NGIRI 2020
LIST OF APPROVED FYP

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
1	Abasyn University	Islamabad	Electrical Engineering	NGIRI-2020-6339	RISCV Based CNN Accelrator on FPGA	48,500	-	48,500
2	Abasyn University	Islamabad	Electrical Engineering	NGIRI-2020-6246	Development of MIMO Antenna System for Mobile Handset Application	39,700	8,000	47,700
3	Abasyn University	Islamabad	Electrical Engineering	NGIRI-2020-4971	Power Generation Using Piezoelectric Material	34,460	-	34,460
4	Abbottabad University of Science And Technology	Havelian	Computer Science & IT	NGIRI-2020-4206	Gas Leakage detector	6,750	3,000	9,750
5	Abbottabad University of Science And Technology	Havelian	Computer Science & IT	NGIRI-2020-5219	Smart Dustbin	2,550	-	2,550
6	Abbottabad University of Science And Technology	Havelian	Information Technology	NGIRI-2020-4399	Traffic control system for emergency vehicle	68,000	-	68,000
7	Abbottabad University of Science And Technology	Havelian	Information Technology	NGIRI-2020-4178	Smart Parking System for AUST	50,000	-	50,000
8	Abdul Wali Khan University	Mardan	Computer Science	NGIRI-2020-4484	Smart Air Pollution Monitoring System thorough Internet of Things for Smart Cities	68,695	10,000	78,695
9	Abdul Wali Khan University	Mardan	Computer Science	NGIRI-2020-4923	IoT based Intelligent Room System	56,330	8,900	65,230
10	Air University	Islamabad	Computer Science	NGIRI-2020-4869	Water Flow Monitoring System	20,100	10,000	30,100
11	Air University	Islamabad	Electrical Engineering	NGIRI-2020-4018	Navigational Aid for Blind People	69,920	10,000	79,920
12	Air University	Islamabad	Electrical Engineering	NGIRI-2020-3188	Design and Development of Multilevel-Inverter Based On Heuristic Computational Methods	62,250	10,000	72,250
13	Air University	Islamabad	Electrical Engineering	NGIRI-2020-3865	Frequency Controlled Refrigeration	30,100	1,900	32,000
14	Air University	Islamabad	Electrical Engineering	NGIRI-2020-4004	EMG Based Wheel Chair	39,500	10,000	49,500
15	Air University	Islamabad	Electrical Engineering	NGIRI-2020-4040	Self Balancing and Tracking Robot	38,000	-	38,000

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
16	Air University	Islamabad	Electrical Power Engineering	NGIRI-2020-6119	Self invigorated countinous Recharging Electrical vehicle's safety & Accident Avoidance system	50,000	500	50,500
17	Air University	Islamabad	Electrical Power Engineering	NGIRI-2020-5236	Super capacitor or Lithium ion hybrid energy and its Fast charging system	62,780	5,000	67,780
18	Air University	Islamabad	Electrical/Electronics Engineering	NGIRI-2020-4166	Fetal Heart Rate Monitoring	63,997	10,000	73,997
19	Air University	Islamabad	Electrical/Electronics Engineering	NGIRI-2020-6213	Implementation of Object detection and Avoidance Algorithm on FPGA A step towards Autonomous Vehicles	70,000	-	70,000
20	Air University	Islamabad	Electrical/Electronics Engineering	NGIRI-2020-3496	SCADA Based Water Filtering and Supply System	35,845	4,070	39,915
21	Air University	Islamabad	Electrical/Electronics Engineering	NGIRI-2020-3408	Three dimensional printer based on LCD shadow masking technique	40,000	10,000	50,000
22	Air University	Islamabad	Mechanical Engineering	NGIRI-2020-4578	Design and fabrication of Canal top solar panel system	66,160	10,000	76,160
23	Air University	Islamabad	Mechanical Engineering	NGIRI-2020-4237	Design and Fabrication of Re entry Recovery Mechanism of a Nanosatellite	66,504	10,000	76,504
24	Air University	Islamabad	Mechanical Engineering	NGIRI-2020-5248	Mechanical design and fabrication of stage separation mechanism for a sounding rocket	69,000	10,000	79,000
25	Air University	Islamabad	Mechanical Engineering	NGIRI-2020-4238	Design and Analysis of Pseudo Direct Drive	38,800	5,000	43,800
26	Air University	Islamabad	Mechatronics Engineering	NGIRI-2020-3795	Dairy Automation and Data logging	70,000	10,000	80,000
27	Air University	Islamabad	Mechatronics Engineering	NGIRI-2020-4610	Design with Fabrication and control implementation of lower limb Exoskeleton	70,000	10,000	80,000
28	Air University	Islamabad	Mechatronics Engineering	NGIRI-2020-4622	IOT based Machine Condition Monitoring Through Vibration Analysis	70,000	10,000	80,000
29	Air University	Islamabad	Mechatronics Engineering	NGIRI-2020-4679	Design, modelling and manufacturing of a Paint robot will be used in automotive industry	70,000	10,000	80,000
30	Air University	Islamabad	Mechatronics Engineering	NGIRI-2020-4740	IOT Based Coal Mine Safety Monitoring and Alerting System	70,000	10,000	80,000

