

**COMSATS Institute of Information Technology (CIIT)**  
***Registrar's Secretariat, Principal Seat, Islamabad***

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## **Awards**

Since its inception, COMSATS Institute of Information Technology (CIIT) has come a long way in a short span of time due to the incessant commitment and dedication of its team of hardworking professionals. Our international rankings and reputation speaks volumes of the high quality of education being imparted and research being conducted at CIIT. The recent international rankings are as follows:

- CIIT is ranked # 301-400 in 2018 Times Higher Education (THE) Engineering & Technology subject ranking and #401-500 in Physical and Life Sciences. While in the THE world universities rankings, CIIT has been placed among 601-800 world best universities, and ranked 2nd in Pakistan. This is for the very first time that CIIT has been ranked in THE subject rankings which is a noteworthy achievement for CIIT.
- The Institute has also been ranked 190<sup>th</sup> in QS Asian Universities Rankings 2018. Overall the institution improved on its 2016/2017 performance by 41 places. In 2018 edition, CIIT performed among the top 45% in the QS Asian University Rankings.

### Completed Research Projects

#	Title of Research Proposal	Principal Investigator	Department	Funding Agency	Date of Approval	Status
1	Relationship Between Financial Constraints and Research Productivity: A Comparative Study of public and Semipublic Universities of Pakistan	Dr. Qaiser Aman	Management Sciences	HEC	18-09-2015	Approved & completed
2	Biotransformation ( Detoxification of Arsenic in Soil and human Samples from Pakistan	Dr. Muhammad Zafar	Meteorology	COMSTECH-TWAS	31-03-2016	Approved & completed
3	Study of Heavy Ion Physical With ALLICE at LHC CERN.	Dr. Aamir Wali Rauf	Physics	HEC	01-04-2012	Approved & Completed
4	50 Years of Environmentally Sustainable Urban Development of Islamabad	Dr. Amir Haider Malik	Meteorology	HEC	21-11-2011	Approved & completed
5	" Optical Characterization of Low Dimensional Semiconductors (Elemental and Comund) for Sensor and catalytic Applications	Dr. Arshad Saleem Bhatti	Physics	HEC	10-10-2010	Approved & Completed
6	Synthesis and characterization of biodegradable nanocomposites for commercial food packaging application	Dr. Farha Masood	Biosciences	International Foundation for Science (IFS)	19-12-2014	Approved & completed
7	Bio-Control of Macrophomina Phaseolina Causing Charcol Rot in Oil Seed Crops by Using Plant Growth Promoting Rhizobacteria (PGPR)	Dr. Muhammad Nadeem Hassan	Biosciences	International Foundation for Science (IFS)	04-01-2010	Approved & Completed
8	Source Tracking and surveillance system of diarrhoeagenic bacterial pathogens in Pakistan	Dr. Syed Habib Bokhari	Biosciences	British Council	05-03-2009	Approved & Completed
9	Analysis of Floate Imbalance in Human Cerebrospinal Fluid As a possible cause of poor brain development in Hydrocephalic Neonates	Dr. Shahid Nadeem Chohan	Biosciences	British Council	03-05-2009	Approved & Completed

10	Synthesis of Dye encapsulated silica nanoparticles	Dr. Asad Muhammad Khan	Chemistry	HEC	30-12-2014	Approved & completed
11	Impact of High performance work systems on organizational performance in Higher education sector	Dr. Osman Sadiq Paracha	Management Sciences	HEC	30-12-2014	Approved & completed
12	Modulation of adenosine deamination patterns in cardiovascular patients	Dr. Syed Tahir Abbas Shah	Biosciences	HEC	30-12-2014	Approved & completed
13	Impact of Non-coding RNA in Bladder Cancer patient	Dr. Saima Feroz	Biosciences	HEC	30-12-2014	Approved & completed
14	Electrochemical Fabrication of Ferrocene Functionalized Gold Nanoparticles for the Electrocatalytic Sensing of Biological Entities	Dr. Sana Sabahat	Physics	HEC	23-05-2012	Approved & Completed
15	Identification of silicate solubilizing bacteria for plant growth promotion and biological control fungal diseases in siliceous crops	Dr. Zakira Noureen	Biosciences	HEC	11-07-2012	Approved & Completed
16	Portable, disposable and cost-effective aptamer based assays for early diagnosis of cancer cells	Dr. Akhtar Hayat	IRCBM	HEC	30-12-2014	Approved & completed
17	An ambient intelligence platform supporting context aware planning	Dr. Muhammad Adnan Hashmi , Dr. Zulfiqar Habib	Computer Science	HEC	28-08-2012	Approved & Completed
18	Analysis and Modeling Chaos in Fluid Dynamical Systems	Dr Hira Siddiqui	Physics	HEC	12-02-2015	Approved & completed
19	Wound Healing And Tissue Regeneration Activities of Bacterial Cellulose-Montmorillonite Nano-Reinforced Composite Films in Burn Mice Models	Dr. Fazli Wahid	Environmental Sciences	HEC	06-02-2015	Approved & completed

20	Evaluation of probiotic potential of the indigenous strain of lactic acid Bacteria found in the fermented dairy products in Pakistan	Dr. Maira Janjua / Junjua	Biosciences	HEC	15-01-2015	Approved & Completed
21	Peristaltic Transport of Water Based Nanofluids Subject to Different Thermal Conductivity Models	Dr. Fahad Munir	Mathematics	HEC	04-03-2015	Approved & Completed
22	Characterization studies of poly (2-ethyl-oxazoline) and Star-shaped Poly (acrylic acid) samples in solution	Dr. Jaweria Ambreen	Physics	HEC	09-02-2015	Approved & completed
23	Development Of inkjet Printing System for Printing Two Dimensional Conductive Patterns	Dr Maria Mustafa	Chemical Engineering	HEC	28-01-2015	Approved & Completed
24	Complex Metal Oxides based electronic devices for transport and Gas sensing Properties	Dr Zahid Imran	Physics	HEC	03-03-2015	Approved & Completed
25	Synthesis of Complex metal oxides eletrospum nanofibers for Environmental Remediation	Dr Syeda Sitwat Batool	Physics	HEC	03-02-2015	Approved & Completed
26	Investigating the snow cover and glaciers variation trend in the Gilgit River basin, using satellite remote sensing	Dr. Adnan Ahmad Tahir	Environmental Sciences	HEC	30-04-2012	Approved & completed
27	Designing, characterization and comparative evaluation of biodegradable polymer based nanoparticles delivery systems for sustained drug release	Dr. Farah Masood	Biosciences	HEC	11-09-2013	Approved & completed
28	Substitutes for leadership: obstacles or opportunities for the leaders	Dr. Ghulam Hussain	Management Sciences	HEC	30-12-2014	Approved & completed
29	Trapezoid, Midpoint and Simpson-Type Inequalities Via Fractional Intergrals	Dr Shahid Qaisar	Mathematics	HEC	09-02-2015	Approved & completed

