Sr No	Date of Approval	Department	PI/ Co-PI	Agency	Project Title	Approved Budget	Year
		l		2015			
1	Jun-15	MTS	Dr Shakil R. Sheikh	HEC-SIOP	Energy saving in buildings in Pakistan	500.000	2015
2	Aug-15	CS	Dr.Asad Naeem	ICT R &D	3D Stereoscopic Drone	100.000	2015
3	Aug-15	EE	Anwar Saeed	ICT R &D	Hand Controlled Qua Copter	91.500	2015
4	Aug-15	CS	Saqib Rashid	ICT R &D	E-mail Scheduler	13.750	2015
5	Aug-15	CS	Dr.Asad Naeem	ICT R &D	Car number Plate Recognition	100.000	2015
6	Apr-15	DAME	Dr Jhanzeb	NESCOM	A CFD Study on Dynamic Coefficients of Labyrinth Seals	50.000	2015
7	Apr-15	ME	Dr Nigar	NESCOM	Experimental and Numerical Analysis of Notched Woven Fabric Composites under Compression	50.000	2015
8	Apr-15	IAA	Dr Israr	NESCOM	Implementation of Signal Processing Algorithms on FPGAs for Target Classifications	50.000	2015
9	Apr-15	EE	Dr Fida	NESCOM	Design and Development of Mock up degaussing System	50.000	2015
10	Apr-15	EE	Dr Fida	NESCOM	Magnetic Loop Induction Treatment	50.000	2015

Sr No	Date of Approval	Department	PI/ Co-PI	Agency
				2016
1	May-16	MTS	Dr.Zareena Kausar	SIOP
2	Jun-16	MTS	Dr.Shakil Rehman Shiekh	SIOP
3	Sep-16	EE	ENGR. Ayesha Abbasi	IGNITE
4	Sep-16	MTS	Dr. Noman Naseer	IGNITE
5	Sep-16	MTS	Dr. Muhammad Umer	IGNITE
6	Sep-16	EE	M. Tilal	IGNITE
7	Sep-16	MTS	Engr. Hammad A. Nazir	IGNITE
8	Sep-16	MTS	Engr Akhtar Khurshid	IGNITE
9	Nov-16	DMAE	Dr Jehanzeb Masud	NESCOM
10	26-Dec	DMAE	Dr Israr Hussain	PAC-Kamra

Project Title	Approved Budget	Year
To prepare high school students for college and career (intoduction of Robotics and automation)	1.000.000	2016
Workshops for introducing sustainable energy related technologies to school students	880.000	2016
Design and Development of Grid-Tie Inverter	58.380	2016
Brain Controlled Wheel chair	70.000	2016
UGV Assistance Robot Capable of Manevuering Through Cluttered Environment by means of UAV	70.000	2016
Blind Spot detection system for Vehicles	62.000	2016
Automatic Vehicle Gear Transmission	70.000	2016
Prototype Windmills Power Fluctuation Control Syste,	70.000	2016
Thermal Analysis of Cryogenic Refrigeration using Computional Fluid Dynamics (CFD) assisted Methology	100.000	2016
Multi-Sensor Data Fusion For Tactical Data Link (TDL) in JF-17 Aircraft	980.000	2016

Sr No	Date of Approval	Duration (Months)	Department	PI/ Co-PI	Agency	Project Title	Approved Budget	ORIC Share/AU Share	Year	
11	May-16	9	Physics	Dr.Saima Rafique	SRGP	Gold nanoparticles based electrophoretic discrimination of cancer related point mutations	465.000	7500	2016	
	2017									
1	May-17	24	EE	AVM Saleem Tariq	HEC-ACAD	Strengthening and upgradation of electrical engeneering	3.000.000		2017	
2	Apr-17	36	EE	Dr Syed Ahmed Pasha	NRPU	System Identification of High Dimensional Dynamics Point Process System	1.765.354	304.216	2017	
3	May-17	36	Phy	Dr M Atif	NRPU	Synthesis and characterization of Core Sheel Like Structured Multiferroic Nano-Comosites for Energy Storage Application	9.578.659	1.249.390	2017	
4	Apr-17	30	AUSOM	Dr. Khuram Shehzad	NRPU	Positioning for maximal Gain; how the human welfare output of export processing zones in a developing country's context can be mazimized	1.765.354	230.264	2017	

