

**ZIAUDDIN  
UNIVERSITY**

**ANNUAL  
REPORT  
2021-2022**



**OFFICE OF  
RESEARCH  
INNOVATION &  
COMMERCIALIZATION  
(ORIC)**



**OFFICE OF RESEARCH  
INNOVATION &  
COMMERCIALIZATION (ORIC)  
ZIAUDDIN UNIVERSITY**



## **VISION 2025**

Enabling Ziauddin University to drive high impact innovation, applied research and entrepreneurship to benefit our society".

## **ORIC ZU MISSION**

"To promote the public good by advancing science, fostering innovation and translating new inventions made at Ziauddin University into Useful Products/Services/Procedures that are available and beneficial to society. It works in partnership with colleagues in academic departments, colleges and external stake holders to provide comprehensive support for research enterprise impact and knowledge exchange activity."

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# PREFACE / EXECUTIVE SUMMARY

## PREFACE/EXECUTIVE SUMMARY

### *Statement of Purpose*

The purpose of the Office of Research, Innovation and Commercialization (ORIC) is to develop, expand, enhance and manage the ZU research related programs and to link research activities directly to the educational, social and economic priorities of the university and its broader community. ORIC is also responsible for assuring that the quality of research reflects the highest international standards and advances the stature of the university as one of the best research institutions of the country.

ORIC has the responsibility to make sure that all research programs and policies of the university reflect the core values of academic freedom, professional integrity and ethical conduct and to guarantee the full compliance of all policies, legal requirements and operational standards of the university and the HEC.

collaborations. The academic environment at Ziauddin University enables students to support academic excellence and present opportunities to faculty, Researchers to excel in their intellectual pursuits and build upon an environment which is highly competitive and academic. It also fosters entrepreneurial skills and academic excellence and motivates individuals to involve themselves in academic quest of the highest standards. We look forward to building upon our strengths and increasing our impact.

ORIC Annual report covers a summarized view of performance targets achieved by ORIC-ZU, these targets have been achieved in the strategic KPIs / areas of Research, Innovation & Commercialization & Entrepreneurship, Linkages & Outreach & capacity building during 2020-2021.

ORIC ZU is highly grateful to ZU management, Deans of faculty & college principals, faculty members, researchers and allied departments for the support of all faculties and researchers in uplifting research profile of Ziauddin University

From the desk of Director ORIC

**Dr. Zulfiqar Ali Umrani**

# ABOUT OFFICE OF RESEARCH INNOVATION & COMMERCIALIZATION (ORIC)



## ABOUT OFFICE OF RESEARCH INNOVATION & COMMERCIALIZATION (ORIC) ZIAUDDIN UNIVERSITY

Office of Research, Innovation & Commercialization (ORIC) Ziauddin University, Karachi was established in 2015. Research excellence in all fields of study is central to the mission of Ziauddin University and a pinnacle priority for the department of research, as the key elements to the success of the university's that need to be preserved.

Office of Research, Innovation & Commercialization (ORIC) provides end to end services for all matters pertaining to research & development, innovation, Inventions, commercialization, patents, collaborations, arranging seminars/ colloquia/ symposium/ conferences/ workshops, etc. and/or research publication honorarium. By and large Office of Research, Innovation & Commercialization (ORIC) is the focal point for all research related activities of the University. ORIC facilitates the University researchers (faculty members and scholars) to promote their research work both nationally and internationally.

The Office of Research, Innovation & Commercialization (ORIC) aims to:

- To be recognized as the icon of innovative, leading edge clinical and translational research in south Asia
- Link research activities through basic science research coordination, publication and grant
- The department facilitates research that enhances the knowledge-building environment at Ziauddin University
- Ensure that the quality of research reflects the highest international standards and advancing academic research and develop the university's reputation as most renowned private research University

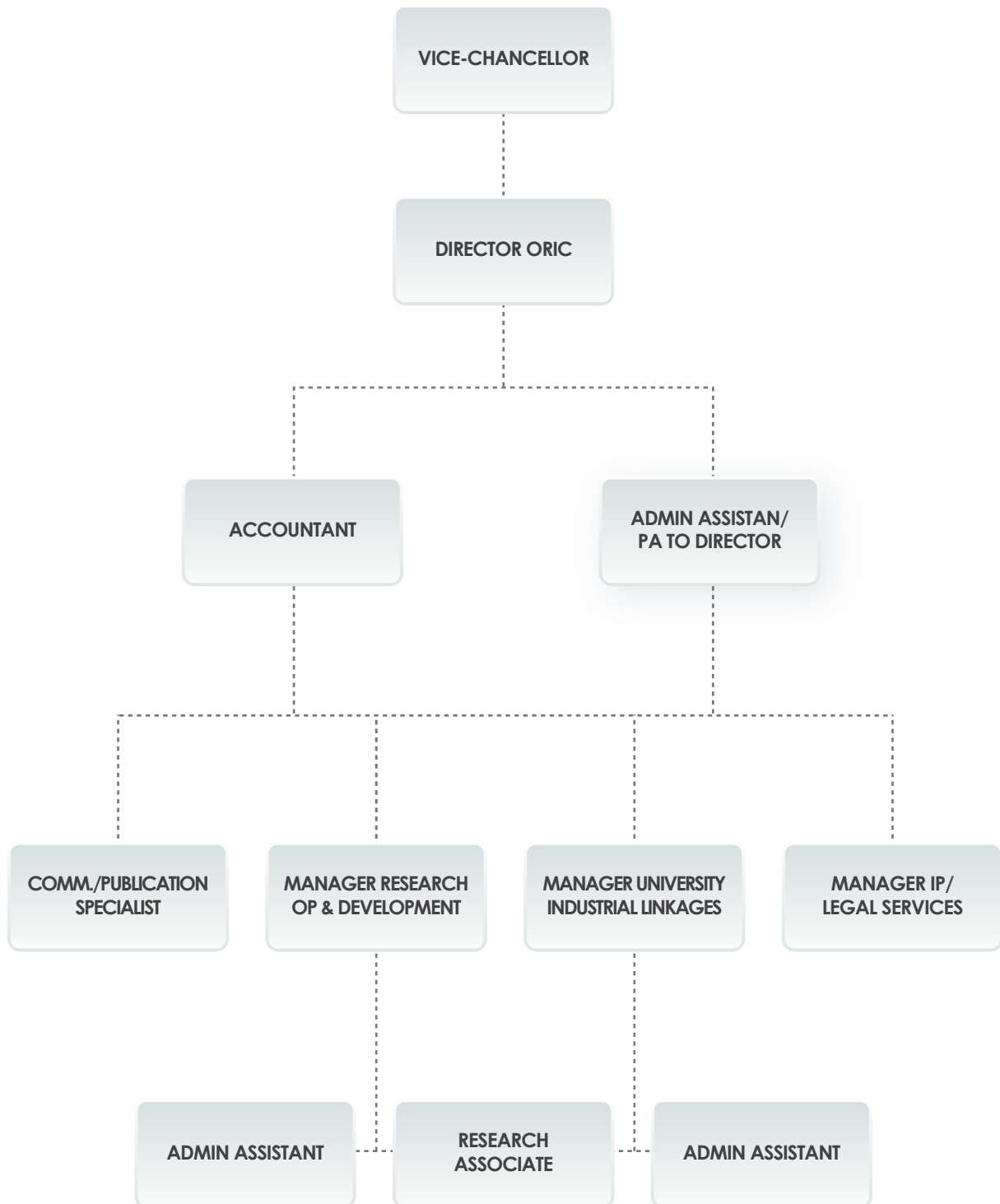
The Office of Research, Innovation & Commercialization (ORIC) seeks to enhance the research culture at Ziauddin University and realize above-mentioned objectives by:

- Supporting the university's strategic research directions and policies
- Leading edge clinical and translational research- bringing medical innovation to patients
- Residents and fellows independent research projects
- Exploration of Nano-technology's potential
- Ensuring that research meets the highest ethical and quality standards through open transparent processes
- Increasing and diversifying external research funding
- Improving recruitment and retention of top faculty members
- Improving translation of research into the public benefit
- Strengthening university – industry relationships
- Promoting entrepreneurship, technology transfer and commercialization activities that energize and support the local and national economy
- Promoting and enhancing cross-cutting and multi- disciplinary research initiatives

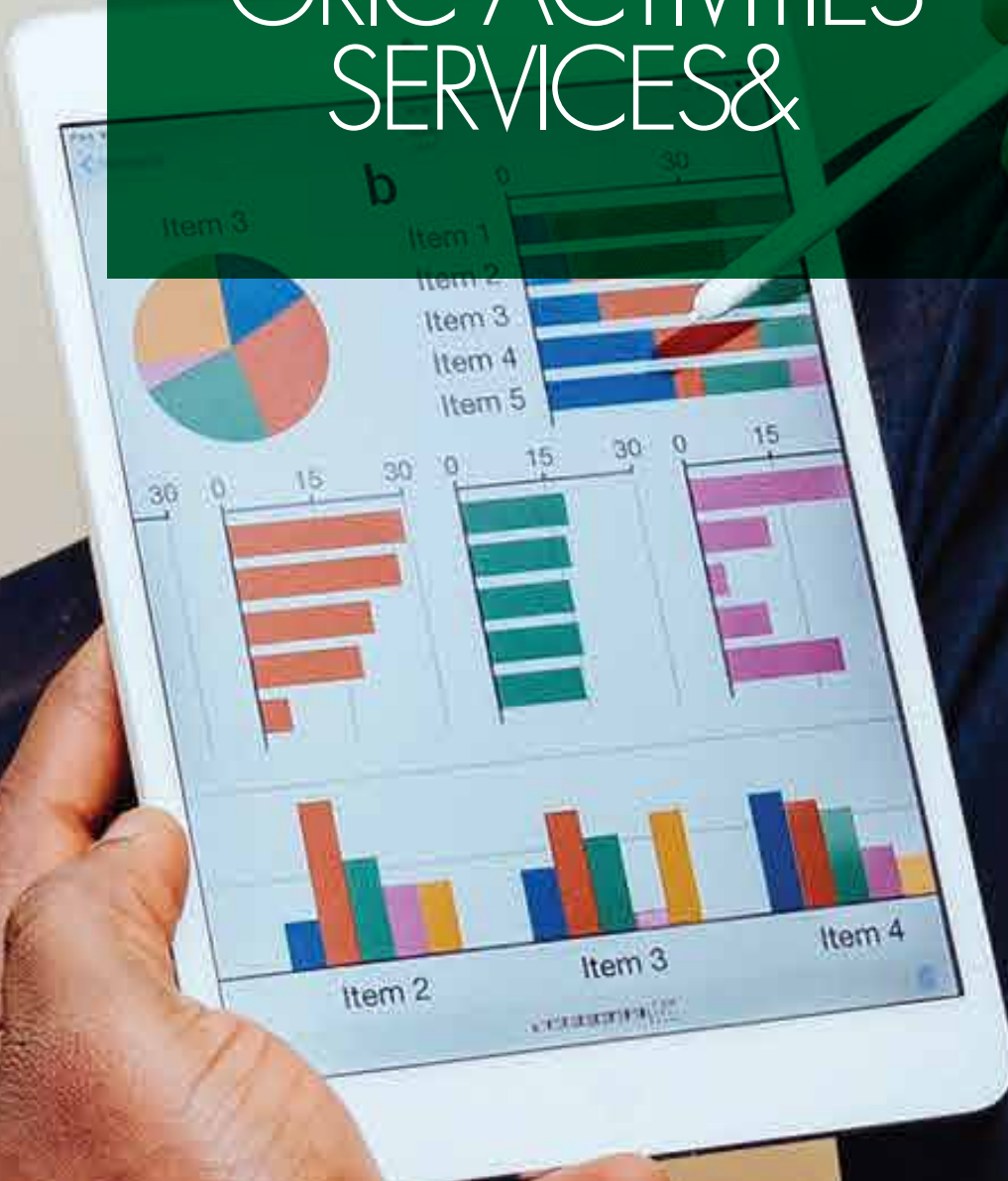
# ORIC ORGANOGRAM



## ORIC ORGANOGRAM



# ORIC ACTIVITIES SERVICES &



## ORIC ACTIVITIES & SERVICES

### Research collaborations and Funding:

- Facilitate international and local collaborations
- Facilitate and Explore Clinical Trials and Patient data research
- Provide information to faculty about various available research grants.
- Facilitate faculty to write grants and plan proper budgets.
- Assist with negotiating problematic sponsored research agreements.

### Research Support Service:

- Seminars and Workshops
- Journal Club for sharing of Research among faculty
- Online videos for Research
- Statistical support for research Data Analysis
- Publication Support
- Conference and Symposiums
- Research Collaborations

### Industry Liaison:

- Link faculty and students with relevant industry
- Training for Corporate audience
- Professional Certificate Programs
- Interface between faculty and the commercial sector
- External Services for Industry and NGOs
- Promoting collaborative commercial ventures

### Commercialization and Startups:

- Evaluate markets for commercialization of inventions
- Help students and faculty create start ups
- Help faculty start companies
- Identify potential licensees
- Negotiate terms of licenses

### Legal Support and Training:

- Company Registration and Incorporation Services
- Work with patent counsel to assess licensing
- Legal Consulting on Copyrights and Patents

## ORIC – ZU FUNCTIONAL UNITS

The office of Research, innovation & Commercialization is composed of four functional units these units work as independent and collaborative departments. ORIC ZU has university wide research groups and an active community of focal persons this facilitate in fulfilling the research objectives of ORIC & Ziauddin University.

1	Research operations
2	Grant & funding
3	Linkages & Outreach
4	Innovation and Entrepreneurship
5	Administration Services

# ORIC PERFORMANCE HIGHLIGHTS



## ORIC PERFORMANCE HIGHLIGHTS (ACTIVITIES & THEIR IMPACT) FOR 2020-2022

ORIC ZU ranked in "Y" Category by HEC ORIC scorecard evaluation for the year 2020-2021