NGIRI 2020
LIST OF APPROVED FYP

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
31	Air University	Islamabad	Telecom Engineering	NGIRI-2020-4820	Smart helmet for Ignition of bike and emergency contact	40,600	-	40,600
32	Air University	Multan	Computer Science	NGIRI-2020-3775	Agriculture assistance android app	5,500	4,500	10,000
33	Air University	Multan	Computer Science	NGIRI-2020-4177	Android based application for First Aid emergency Responder	19,305	10,000	29,305
34	Air University	Multan	Computer Science	NGIRI-2020-3661	Vehicle accident detection and prevention system using IOT	17,800	400	18,200
35	Air University	Multan	Computer Science	NGIRI-2020-4193	Autonomous robotic car	12,830	1,700	14,530
36	Al-Hamd Islamic University	Quetta	Computer Science	NGIRI-2020-5829	Four way intelligent traffic control system	55,000	10,000	65,000
37	Army Public College of Management and Sciences	Rawalpindi	Electrical Engineering	NGIRI-2020-3641	Design of 2-Wheels Self- Balancing Robot using RF Module	65,880	9,600	75,480
38	Army Public College of Management and Sciences	Rawalpindi	Electrical Engineering	NGIRI-2020-4296	Designing and Development of an Electric Car	69,400	10,000	79,400
39	Army Public College of Management and Sciences	Rawalpindi	Electrical Engineering	NGIRI-2020-3515	Energy Management System for optimization of cost and dis-connectivity of load	43,749	3,850	47,599
40	Army Public College of Management and Sciences	Rawalpindi	Electrical Engineering	NGIRI-2020-4778	Non Invasive Vein Visualization device	69,500	-	69,500
41	Army Public College of Management and Sciences	Rawalpindi	Electrical Engineering	NGIRI-2020-4606	Pump Storage Hydro electric System as an alternative to UPS battery	57,000	-	57,000
42	Army Public College of Management and Sciences	Rawalpindi	Electrical/Electronics Engineering	NGIRI-2020-3720	Cane Robot for Assistance in Walking and Prevention of Falling and Stumbling	68,380	-	68,380
43	Army Public College of Management and Sciences	Rawalpindi	Electrical/Electronics Engineering	NGIRI-2020-5714	Smart Home	42,085	10,000	52,085
44	Army Public College of Management and Sciences	Rawalpindi	Electrical/Electronics Engineering	NGIRI-2020-4728	Gesture Based Ac Load Control	48,580	-	48,580
45	Army Public College of Management and Sciences	Rawalpindi	Electrical/Electronics Engineering	NGIRI-2020-6197	Smart energy metering and over load detection using Arduino and GSM	14,399	2,500	16,899