30	The effective use of amides & carbonates in sulfur ylide mediated annulations reactions & a novel method development for the efficient synthesis of URAT inhibitors dihydro 1, 4-benzoxazines using vinyl sulfonium salts	Dr. Yar Muhammad	IRCBM	HEC	28-08-2012	Approved & completed
31	Modeling the Comparative Impacts of Internal and External Determinants of Economics Growth in Pakistan	Dr. Muhammad Tahir	Management Sciences	HEC	11-02-2015	Approved & completed
32	Transgenic expression of nNoccaea Caerulescens heavy metal tolerant gene (HMA <sup>S</sup> ) IN Tobacco	Dr. Mazhar Iqbal, Dr. Raza Ahmad (New PI)	Environmental Sciences	HEC	18-09-2014	Approved & Completed
33	Functionized Synthesis Sensitive Coatings for the Detection of acidic components	Dr. Usman Latif	Chemistry	HEC	16-05-2012	Approved & completed
34	Role of nano-enzymes application in remediation of saline solid soils: impact on soil microbial diversity and biodegradation processes	Dr. Bilal Ahmad Zafar Amin	Environmental Sciences	HEC	17-04-2013	Approved & Completed
35	Mode-Matching and low-frequency analysis of some structural wave problems	Dr. Rab Nawaz	Mathematics	HEC	30-12-2015	Approved & Completed
36	Vapor Phase Transport Deposition: New Chapter in Growth of Nano-Structures	Dr. Shumaila Karamat	Physics	HEC	11-08-2012	Approved & completed
37	Bacteriological Water Quality Assessment of Different Institutions of Abbottabad City in KPK	Dr. Toqeer Ahmed,	Environmental Sciences	HEC	11-02-2012	Approved & completed
38	Development of Nanocomposite Electrolytes and Fundamental Studies of Interfacial Phenomena in Advanced fuel cell Technology	Dr. Rizwan Raza	Physics	HEC	12-04-2012	Approved & completed
39	Adapted greedy string tiling (aGST) Algorithm for paraphrased plagiarism detection	Dr. Rao Muhammad Adeel Nawab	Computer Science	HEC	20-11-2013	Approved & completed

40	Synthesis and Characterization of Nano-Structures Using Spin Coater	Dr. Sameena Shah Zaman	Physics	HEC	11-05-2012	Approved & Completed
41	Gold Nanoparticles for enhanced anti-cancer activity: in vitro studies	Dr. Ahsan Jabbar Shaikh	Chemistry	HEC	30-12-2014	Approved & completed
42	Synthesis, characterization and UV Studies of some coumarin substituted oxadiazoles, triazoles and pyrazoles	Dr. Amara Mumtaz	Chemistry	HEC	30-06-2011	Approved & completed
43	Synthesis and Characterization of Silane Crosslinked Linear Low Density Polyethylene/Chitosan/Closite Composite	Dr. Sadullah Mir	Chemistry	HEC	14-12-2012	Approved & completed
44	Pesticides analysis in soil of cotton growing area in Vehari region	Dr. Muhammad Shahid	Environmental Sciences	HEC	27-09-2012	Approved & completed
45	Metal sulfides based hybrid electronic devices for energy applications	Dr. Mushtaq Ahmad	Physics	HEC	30-12-2014	Approved & completed
46	Some new boundedness results for integral operators	Dr. Amjad Hussain	Mathematics	HEC	30-12-2014	Approved & completed
47	Synthesis Characterization and Photo physical Studies of the Substituted Triazoles and Thiazoles	Dr. Aneela Maalik,	Chemistry	HEC	22-03-2013	Approved & completed
48	Identification and Characterization of lead (Pb) responsive genes in wheat (tritium Aestivum L.)	Dr. Sarfraz Shafiq (Old PI) Dr. Rafiq Ahmad (New PI)	Environmental Sciences	HEC	17-04-2013	Approved & Completed
49	Carbon doped ZnO nanostructured materials	Dr. Saif ullah/ Dr. Sadia Manzoor	Physics	HEC	30-12-2014	Approved & Completed
50	Synthesis Nuclear Activity and Fluorescence Properties of Cobalt Complexes	Dr. Tariq Mahmood	Chemistry	HEC	29-03-2012	Approved & completed

51	Optimization and response of Kasumbha (Safflower) to PSB and N <sub>2</sub> fixing biofertilizers for biodiesel production	Dr. Asia Nosheen	Biosciences	HEC	26-06-2014	Approved & completed
52	Biochemical and molecular response of maize (Zea Mays L, to bioformulations following inoculation of fungal pathogen	Dr. Rabia Naz	Biosciences	HEC	30-12-2014	Approved & completed
53	Identification and Characterization of Metal-Resistant Fungal Strains Isolated from Polluted Sites	Dr. Kiran Munir, Dr. Nadeem Hassan	Biosciences	HEC	20-11-2012	Approved & completed
54	The impact of social media on teacher's performance: A case study of Dera Ismail Khan and District Vehari, Pakistan	Dr. Muhammad Imran Khan	Management Sciences	HEC	06-01-2014	Approved & Completed
55	Cell culture engineering and optimization of locally-isolated microalgae for enhanced biodiesel production	Dr. Syed Mohammad usman Shah	Biosciences	HEC	26-06-2014	Approved & completed
56	Connectivity optimization under microscopic permater for VANET	Dr. Tariq Umer	computer science	HEC	26-10-2014	Approved & completed
57	Development of new estimator in the presence of non-response using multi-auxiliary variables with applications	Dr. Muhammad Ismail	Statistic	HEC	26-10-2014	Approved & Completed
58	Harmonic maps on s-Manifolds	Dr. Najma Abdul Rehman	Mathematics	HEC	30-12-2014	Approved & Completed
59	Estimation of form level technical efficiency in maize production in the high mountains north region of Pakistan	Dr. Arif Alam	Development Studies	HEC	26-10-2014	Approved & Completed
60	Analyzing the extent of using computer support for decision making in various industries of Pakistan	Dr. Yasir Javed	Management Sciences	HEC	26-10-2014	Approved & Completed

61	Assessment of livelihood improvement through non wood forest products (NWFPs) among the thribal communities of thakht-e-Sulaiman hill, Pakistan	Dr. Khalid Ahmad	Environmental Sciences	HEC	30-12-2014	Approved & completed
62	Risk mapping and source tracking of helicobacter pylori strains along the Indus River flood plain	Dr. Sundus Javed	Biosciences	HEC	30-12-2014	Approved & completed
63	A study of molecular basis of inherited psoriasis in Pakistani population	Dr. Rabia Habib	Biosciences	HEC	30-12-2014	Approved & completed
64	Numerical Solution of The Boundary Value Problems Arising in Biology	Dr. Muhammad Sadiq	Computer Science	HEC	13-11-2012	Approved & completed
65	Multi-criteria optimization for green cooperative cognitive radio networks	Dr. Muhammad Naeem	Electrical Engineering	HEC	30-12-2014	Approved & completed
66	Efficient hardward implementation of interpolation filter HEVC standard, targeting low power mobile devices	Dr. Ashfaq Ahmad	Electrical Engineering	HEC	30-12-2014	Approved & completed
67	Systematic study of non-edible oil yielding plant species (salyadora persiea linn) and its oil analysis for quantitative and qualitative production of biodiesel	Dr. Kifayat ullah	Biosciences	HEC	26-06-2014	Approved & completed
68	Real time implementtio of shared memory multiprocessor systems-on-chip (MPSoCs)	Dr. Abdul Naeem	Electrical Engineering	HEC	26-10-2014	Approved & Completed
69	Synthesis and af suseptibility measurement of nano particles	Dr. Muhammad Saeed/ Dr. Muhammad Anis ur Rehman	Physics	HEC	26-10-2014	Approved & completed
70	Stopping the data theft: tracing the guilty agent	Dr. Muhammad Kamran	computer science	HEC	26-10-2014	Approved & Completed
71	Development of nanocomposite materials for solid oxide fuel cell	Dr. Ghazanfar Abbas	Physics	HEC	26-10-2014	Approved & CCompleted