Research Excellence		Innovation & entrepreneurship	Capacity building & sustainability
32 ZU faculty members are now HEC recognized approved PhD Supervisor	Secured national and International Funding 2020-2021: 63.72 million	Business Incubation Centre Activity Plan BIC - Pre incubation phase launched with 6 active start ups	Established Sustainability Office (SO) Established International Office (IO)
ORIC ZU ranked in "Y" Category by HEC's ORIC scorecard evaluation. : 61% out of 100 %	Secured Funding 2021-2022: million	02 International & 06 National collaboration with Universities/Industries	Faculty research awareness workshops Campus drives for Research capacity building & faculty KPIs & scorecard.
Application for research journal accreditation submitted to HEC : P JMD & P J R Pakistan Journal of Rehabilitation (PJR) get recognized in Y* in HEC	NIH submission 2022- Total 34 project applications submitted  NRPJ Submission HEC 2021- Total 19 Applications	MoU drafts for academia, industry and international collaboration Faculty facilitation in linkages and outreach	Creation of research groups, ORIC focal persons <b>Policies Approved</b> IPR Policy (Intellectual property Rights) Financial Support Policy Research Policy Ethics Policy Authorship Policy
Opportunities Call for Students/Faculty/Researchers Contribution in Research committees <ul style="list-style-type: none"> <li>• CRC</li> <li>• GEC</li> <li>• JC</li> <li>• AC</li> <li>• BASR</li> </ul>	Initial step and Strategic plan for Forensic Lab	Prepared roadmaps for our ZU Researchers /Faculty/Students Flowcharts Plans for each step 5-year strategic plan for ORIC Steering committee for ORIC Conduct Training Sessions oHRM for promotion cases oHEC Evaluation Scorecard with Faculty/Departmental activities webinars & Workshops	Research Forms Research Expert Evaluation form Seed Money form Reimbursement form IPO form for students Research Impact & Potential form

# ORIC - FACULTY RESEARCH EXCELLENCE BASIC RESEARCH



## ORIC - FACULTY RESEARCH EXCELLENCE - BASIC RESEARCH

ORIC ZU excels in research with two main branches of research: basic & applied research with managerial/supporting staff of research operations and grants & funds.

**Research operations:** ORIC has the responsibility of guaranteeing that all research programs and policies reflect the core values of academic freedom, professional integrity and ethical conduct.

Faculty research publications: ORIC facilitate its faculty and students in quality research publications. Total 192 papers were published in high impact factor journals

**Faculty Research Honorariums:** ORIC acknowledged following 03 faculty members and awarded Research publication Honoria in 2022

S.#	Author	Honoria awarded	Research journal	Impact factor
	Dr. Faraz Jawad	80,000	Scanning & ACS omega	1.932 & 3.512
	Dr. Tassarwar Baig	40,000	Brazilian Journal of Biology	1.239
	Ch. Sobhan Shakeel	50,000	Vaccines	4.422

### Research Journal indexing in international Recognitions

- Prepared SMART Plans, Questionnaires & Requirements
- Arranged meetings with Journals/Marketing/IT Support
- Quarterly Report required and shared comments with journal team

### Research Journal Accreditation Applications applied in HEC 2021

S.#	Year of application	Title of Research Journal
	2021	PJMD, Pakistan Journal of Rehabilitation PJR recognized in Y* in HEC

### Creation of Research Group (Internal/External members)

- Alumni Students
- Research Expert
- Each Faculty Subject Expert
- Clinician Expert

### ORIC Contribution in Research committees

- CRC
- GEC
- JC
- AC
- BASR

# ORIC - FACULTY RESEARCH EXCELLENCE APPLIED RESEARCH



## ORIC - FACULTY RESEARCH EXCELLENCE APPLIED RESEARCH

### Sharing of National & International Research Grant opportunities

ORIC-ZU Regularly disseminates National & International Research Grant opportunities with ZU Faculty and researchers via its webpage and social media handles, through these research calls Faculty and researchers get awareness and apply for research grants

### International research opportunities shared:

Year			
2022	Joint Scientific Exchange Program between Pakistan Science Foundation (PSF) and National Natural Science Foundation of China (NSFC)	20-April-2022	
	The Michelson Prizes: Next Generation Grant	19-April-2022	
	Australian Grant Call: Direct Aid Program (DAP)	19-April-2022	
	Safe Seaweed Coalition – Call for proposal 2022 Spring Round	19-April-2022	
	Spencer Foundation (SF) Research Grant on Education Small	02-Mar-2022	
	ICGEB Research Grants 2022, CRP-Collaborative Research Programme	03-Mar-2022	
	Merck Research Grants	03-Mar-2022	
	The Novo Foundation, Open Philanthropy, and the Bill & Melinda Gates Foundation have launched the Pandemic Antiviral Discovery (PAD). Researchers from around the world are encouraged to submit proposals	25-Mar-2022	
	IDRC research teams are invited to submit concept notes for two-year research projects. Teams successful at the concept note stage will be invited to submit full proposals	28-Mar-2022	
	IDRC Open Competitive Call for Proposals: Mobilizing Principles for Equitable Global Health Research	5-April-2022	
	CPEC-Collaborative Research Grant Call for Proposals	5-April-2022	
	Spencer Foundation (SF) Research Grant on Education Large	14-April-2022	
	2021	Japan: Fully-funded OIST Research Internship Program 9 April 2021	9-April-2021
		Merck (Germany) Research Grants 2021	16- July-2021
ACU HR in HE Community Challenge Grants		27-July-2021	
Association of Commonwealth Universities [UK]   Gender Grants		27-Aug-2021	
IDRC Canada   Call for proposals: Establishing research chairs		13-Sept-2021	
2020	Tree Fund Cultivating Innovation   Tree and Soil Research Fund Grant Program   Environment, Climate Change, and Sustainability related research	14-Sept-2021	
	Proposals on social experiences in VR environments	17-July-2020	
	Proposals on responsible innovation in AR/VR: "Consider Everyone"	16-Oct-2020	
	Pak-France Peridot Research Program	16-Oct-2020	
	Research Grants on Education program	21-Oct-2020	
	Research Grants on Education program	28-Oct-2020	
	British Council Researcher Links Challenge Grants call 2020	05-Nov-2020	
	AI for Accessibility Grant	18-Nov-2020	
	COV-AID Graduate Student Mini-Grants for Community Engagement	25-Nov-2020	
	UK Funding Call: NIHR Global Health Research Centers (research and innovation)	02-Dec-2020	
HEC International Research Support Initiative Program - IRSP	09-Dec-2020		

	IFLYTEK- Hackthon AI Competition for Students, Researchers, and Open developer	09-Dec-2020
	NIHR Global Research Group call	22-Dec-2020
	HEC has announced "United Nations Environment Program (UNE)" General Trust Fund for Financing Activities on Research & Systematic Observations Relevant to the Vienna Convention: Call for Project Proposals	30-Dec-2020

#### National research opportunities shared:

Year		
2022	National Health Grant	21-Feb-2022
2021	HEC - INNOVATION SEED FUND: Request to Faculty to Join	12-Aug-2021
	HEC   Local Challenge Fund (LCF)	27-Aug-2021
	Karandaaz   Green Challenge Fund (GCF)	31-Aug-2021
	HEC Call for Technology Transfer Support Fund (TTDF)	04-Oct-2021
	PSF National Technology Innovation Fund (NTIF)	30-Oct-2021
	Call for Research Proposals-Sindh Research Support Program	30-Oct-2021
2020	Technology Transfer Support Fund (TTSF) – HEC	15-Oct-2020
	RASTA Competitive Grants Program for Policy-oriented Research	02-Nov-2020
	HEC International Research Support Initiative Program - IRSP	09-Dec-2020
	HEC has announced "United Nations Environment Program (UNE)" General Trust Fund for Financing Activities on Research & Systematic Observations Relevant to the Vienna Convention: Call for Project Proposals	30-Dec-2020