NGIRI 2020
LIST OF APPROVED FYP

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
46	Army Public College of Management and Sciences	Rawalpindi	Electrical/Electronics Engineering	NGIRI-2020-3233	GPS Jammer	-	-	-
47	Bahauddin Zakariya University	Main	Electrical Engineering	NGIRI-2020-3753	Design of foot step Power Generation System	66,174	9,000	75,174
48	Bahauddin Zakariya University	Main	Electrical Power Engineering	NGIRI-2020-5456	Energy harvesting through Piezo smart sensors	70,000	9,250	79,250
49	Bahauddin Zakariya University	Main	Engineering and Sciences	NGIRI-2020-3957	Capsicum Harvesting Robot in Green Houses	41,520	-	41,520
50	Bahria University	Islamabad	Computer Engineering	NGIRI-2020-5536	Smart Remote Parental Control	12,500	1,800	14,300
51	Bahria University	Islamabad	Computer Engineering	NGIRI-2020-5572	Vehicle Detection, Speed Monitoring and Classification From Video Stream	47,000	6,600	53,600
52	Bahria University	Islamabad	Computer Engineering	NGIRI-2020-5845	Plant Disease Detection Robot	28,720	9,000	37,720
53	Bahria University	Islamabad	Computer Engineering	NGIRI-2020-5809	Off Road Terrain Unmanned Seed Sowing Ground Vehicle	68,280	9,505	77,785
54	Bahria University	Islamabad	Computer Engineering	NGIRI-2020-5841	Remote Admin and Point of Sale	-	8,100	8,100
55	Bahria University	Islamabad	Computer Science & IT	NGIRI-2020-5646	People Recognition in Videos	60,000	1,000	61,000
56	Bahria University	Islamabad	Computer Science & IT	NGIRI-2020-5773	Tuition Bridge	-	10,000	10,000
57	Bahria University	Islamabad	Electrical Engineering	NGIRI-2020-5104	Signal Processing of X-band FMCW radar for infestation Monitoring of grain silos	10,800	4,200	15,000
58	Bahria University	Islamabad	Electrical Engineering	NGIRI-2020-3442	Self Balancing Bicycle	69,935	9,000	78,935
59	Bahria University	Islamabad	Electrical Engineering	NGIRI-2020-3417	Vein Illuminator	46,505	7,000	53,505
60	Bahria University	Islamabad	Electrical Engineering	NGIRI-2020-3144	Cognitive Vision System	14,100	6,000	20,100

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
61	Bahria University	Islamabad	Electrical Engineering	NGIRI-2020-4802	De-Sulphation of Lead Acid batteries using high current pulsating technique	33,455	10,000	43,455
62	Bahria University	Islamabad	Electrical/Electronics Engineering	NGIRI-2020-4362	Reconfigurable Modulator/Demodulator	37,000	10,000	47,000
63	Bahria University	Islamabad	Software Engineering	NGIRI-2020-5899	SafeLife	-	4,800	4,800
64	Bahria University	Islamabad	Software Engineering	NGIRI-2020-6073	VR Trainer	70,000	7,000	77,000
65	Bahria University	Islamabad	Software Engineering	NGIRI-2020-5897	Automatic Car Seat Adjustment	2,000	-	2,000
66	Bahria University	Islamabad	Telecom Engineering	NGIRI-2020-3344	Blockchain based smart logistics management system	50,900	10,000	60,900
67	Bahria University	Karachi	Computer Engineering	NGIRI-2020-3811	Data communication using lifi	7,670	1,310	8,980
68	Bahria University	Karachi	Computer Engineering	NGIRI-2020-4400	ROV Underwater Drone	65,480	9,000	74,480
69	Bahria University	Karachi	Computer Engineering	NGIRI-2020-3998	Wearable Smart device for Visually impaired people	15,070	-	15,070
70	Bahria University	Karachi	Computer Engineering	NGIRI-2020-3766	Smart Glove for Hearing and Speech Impaired	22,451	-	22,451
71	Bahria University	Karachi	Computer Science	NGIRI-2020-3878	Physical Exercise Humanoid Robot	68,450	10,000	78,450
72	Bahria University	Karachi	Computer Science	NGIRI-2020-4786	Action Recognition for Depression Assessment Using Deep Learning	70,000	10,000	80,000
73	Bahria University	Karachi	Computer Science	NGIRI-2020-4640	Depression Detector Chatbot	-	10,000	10,000
74	Bahria University	Karachi	Computer Science	NGIRI-2020-4501	YOGGUIDE: Detecting, Recognizing and Tracking Yoga Poses Using Vision Techniques	35,000	7,500	42,500
75	Bahria University	Karachi	Computer Science	NGIRI-2020-4528	Fashionable Social Robot	69,300	10,000	79,300