72	Screening of local wheat cultivars to identify water logging tolerant cultivar	Dr. Irfan Sadiq	Biosciences	HEC	15-10-2012	Approved & completed
73	On efficient control charts to monitor process parameters using different sampling schemes	Dr. Shabbir Ahmad	Mathematics	HEC	30-12-2014	Approved & completed
74	The study of hydrogenated amorphous carbon (a-C:H) graded layer on complaint substrate by transmission electron microscopy	Dr. Muhammad Omar Manzoor/ Dr. Asim Laeeq Khan	Chemical Engineering	HEC	26-10-2014	Approved & Completed
75	Problem and prospect of undergraduate research in universities-A preliminary phase-I for promoting undergraduate research in the Pakistan	Dr. Fayyaz Ahmad Faize	Humanities	HEC	29-08-2014	Approved & completed
76	Development of Novel Techniques for data fusion using multivariate empirical mode decomposition	Dr. Naveed ur Rehman	Electrical Engineering	HEC	28-08-2012	Approved & Completed
77	Identifying facilitators and barriers to the implementation of health promoting schools in Pakistan: A survey in Multan District	Dr. Sajid Haider	Management Sciences	HEC	26-10-2014	Approved & completed
78	Identification of microbes from Municipal Sewage and Industrially Polluted Water and their Potential use as Bioindicator	Dr Saqib Mumtaz	Biosciences	HEC	27-01-2015	Approved & completed
79	Learning Support in a Context-based Adaptive Collaboration Environment	Dr Syed Sajid Hussain	computer science	HEC	28-01-2015	Approved & completed
80	Direct and inverse problems for time fractional diffusion equations	Dr. Salman Amin Malik	Mathematics	HEC	21-06-2013	Approved & completed
81	Gradient Analysis of Vehicular and Industrial Emissions Along Hattar (haripur) to Manshera City at Express Highway ,KPK,Pakistan	Dr Shamyala Nawazish	Environmental Sciences	HEC	27-01-2015	Approved & completed
82		Dr. Sadia Manzoor	Physics	HEC	14-06-2010	Approved & completed

83	The role of immune system in obesity associated metabolic diseases	Dr. Muhammad Jawad	Biosciences	HEC	30-12-2014	Approved & completed
84	Community empowerment: Assessment of communitydriven projects under devolution plan	Dr. Muhammad Shakil Ahmad	Management Sciences	HEC	30-12-2014	Approved & completed
85	Gain of competitive advantage through supplier development practices	Dr. Amer Rajput	Management Sciences	HEC	30-12-2014	Approved & completed
86	Employee retention through delegative participation practices	Dr. Komal Khalid Bhatti	Management Sciences	HEC	30-12-2014	Approved & completed
87	Analytical and numerical investigation of two-phase flow models	Dr. Habil Shamsul Qamar	Mathimatics	HEC	13-01-2010	Approved & completed
88	The Biological and Decomposition of Dyes Effluent by Rotating Biological Discs Contractor	Dr. Robina Farooq	Chemical Engineering	HEC	28-09-2011	Approved & completed
89	Energy Efficient Fair Path Planning for Non-holonomic Mobile Robots	Dr. Zulfiqar Habib	Computer Science	HEC	22-10-2013	Approved & completed
90	Mutational and expressional analysis of carcinogen detoxifying genes in head and neck cancer patients	Dr. Mahmood Akhtar Kayani	Biosciences	HEC	24-03-2010	Approved & Completed
91	An Analysis of the Impact of Civil Conflict on the Local Businesses of Swat Valley"	Dr. Amjad Farid Hasnu	Management Sciences	HEC	10-03-2012	Approved & completed
92	Principles and Practices Affecting Takeful (Islamic Insurance and Conventional Insurance: A Comparative Study of Pakistan	Dr. Waheed Akhtar	Management Sciences	HEC	10-03-2012	Approved & completed
93	Computational Design of Cyclophanediene-Dihydropyrene Photoswitches.	Dr. Khurshid Ayub	Chemistry	HEC	26-12-2011	Approved & Completed
94	Study of MHD Equilibria in Fusion Plasmas	Dr. Muhammad Asif	Physics	HEC	28-10-2013	Approved & Completed
95	Novel Bioactive Composites based on Hyper branched Polymers for dental Applications	Dr. Anila Asif	IRCBM	HEC	20-02-2012	Approved & completed

96	Quantum Computing and Atomic Coherence Effects International Linkage of Pakistani Universities with Foreign universities	Dr. Manzoor Ikram	Physics	HEC	20-02-2006	Approved & Completed
97	Treatment of Mine Drainage by Combination of Ultrasonic Cavitations and Electrochemical Process"	Dr. Robina Farooq	Chemical Engineering	HEC	19-08-2010	Approved & Completed
98	Post Doctoral Fellowship Program	Dr. Saqib Gulzar	Management Sciences	HEC	06-03-2015	Approved & Completed
99	Lab strengthening and up gradationof library, CIIT Wah	Mr. Farhad Ali	Library	HEC	03-06-2014	Approved & Completed
100	Synthesis and optimization of large antenna array radiation patterns ppcr	Dr. Asim Ali Khan	Electrical Engineering	HEC	03-12-2013	Approved & Completed
101	Low cost domestic solar cooker and associated domestic utilities	Dr. Waqar Haider Bokhari	Electronics	HEC	23-10-2013	Approved & Completed
102	Melanin/nano porous TiO2 hetero-junction solar cells	Dr. Mushtaq Ali	Physics	HEC	12-11-2013	Approved & Completed
103	Proximity Access Transport and Mobility are Constitutional Elements of Cities Which Need to be Organized in a Sustainable Manner.	Dr. Muhammad Tahir Masood	Management Sciences	HEC	18-05-2009	Approved & Completed
104	Comparative Thermal Analysis of Adobe and Brick Building in Islamabad.	Arch. Muhammad Afzal Ebrahim	Architecture	HEC	21-11-2009	Approved & Completed
105	Determination of RbI2/P130 Acetylation levels in normal a well as tumor cells	Dr. Muhammad Saeed	Biosciences	HEC	08-05-2010	Approved & Completed
106	Validating and exploring biochemical basis of efficacy of a Herbal formulation against Hepatitis C Viral infection	Dr. Saleem Ahmed Shah Bokhari	Biosciences	HEC	30-04-2013	Approved & Completed
107	Grant for Maintenance of Scientific Equipments	Dr. Nazar Abbas Shah	Physics	HEC	21-12-2011	Approved & Completed

108	"Identification and Molecular Cloning of Pollen Allergens.	Dr. Asifa Ahmed	Biosciences	HEC	13-05-2008	Approved & Completed
109	"Preparation and Thermo physical Characterization of nano Ferities.	Dr. Muhammad Anis-ur-Rehman	Physics	HEC	12-03-2008	Approved & Completed
110	"Vertebrate Evolution, Biogeographic Relationships and Pale environments of the Siwaliks of Pakistan.	Dr. Abdul Ghaffar	Meteorology	HEC	05-06-2007	Approved & Completed
111	"The Molecular Basis of Familial High Blood Cholesterol in select Families.	Dr. Raheel Qamar	Biosciences	HEC	19-07-2007	Approved & Completed
112	"Genetic Analysis of KISS-1 and KAI-I Genes.	Dr. Mahmood Akhtar Kayani	Biosciences	HEC	23-07-2007	Approved & Completed
113	"Development of an integrated system comprising of engineered bacteria based Biosensors for the detection of Bioavailable Toxic Metals from Environment.	Dr. Syed Habib Bokhari	Biosciences	HEC	20-10-2007	Approved & Completed
114	Development of plant DNA Isolation Kit	Dr. Muhammad Zeeshan Hyder	Biosciences	HEC	06-03-2010	Approved & Completed
115	Use of Plant Growth Promoting Rhizobacteria (PGPR) for the Biological Control of Root Knot of Tomato caused by Meliodogyne spp.	Dr. Fauzia yousaf Hafeez	Biosciences	HEC	07-06-2009	Approved & Completed
116	Modeling and Simulation of population balances for particulate processes in process engineering	Dr. Habil Shamsul Qamar	Mathimatics	HEC	16-06-2009	Approved & Completed
117	Grant for Maintenance of Scientific Equipments	Dr. Jamshid Iqbal	Pharmaceutical Sciences	HEC	18-04-2013	Approved & Completed
118	Pehnomenologlcal status of R-Parity violating supersymmetric standard model	Dr. Farida Tahir	Physics	HEC	07-11-2006	Approved & Completed
119	"Saturation Mapping and the Utility of PH I Gene Region for Wheat Improvement.	Dr. Muhammad Maroof Shah	Environmental Sciences	HEC	05-07-2006	Approved & Completed