#### International/national research conferences/ capacity-building opportunities shared:

Year		
2022	Seminar: Public Health in Pakistan – challenges and ambitions	26-Jan-2022
	InSPIR2eS Global Pitching Research Competition (IGPRC)	23-Feb-2022
	"Introducing, "Iqbal and Women Empowerment", A new course Women & Gender Studies	03-Mar-2022
	Research Grant Proposal Writing Guidance	10-Mar-2022
	SMEDA Free Zoom Based Webinar on "Business Registration and Compliances"	29-Mar-2022
	National Grassroots ICT Research Initiative NGIRI 2021-22-Reminder for FYP Participation	15-April-2022
2021	HEC Workshop for Research Authors	13-Jan-2021
	Elsevier in collaboration with Higher Education Commission of Pakistan is organizing a workshop on "Journal indexing in Scopus"	14-Jan-2021
	IEEE International Conference on Artificial Intelligence 2021 (ICAI'21)	20-Jan-2021
	25 Early Career Conference Grants are available for university staff at ACU member universities	25-Jan-2021
	NED University of Engineering & Technology, Pakistan announces 1st International Industrial Chemistry Conference 2021	25-Jan -2021
	Self-explanatory letter from Pro Urdu-HEC	26-Jan -2021
	ProQuest Training Schedule for February -March 2021BY HEC	28-Jan -2021
	Online Workshop on "Make Your Research Life Easier with Mendeley"	29-Jan -2021
	"PASTIC sub-center	
	Call for Papers; Tackling Climate Change Challenges in Pakistan: An Academic Writing and Publishing.	03-Feb-2021
	Workshop for Pakistan Based Early Career Researchers Funded by: The British Academy Writing Workshop Programme. Oxford University	03-Feb-2021
	<b>CME Webinar</b>   Water and Global Health: Complexities and Challenges   Wednesday, February 17, 2021 1900hrs	11-Feb-2021
	NIH (USA) Grant Writing <b>Workshop</b>	22-Feb-2021
	Ethics Review in Pakistan During COVID 19   National Workshop   February 23, 2021 1700hrs to 1900hrs PST	22-Feb-2021
	HEC's National Digital Library Program is organizing a <b>webinar</b> to Learn from a Cell Press Editor: Webinar on "How to Publish in & Optimize Resources for Ground-Breaking Journals"	23-Feb-2021
	Free <b>Webinar</b> on "How to Publish in & Optimize Resources for	24-Feb-2021

2020	Ground-Breaking Journals"	
	1st International Conference on Science, Engineering and Technology 2021 (ICSET-2021), Organized by Mir Chakar Khan Rind University of Technology D.G. Khan, Pakistan	26-Feb-2021
	UK Innovate 2021 Webinar Series for Entrepreneurs (Free)	26-Feb-2021
	5th International Conference On Islamic Business(ICIB-2021);	26-Feb-2021
	Islamic Finance: The Need & Prospects of Moving to Social Finance	
	Online Workshop on "Literature Review Writing "on 10th March 2021	26-Feb-2021
	4th International Conference on Robotics and Automation in Industry	01-Mar-2021
	Investor Roundtable Discussion	01-Mar-2021
	World BioEconomy Forum 2021 Launching Event	02-Mar-2021
	IGHD Webinar   Achieving the SDGs: Has COVID-19 Made this Impossible?	02-Mar-2021
	Webinar on Pakistan Patent Law	06-Mar-2021
	WIPO-HEC: Identifying and Using Inventions in the Public Domain and Digital Resources and Tools	06-April-2021
	ZU Call for Abstracts: 9th International Conference on Sustainable Development UN SDSN	09-April-2021
	Workshop on Using Patent Systems by Women Inventors   WIPO	31-May-2021
	ZU Webinar " Contextualizing the Academic Research: Viable Connect of ORIC, Faculty, and Society"	03-June-2021
	Webinar: "How to Select a Research Topic"	04-June-2021
	Research Webinar on "Mendeley Reference Manager"	07-June-2021
	Canada Pakistan Research & Development Council invites you to an online Webinar	16-June-2021
	Webinar on "Precision Medicine, Future of Healthcare"	21-June-2021
	How to Publish Your Research Paper	16-July-2021
	ZCOMS International Conference on Media and Digital Communication (MSDC)	16-July-2021
	Healthy living for the prevention of hepatitis	29-July-2021
	"Strategic Innovation in Startups and Organisations" by CENTIN	30-July-2021
	COVID-19 Pandemic Impact on Health, Education and Society	12-Aug-2021
	The Post-Colonial Jurisprudence of South Asian Courts	24-Aug-2021
	Webinar on Publishing Research in High-ranked Journals	24-Aug-2021
	Elimination of Riba in Pakistan: Role of the Constitution Institutions	24-Aug-2021
	HEC ISF   Challenges and Innovation Opportunities in the Health Care & HealthTech Sector	02-Sep-2021
	PIDE   Catalyzing Capital for Fast Growth SMEs	02-Sep-2021
	Proquest   Introduction to ProQuest Ebook Central	03-Sep-2021
	HEC LCF   Understanding Grand & Local Challenges	06-Sep-2021
	Proquest   Webinar: Are you Doing Enough to Support Early-Career Academics?	06-Sep-2021
	HEC LCF   Framing Research Projects as Grand & Local Challenge Projects	07-Sep-2021
	ProQuest   One Business Demo	08-Sep-2021
	ISF Pre-Launch Event   Transportation and Logistics Sectors	09-Sep-2021
	HEC LCF   Designing Grand & Local Challenge Projects	10-Sep-2021
	HEC LCF   Guided Exercise on Grand Challenge	10-Sep-2021
	CERN's Future Circular Collider (FCC) Feasibility Studies and Pakistan	13-Sep-2021
	How to utilize ProQuest's journals, dissertations, and varied content types in teaching and research	13-Sep-2021
	HEC LCF   Mapping Your Project Plan for Researchers	13-Sep-2021
	3rd Symposium on Emergency Medicine, "Shaping the future of Emergency Medicine"	25-Jan-2020
	Participation in 9th Innovation Summit, University of the Punjab, Lahore	01-April-2020
	HEC offering-capacity building workshops for research grants	03-July-2020
	BuiltByHer Workshop 1 - Increasing Female Economic Participation	05-Oct-2020
	HEC - ProQuest Training Schedule For October 2020	12-Oct-2020
	Capacity Building Program Regarding Research Journals/Publications	29-Oct-2020
	UPSIGN Annual Pakistan UK Symposium   30th Nov - 3rd Dec, 2020	28-Nov-2020
HEC & British Council: Pak UK Education Gateway- Virtual Conference	08-Dec-2020	
Invitation: Training program on Management and Development of Special Economic Zones under the Belt and Road Initiative	09-Dec-2020	
ICESCO Two - Days International Training-Workshop on Scientific Paper and Patent Writing (Free)	11-Dec-2020	
HEC US-Pakistan PhD Scholarships Program	14-Dec-2020	
Predatory/Questionable Conferences	19-Nov-2020	

Health and Population Think Tank   3-days Online Short Certificate Course   "Economics of COVID-19"	19-Dec-2020
HEC's Capacity Building Session for Research Journals: Case Study of PAKJAS	24-Dec-2020

### International/national awards & fellowship opportunities shared:

Year		
2022		
2021	HEC Outstanding Research Awards 2021	05-Jan-2021
	Prince Faisal bin Fahad Award for Sports Research	01-Feb-2021
	Echoing Green Fellowship Program 2021	02-April-2021
	George Washington University, USA Opportunity   Climate & Health Fellowship for Pakistani Physicians	16-April-2021
2020	UNESCO/Emir Jaber Al Ahmad Al Jaber Al Sabah Prize for Digital Empowerment of Persons with Disabilities	08-Jul-2020
	Australian Research Council: Discovery Early Career Researcher Awards (DECRA)	20-Oct-2020
	2021 MacJannet Prize Call for Nominations for Talloires Network	24-Nov-2020