5	May-17	24	MTS	Dr. M Umer Khan; Co-PI: Dr Zareena Kausar	NRPU	Reconfigurable energy enhanced architecture for efficient utilization of stored energy	1.765.354	272.165	2017
6	Apr-17	12	Physics	Dr Rizwan Akram (PI), Dr. M Atif (COPI)	SRGP	Development of theromelectric materials via modelig,simulation and experimental Approach	459.000	0	2017
7	Aug-17	24	РНҮ	Dr. M Atif	No.TDF-044	Synthesis of ferrites based plymer sheets for radar absorbing applications	13.996.000	4.175.000	2017
8	Jun-17	24	DMAE	Dr. Liaqat Ali Khan	No. TDF- 116	End to end secure communication over voice channel	9,338,00	121.800	2017
9	Dec-17	10	EE	Mummajid-Ul- Mudassir	NESCOM	Detection and Estimation of frequency Hopping Signals	100.000	15.000	2017
10	Jun-17	-	DMAE	Dr Jehanzeb Masud	PAC-Kamra	JF-17 SST Integration Aerodynamics Shape for One Shape (F-7P SST) and Two Pylons	15,00,000	600.000	2017
11	May-17	36	IAA	Dr Israr Hussain	PAF	Design of Tactical adhoc wireless network	500.000	110000	2017
12	Feb-17	36	IAA	Dr Israr Hussain	NCW-TECH	Indigenously Developed wireless Channel Emulator	80.895.129	1143846	2017

13	Feb-17 CS Dr. Asad Naeem	IGNITE	A Novel 3D Automated Live Cricket Batting Coach: Skeletol Joint Aanalysis of Batting Players againts Textbook Cricket Shots by Experts	22.500.000		2017
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Sr No	Date of Approval	Duration (Months)	Department	PI/ Co-PI	Agency	Project Title	Approved Budget	ORIC Share/AU Share	Year
					2018	3			
1	Jun-18	24	MTS	Dr Zareena Kausar	NRPU	Intention based control of prosthetic devices for transhumeral amputee using hybrid signals	7497276	977906	2018
2	Jun-18	24	Phy	Dr Saima Rafique	NRPU	Aptamer Based Label-free Electrochemical Detection of Oral Cancer Gold Nanostructures	3976715	584811	2018
3	Jun-18	36	Phy	Dr. Rubina Nasir	NRPU	Genetic algorithm based methology for solution of coupled ordinary differential equations	8246288	1075603	2018
4	Jun-18	36	Phy	Dr Zulqurnain Ali	NRPU	Multifunctional magneto- electric nanoparticles loaded with anticancer drugs for cancer therapy	8176903	1066553	2018
5	Jun-18	36	Phy	Dr Mozaffar Hussain	NRPU	Structure and properties optimization of resource saving NdFeB based permanent magnets	10343698	1349178	2018
6	Jul-18	24	Phy	Dr Waqas Khalid	NRPU	Electrochemical detection and remediation of contamination in water at Micron level	6.069.102	791622	2018
7	Dec-18	9	cs	Dr. Shireen Tahira	SRGP	Detection and Prevention of SQL Injection Attacks	274.000	0	2018