120	"Development of an Integrated Whole-Cell Based Biosensors to Detect Bioavailable Organophosphates from Environment	Dr. Syed Habib Bokhari	Biosciences	HEC	27-12-2006	Approved & Completed
121	Grant for Maintenance of Scientific Equipments	Dr. Abdul Samad Khan	IRCBM	HEC	15-06-2012	Approved & Completed
122	Grant for Maintenance of Scientific Equipments	Dr. Muhammad Anis-ur-Rehman	Physics	HEC	15-06-2012	Approved & Completed
123	Identification of genes involved in phytoremediation from different hyper accumulators plants and recombinant protein expression, purification, and functional analysis of proteinase inhibitors from medicinal plants	Dr. Rafiq Ahmad	Environmental Sciences	HEC	28-12-2012	Approved & Completed
124	Biological and molecular characterization of viruses infecting papaya (carica papaya L) in Pakistan	Dr. Sadia Naseem	Biosciences	HEC	26-12-2011	Approved & Completed
125	Adaptive Estimation and prediction of disturbance and its use in Model predictive control	Dr. Sajjad Ali Haider	Electrical Engineering	HEC	22-05-2015	Approved & Completed
126	Detection of Unauthorized Movement in Video, Utilizing Saliency Concepts	Dr. Talha Akram	Electrical Engineering	HEC	07-04-2015	Approved & Completed
127	Quantification of phytohormone levels Presents in Vegetables growing in current agricultural Practices	Dr. Humaira Yasmin	Biosciences	HEC	06-04-2015	Approved & Completed
128	Nitric Oxide Induced Alleviation of Combined Toxic Effects of NACI and CD Stress In Soybean	Dr. Zahra Jabeen	Biosciences	HEC	03-03-2015	Approved & Completed
129	New integral Inequalities and Their Refinements	Dr Saad Ihsan	Mathematics	HEC	20-05-2015	Approved & Completed
130	Preparation and Characterization of an effective photocatalyst for the efficient killing of the cancer cells	Dr. Muhammad Nasir	IRCBM	HEC	06-04-2015	Approved & Completed

131	Educational apartheid in Pakistan: Economic and Social Consequences	Dr. Rafi Amir-ud-din	Management Sciences	HEC	22-05-2015	Approved & Completed
132	Efficient Irrigation Techniques for Improving Water Use Efficiency of Wheat Maize Cropping System in Arid Region Using DSSAT Model	Dr Muhammad Mubeen	Environmental Sciences	HEC	26-11-2015	Approved & completed
133	Phytochemical and Bioactivity Evaluation of Allium Jacquemontii Kunth	Dr Naseer Ali Shah	Biosciences	HEC	08-04-2015	Approved & Completed
134	Establishment of a Low Cost Cyber Physical Syatems Facility for Research Design And Development of Tools for Infrastructure Improvement in Pakistan	Dr. Osman Khalid	Computer Science	HEC	09-06-2015	Approved & Completed
135	On the Study of Fault Tolerant Design in Various Lattice Networks and Lattice Structures	Dr. Yasir Bashir (Old PI) Dr. Anwar Hussain (New PI)	Mathematics	HEC	10-06-2015	Approved & completed
136	Integration of Active Passive Components on Photonic Chip by Bandgap Engineering of Laser Microstructure"	Dr. Mohammad Kaleem	Electrical Engineering	HEC	26-11-2015	Approved & Completed
137	Development of Gastroprotective Drug Delivery System using Synthesized copolymeric nanocomplexes Characterization and Biological Evaluation	Dr. Muhammad Sohail	Pharmaceutical Sciences	HEC	10-08-2015	Approved & Completed
138	Evaluation of NPS and NPY activities and their genetic variations in Obese Pakistani Individuals	Dr. Pasha Ghazal	Biosciences	HEC	04-09-2015	Approved & Completed
139	A Case Study of Humans and their Microbiomes	Dr. Arshan Nasir	Biosciences	HEC	18-09-2015	Approved & Completed
140	Synthesis and modification of different adsorbents for environmental remediation	Dr. Safia Zahid	CCRD	HEC	12-10-2015	Approved & Completed
141	Service Composition Framework for Self Organizing Ubiquitous Systems	Dr.Furkh Zeshan , Furrukh	computer science	HEC	10-06-2015	Approved & Completed

		Zeeshan				
142	Study of the Effects of <sup>12</sup> C Targets in the Interaction With Intense Antiproton and Ion Beams	Dr Muhammad Hannan Younis	Physics	HEC	28-05-2015	Approved & Completed
143	Laser induced polymerization of acrylates: Synthesis, Characterization and Property exploration	Dr. Asghari Gul	Physics	HEC	15-05-2015	Approved & Completed
144	Fabrication and Functionalization of Nanochannels for Sensing	Dr Waqas Khalid	Physics	HEC	22-02-2016	Approved & Completed
145	Globalization and Technology Diffusion in Developing Economies	Dr. Syeda Tamkeen Fatima	Management Sciences	HEC	30-06-2015	Approved & completed
146	Ab-initio study for prophecy of Half-metallic Ferromagnetism of Half and Full Heusler alloys	Dr. Muhammad Rashid	Physics	HEC	12-10-2015	Approved & completed
147	Biphasic dose response induced by chemicals and their potential molecular mechanisms by human cells	Dr. Muhammad Zaffar Hashmi	Meteorology	HEC	04-01-2016	Approved & completed
148	An evaluation of teaching practicum in B. Ed. Hons/ADE	Dr. Saeed Anwar	Humanities	HEC	15-02-2016	approved & completed
149	Molecular and mechanistic studies of selected medicinal plants for the treatment of hepatitis C virus by inhibiting core gene expression of genotype 3A	Dr. Sidra Rehman	Environmental Sciences	HEC	24-02-2016	Approved & completed
150	Psycholinguistic analysis of the english curriculum taught to the special students	Dr. Muhammad Ayub	Management Sciences	HEC	05-08-2016	approved & completed
151	Evaluation of phytochemical and anti-ulcerogenic activity of dodonea visosa	Dr. Hamid Ali	Biosciences	HEC	06-01-2016	Approved & completed
152	Women Entrepreneurship: The Tool for Sustainable development of Remote Areas. NRP	Dr. Talat Afza CIIT Lhr	Management Sciences	HEC	11-07-2006	Approved & completed