NGIRI 2020
LIST OF APPROVED FYP

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
76	Bahria University	Karachi	Computer Science & IT	NGIRI-2020-4330	Brainâ€"Computer Interface (BCI)-Controlled Unmanned Aerial Vehicle (UAV)	69,900	9,000	78,900
77	Bahria University	Karachi	Electrical Engineering	NGIRI-2020-4665	Hydrophobic Coating Development for HV (High Voltage) Insulators and Aging Analysis By Artificial Chamber	41,917	9,283	51,200
78	Bahria University	Karachi	Electrical Engineering	NGIRI-2020-6279	Automatic glass bangle flattening and weldong machine	54,400	-	54,400
79	Bahria University	Karachi	Electrical Engineering	NGIRI-2020-4758	Automated Warehouse System	63,525	10,000	73,525
80	Bahria University	Karachi	Electrical/Electronics Engineering	NGIRI-2020-3591	MedicAir	68,500	-	68,500
81	Bahria University	Karachi	Software Engineering	NGIRI-2020-4014	IoT Based Mobile Application for detecting and monitoring hazardous gases	64,627	4,410	69,037
82	Bahria University	Karachi	Software Engineering	NGIRI-2020-6330	3D Medical Assistant for Dentist	60,000	-	60,000
83	Bahria University	Karachi	Software Engineering	NGIRI-2020-4948	Real Time Billboard Tracking System for Business Intelligence	11,000	-	11,000
84	Bahria University	Karachi	Software Engineering	NGIRI-2020-5958	Shifayaab	4,000	5,000	9,000
85	Bahria University	Karachi	Software Engineering	NGIRI-2020-5652	User drawn diagram interpretation	15,000	-	15,000
86	Bahria University	Lahore	Computer Science	NGIRI-2020-5295	Deafie Helper A web based solution for american sign language translation	45,000	-	45,000
87	Bahria University	Lahore	Computer Science	NGIRI-2020-5917	Real Time Assistance To Farmers and Health Sectors	52,980	10,000	62,980
88	Bahria University	Lahore	Computer Science	NGIRI-2020-5218	Identification of Mild Cognitive Impairment Dementia	-	10,000	10,000
89	Bahria University	Lahore	Computer Science	NGIRI-2020-4823	Automated Cyberbullying Detection	69,000	10,000	79,000
90	Bahria University	Lahore	Computer Science	NGIRI-2020-6228	Career Counselling	46,260	10,000	56,260

NGIRI 2020
LIST OF APPROVED FYP

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
91	Bahria University	Lahore	Computer Science & IT	NGIRI-2020-5272	Al-Mua'vin: An Arabic Reading Assistant for Urdu	68,500	2,295	70,795
92	Bahria University	Lahore	Computer Science & IT	NGIRI-2020-5351	Mumathil Similarity Analysis of Bible with Holy Quran	34,500	5,865	40,365
93	Bahria University	Lahore	Computer Science & IT	NGIRI-2020-5880	Augmented Reality Story Book	47,000	3,000	50,000
94	Bahria University	Lahore	Information Technology	NGIRI-2020-3792	Piezo Smart shoes	69,800	-	69,800
95	Balochistan University of Engineering and Information Technology	Khuzdar	Computer Science	NGIRI-2020-4965	Solar Tracking System	69,200	5,000	74,200
96	Balochistan University of Engineering and Information Technology	Khuzdar	Electrical Engineering	NGIRI-2020-5209	Design and Implementation of a Wirelessly Controlled Robotic Hand for Remote Operations	27,050	-	27,050
97	Balochistan University of Engineering and Information Technology	Khuzdar	Electrical Engineering	NGIRI-2020-6451	Implementation of Automatic Transfer Switching for Hybrid Supplies	30,000	4,000	34,000
98	Balochistan University of Engineering and Information Technology	Khuzdar	Electrical Engineering	NGIRI-2020-5616	Vehicle accident detection and rescue information system	19,255	10,000	29,255
99	Balochistan University of Information Technology, Engineering & Management Sciences	Quetta	Computer Engineering	NGIRI-2020-3327	Smart Hydroponic System	19,790	9,000	28,790
100	Balochistan University of Information Technology, Engineering & Management Sciences	Quetta	Computer Science	NGIRI-2020-3317	AgriFarm	69,325	9,700	79,025
101	Balochistan University of Information Technology, Engineering & Management Sciences	Quetta	Electrical Power Engineering	NGIRI-2020-5320	Autonomous Smart Wheelchair	67,100	9,750	76,850
102	Balochistan University of Information Technology, Engineering & Management Sciences	Quetta	Information Technology	NGIRI-2020-4268	Proven: Competitive Social Network	69,940	9,550	79,490
103	Balochistan University of Information Technology, Engineering & Management Sciences	Quetta	Software Engineering	NGIRI-2020-3319	AI Automated CV Analysis	70,000	-	70,000
104	Balochistan University of Information Technology, Engineering & Management Sciences	Quetta	Software Engineering	NGIRI-2020-3287	Migraine Pal	70,000	-	70,000
105	Balochistan University of Information Technology, Engineering & Management Sciences	Quetta	Telecom Engineering	NGIRI-2020-3096	Relay selection in UAV based wireless networks	69,500	10,000	79,500