### International/national innovation & commercialization opportunities shared:

Year		
2022	United Nations Invites to "Youth Innovation in the Decade of Action: Stories from Universities"	02-Feb-2022
	Funding opportunity for university staff: Medical Student Virtual Mobility Grants	07-Jan-2021
	IdeaGIST Startup Pakistan Cohort 5	14-Jan-2021
	Tufts and Harvard University: Next Generation Leaders Program – The Talloires Network	18-Jan-2021
	STEDEC Technology Commercialization Corporate of Pakistan under administrative control of the Ministry of Science and Technology, Government of Pakistan	21-Jan-2021
	"NIC's Fast-Track Startup Incubation Program	25-Jan-2021
	Climate Commission: Climate Action Toolkit for Universities Launched	04-Feb-2021
	USAID SMEA Challenge Fund	11-Feb-2021
	<b>International Competitions:</b> Efficiency Challenge Electric Vehicle (EC) Competition- by Ministry of Foreign Affairs, wherein, it has been informed that the Science & Technological Research Council of Turkey (TUBITAK)	25-Feb-2021
	Innovation Competition: <b>No Waste Challenge:</b> Focuses on the devastating impact of waste and consumerism on climate change	25-Feb-2021
	Opportunity: Training & National Competition by UNAP and Toyota	25-Feb-2021
	Pak Innovation Roadshows	10-Mar-2021
	ACU Summer School 2021 - applications now open	17-Mar-2021
	Austria: Joint Excellence in Science and Humanities (JESH)	08-April-2021
2021	Global Solutions Summit May 27-28, 2021	19-April-2021
	2021 Call for Case Studies: Accelerating Education for the SDGs in Universities	19-April-2021
	National Startup Competition 2021	25-May-2021
	USAID (SMEA) Challenge Fund	31-May-2021
	NIHR/IDS Community Engagement and Involvement (CEI) Learning Resource	02-Jun-2021
	IFC Sustainability Exchange	04-Jun-2021
	HEC - INNOVATION SEED FUND: Request to Faculty to Join	12-Aug-2021
	British Council   Undergraduate Scholarships for Young Women and Girls - Bachelor's 2021-22	27-Aug-2021
	British Council   Postgraduate Scholarships for Young Women and Girls - Master's/MPhil 2021-2022	27-Aug-2021
	Karandaaz   Green Challenge Fund (GCF)	31-Aug-2021
	NIC Karachi   Built by Her 2.0	01-Sep-2021
	Ignite   Digital Pakistan - Cybersecurity Hackathon	03-Sep-2021
	National Incubation Center   Pitch @ Nick	06-Sep-2021
	SMEDA   One Window Operations for Startups and SMEs   Free Services	07-Sep-2021
	U.S. Department of State   2021 Global Innovation through Science and Technology (GIST) Catalyst pitch	09-Sep-2021

2020	The Asia Foundation, and National Incubation Center, Karachi present Built by Her!	06-Oct-2020
	IBA Startup Competitions Program! Funded Opportunity for Budding Entrepreneurs & Startups	09-Oct-2020
	Language Evolves Short Story Competition Program	22-Oct-2020
	IdeaGIST Kamyab Nojawan Program	28-Oct-2020
	Request for Business Ideas/Startups Nominations: Pakistan 100 Program IdeaGIST	03-Dec-2020
	Joint Training Center on Scientific, Technological and Economic Cooperation under Belt and Road Initiative. BTBU-ECOSF, China	11-Dec-2020

### Contract Research opportunities shared:

Year		
2022	Endline Socio-Economic Survey in Research Union Councils under (SUCCESS) Programme	03-Mar-2022
	Assessment of Adult Literacy and Numeracy Skill (ALNS) Component under SUCCESS Programme	03-Mar-2022
	The United Nations Office on Drugs and Crime (UNODC) individual Consultant Procurement Notice National Individual Programme	15-Mar-2022
	The United Nations Office on Drugs and Crime (UNODC) Individual Contract: Viral Load Testing Assessment and future planning Consultant	15-Mar-2022
	UNDP Individual Contract: National Consultant "Senior Researcher, Business and Human Rights"	24-Mar-2022
	Study on Social, Economic, and Political Empowerment of Women under the SUCCESS Programme	04-April-2022
2021		
2020		

### Projects /Grants awarded in 2021-2022:

National research program for universities

Research Proposals Approved for Funding by HEC:

S #	Title of Project:	Funding agency	Award date and duration:	Fund granted	Principal investigator	Collaborating partner
1	Cell based & cell free therapeutic potential of human amniotic epithelial cells for the treatment of chronic liver disease	HEC	14 April 2022 & 24 months	36,85,000/-	Dr. Shumaila Usman	
2	Validation of high-risk human papilloma virus with molecular profile of cervical cytopathology	HEC	15 Dec 2021 & 18 months	47,08,000/-	Prof Dr. Fouzia Shaikh	
3	Genomic analysis of actionable gene variants of COVID 19 patients and clinicopathological associations with viral load	HEC	24 months	37,51,000/-	Dr. Ambrina Khatoon,	
4	Leukocyte Telomere Length in newborns & their parents: implications for their role in immune senescence, TERC, TERT & SIRTUIN 4 polymorphism	HEC	3 Feb 2022 & 24 months	14,38,500/-	Dr. Saeeda Baig	
5	Microfluidic paper-based analytical device: design, simulation, fabrication & point-of-care testing of infectious diseases	HEC	17 Feb 2022 & 36 months	12,73,250/-	Dr.Syed Faraz Jawed	

**National Projects /Grants awarded in 2021-2022:**

Research Proposals Approved for Funding by HEC &amp; Non-HEC Sources

S#	Current Project	PI	Focal Person/Coordinator	Administrative Funding Agency	Budget (PKR)	Duration	Start Date
1	NRPU	Dr. Shamim Mushtaq	Mousam Shahid	HEC	3.8 Million	2 years	2021
2	Human resource training	Dr. Maria Solangi	Dr. Maria Solangi	BBSYDP	33,60000	1 year	Mar-22
3	*NCBC	Dr. Asif	Mahwish/Kahkashan	HEC	5 Billion		
4	*Sindh HEC	Dr. Munaf		Sindh HEC	0.5 Million		2021
5	NAPTECH	Mr. Fahad Azeem		Kamyab Jawan	3.8 Million	1 year	

**Currently/ International running remote**

S #	Current Project	PI	Focal Person/Coordinator	Funding Agency	Administration	Country	Budget	Duration	Start Date/. Current status
1	ISARIC	Dr. Madiha	N/A	Welcome Trust	University of Oxford	London, UK	£48674 (1 crore 10 lakh PKR)	18 months	1 June 2021 ongoing
2	N95 Vs MM	Dr. Madiha	Dr. Faraz	Mcmaster	Mcmaster	Canada	CAD 110000per patient		Starting grant on May 2021 Almost closed
3	O2CO 2	Dr. Ashok Kumar	Dr. Saba	WHO	WHO	US	10,901\$		January 2022
4	IASP	Dr. Asma	Dr. Irum	International Association for the Study of Pain	International Association for the Study of Pain	Washington USA	9737\$ (17lac PKR)	1 Year	Awarde d in 2021 august, started on November 2021
5	REMA P-CAP	Dr. Madiha	Dr. Areshay	Monash Univeristy	Monash Univeristy	Australia	AUD 83142/75 \$ per patient		January 2021 Extended
6	ADAL	Mr. Muaz	Mr. Farrukh	GNMI (local NGO)	GNMI (local NGO)	Department of State, USA	\$80,000	1.5 years	August 2021