8	Nov-18	9	CS-Multan	Kaleem Razzaq Malik	SRGP	Methodology to Improve motivating factors in E- Learning Pedagogy	214.900	0	2018
9	Dec-18	10	HUM	Shoaib Sultan	SRGP	Generate Environmental Awarenss among Trainee Teachers in Tertiary Education	355.000	0	2018
10	Nov-18	6	Math	Dr. Sardar Muhammad Bilal	SRGP	Computional analysis of Ferromegnatic nano-fluids	273.994	0	2018
11	Oct-18	12	Math	Dr Waqas Sarwar Abbasi	SRGP	Control of Vortex Shedding and Suppression of Flow Induced Forces Around Bluff Bodies of Square Cross Section Aligned Inline	478.000	0	2018
12	May-18	12	Physics	Dr.Shakeel Mahmood	SRGP	Study of CP Violation in rare decays of Mesons	285.000,000	0	2018
13	Nov-18	24	MTS	Dr. Zareena Kausar	No. TDF02-223	Development of an assistive device for independence and moblity of paraplegic patients	14000000	1.901.250	2018
14	May-18	24	DMAE	Dr. Ibraheem Haneef	No.TDF02-268	Digital Land Mapping for Mega Projects	13.809.000	2.071.350	2018
15	Aug-18	-	CS	Dr Shaharyar Kamal	IGNITE	Android Malware Detect	60.000	-	2018
16	Aug-18	-	cs	M Sajid Riaz	IGNITE	Sign language translation info text & speech using motion device	50.000	-	2018
17	Aug-18	_	CS	Syed Atif Muqarrab	IGNITE	AU Classroom	60.000	-	2018

18	Aug-18	-	MTS	Dr Zafarullah Koreshi	IGNITE	Thermoelectric Incubator	70.000	-	2018
19	Aug-18	-	MTS	Dr Rana Iqtidar Shakoor	IGNITE	Design & Development of Real Time Gyro-Stabilized Platform	70.000	_	2018
20	Aug-18	-	MTS	Syed Hammad Nazeer	IGNITE	Design and Fabrication of FNIRS Machine for Data Acquisition from Human Brain	70.000	-	2018
21	Aug-18	-	MTS	Dr Noman Naseer	IGNITE	Embedded System for Automatic Detection of Heart Disease using ECG machine	70.000	_	2018
22	Aug-18	ı	EE	Mr. Adnan Jafar	IGNITE	Self Balancing Bicycle	78300	_	2018
23	Aug-18	-	EE	Ayesha Salman	IGNITE	Mind controlled robot for handicaped people	99.076	-	2018
24	Aug-18	-	EE	Dr Shaharyar Saleem	IGNITE	Virtual reality based 3D survillance system	57.600	_	2018
25	Aug-18	-	EE	Engr Bahman R Alyaei	IGNITE	Multi Source (Solar power using a multi-level inverter, WAPDA Generator) Power System Variable Load and Automated Shifting	70.000	-	2018
26	Dec-18	6	DMAE	Sijal Ahmed (PI) Mr. Irfan Ahmed(CO)	NESCOM	Shape optimization of aero- engine exhaust systmes for thermal signature suppression	150.000	-	2018
27	Dec-18	6	DMAE	Sijal Ahmed	NESCOM	Design Optimization and manufacturing of single stage centrifugal compressor	80.000	-	2018

28	Oct-18	36	DMAE	Dr. Jehanzed Masud	PAF	Store clearance analysis of EBWS with REK in JF 17	1.900.000	760.000	2018
29	Mar-18	36	CS	Dr. Kashif Kifayat	НЕС-РС	National Center in Cyber Security (NCCS)	257.780.000		2018
30	Mar-18	36	MTS	Dr. Rana Iqtidar	HEC-PC	National Center in Robotics & Automation (NCRA)	84.751.000		2018
31	Oct-18	Ongiong	IAA	Dr. Suhail Akhtar	Shaheen Aerotraders (PAF)	Indegenous Development and Testing of Stanag VGA converter Card for I/O level Tester	1.650.000	477.500	2018
32	Jan-18	Completed	HUM	Dr Sham Haider	SRGP	Exploring Students Perception of Access to English in Access Program	280.000	10000	2018
33	Jan-20	Completed	Ausom	Idress Khawaja	OPF	State Art Degree Awarding Institute	1.808.190	725201	2018