153	Non-Leptonic Mesonic and Baynoic Decays. POCR	Dr. Muhammad Jamil Aslam,, Lecturer,D/o Physics, CIIT Islamabad	Physics	HEC	29-01-2008	Approved & completed
154	Risk Assesment and Decision Analysis using Casual Modeling PO CR.	Dr. Romana Aziz, CIIT, IBD	Computer Science	HEC	15-06-2006	Approved & completed
155	Preparation and Thermophysical Characterization of nano Ferrities. NRPU	Dr. M.Anis-ur Rehman, Associate Prof. D/O, Physics, CIIT, IBD	Physics	HEC	12-03-2008	Approved & Completed
156	Development of Tissue Culture protocols and Methodology for micropropagation of Tea Plant. (CAMILLEASINENSES): through Training Utilizing the Manpower of Post Graduate Students. UITSP	Dr. Asrar Muhammad Khan.	Biosciences	HEC	08-07-2008	Approved & completed
157	Cloning And Secpression fo Human Enzymes Escherica Coli, and Development of High throughput Capillary Electrophoresis and Microchip based Nano Scale test system for Anlysis of Inhibitors. NRPU	Dr. Jamshed Iqbal, Assocate Prof. CIIT ABT	Chemistry	HEC	26-03-2009	Approved & Completed
158	Investigation of oxadiazol, mannich bases derivatives as anti-depressant agents, their synthesis, characterization augmented by molecular modelling studies	Dr. Aliya Ibrar	Chemistry	HEC	01-06-2016	Approved & Completed
159	Protracted displacement from FATA & its impact on deucation of children and adults	Dr. Sohail Ahmad	Humanities	HEC	19-05-2016	Approved & Completed
160	Numerical investigation of particle-laden flow in IC-Egnine	Dr. Shahzad Munir	Mathimatics	HEC	13-06-2016	Approved & Completed



161	Identification and characterization of regulatory T cell stimulatory molecules for their immune therapeutic applications	Dr. Saif ullah	Chemistry	HEC	29-08-2016	Approved & Completed
162	An exploratory study of academic leadership at select universities in Islamabad	Dr. Tehmina Khawaja	Humanities	HEC	21-07-2016	Approved & Completed
163	Statistical signal denoising methods based on multiscale data adaptive techniques	Dr. Naveed Ur Rehman	Electrical Engineering	HEC	29-05-2017	Approved & Completed
164	Bose-Einstein condensation and disordered systems	Dr. Javed Akram	Physics	HEC	28-08-2017	Approved & Completed
165	Forensic Analysis of Digital Images and videow	Dr. Zulfiqar Habib	Computer Science	HEC	28-08-2017	Approved & Completed
166	Application of Random Matrix Theory in High Energy Physics	Dr.Ehtiram Shahaliyev	Physics	HEC	12-11-2012	Approved & Completed
167	Manifestation of Collective Phenomena in Relativistic Hadron-Nucleus and Nucleus Collisions	Dr. Khusniddin Olimov	Physics	HEC	12-10-2012	Approved & Completed
168	Toxic metals signatures and their risks in the food web of River Chenab	Dr. Syed Mustajab Akber Shah Eqani	Biosciences	HEC	01-01-2013	Approved & completed
169	Fabrication of zinc oxide nanorods on waste paper fibers for development of low voltage light emitting wallpaper to replace incandescent bulb	Dr. Aamir Razaq	Physics	HEC	21-06-2013	Approved & completed
170	Enhanced feasibility analysis techniques and novel scheduling policies for multicore system PPCR	Dr. Nasro Min Allah	Computer Science	HEC	01-09-2010	Approved & Completed
171	Establishment of basic research infrastructure to study Pakistan Fiscal policy & political business cycles	Dr. Irem Batool	Management Sciences	HEC	21-06-2013	Approved & completed

172	Development of flexible electrodes with conducting polymer nanocomposites for efficient high redox super capacitor technology	Dr. Farah Alvi	Physics	HEC	14-10-2013	Approved & completed
173	Metabolic activity in pea ( <i>Pisum sativum</i> L) cultivars in combined treatments of K & Na and Varying salinity level	Dr. Muhammad Shahzad	Environmental Sciences	HEC	14-10-2013	Approved & Completed
174	Self Assembly of Sub-100 nm structures using Di-block copolymers	Dr. Abdul Sattar abbasi	Physics	HEC	11-10-2013	Approved & Completed
175	Development of high mobility synthetic bone graft substitutes using polymeric carriers	Dr. Adeel Afzal Dr. Aqif anwar Chaudhry New PI	IRCBM	HEC	15-11-2012	Approved & Completed
176	Sonophotocatalytic degradation of Reactive dye (RB 19) by S-TiO <sub>2</sub> particles in aqueous solutions	Dr. Maria Siddique	Environmental Sciences	HEC	12-10-2012	Approved & Completed
177	Synthesis and electrical characterization of BiFeO <sub>3</sub> 0	Dr. Muhammad Idrees	Chemical Engineering	HEC	14-10-2013	Approved & completed
178	Next generation membranes based on Ionic liquids for CO <sub>2</sub> capture	Dr. Asim Laeeq Khan	Chemical Engineering	HEC	20-11-2013	Approved & completed
179	Isolation and Identification of Bacterial Grazer nematodes: their effect on rhizo-bacterial Communities and Phosphorus uptake by Pine Seedlings	Dr. Usman Irshad	Environmental Sciences	HEC	12-11-2012	Approved & completed
180	Determination of energy and velocity distribution of biophysical molecules in aqueous solution	Dr. Muhammad Kamran	Physics	HEC	24-09-2013	Approved & completed
181	A visualization tool for scientometric, bibliometric, and content analysis of scholarly communications	Dr. Muhammad Salman Khan	Computer Science	HEC	20-11-2013	Approved & completed
182	3-D flow of Non-Newtonian Nanofluids	Dr. Muhammad Awais	Mathematics	HEC	04-10-2014	Approved & Completed

183	Activity pooler: A system for proactive desktop computing	Dr. Hamid Turab Mirza	Computer Science	HEC	10-12-2013	Approved & completed
184	Quantile regression analysis of ponderal index of underweight newborn babies. A case study of Vehari and Multan districts	Dr. Munir Ahmed	Management Sciences	HEC	12-10-2013	approved & Completed
185	Quantification of Phosphorus budget at farm scale. Inflows, outflows and their relative importance in cotton-wheat growing region of Vehari	Dr. Muhammad Nadeem	Environmental Sciences	HEC	01-02-2013	Approved & completed
186	Development of optimal resources allocation techniques for Cognitive radio relay networks	Dr. Guftaar Ahmad Sardar Sidhu	Electrical Engineering	HEC	24-09-2013	Approved & completed
187	Non-leptonic mesonic and bayonic decays	Mr. Muhammad Jamil Aslam	Physics	HEC	09-01-2008	Approved & Completed
188	Development of cloud computing thematic research and educational program PPCR	Dr. Nasro Min Allah	Computer Science	HEC	14-05-2010	Approved & Completed
189	Precision Communication with Entanglement Amplifier. POCR	Dr. Mansoor Ikram	Centre for Quantum Physics	HEC	23-11-2007	Approved & Completed
190	Energy Consideration in Fluid Mechanics" POCR	Dr. Saleem Asghar, Dean, F/o Sciences, CIIT Islamabad	Mathimatics	HEC	05-11-2006	Approved & Completed
191	Numerical methods for incompressible multiphase flows problems PPCR	Dr. Abdullah Shah	Mathimatics	HEC	07-06-2009	Approved & Completed
192	Modeling and Simulation of Chemical Engineering process using spectral methods PPCR	Dr. Ishtiaq Ali	Mathimatics	HEC	01-09-2010	Approved & Completed
193	Grant for maintenance of scientific equipments	Dr. Arshad Pervez	Life Sciences Service Center	HEC	04-10-2010	Approved & Completed
194	" Mitigation of Voltage Sags Using Solar Power Supply.	Dr. Nasrullah Khan	Electrical Engineering	HEC	18-08-2007	Approved & Completed

