

RESEARCH PROJECTS (APPROVED (last updated on 24.10.2024))

Sr. No.	Name of PI	Project Title	Duration	Funds Approved (million)
Research Projects Approved by Higher Education Commission				
1	Dr. Adnan	Conductive Polymer-coated sulfur enriched porous carbons as self-supported and flexible cathodes for lithium-sulfur batteries”	24 months	20.712
2	Dr. Hassan Sher	Medicinal and aromatic plants production for economic development and conservation in Swat Valley, Pakistan: Improving livelihoods and mitigating change’ (under Pak-Us S&T Cooperation Program, Phase-VI)	24 months	7.46
3	Dr. Anwar Hussain	An Analysis of Ecological Footprint in Rural Urban Areas of District Swat, Khyber Pakhtunkhwa	12	5.508
4	Dr. Ahmad Ali	Molecular and Physiological Evaluation of Stay Grain Wheat Genotypes for Drought Tolerance	36 months	3.731
	Dr. Haider Alil	Plant Biodiversity of Elum valley Swat, DNA Barcoding and conservation of rare, threatened and endemic taxa through miro-propagation	36 months	5.977
5	Dr. Muhammad Israr	DNA-based Prediction of Eye and Hair Colour of Pakhtun Population Living In Malakand Division Of Pakistan	24 months	7.103
6	Dr. Faiz Muhammad	A New Approach Toward Fuzzy Soft Ideals in Order Semigroup with Applications	36 months	1.147
7	Dr. Fazal akbar	Analysis of the diversity of begomovirus-complex and its whitefly vector in khyber Pakhtunkhwa	24 months	4.71

8	Dr. Fazal Akbar	Analysis of a unidirectional plant promotor from cotton associated begomoviruses	24 months	2.276
9	Dr. Zahid Ullah	DNA Barcoding and phylogenetic analysis of the grasses (Poaceae) of Pakistan	36 months	5.298
10	Dr. Haidar Ali	Conservation Of Taxus Contorta Through Micropropagation, Rehabilitation Of its Native Habitat, Extraction of Taxol (Anticancer Drug) And Identification of Transcription Levels of Biosynthetic Genes	36 months	7.861
11	Dr.Haji Khan	Designing Biological Control Strategies Against Peach Leaf Curl Diseases	36 months	2.830
12	Dr.Muhammad Nazir Uddin	Molecular Identification and Characterization of Epicoccum purpurascens and its use as Biocontrol Agent Against Pythium Root Rot of Strawberry in Madyan, Swat	36 months	2.884
13	Dr. Adnan	Studies of the co-pyrolysis of Polystyrene with Municipal Plastic wastes into valued products using supported catalysts.	07 months	.306
14	Dr. Akhtar Rasool	Demographic and phylogenetic analysis of Helicoverpa armigera pyrethroids resistant strain in Pakistan	09 months	.428
15	Dr. Fazal Akbar	Exploration of geminiviruses and satellites in Swat Valley	12 months	.448
16	Dr. Muzafar Shah	Taxonomic and DNA bar-coding of Vespidae (Hymenoptera) of Khyber Pakhtunkhwa	06 months	.485
17	Dr. Muhammad Israr	Degraded DNA study through non codis STRs	12 months	.479
18	Dr. Naveed Alam	Remote Sensing & GIS based assessment of forest cover change detection of Malam Jabba Forests, District Swat”.	08 Months	.297
19	Dr. Shah Hussain	Diversity and Phylogeny of some Economically Important Mushrooms of District Dir Upper, Khyber Pakhtunkhwa, Pakistan	07 months	.5

20	Dr. Adnan Shahzad	Decomposition behaviour of Cu and Ag Complexes stabilized by Thiourea Ligands; Characterization and Preliminary Applications as Photocatalysts	09 months	.499
21	Dr. Tariq Shah	To assess the awareness level of farming Community of districts Malakand and Swat regarding climate change	08 months	.382
22	Dr. Amjad Iqbal	Competitive pressure and firm's management: Evidence from corporate information quality and payout policy	08 months	.5
23	Dr. Muhammad Suhail	Development of Embedded Capacitors Based on Waste Ceramics/ Polyaniline (PANI) Macro Composites for Batteries and Micro-Wave Devices	08 months	.499
24	Dr. Kiramat Shah	Synthesis and Characterization of click generated triazoles and its applications as a chemosensors for antibiotics	09 months	.5
25	Dr. Anwarzeb Khan	Transport, fate and toxicological effects of heavy metals in soil, food plants and irrigation water in Peshawar basin, Khyber Pakhtunkhwa	07 months	.369
26	Dr. Mian Gul Said	"Synthesis, Characterization and biological activities of Porphyrin Schiff bases"	09 months	.5
27	Dr. Palwasha	"The Moderating Role of Work Environment on the Relationship between Performance Appraisal, supervisor support and Employees Retention"	09 months	.5
28	Dr. Ashfaq Ahmad	"Organizational Commitment along academic staff in higher learning institutions: The Buffering role of Co-worker Support"	09 months	.5
29	Dr. Shahid Ali	Genetics of neonicotinoids in peach aphids in swat valley	09 months	.5