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	2019										
1	Jun-19	36	HUM	Dr. Wasima Shahad	NRPU	Development of Corpus (Pak Genetext) and Gender Based Study of Language Through- Based Techniques	1.920.258	250468	2019		
2	Feb-19	9	CS	Dr Iqbal Murtaza	SRGP	Development of a visual cortex inspired network intrusion detection system	155.400	0	2019		
3	Apr-19	9	Math	Dr Muhammad Saqib	SRGP	The development and application of novel algorithm for two dimensional nonlinear algorithm for two dimensional nonlinear burgers Huxley system	311.000	0	2019		
4	Apr-19	9	Math	Dr Iqra Shahzadi	SRGP	Blood flow analysis for bifurcated stenotic artery with hybrid nanofluid	304.000	0	2019		
5	Jun-19	ŀ	MTS	Engr. Atiq ur Rehman	IGNITE	Weather data simulation and experimental calculations of heating and cooling loads	63.920	-	2019		
6	Jun-19	-	MTS	Dr Zareena Kausar	IGNITE	Design and implementation of aeroponic farming	78.600	-	2019		
7	Jun-19	-	MTS	Dr Shakeel Rehman	IGNITE	Design and fabrication of tree plantation drone	80.000	_	2019		
8	Jun-19	-	MTS	Dr Noman Naseer	IGNITE	Design and fabrication of a wearable exoskeleton for power augmentation of arm	80.000	-	2019		
9	Jun-19	-	MTS	Dr Zareena Kausar	IGNITE	Automatic bottle filling/capping system with IOT and SCADA interface	79.500	-	2019		

10	Jun-19	_	EE	Dr.M. Adil Khan	IGNITE	Controlling solar water pump using variable frequency drive by android application	29.240	_	2019
11	Jun-19	1	EE	Mumajjed ul Mudassir	IGNITE	Design and fabrication of 3D scanner and printer	79.874	_	2019
12	Jun-19	ŀ	EE	Dr.Muhammad Adil Khan	IGNITE	Electric vehicle with regenerative braking and battery protection system	69.000	_	2019
13	Jun-19	.1	EE	Dr.M. Adil Khan	IGNITE	Stepper motor controlled automated light sensing photo voltic window blinds	75.000	_	2019
14	Jun-19	-	EE	Dr.Muhammad Adil Khan	IGNITE	Solar power fine dust/smoke removal system using cockroft walton circuit	60.300	_	2019
15	Jun-19	1	EE	Dr.Muhammad Adil Khan	IGNITE	Design and implementation of shunt active power filter for power quality	24.600	-	2019
16	Jun-19	1	EE	Dr.Shahryar Saleem	IGNITE	Design, implementation and characterization of constant temperature anemometry circuits for MEMS wall shear stress sensor	76.180	_	2019
17	Jun-19	-	EE	Dr.Muhammad Adil Khan	IGNITE	Hybrid electric vehicle	77.000	_	2019
18	Jun-19	-	EE	Dr.Shahryar Saleem	IGNITE	Glove for blind people	24.787	_	2019
19	Jun-19	Ι	EE	Engr. Atiq ur Rehman	IGNITE	Guidance and monitoring system for AU parking	80.000	_	2019
20	Jun-19	-	CS	Mr. Imran Ihsan	IGNITE	Fallup' fall risk assessment and prediction based on gait analysis	58.000	_	2019
21	Jun-19	-	CS	Dr. Kashif Kifayat	IGNITE	Developing a proof of concept of search and locate drone swarm for disaster hit areas in Pakistan	80.000	_	2019

22	Jun-19	-	CS	Mr. Imran Ihsan	IGNITE	Glucoguard	55.000	_	2019
23	Jun-19	-	CS	Mr. Imran Ihsan	IGNITE	Grand training auto	70.000	_	2019
24	Jun-19	_	CS	Mr. Imran Ihsan	IGNITE	Blind Eye	65.544	_	2019
25	Jan-19	8	DMAE	Dr Jehanzeb Masud	NESCOM	Thermal Analysis of Cryogenic Refrigeration using Computional Fluid Dynamics (CFD) assisted Methology	100.000	_	2019
26	Jan-19	10	EE	Mummajid-Ul- Mudassir	NESCOM	Task Management, Self Test & Diagnostics of Warehouse Robotic Network	40.000	-	2019
27	May-19	Completed	DMAE	Dr. Jehanzed Masud	PAF	JF-17Supersonic Drop Tank Analysis	1.500.000	600.000	2019