**ORIC Research framework development:****Working Paper Draft for P&G Group**

- Policy and development group
- Innovation lab
- Centre of law and policy
- ZU Organizational Profile
- Roles & Responsibilities of Principle Investigator (PI) , ORIC , Procurement , Finance Dept.
- Grant Management SoPs guidelines documents for Reimbursement & Disbursement

**Scrutiny of Faculty Research proposals:**

Proposal Submitted to Sindh department of Education in collaboration with COE

1. 32 research projects submitted to National Institute of Health (NIH)
2. 19 projects submitted to National research program for universities (NRPU)
3. 3 research proposal submitted in CPEC Competitive Research Grant
4. Syeda Rumana Mehdi, from Faculty of Liberal Arts and Human Sciences (FLAHS) submitted research proposal titled: (In)Visibility of females in mainstream politics: An evaluative study of Political Science graduates from rural areas studying in Karachi. Submitted to Aurat Foundation.
5. Mahapara Khan, College of Medical Technology submitted research proposal titled Evaluation and improving maternal health practices of Afghan migrants by pre and post intervention design in a Union Council of Karachi Pakistan submitted to Canada Fund for Local Initiatives (CFLI) Project
6. Dr. Nida Hussain, Pro- Chancellor- ZU submitted research proposal title: Pakistani Women Recognition and empowerment through Women in STEAM Awards Submitted to Canada Fund for Local Initiatives (CFLI) Project

# ORIC INNOVATION, COMMERCIALIZATION & ENTREPRENEURSHIP



## ORIC INNOVATION, COMMERCIALIZATION & ENTREPRENEURSHIP

Commercialization of applied academic research along with technology transfer and industry collaborations would bring the required outcomes for economic and scientific achievement of the country. ORIC has developed mechanisms for research commercialization and is setting up a Business Incubator and IPO office to support both researchers and budding startups.

### Business Incubation Centre (BIC)

The objectives of BIC include fostering an entrepreneurial culture, by providing the students and faculty of ZU, an opportunity to transform their technology-based business ideas to reality. Providing support to entrepreneurs across ideation, acceleration, investment and scale-up stages. Forge partnerships with other organizations for providing services to incubate or the incubator; liaison with the government and industries. Marketing the incubator and business development and actively promoting it through various channels etc. It further aims to facilitate the availability of ZU resources to the incubatees in a mutually beneficial way by liaising with private/public sector funding sources, government agencies, industrial associations, chambers of commerce and industries to provide facilitation and networking for Incubatee companies

### ZU Entrepreneurial Eco-system:

Ziauddin Entrepreneurship Society operates under the umbrella of ORIC as a student wing that is dedicated to discover, engage and foster creativity and to bring up true entrepreneurial leaders from the university.

**ZU faculty & start-ups Entrepreneurial capacity building:** ORIC also conducted a number of seminars and training sessions on skill building for young innovators and entrepreneurs in the same field for entrepreneurship growth. The outcomes of these seminars have resulted in increased recognition and participation in entrepreneurship at all levels of the student body. ORIC also encourages faculty and researchers to step forward and engage with emerging start-ups or introduce new start-ups based on innovation and new product ideas.

### Milestones Achieved 2021-2022

ORIC Launched inauguration ceremony of pre incubation cycle of Business Incubation: this event was attended by a number of students and faculty members and renowned people from entrepreneurial Network. Business Incubation Plan was developed along with Pre-incubation Certificate Program endorsed by ZU Directorate of Executive Development (DED) for curriculum induction, 20 Start ups were enrolled in pre incubation phase, Startups at Pre-incubation are community, health, society based.

### ZU faculty & start-ups Entrepreneurial capacity building : On-boarded

- John Michaelis - Angel Investor from UK,
- Petter Harrington, Startup Expert from UK,
- Mir Dost - Entrepreneurial Trainer,
- Iffat - COO, Sehat Kahani,
- Shahzaib Iqbal Bhatti - Senior App Developer, NextGenI as Mentorship Partners
- Organization Partnerships with PEP, TiE and Seed Ventures is in process
- HEC Establishment of the BIC Proposal submitted
- Initial Campus Drives successfully conducted at
- North Region: Nursing, College of Education, ZUFESTM,
- Clifton: Rehab, Speech Language, Medical, Dental, Law and ZCOM
- LinkRoad
- Business Incubation Contract and Induction Forms Prepared
- Initial Workshops for pre-incubation conducted

- SMEDA Training on Entrepreneurship
- Pre-incubation Initial Workshop conducted in Clifton, North and Online Zoom for Lean Model Canvas and How to pitch your idea
- Worked collaboratively with Linkages and Outreach for the on-going efforts to on-board
- SMEDA
- PEP
- SEED VENTURES
- TiE
- Developed ToT curriculum working paper for Personal and Professional Development

# ORIC LINKAGES AND OUTREACH



## ORIC LINKAGES AND OUTREACH

Industry Linkages: Develops and maintains industry linkages to make ZU graduates their premium choice and identifies specific industry partners for the on-going research at ZU. It gauges industry needs and processes match making with ZU Institutions to solve industrial problems. Ziauddin University forges links with top research institutes across Pakistan, including Panjwani Center for Molecular Medicine and Drug Research (ICCBS) HEJ Research Institute of Chemistry (ICCBS), Center for Bioequivalence Studies and Clinical Research (ICCBS), National Center for Proteomics, Jamil-ur-Rehman Center for Genome Research (ICCBS), Dow University of Health Sciences (DUHS) and Agha Khan University

### National collaboration:

#### Sehat Kahani and Ziauddin University Inked Memorandum of understanding (MoU)

Sehat Kahani and Ziauddin University signed Memorandum of Understanding (MoU) The memorandum was signed by Dr. Iffat Zafar, COO of Sehat Kahani and Dr. Zulfiqar Ali Umrani, Director-ORIC, Zia Uddin University, Karachi.

Both parties agreed to cooperate in academic areas of mutual interest, MoU is signed to initiate collaborative activities for research and technology development, policy development, support in entrepreneurship, marketing and consultation, training, capacity building, internship and employment opportunities.

#### Sindh Madressa-tul-Islam University and Ziauddin University Inked Memorandum of understanding (MoU)

The memorandum was signed by the Honorable Vice Chancellor SMIU Dr. Mujeebuddin Sahrai Memon and Prof. Dr. Syed Irfan Hyder, Vice-Chancellor, Zia Uddin University, Karachi. Whereas the two universities desire to develop academic cooperation in various fields and agreed to initiate collaborative activities in academic areas of mutual interest such as exchange of faculty and researchers for purpose of teaching; conducting lectures and research; exchange of expertise; exchange of students; conducting collaborative research projects; jointly organizing symposia, seminars, and conferences; as well as sharing of academic information and materials

#### Kinnaird College of women-Lahore and Ziauddin University - Karachi Inked Memorandum of understanding (MoU)

The memorandum was signed by the Honorable Dr. Rukhsana David, Principal of Kinnaird College, and Prof. Dr. Syed Irfan Hyder, Vice-Chancellor, Zia Uddin University, Karachi. Whereas the two institutions desire to develop academic cooperation in various fields and agreed to initiate collaborative activities in academic areas of mutual interest joint research and academic activities, such as exchange of faculty and researchers for purpose of teaching; conducting lectures and research; exchange of expertise; exchange of students; as well as sharing of academic information and materials.