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
106	Beaconhouse National University	Lahore	Computer Science & IT	NGIRI-2020-4109	Larynx - A Silent Speech Interface	39,360	6,000	45,360
107	Bilquis Postgraduate College For Women	Rawalpindi	Computer Science	NGIRI-2020-4715	Gladiator Tactical Robot	28,900	-	28,900
108	Capital University of Science and Technology	Main	Electrical Engineering	NGIRI-2020-6078	Fault Detection in Monochromatic Garments using Image Processing	67,600	3,000	70,600
109	Capital University of Science and Technology	Main	Electrical Engineering	NGIRI-2020-6022	Flexible AC Transmission by Thyristor Switched Static VAR Compensator	8,420	6,490	14,910
110	Capital University of Science and Technology	Main	Electrical Engineering	NGIRI-2020-5898	Adaptive cruise control through traffic sign recognition	38,730	1,500	40,230
111	Capital University of Science and Technology	Main	Mechanical Engineering	NGIRI-2020-6309	Fluid flow analysis of human heart stent of cardiac patients before and after recovery	70,000	-	70,000
112	Capital University of Science and Technology	Main	Mechanical Engineering	NGIRI-2020-5896	Design and Development of Power Generation System using Pelton Wheel Concepts for Rural Area having Natural Waterfalls and Streams	70,000	-	70,000
113	Capital University of Science and Technology	Main	Mechanical Engineering	NGIRI-2020-6185	Design and fabrication of a prototype of thermal heat storage unit for a commercial building	58,020	10,000	68,020
114	Capital University of Science and Technology	Main	Mechanical Engineering	NGIRI-2020-6357	Design and Fabrication of surface to surface guided rocket	36,300	8,400	44,700
115	Capital University of Science and Technology	Main	Mechanical Engineering	NGIRI-2020-5882	Development of test bench for ejector refrigeration system.	70,000	10,000	80,000
116	CECOS University of IT & Emerging Sciences	Peshawar	Biomedical Engineering	NGIRI-2020-6265	Study on the role of Curcumin in the Prevention of Antipsychotic Drug-Induced Diabetes Mellitus in the Animal Model of Rats	68,800	-	68,800
117	CECOS University of IT & Emerging Sciences	Peshawar	Biomedical Engineering	NGIRI-2020-6101	In Vivo & In Vitro Evaluation of Zinc Oxide & Cobalt-Doped Zinc Oxide Nanoparticles for Lieshmanicidal Activity	53,000	10,000	63,000
118	CECOS University of IT & Emerging Sciences	Peshawar	Computer Science	NGIRI-2020-3529	Shot detection system	56,000	-	56,000
119	CECOS University of IT & Emerging Sciences	Peshawar	Computer Science	NGIRI-2020-6280	Augmented Reality app for Interior Design	64,000	-	64,000
120	CECOS University of IT & Emerging Sciences	Peshawar	Computer Science	NGIRI-2020-5308	Crafts Mongers	60,000	10,000	70,000