195	Establishment of a Functional Tissue Culture Facility for the Study of Retroviruses and Retroviral- Induced Disease in Pakistan.	Dr. Farah Mustafa	Biosciences	HEC	11-03-2009	Approved & Completed
196	Grant for maintenance of scientific equipments	Dr. Habib Ali Bokhari	Biosciences	HEC	30-06-2012	Approved & Completed
197	Face Recognition using Directional Filter Bank.	Dr. M. Asmatullah Khan	Electrical Engineering	HEC	28-10-2005	Approved & Completed
198	Minimum Ignition Energy Study of Combustion Fuel Gases.	Dr. Nasrullah Khan	Electrical Engineering	HEC	17-01-2007	Approved & Completed
199	"Search for New Phases of Strongly Interacting Matter.	Dr. Yashar Huseynaliyev	Physics	HEC	07-03-2007	Approved & Completed
200	Growth and Characterization of Magnetic and Semiconductor Nano Particle	Dr. Arshad Saleem Bhatti	Physics	HEC	18-10-2004	Approved & Completed
201	Suggesting Appropriate Method for Forecasting Electricity Demand".	Dr. Majid Hassan Khattak	Mathematics	HEC	05-06-2007	Approved & Completed
202	Exploring the regulatory roles of microRNAs (miRNAs) in drought stress tolerance in triticum aestivum L	Dr. Syed Sarfraz Hussain, Dr. Shahid Nadeem Chohan	Biosciences	HEC	09-08-2007	Approved & Completed
203	Setting up of Bioinformatics Research at the Department of Biosciences.	Dr. Ilham Shahmuradov	Biosciences	HEC	26-07-2007	Approved & Completed
204	Characterization of Loci Responsible for Inherited Eye Anomalies in Families of Pakistan.	Dr. Mohammad Arshad Rafiq	Biosciences	HEC	06-06-2005	Approved & Completed
205	Comparative computer analysis of promoter architecture and expression patterns of plant genes	Dr. Ilham Ayub Shahmuradov	Biosciences	HEC	04-06-2008	Approved & Completed

206	Identification and characterization of ACC deaminase (1-amino cyclopropane-a carboxylic acid deaminase) gene in plant specific growth promotin rhizobacteria	Dr. Fauzia Yousaf Hafeez	Biosciences	HEC	24-11-2006	Approved & Completed
207	Cloning and expression of human enzymes in escherichia coli, and development of high-throughput capillary electrophoresis and microchip based nano test system for analysis of inhibitors	Dr. Jamshed Iqbal	Pharmaceutical Sciences	HEC	26-03-2009	Approved & Completed
208	RNA Interference (SIRNA) as a Treatment for HIV AIDS.	Dr. Abdalla Mohammed Jama	Biosciences	HEC	26-04-2005	Approved & Completed
209	Fabrication & Characterization of II-VI Semiconductors Thin Films	Dr. Nazar Abbas Shah	Physics	HEC	06-08-2008	Approved & Completed
210	Studies on Transmission Mechanism of Antibiotic Resistance from Poultry to Human Population	Dr. Rani Faryal	Biosciences	HEC	21-12-2005	Approved & Completed
211	Convergence of Fourier Spectral Method for Resonant Long-short Nonlinear Wave Interaction.	Dr. Abdur Rashid	Physics	HEC	02-07-2005	Approved & Completed
212	Women Entrepreneurship: The Tool for Sustainable development of Remote Areas.	Dr. Talat Afza	Management Sciences	HEC	11-07-2006	Approved & Completed
213	Removal of Heavy Metals from Waste Water by Sono Electrolysis Process.	Dr. Rubina Farooq	Chemical Engineering	HEC	14-02-2006	Approved & Completed
214	Signature Verification using Velocity-based Directional Filter Bank.	Dr. M. Asmatullah Khan	Electrical Engineering	HEC	29-08-2005	Approved & Completed
215	CIIT Computational Cluster Research Project (CCCRP).	Dr. Faiz M. Ishaq	Computer Science	HEC	09-12-2004	Approved & Completed
216	Formation and characterization of ultra-shallow junctions for the future generations of CMOS nano-electronics	Dr. Ehsanullah Dr. Ahmed Shuja	Physics	HEC	15-04-2006	Approved & Completed

217	Differential Proteomic Analysis of Human Ocular Fluids.	Ms. Asifa Ahmed	Biosciences	HEC	28-09-2006	Approved & Completed
218	Endogenous Growth and Human Capital In Pakistan.	Dr. Qaisar Abbas	Management Sciences	HEC	04-07-2006	Approved & Completed
219	Mapping the Genes Responsible for Autosomal Recessive Retinitis Pigmentosa	Dr. Raheel Qamar	Biosciences	HEC	28-11-2005	Approved & Completed
220	Numerical Techniques for Variational Inequalities and equilibrium Problems under startup Research Grant for Faculty Hired under Foreign Faculty program.	Dr. Muhammad Aslam Noor	Mathimatics	HEC	02-09-2005	Approved & Completed
221	Some Recent Development in Geometric Function theory, under Startup Research Grant for Faculty Hired Under Foreign Faculty Program.	Dr. Khalida Inayat Noor	Mathimatics	HEC	20-09-2005	Approved & Completed
222	Joint COMSATS Institute of Information Technology-George Mason University Initiative in Bio-Informatics PO CR	Dr. S. Habib Bokhari	Biosciences	HEC	20-09-2005	Approved & Completed
223	A study of the Incidence and the extent of the spread of citrus greening in Pakistan using DNA Hybridization and PCR Amplification.	Dr. Shahid Nadeem Chohan	Biosciences	HEC	17-11-2005	Approved & Completed
224	Investigation on the Synthesis, characterization and application of thermoplastic polyurethane elastomers.	Dr. Nasir Mehmood	Chemical Engineering	HEC	20-03-2006	Approved & Completed
225	Nuclear Radiation and its use as A Cure for Health PPCR	Dr. Arshad Saleem Bhatti	Physics	HEC	02/03/2006	Approved & Completed
226	Risk Assessment and Decision Analysis using Casual Modeling PO CR.	Dr. Romana Aziz	Computer Science	HEC	15-06-2006	Approved & Completed

227	Impact of Level of self esteem and Instructor Role in Teaching and classroom Interaction during the Process of Psycho-social and academic development studies of CIIT.	Dr. M. Shoaib Shahid	Management Sciences	HEC	21-12-2006	Approved & Completed
228	Isolation structure elucidation and biological activity of some medical plants belongings to the family lamiaceae and compositae	Dr. Umar Farooq	Environmental Sciences	HEC	07-12-2007	Approved & Completed
229	Snow Estimation in Pakistan for the Assessment of water resources using Remote Sensing Data.	Dr. Mohsin Jamil Butt	Meteorology	HEC	30-04-2004	Approved & Completed
230	Research Support Program for Active Scientists and Technologists of Pakistan	Dr. Qamar Javed	Biosciences	HEC	27-06-2006	Approved & Completed
231	Collaboration for Non-invasive cardiovascular research and development Between CIIT AFIC and Cardiff University, Hospital Cardiff Under POCR	Dr. Mohammad Adnan Khattak CIIT Wah	Computer Science	HEC	26-02-2007	Approved & Completed
232	High Performance Image Processing Using Genetic Algorithms on Auto-Local Balancing Symmetric Multi-Processing Platform.	Dr Sajjad Mohsin	Computer Science	HEC	16-04-2007	Approved & Completed
233	The distribution of huanglongbing (A disease of citrus plants) and its seasonal variations in Pakistan	Dr. Shahid Nadeem Chohan	Biosciences	HEC	24-02-2007	Approved & Completed
234	Study of Properties of Nuclear Matter Under Extreme Conditions.	Dr Mais Suleymanov	Physics	HEC	09-01-2007	Approved & Completed
235	Institutional strengthening an upgradation of library and laboratory	Dr. Sadia Manzoor	Physics	HEC	01-03-2011	Approved & Completed
236	Institutional strengthening an upgradation of library and laboratory	Mr. Nafees ud Din	Library	HEC	30-06-2005	Approved & Completed