30	Dr. Nisar Ahmad	The synergistic effect of plant hormones on morphogenic potential and content of piperine in regenerated shoots of black pepper.	09 months	.464
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32	Dr. Fazli Hadi	Analytical and Numerical Study of Various Electrostatic and Electromagnetic Modes in non-relativistic Lorentzian Plasma	06 months	.225
33	Dr. Zahid Hussain	Establishment of Agrobacterium mediated genetic transformation system for local rice cultivars of Swat	08 months	.272
34	Dr. Javed Nawab (Dr. Kifayatullah Khan: CO-PI)	Quantification of heavy metals in agriculture soil, crops and water and their respective human health risks in Indus Kohistan Northern Pakistan	08 months	.385
35	Dr. Amin ur Rashid	Effect of zirconia on the specific absorption ate of strontium doped lanthanum magnate nanoparticles for hyperthermia applications	09 months	.304
36	Dr. Hazrat Ali (Dr. Haji Khan: CO-PI)	Isolation, Identification and molecular characterization of cellulytic bacterial and fungal species using classical and modern molecular based techniques	12 months	.308
37	Dr. Zia Ur Rehman (Dr. Haji Khan: CO-PI)	Isolation and Characterization of Novel high-lipid-producing Microorganisms as a Potential Source of Alternative Belief	09 months	.398
38	Dr. Muhammad Omer	Conducting polymers: PMMA/CNT/TiO2 Composite, its mechanical and electrical properties	12 months	.274
39	Dr. Fida Hussain (Dr. Muhammad Omer)	Preparation and application of Nb2O5-X (X=Fe, Mn, Cu) catalyst for dyes degradation	06 months	.398
45	Dr. Zahid ullah	Systematic and Evolutionary implications of the leaf anatomical and pollen morphological features in sedges	08 months	.204

		(Cyperaceae) from Swat North West Pakistan		
46	Dr. Kefayat Ullah	Fabrication of graphene based ZnO nanocomposites as anode material for photo electrochemical water splitting	06 months	.425
47	Dr. Ihsanullah	designing rapid, efficient and environmentally benign synthesis of medicinally important fluorinated-heterocyclic compounds: docking and computational studies and their subsequent screening for anti-cancer and other biological activities	36	8.9
48	Dr. Muhammad Suleman	Analysis of genetic variations in milk producing genes and their association with milk composition in Pakistani Cattle, Buffalo, Sheep and Goat breeds	24	3.3
49	Dr. Javed Khan	Synthesis of Phosphorus-doped Graphene Oxide/Nitrogen-doped TiO ₂ Nanocomposite for Water Treatments and Overall Water Splitting	36	4.2
50	Dr. Sher Shah	Dendrochronological analysis of National Heritage (juniper forests) of Ziarat Baluchistan	36	5.3
51	Dr. Muhammad Ali	Establishment of fed-batch culture system by using temporary immersion bioreactors for improved production of Steviol glycosides in adventitious root cultures of <i>Stevia rebaudiana</i>	24	3.3
Research Project approved by British Council Pakistan				
52	Dr. Zarawar Khan	Pakistan-UK Higher Education Links	12	1.55
Research Project approved by Pakistan Science Foundation (PSF)				
53	Dr. Mohammad Sohail	“Developing Environmental Friendly, Mg-Matrix Based Composite Technology for Present and Future Generations”.	12 months	1.0
54	Dr. Zafar Ali	Elucidating the Genetic Architecture and Pathophysiology of Intellectual disability in Consanguineous Pakistani Families	12 months	3.3

Research Project approved by IGNITE				
55	Dr. Mohammad Sohail	Computational Analysis of River Swat Water Biota using Density Functional Theory DFT	12 Months	.8

Total:

120.35 (Million)