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
121	CECOS University of IT & Emerging Sciences	Peshawar	Computer Science & IT	NGIRI-2020-3253	Dual axis solar tracker	16,200	6,000	22,200
122	CECOS University of IT & Emerging Sciences	Peshawar	Computer Science & IT	NGIRI-2020-3849	Autonomous Car using Neural Networks	61,900	3,000	64,900
123	CECOS University of IT & Emerging Sciences	Peshawar	Electrical Engineering	NGIRI-2020-3875	Prosthetic Leg using Flex Sensor	70,000	2,503	72,503
124	CECOS University of IT & Emerging Sciences	Peshawar	Electrical Engineering	NGIRI-2020-3703	Analysis of Dual Renewable Energy System With Integration in Conventional Power	61,870	8,500	70,370
125	CECOS University of IT & Emerging Sciences	Peshawar	Electrical Engineering	NGIRI-2020-3890	Load Stability Robot	43,270	9,600	52,870
126	CECOS University of IT & Emerging Sciences	Peshawar	Electrical Engineering	NGIRI-2020-3913	Camera stabilizer using PID controller	12,340	-	12,340
127	CECOS University of IT & Emerging Sciences	Peshawar	Electrical Engineering	NGIRI-2020-4596	Hardware Realization of bidirectional DC-DC Converter	54,800	10,000	64,800
128	CECOS University of IT & Emerging Sciences	Peshawar	Engineering and Sciences	NGIRI-2020-4609	Design Efficiency through BIM	60,800	10,000	70,800
129	CECOS University of IT & Emerging Sciences	Peshawar	Mechanical Engineering	NGIRI-2020-4274	Design and Manufacturing of Automated Seed Planter	69,950	7,000	76,950
130	CECOS University of IT & Emerging Sciences	Peshawar	Science & Technology	NGIRI-2020-6322	Eco toxicology and Genotoxicity of Metal Nano particles	-	-	-
131	CECOS University of IT & Emerging Sciences	Peshawar	Software Engineering	NGIRI-2020-6152	Ambulance reservation respondent and route selection through GPS and GSM system	19,200	9,500	28,700
132	City University of Science & Information Technology	Peshawar	Computer Science	NGIRI-2020-3267	An IOT Base Electricity Breakdown Solution	62,030	10,000	72,030
133	City University of Science & Information Technology	Peshawar	Computer System	NGIRI-2020-3989	Safe To Drink	53,800	7,850	61,650
134	City University of Science & Information Technology	Peshawar	Electrical	NGIRI-2020-3747	Automated Prosthetic Limb	54,100	10,000	64,100
135	City University of Science & Information Technology	Peshawar	Electrical Engineering	NGIRI-2020-4186	Electrical Bicycle System	40,500	1,000	41,500

NGIRI 2020
LIST OF APPROVED FYP

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
136	City University of Science & Information Technology	Peshawar	Electrical Engineering	NGIRI-2020-3626	Face Recognition Based Door Lock System using Raspberry Pi	10,120	2,400	12,520
137	City University of Science & Information Technology	Peshawar	Electrical Power Engineering	NGIRI-2020-3934	Automatic seed sowing machine using solar panal	15,555	6,750	22,305
138	City University of Science & Information Technology	Peshawar	Software Engineering	NGIRI-2020-3186	Forest Sensor Network	68,200	10,000	78,200
139	COMSATS University of Information Technology	Abbottabad	Computer Science	NGIRI-2020-5542	Aerial and ground robots coordination for plants mointoring	70,000	9,500	79,500
140	COMSATS University of Information Technology	Abbottabad	Computer Science	NGIRI-2020-6187	Deforestation Detection System	16,300	-	16,300
141	COMSATS University of Information Technology	Abbottabad	Electrical Power Engineering	NGIRI-2020-4080	Throttle Based E bicycle Controller Design	70,000	10,000	80,000
142	COMSATS University of Information Technology	Abbottabad	Electrical Power Engineering	NGIRI-2020-3915	Intelligent Smart Metering System	19,650	2,500	22,150
143	COMSATS University of Information Technology	Abbottabad	Electrical Power Engineering	NGIRI-2020-3536	Design and Development of Photo-voltaic (PV) Cleaning Robot	23,910	5,010	28,920
144	COMSATS University of Information Technology	Attock	Computer Engineering	NGIRI-2020-5457	Forest Fire Detection Using Zigbee	62,800	6,000	68,800
145	COMSATS University of Information Technology	Attock	Computer Engineering	NGIRI-2020-5438	Development of Surveillance Framework for Person Localization and Recognition in UAV Images	59,850	10,000	69,850
146	COMSATS University of Information Technology	Attock	Computer Engineering	NGIRI-2020-5426	Obstacle Detection and Avoidance for Efficient UAV Path Planning	59,850	10,000	69,850
147	COMSATS University of Information Technology	Attock	Computer Science	NGIRI-2020-4543	Human Activity Recognition for Health Care using Deep Learning	62,800	8,000	70,800
148	COMSATS University of Information Technology	Attock	Computer Science	NGIRI-2020-5362	Computer Aided Diagnostic System for Apple plant based on IoT	67,800	10,000	77,800
149	COMSATS University of Information Technology	Attock	Computer Science	NGIRI-2020-3987	Fish inhabitate control system IOT ultimate Fishing Guide	67,030	10,000	77,030
150	COMSATS University of Information Technology	Attock	Computer Science	NGIRI-2020-4762	Smart Bank Locker base on IOT and IRIS	70,000	6,000	76,000