237	Strengthening the R & D section of the communication engineering laboratory at the computer engineering dept. CIIT Wah	Dr. Zahid Saleem	Electrical Engineering	HEC	31-08-2006	Approved & Completed
238	Institutional strengthening and upgradation laboratories and libraries department of Biosciences	Dr. Raheel Qamar	Biosciences	HEC	18-03-2006	Approved & Completed
239	Institutional strengthening and upgradation of library and laboratory	Mr. Manzar Abbas	Physics	HEC	05-04-2007	Approved & Completed
240	Growth and Characterization of Semi Conductor and Magnetic Nanocrystals Using Buffer Layer Assisted Growth (ICRIG) POGR	Dr. Arshad Saleem Bhatti	Physics	HEC	04-12-2005	Approved & Completed
241	Evaluation of Heavy Metal-Induced Phytotoxicity and Related Enzyme Activities in Wheat	Dr. Behzad Murtaza	Environmental Sciences	HEC (IPFP)	28-05-2015	Approved & Completed
242	Flight route optimization algorithms for commercial aircrafts software/ algorithm design	Dr. Nadia Nawaz Qadri	Electrical Engineering	NESCOM	07-04-2016	Approved & completed
243	Genetic Analysis of Retinitis Pigmentosa in Pakistani Population	Dr. Raheel Qamar	Biosciences	PAS	30-06-2011	Approved & Completed
244	Genetic Association Studies of Bladder Cancer Patients	Dr. Raheel Qamar	Biosciences	PAS	25-05-2012	Approved & Completed
245	"Numerical Simulation for Flows Involving Viscoelastic Fluids" <b>NRPU</b>	Prof. Dr. Saleem Asghar, D/o Mathematics, CIIT Islamabad	Mathematics	PAS	01-02-2007	Approved & completed
246	Synthesis of Carbon Nanotubes and Carbonated Hydroxyapatite Composites	Dr. Abdul Samad Khan	IRCBM	PSF	06-11-2010	Approved & Completed
247	"Epidemiological Investigation of Pertussis Infection in Pakistan by studying the Distribution of PTX, PRN + FIM alleles.	Dr. Syed Habib Bokhari	Biosciences	PSF	02-04-2007	Approved & Completed



248	" Assessment of Genetic Risk Factors of Glaucoma"	Dr. Raheel Qamar	Biosciences	PSF	09-08-2011	Approved & Completed
249	Machine vision system for visually impaired people	Dr. Mohsin Riaz	CAST	PSF	29-09-2015	Approved & Completed
250	The vulnerability of Pakistan's water sector to the impacts of climate change: identification of gaps and recommendations for action	Dr. Amir Haider Malik, Dr. Toqeer Ahmed, Dr. Saeed Ahmad Asad,	CCRD	UNDP	28-07-2015	Approved & Completed

### Granted Patents

#	Application No	Country	Filing Date	Patent No	Grant Date	Title	Inventor	Applicant/ Assignee	Department
1	14/098067	US	5-Dec-13	91,679,71	27-Oct-15	Heart Murmur extraction and heart impairments identification using fuzzy controller	Dr. Shahid Khattak	CIIT Abbotabad	Electrical Engineering
2	14/041978	US	30-Sep-13	91,692,21	27-Oct-15	Dihydro 1,4-Benzoxazines and method of synthesizing the same using Sulfonium salts	Dr. M. Yar	CIIT Lahore	IRCBM
3	13/049843	US	16-Mar-11	93,404,34	17-May-16	Recovery of Nickel from industrial pickling acid solutions	Dr. Robina Farooq	CIIT Lahore	Chemistry
4	13/918,407	US	14-Jun-13	94,488,05	20-Sep-16	Software controlled data prefetch buffering	Muhammad Yasir Qadri, Nadia Nawaz Qadri, Klaus Dieter McDonald-Maier	CIIT Wah	Electrical Engineering
5	11/953035	US	8-Dec-07	95,120,12	6-Dec-16	Novel sonoelectrolysis for metal removal	Dr. Robina Farooq	CIIT Lahore	Chemistry
6	262/2013	PK	29-Apr-13	142414	2-Mar-17	A novel and efficient synthesis of Dehydro 1, 4-benzoxazines using sulfonium salts.	Dr. M. Yar	CIIT Lahore	IRCBM
7	14/536650	US	9-Nov-14	96,29,055	18-Apr-17	System and method for uninterrupted communication across black spots for multiinterface mobile nodes	Riaz Hussain, Shahzad Ali, Shahid Ahmed Khan	CIIT Islamabad	Electrical Engineering

8	14/844435	US	3-Sep-15	9,634,459	25-Apr-17	Generation of high power pulse-laser using field generated coherence	Dr. Fazal Ghafoor	CIIT Islamabad	Physics
9	14/932195	US	4-Nov-15	9,758,377	12-Sep-17	Extraction of Hydroxyapatite from fish scales employing Ionic liquids	Dr. Farasat, Dr. Nawshad	CIIT Lahore	IRCBM

### Filed Patents

#	Application No	Country	Filing Date	Patent No	Grant Date	Title	Inventor	Applicant/ Assignee	Department
1	13/918,431	US	17-Jun-13			Software controlled instruction prefetch buffering	Muhammad Yasir Qadri, Nadia Nawaz Qadri, Klaus Dieter McDonald-Maier	CIIT Wah	Electrical Engineering
2	154/2014	PK	6-Mar-14			Method for preparing PEGylated Protamine-Recombinant Human Interleukin-24 Nanoparticles	Imran Amirzada, Jian Jin, Jinghua Chen, Jingxiao Chen, Sajid Bashir	CIIT Abbotabad	Pharmacy
3	435/2014	PK	10-Jun-14			Drinking water alert test: An innovative solution to test pathogens in drinking water	Dr. Robina Faoq, Dr. Saleem Farooq	Dr. Robina Faoq, Dr. Saleem Farooq	Chemistry
4	641/2014	PK	15-Sep-14			Bioharvesting of greenhouse gases and renewable energy to biochemicals	Dr. Robina Faoq, Dr. Saleem Farooq	CIIT Lahore	Chemistry
5	424/2015	PK	29-Jun-15			Extraction of Hydroxyapatite from fish scales employing Ionic liquids	Farasat, Nawshad	CIIT Lahore	IRCBM