#### Mohammad Ali Jinnah University and Ziauddin University - Karachi Inked Memorandum of understanding (MoU)

The memorandum was signed by the Honorable President of Muhammad Ali Jinnah University and Prof. Dr. Syed Irfan Hyder, Vice-Chancellor, Zia Uddin University, Karachi. The MoU signing ceremony was held on Thursday, December 08'2021. Whereas the two institutions desire to develop academic cooperation in various fields and agreed to initiate collaborative activities in academic areas of mutual interest joint research and academic activities, such as exchange of faculty and researchers for purpose of teaching; conducting lectures and research; exchange of expertise; exchange of students; as well as sharing of academic information and materials.

#### Islamia University of Bahawalpur and Ziauddin University - Karachi Inked Memorandum of understanding (MoU)

The MoU signing ceremony was held on Monday' December 27th'2021. The memorandum was signed

by Engineer Prof.Dr.Ather Mehbbob, Vice-Chancellor of the Islamia University of Bahawalpur and Prof. Dr. Syed Irfan Hyder, Vice-Chancellor, Zia Uddin University, Karachi. Whereas the two institutions desire to develop academic cooperation in various fields and agreed to initiate collaborative activities in academic areas of faculty and student exchange, collaborative research, and academic projects, as well as sharing of academic information and materials.

**Khawaja Fareed University of engineering and information technology, Rahim Yar Khan and Ziauddin University - Karachi, Inked Memorandum of understanding (MoU)**

The memorandum was signed by Dr.Zulfiqar Ali Umrani, Director-ORIC, Zia Uddin University, Karachi, and Dr. Muhammad Bilal Tahir, Director-ORIC, Khawaja Fareed University of engineering and information technology, Rahim Yar Khan, Whereas the two institutions desire to develop academic cooperation in various fields and agreed to initiate collaborative activities in academic areas of faculty and student exchange, collaborative research and academic projects, as well as sharing of academic information and materials. The MoU signing ceremony was held on Tuesday' December 28th'2021.

**Kiran foundation and Ziauddin University - Karachi Inked Memorandum of understanding (MoU)**

The MoU signing ceremony was held on Tuesday, March'1'2022. The memorandum was signed by Sabina Khatri Founder & Chairperson Kiran Foundation and Dr. Nida Hussain, Pro-Chancellor, Ziauddin University, Karachi. Whereas the two institutions joined hands to lift up the suppressed children of Lyari by providing them mainstream education. Ziauddin University will offer subsidized education to the nominated children from Kiran Foundation. Ziauddin University is pursuing its goal of community development and collaboration with the Kiran foundation is an example of its commitment to community enhancement.

**Sir Syed Univerdity of Engineering & Technology (SSUET) and Ziauddin University - Karachi Inked Memorandum of understanding (MoU)**

The MoU signing ceremony was held on Thursday, February 03'2022. The memorandum was signed by Prof. Dr Vali uddin, vice chancellor, Sir Syed University of Engineering & Technology & and Prof. Dr. Syed Irfan Hyder, Vice-Chancellor, Zia Uddin University, Karachi. Whereas the two institutions desire to develop academic cooperation in various fields and agreed to initiate collaborative activities in academic areas of faculty and student exchange, collaborative research and academic projects, as well as sharing of academic information and materials.

International collaboration:

**Ziauddin University is now a member of the United Nations Academic Impact (UNAI)!**

Ziauddin University has joined some 1500 institutions in 147 countries who are working with the United Nations to promote global priorities, including peace, human rights, and sustainable development.

**Ziauddin University has become a member of CPEC Consortium of Universities.**

Ziauddin University has become a member of HEC China-Pakistan Consortium of Universities, there are 22 Chinese and 63 Pakistani universities other than Ziauddin University are part of this consortium, this consortium is a gateway to academic collaboration between Pakistani and Chinese universities to enhance bi-lateral research and academic collaboration.

CPEC Consortium of Universities was **founded in 2017 at Fudan University, under the auspices of the Higher Education Commission of Pakistan and China Association of Higher Education.** Its mission is to promote academic exchanges between Chinese and Pakistani universities for the high-quality development of CPEC.

**Ziauddin University Partnership with Hacettepe Üniversitesi a world-class research university for Mevlana Exchange Program, Turkey.**

Ziauddin University Partnership with a world-class research university in Turkey: ZU has finalized comprehensive collaboration agreements with Hacettepe Üniversitesi, this includes the Mevlana

Exchange Program for Faculty, Researchers and Students.

Hacettepe University, established on 8 July 1967, is a leading state university in Ankara, Turkey. By URAP 2019, it is ranked 1st among the Turkish universities.

#### **Ziauddin University Partnership with UNIMY a world-class research university**

UNIMY University Malaysia University Malaysia of Computer Science & Engineering (UNIMY) Is An Independent Private University Located In Cyberjaya; Malaysia's Global Tech Hub.

- Draft of standard MoU for Academic cooperation: A MoU template is drafted
- Draft of standard MoU for Industrial cooperation: A MoU template is drafted

ORIC facilitated faculty of Pharmacy, College of Nursing, Faculty of Engineering, Science, Technology & management, Department of Clinical psychology, College of Speech Language & Hearing Sciences, Faculty of liberal arts and hearing sciences in MoU drafting and collaborating with stakeholders. In this way faculty is also playing its role in collaboration.

#### **Potential collaborations**

- 1) Seed ventures
- 2) TiE Pakistan
- 3) FPCCI
- 4) KCCI
- 5) PCSIR
- 6) SMEDA
- 7) S-SDG
- 8) STDW
- 9) MULTIMEDIA UNIVERSITY, MALAYSIA
- 10) USKT

#### **Other activities performed**

- 1) Drafting of standard MoU for Academic cooperation
- 2) Drafting of standard MoU for Industrial cooperation
- 3) ORIC facilitated faculty of Pharmacy, College of Nursing, Faculty of Engineering, Science, Technology & management, Department of Clinical psychology, College of Speech Language & Hearing Sciences, Faculty of liberal arts and hearing sciences in MoU drafting and collaborating with stakeholders.
- 4) Faculty awareness sessions & stakeholder mapping activity-based workshop.

#### **Collaboration initiated by faculty with ORIC facilitation**

##### **Pharm Evo and faculty of Pharmacy Ziauddin University-Karachi Inked Memorandum of understanding (MoU)**

The MoU signing ceremony was held on Thursday, March 31'2022. The memorandum was signed by Mr. Jamshed Ahmed, Deputy CEO, Pharm Evo and Prof. Dr. Syed Irfan Hyder, Vice-Chancellor, ZiaUddin University, Karachi. Whereas the two institutions desire to develop collaborative activities in the development of nutraceuticals, pharmaceutical products and training of Pharmacy students, on a basis of equality and reciprocity. Office of Research, Innovation & Commercialization congratulates and wishes for a winning collaboration to Faculty of Pharmacy-Ziauddin University with Pharm Evo.

##### **Institute of Holistic Rehabilitation(IHRI) and Faculty of Liberal Arts & Human Sciences Ziauddin University-Karachi Inked Memorandum of understanding (MoU)**

The MoU signing ceremony was held on Thursday, May 17th'2022. The memorandum was signed by Mr. Abdul Razzak Pardesi, Chief Executive Officer (CEO), Institute of Holistic Rehabilitation (IHRI) and Dr. Shehla Najib Siddiki Dean- Faculty of Liberal Arts & Human Sciences, Zia Uddin University, Karachi. Whereas the two institutions desire to develop collaborative activities mainly for student internship. Office of Research, Innovation & Commercialization congratulates and wishes for a winning collaboration to

Faculty of Liberal Arts & Human Sciences Ziauddin University with Pharm Evo.