NGIRI 2020
LIST OF APPROVED FYP

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
151	COMSATS University of Information Technology	Attock	Computer Science	NGIRI-2020-3022	Real time traffic monitoring system	70,000	10,000	80,000
152	COMSATS University of Information Technology	Attock	Electrical Engineering	NGIRI-2020-5063	Wind Energy Harvester for Vehicles' Battery Charging	43,430	6,130	49,560
153	COMSATS University of Information Technology	Attock	Electrical Engineering	NGIRI-2020-5302	Railway traffic accident detection and prevention system	36,670	-	36,670
154	COMSATS University of Information Technology	Attock	Electrical Engineering	NGIRI-2020-5453	Body area sensor network for gesture recognition of autism disorder children	57,500	10,000	67,500
155	COMSATS University of Information Technology	Attock	Electrical Engineering	NGIRI-2020-5534	Scavenging Energy Via Human Walking	51,800	5,400	57,200
156	COMSATS University of Information Technology	Attock	Electrical Engineering	NGIRI-2020-5501	Building Automation System Using PLC and SCADA	34,000	8,750	42,750
157	COMSATS University of Information Technology	Attock	Software Engineering	NGIRI-2020-3859	USOOL	69,000	-	69,000
158	COMSATS University of Information Technology	Lahore	Computer Engineering	NGIRI-2020-3483	Non-Intrusive Load Monitoring (NILM) based Smart Energy Management System for Households	48,400	10,000	58,400
159	COMSATS University of Information Technology	Lahore	Computer Engineering	NGIRI-2020-3171	Autonomous Navigation Robot	65,900	1,500	67,400
160	COMSATS University of Information Technology	Lahore	Computer Engineering	NGIRI-2020-6328	3-Dof Motion based Car Driving Simulator Platform	69,898	9,999	79,897
161	COMSATS University of Information Technology	Lahore	Computer Engineering	NGIRI-2020-4047	Rehabilitative Stroke Robot for Physiotherapy	61,750	10,000	71,750
162	COMSATS University of Information Technology	Lahore	Computer Engineering	NGIRI-2020-5313	Detection and Classification of Activities of Daily Living Through EEG	70,000	10,000	80,000
163	COMSATS University of Information Technology	Lahore	Computer Science	NGIRI-2020-4614	Adaptive Traffic Signal Management Using Machine Learning	70,000	10,000	80,000
164	COMSATS University of Information Technology	Lahore	Computer Science	NGIRI-2020-5401	mVitals An intelligent Edge Computing Based Wireless Mobile Healthcare System	70,000	10,000	80,000
165	COMSATS University of Information Technology	Lahore	Computer Science	NGIRI-2020-4696	Live Bus	25,350	7,500	32,850