6	545/2015	PK	25-Aug-15			Synthesis and application of Formaldehyde free Melanine Glutamator	Fahim Qureshi, Rashid Saleem, Ahmad Adnan	CIIT Islamabad, GC Univ. Lhr	ORIC CIIT, Chemistry GCU
7	635/2015	PK	2-Oct-15			Non destructive moisture measurement of single wheat grain using substrate integrated waveguide cavity resonator	Farhan Shafique, Kasif Saeed	CIIT Islamabad	
8	22/2016	PK	11-Jan-16			Catalyst driven optical properties of the self – assembled ZnS nanostructures	Arshad Saleem Bhatti, Muhammad Hafeez, Shania Rehman	CIIT Islamabad	Physics
9	197/2016	PK	6-Apr-16			A Novel Compact Beam Scanning Leaky Wave Antenna	M.Ismail Khan Tarklani, Qaisar Fraz, Dr. Shujat Ali Khan Tanoli	CIIT Attock	Electrical Engineering
10	307/2016	PK	30-May-16			Bioelectrotrophic synthesis of polyhydroxyalkonates from waste molasses and carbon dioxide	Dr. Robina Farooq, Gugan Jabeen	CIIT Lahore	Chemical Engineering
11	339/2016	PK	9-Jun-16			Quantum dots based enzyme linked sandwich immunosorbent assay (QELISA) microfluidic device design for drug level monitoring	Madeeha Chaudhry, Malik Abdul Rehman, Raheel Qamar, Arshad Saleem Bhatti	CIIT Islamabad	Physics, Biosciences

12	370/2016	PK	20-Jun-16			A Square shaped multi slotted 2.45GHz wearable antenna	M. Toaha Raza, Hassan Iftikhar, Nadia Nawaz, Aysha Maryam	CIIT Wah	Electrical Engineering
13	377/2016	PK	22-Jun-16			FPGA based parameterized architecture implementation for SENSE (a Parallel MRI algorithm) reconstruction	M. Faisal Siddiqui, Hammad Omer	CIIT Islamabad	Electrical Engineering
14	378/2016	PK	22-Jun-16			Graphical Processing Unit (GPU) Implementation of Magnetic Resonance Fingerprinting (MRF)	Irfanullah, Hammad Omer	CIIT Islamabad	Electrical Engineering
15	379/2016	PK	22-Jun-16			GPU based Implementation of SENSE (a Parallel MRI algorithm) using Left Inverse Method	Hassan Shahzad, Irfanullah, Hammad Omer	CIIT Islamabad	Electrical Engineering
16	380/2016	PK	22-Jun-16			GPU based Implementation of SENSE (a Parallel MRI algorithm) using QR Decomposition	Hassan Shahzad, Irfanullah, Hammad Omer	CIIT Islamabad	Electrical Engineering
17	15/243,184	US	22-Aug-16			Synthesis and application of Formaldehyde free Melanine Glutamate	Fahim Qureshi, Rashid Saleem, Ahmad Adnan	CIIT Islamabad, GC Univ. Lhr	ORIC CIIT, Chemistry GCU
18	520/2016	PK	24-Aug-16			Sn doped ZnS nanowires for white light source material	Dr. Arshad Saleem Bhatti, Uzma Nosheen, Liaquat Aziz and Nashmia Sabih	CIIT Islamabad	Physics

19	617/2016	PK	7-Oct-16			Polymer Nanocomposite Comprising of Polyhydroxyalkanoates Reinforced with The Surface Modified/Functionalized Phyllosilicate	Farah Masood, Tariq Yasin, Abdul Hameed	CIIT Islamabad	Biosciences CIIT, Metallurgy and materials PIEAS, SACIRBS IIUI
20	727/2016	PK	18-Nov-16			Biocompatible hemostatic water soluble chitosan material and preparation thereof	Dr. Muhammad Yar, Lubna Shahzadi	CIIT Lahore	IRCBM Lahore
21	15/401803	US	9-Jan-17			Method for the synthesis of catalyst self-doped ZnS nanostructures	Arshad Saleem Bhatti, Muhammad Hafeez, Shania Rehman	CIIT Islamabad	Physics
22	GB1703656.7	UK	7-Mar-17			Wound healing medicament	Dr. Muhammad Yar	CIIT Lahore, Sheffield Univ. UK	IRCBM
23	134/2017	PK	8-Mar-17			A Frequency and Similar Digraph (FSD) based Urdu Keyboard	Dr. Iftikhar Ahmed Khan, Mr. Waheed Ur Rehman and Dr. Tassawar Iqbal	CIIT Abbotabad	Computer Science
24	15/479,236	US	4-Apr-17			TAPERED MICROSTRIP LEAKY WAVE ANTENNA	M.Ismail Khan Tarklani, Qaisar Fraz, Dr. Shujat Ali Khan Tanoli	CIIT Attock	Electrical Engineering
25	15/587,064	US	4-May-17			Material and Preparation of Biocompatible hemostatic water soluble chitosan	Dr. Muhammad Yar, Lubna Shahzadi	CIIT Lahore	IRCBM Lahore

26	296/2017	PK	24-May-17			Novel Coumarinyl-Thiazole-Sulfonyl conjugate and preparation thereof	Dr. Khalid Rauf, Dr. Aamer Saeed, Dr. Yasser MSA Alkahraman (Syrian)	CIIT Abbotabad, QAU	Pharmacy CIIT, Chemistry QAU
27	15/619,096	US	9-Jun-17			Quantum dots based enzyme linked sandwich immunosorbent assay (QELISA) microfluidic device design for drug level monitoring	Madeeha Chaudhry, Malik Abdul Rehman, Raheel Qamar, Arshad Saleem Bhatti	CIIT Islamabad	Physics, Biosciences
28	15/626,536	US	19-Jun-17			A Square shaped multi slotted 2.45GHz wearable antenna	M. Toaha Raza, Hassan Iftikhar, Nadia Nawaz, Aysha Maryam	CIIT Wah	Electrical Engineering
29	15/626,760	US	19-Jun-17			FPGA based parameterized architecture implementation for SENSE (a Parallel MRI algorithm) reconstruction	M. Faisal Siddiqui, Hammad Omer	CIIT Islamabad	Electrical Engineering
30	15/627,605	US	20-Jun-17			GPU based Implementation of SENSE (a Parallel MRI algorithm) using QR Decomposition	Hassan Shahzad, Irfanullah, Hammad Omer	CIIT Islamabad	Electrical Engineering
31	15/629,412	US	21-Jun-17			Graphical Processing Unit (GPU) Implementation of Magnetic Resonance Fingerprinting (MRF)	Irfanullah, Hammad Omer	CIIT Islamabad	Electrical Engineering
32	15/629,500	US	21-Jun-17			GPU based Implementation of SENSE (a Parallel MRI algorithm) using Left Inverse Method	Hassan Shahzad, Irfanullah, Hammad Omer	CIIT Islamabad	Electrical Engineering

33	408/2017	PK	24-Jul-17			Colorimetric filter paper assay for rapid monitoring of cholesterol level	Akhtar Hayat, Muhammad Azhar Hayat Nawaz	CIIT Lahore	IRCBM
34	15/683,989	US	23-Aug-17			Sn doped ZnS nanowires for white light source material	Dr. Arshad Saleem Bhatti, Uzma Nosheen, Liaquat Aziz and Nashmia Sabih	CIIT Islamabad	Physics
35	15/783,783	US	13-Oct-17			NOVEL COUMARINYL- THIAZOLE-SULFONYL CONJUGATE AND PREPARATION THEREOF	Dr. Khalid Rauf, Dr. Aamer Saeed, Dr. Yasser MSA Alkahrman (Syrian)	CIIT Abbotabad, QAU	Pharmacy CIIT, Chemistry QAU
36	538/2017	PK	17-Oct-17			Post Quantum Cryptographic Communication Protocol	Iqra Malik, Tanveer Khan, Masoom Alam, Nadeem Javaid, Abid Khan, Adnan Akhunzada	CIIT Islamabad	Computer Science