**Sustainability Office:**

As sustainability is one of the major issues facing the global community, ORIC has established the Sustainability Office to work towards the achievement of United Nations Sustainable Development Goals. In this regard, it promotes research and activities for all the 17 SDGs.

ORIC has developed a dedicated office to manage all activities which are in line with meeting sustainability priorities of the United Nations. The Sustainability Office oversees the university's progress towards sustainable development, including Green Initiatives. The office also ensures that the university is meeting all SDGs compliance requirements as part of its Social responsibility. The office holds awareness sessions regarding UN SDGs both to internal and external audiences. The office, alongside other divisions, manages and promotes the research leading to innovations that will help to advance the SDGs.

**International Office (IO)**

Ziauddin University forges partnerships with outstanding academic and other institutions across the globe to expand the student experience, faculty growth and contributions, and the impact of our research. Collaborations with our foreign colleagues are essential to the success of our global activities. Ziauddin University has also established the International Office for propagating the Global presence of the ZU brand. Some of the collaborating university includes Monash University and stem cell from Australia, university of Bedfordshire, Valparaiso University, European Society for Translational Medicine and Our most recent partners and collaborations.

**Intellectual Property Office (IPO)**

The Intellectual Property Management Office determines the patentability of a technology and provides assistance with protection of intellectual property. The Intellectual Property system contributes to a strong University economy, encourages investment in innovation, and fosters entrepreneurial spirit leading to new products and services for the competitive global market.

# CAPACITY BUILDING



## CAPACITY BUILDING

Series of Workshops on Research, Innovation & Commercialization: ORIC organized a series of workshop on Research, Innovation & Commercialization

ORIC, Department of Research and Department of Executive Development - Ziauddin University organized a 4-Day Workshop on "Research Methodology " (2-5 November 2021)

Office of research Innovation and commercialization (ORIC) - Ziauddin university in collaboration of Department of Research and Department of Executive Development organized a comprehensive 4-Day Workshop on "Research Methodology " from 2-5 November 2021. Faculty development and research capacity building at ZU was the core objective of this workshop.

Team ORIC provided a all-inclusive overview of the ORIC-functions, Dr. Zulfiqar Ali Umrani

Director-ORIC-Ziauddin University described about research & innovation ecosystem, Engr. Arbaz Adil, manager Grants & Projects-ORIC shared techniques of grant writing & how to get funding, Ambreen Muzammil Linkages and Outreach-ORIC-provided a glimpse about the significance of university Linkages & Collaborations.

Dr. Bilal Ahmed, Director-ORIC SZABIST was exclusively invited for the session, he shared his valuable insights over potential areas of research & University linkages and outreach.

ORIC, Department of Research and Department of Executive Development - Ziauddin University organized a 4-Day Workshop on "Research Methodology" (1-4 February 2022)

Office of research Innovation and commercialization (ORIC)-Ziauddin university in collaboration of Department of Research and Department of Executive Development organized a comprehensive 4-Day Workshop on "Research Methodology " from (1-4 February 2022).

Faculty development and research capacity building at ZU was the core objective of this workshop.

Team ORIC provided a all-inclusive overview of the ORIC-functions, Dr. Zulfiqar Ali Umrani

Director-ORIC-Ziauddin University described about research & innovation ecosystem, Engr. Arbaz Adil, manager Grants & Projects-ORIC shared techniques of grant writing & how to get funding, Ambreen Muzammil Linkages and Outreach-ORIC -provided a glimpse about the significance of university Linkages & Collaborations.

Mukesh Kumar, provincial chief -SMEDA was exclusively invited for the session, he shared his valuable insights over potential areas of research & University linkages and outreach.

Campus outreach activities Faculty Development Seminar - "Successful Research Grant Proposals":

Engr. Arbaz Adil, manager Grants & Projects-ORIC shared techniques of grant writing & how to get funding with researchers and faculty and answered their queries.

## ORIC CAMPUS DRIVE(S)

The objective of campus drive(s) was to increase the interconnectivity of ORIC with ORIC focal persons and students

- **September'2021:** Team ORIC conducted campus drive(s) at Ziauddin University, North Nazimabad Campus, Ziauddin University, Link Road Campus, Ziauddin University, Link Road Campus.

- **February '2022:** Team ORIC conducted faculty scorecard Campus drive(s). The objective of these drive(s) is to facilitate faculty members in achieving scorecard targets. Team ORIC visited North Nazimabad Campus including College of Nursing, College of Medical Technology, College of Eastern Medicine and Natural sciences, Faculty of Engineering, Science, Technology & Management, Link Road Campus including Faculty of Pharmacy, Faculty of Veterinary & Animal Sciences, Faculty of Engineering, Science, Technology & management, Clifton Campus including college of Speech language, language center, faculty of liberal arts and human sciences, college of rehabilitation, college of media sciences.

- Engr. Arbaz Adil, manager Grants & Projects-ORIC detail explained about research excellence KPIs that how to get scorecard targets. Adnan Jafri -ORIC Innovation and entrepreneurship expounded about the innovation & commercialization KPIs scorecard targets. Ambreen Muzammil Linkages and Outreach expounded that faculty about linkages & capacity building KPIs scorecard targets.

### Faculty awareness session

#### **SMEDA organized workshop on Youth Entrepreneurship titled" Small Business Startups.**

##### **October'2021**

Office of Research, Innovation and commercialization organized workshop on Youth Entrepreneurship titled" Small Business Startups. This session was organized in collaboration of Small & Medium Enterprise development Authority (SMEDA). The objective of the workshop was to raise awareness on entrepreneurship, sharing information and best practices observed in the international, regional and national perspectives to motivate the students to consider opting entrepreneurship as a career option. This workshop was arranged on Thursday October '21, 2021.

#### **UN's SDSN 9th Annual International Conference on Sustainable Development (ICSD). "Research for Impact: An Inclusive and Sustainable Planet."**

Ziauddin University is organized two parallel sessions at the UN's SDSN 9th Annual International Conference on Sustainable Development (ICSD). "Research for Impact: An Inclusive and Sustainable Planet."

The first session was titled: "SDG Learnings from COVID-19 for Science-Informed Decision-Making" whose invited speaker and moderators are:

I. Dr. Nida Hussain (Invited Speaker)  
(Pro-Chancellor, Ziauddin University)

II. Dr. Zulfiqar Ali Umrani  
(Director ORIC, Ziauddin University)

The second ZU session is titled: "SDG6 Implementation in LMICs and How National Water Policies Can Accelerate Progress"

### **Research & Technology Expo 2022**

Ziauddin University participated in the Research and Technology Expo 2022 on 19th and 20th May 2022, organized by NED-UET and Sindh HEC.

Adnan Jafri (Innovation and Entrepreneurship Lead) & Ambreen Muzammil (Linkages & Outreach Lead) from Office of Research Innovation and Commercialization facilitated the ZU exhibitors at the Expo. Registrar ZU-Capt (Retd) Syed Waqar Hussain visited the ZU stall and appreciated the researchers and their projects.

Following Projects were showcased in the Expo.

1. Modular Air Quality Monitoring System from Faculty of Engineering Science Technology and Management-Ziauddin University
2. Speech & Language Therapy: EduLearn Tools (Materials + Website) Ziauddin College of Speech Language and Hearing Sciences.
3. Anatomage Table (For teaching MBBS students and Professional Doctors) from Anatomy Department-Ziauddin Medical College.
4. Abstract concepts in science: Carbon -Hybridization from Ziauddin College of Education.

