previous years to identify the gaps and areas for improvement.</li> <li>Reach out to the researchers with high potential and an adequate record of past publications.</li> <li>Set a benchmark for the quality of publications in high-impact factor journals</li> </ul>
	<ul> <li>✓ Improve the quality of published articles in JDUHS by effective marketing strategy and enhance its reach</li> <li>✓ Increasing the number of high-impact factor publications by 10 percent</li> <li>✓ Reduce the rejection rate of manuscripts submitted to JDUHS by 10% within the next year</li> </ul>
	<b>Responsibility:</b> Syed Omair Adil (lead) Managing Editor M Zaka Uddin Web Manager

## SECTION VII: LIST OF APPENDICES

No.	DESCRIPTION
А	SWOT ANALYSIS
В	TOWS MATRIX

## APPENDIX A: SWOT ANALYSIS

STRENGTHS	OPPORTUNITIES			
1. Infrastructure (Building/	1. Market gap for new products			
Office supplies	and services.			
equipment).	<b>2.</b> Forum for academia / Industry			
<b>2.</b> Expertise in Research	liaison, Innovation, and			
Innovation (Faculty	commercialization.			
Commercialization).	<b>3.</b> Consultancy services for			
3. Industry	industry and other HEIs.			
Linkage/Accessibility due	<b>4.</b> DUBIC can generate income by			
to the Brand name and	renting chair space and offices			
credibility of DUHS.	for startups.			
<b>4.</b> Manpower is Adequate to	<b>5.</b> Training programs for industry.			
run the operations.	6. International conferences.			
5. Stable/ Supportive	7. Platform for Workshops.			
Governance	8. Research-based short courses			
6. Data of Students and	continuously.			
Faculty is easily	9. Al-driven blockchains for data			
accessible.	analytics and AI-based service			
7. Journal Indexing (Article	enhancements.			
publication, Commercial	10. The journal can collaborate with			
Impact newsletter,	researchers and institutions			
Changes Conference)	globally to enhance its reach and			
8. Publication Support from	diversity of contributions.			
the University.	11. Aspiring DUHS students could			
9. HEC Category of the	benefit from a regular			
University <b>10.</b> Access to specialized	entrepreneurship course offered. <b>12.</b> Promote social entrepreneurship			
equipment or databases,	and innovation in medical			
aiding researchers in their	healthcare delivery to address			
work.	Indigenous health issues in our			
11. Open access medical	society.			
Journal which is	<b>13.</b> Integration of existing patent			
recognized by HEC and	databases by using AI tools for			
PMDC. The journal has	global patent protection			
international indexation	global patent protection			
including SCOPUS.				
Moreover, the journal has				
no article processing or				
acceptance charges.				
<b>12.</b> Increasing number of				
students and faculty				
marketable projects.				
<b>13.</b> Financial ability to				

incorporate AI tools,

support equipment, and high-tech initiatives <b>14.</b> Utilize existing resources/infrastructure for tech labs and virtual/digital labs	
WEAKNESSES	THREATS
<ol> <li>Effective and relevant policies for employee compensation and benefits/ reward system.</li> <li>Lack of Independent and decentralized financial procedures.</li> <li>Lack of Relevant staff per the functions of ORIC and BIC</li> <li>Faculty does not have access to various research databases/journal subscriptions for accessing the article.</li> <li>The rejection rate of manuscripts submitted to JDUHS is higher. The journal is striving hard for good-quality papers.</li> </ol>	<ol> <li>Private university ORICs with easy access to industry and swift compliance.</li> <li>We will be behind if we do not focus on new advanced research techniques using AI and big data.</li> <li>JDUHS is still not indexed to reputable databases such as Web of Science and PubMed, because of which JDUHS is facing challenges in publishing high-quality papers and its online presence.</li> </ol>

## APPENDIX B: TOWS MATRIX

OP	OPPORTUNITIES (O)		THREATS (T)	
	Market gap for new products and services Forum for academia / Industry liaison, Innovation, and commercialization.		Private university ORICs with easy access to industry and swift compliance. We will be behind if we do not focus on new	
3.	Consultancy services for industry and other HEIs.		advanced research techniques using AI an big data.	
4.	DUBIC can generate income by renting chair space and offices for startups.	3.	JDUHS is still not indexed in reputable databases such as Web of Science and PubMed	
5.	Training programs for industry and international conferences.			
	Research-based short courses continuously. AI DRIVEN Data			
	Analysis services. The journal can collaborate with researchers and institutions globally to enhance its reach and diversity of contributions.			
	Promote social entrepreneurship and innovation in medical healthcare delivery to address Indigenous health issues in our society.			
10	Use existing infrastructure to introduce virtual labs for collaborative research			

STRENGTHS (S)	SO	ST	
<ol> <li>Infrastructure (Building/ Office supplies equipment).</li> <li>Expertise in Research Innovation (Faculty Commercialization).</li> <li>Industry Linkage/Accessibility due to Brand name and credibility of DUHS</li> <li>Manpower is Adequate to run the operations.</li> <li>Stable/ Supportive Governance.</li> <li>Data of Students and Faculty is easily accessible.</li> <li>Publication Support from the University.</li> <li>HEC Category of the University</li> <li>Access to specialized equipment or databases, aiding researchers in their work.</li> <li>Open access medical Journal which is recognized by HEC and PMDC. The journal has international indexation including SCOPUS. No article processing or acceptance charges.</li> <li>Increasing number of students and faculty marketable projects</li> </ol>	<ul> <li>publications while elevating the standard of quality in published works.</li> <li>2. Partner with tech companies to introduce AI-driven diagnostics and research solutions</li> </ul>	entrepreneurial support for both students and faculty, with the overarching goal of fostering an	

WEAKNESSES (W)	WO	WT
<ol> <li>Effective and relevant policies for employee compensation and benefits/ reward system.</li> <li>Lack of Independent and decentralized financial procedures.</li> <li>Lack of Relevant staff following the functions of ORIC and BIC.</li> <li>Faculty does not have access to various research databases/journal subscriptions for accessing articles.</li> <li>The rejection rate of manuscripts submitted to JDUHS is higher. The journal is striving hard for good-quality papers.</li> </ol>	<ul> <li>culture in the university to achieve excellence in research and development.</li> <li>2. Empower faculty and ORIC staff to support research, innovation, and commercialization activities by enhancing their</li> </ul>	<ol> <li>Purposefully foster groundbreaking projects and programs that bear considerable commercial relevance, ensuring sustained fiscal viability over the long period.</li> </ol>