NGIRI 2020
LIST OF APPROVED FYP

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
166	COMSATS University of Information Technology	Lahore	Computer Science	NGIRI-2020-4293	Surveilia	68,013	6,500	74,513
167	COMSATS University of Information Technology	Lahore	Computer Science	NGIRI-2020-4224	Wearable Recognition Using Artificial Intelligence	70,000	-	70,000
168	COMSATS University of Information Technology	Lahore	Electrical	NGIRI-2020-3129	Demand Side Energy Management System for Household Appliances	48,450	1,500	49,950
169	COMSATS University of Information Technology	Lahore	Electrical	NGIRI-2020-3592	Design and Development of Interactive Mirror with Facial Recognition for Aware Home	49,000	8,000	57,000
170	COMSATS University of Information Technology	Lahore	Electrical Engineering	NGIRI-2020-3459	Smart Farming Based Decision Support System for Optimum Potato Yield	44,900	500	45,400
171	COMSATS University of Information Technology	Lahore	Electrical Engineering	NGIRI-2020-3136	Semi Automated Blood Chemistry Analyzer	60,000	-	60,000
172	COMSATS University of Information Technology	Lahore	Electrical Engineering	NGIRI-2020-5405	Smart Residential Buildings Energy Management System	69,400	6,000	75,400
173	COMSATS University of Information Technology	Lahore	Electrical Engineering	NGIRI-2020-3481	Smart Irrigation System Using Wireless Sensors Network	17,915	-	17,915
174	COMSATS University of Information Technology	Lahore	Electrical Engineering	NGIRI-2020-3963	Futuristic Autonomous Car	41,092	4,500	45,592
175	COMSATS University of Information Technology	Lahore	Electrical/Electronics Engineering	NGIRI-2020-5237	E Power Hybrid Bike	70,000	9,500	79,500
176	COMSATS University of Information Technology	Lahore	Electrical/Electronics Engineering	NGIRI-2020-5301	Permanent Magnet Based Efficient Electric Generator	35,000	10,000	45,000
177	COMSATS University of Information Technology	Main	Computer Science	NGIRI-2020-5260	Cow Monitoring System	16,820	9,700	26,520
178	COMSATS University of Information Technology	Main	Computer Science	NGIRI-2020-3877	Revenue Computation System for Toll Plazas on Highways	26,800	9,200	36,000
179	COMSATS University of Information Technology	Main	Computer Science	NGIRI-2020-3421	Aeromon Quadcopter Digital Twin	64,000	9,500	73,500
180	COMSATS University of Information Technology	Main	Electrical Engineering	NGIRI-2020-3061	Vibration Isolators based Energy harvesting Device for IOT Nodes	60,400	10,000	70,400

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
181	COMSATS University of Information Technology	Sahiwal	Bio-Informatics	NGIRI-2020-6167	Text mining approach applied to reveal PiRNA and disease Associations	70,000	-	70,000
182	COMSATS University of Information Technology	Sahiwal	Computer Science	NGIRI-2020-5654	Water Qaulity Monitoring and Purification System	13,500	1,000	14,500
183	COMSATS University of Information Technology	Sahiwal	Computer Science	NGIRI-2020-3048	IOT Based Smart Agriculture and Irrigation System	39,350	1,000	40,350
184	COMSATS University of Information Technology	Sahiwal	Electrical Engineering	NGIRI-2020-5770	Walking Robot	9,900	9,000	18,900
185	COMSATS University of Information Technology	Sahiwal	Electrical Engineering	NGIRI-2020-6137	Controlled Cleaning Robot with hand gesture movement	11,900	1,300	13,200
186	COMSATS University of Information Technology	Sahiwal	Electrical Engineering	NGIRI-2020-6134	Smart phone operated multipurpose agriculture robot	40,950	-	40,950
187	COMSATS University of Information Technology	Sahiwal	Electrical Engineering	NGIRI-2020-5783	Extraction of human facial portrait from mind using EEG signal processing and deep learning	18,000	-	18,000
188	COMSATS University of Information Technology	Sahiwal	Electrical Engineering	NGIRI-2020-6129	Warehouse Automation Robot	31,320	1,000	32,320
189	COMSATS University of Information Technology	Sahiwal	Mechanical Engineering	NGIRI-2020-6030	Design and Fabrication of Automated Digital Bomb Calorimeter for Measuring Calorific Values of Different Fuels	54,100	10,000	64,100
190	COMSATS University of Information Technology	Wah	Electrical Engineering	NGIRI-2020-3824	Communication through EEG for Disable and Mute People	36,611	-	36,611
191	COMSATS University of Information Technology	Wah	Electrical Engineering	NGIRI-2020-3759	Ambient Air Quality Sensing and Monitoring	70,000	10,000	80,000
192	COMSATS University of Information Technology	Wah	Electrical Engineering	NGIRI-2020-4781	Power Generation Using Human Footstep	46,000	4,000	50,000
193	COMSATS University of Information Technology	Wah	Electrical Engineering	NGIRI-2020-5131	Electrical energy generation for street light using solar and piezoelectric technique and intensity control of light	18,260	2,700	20,960
194	COMSATS University of Information Technology	Wah	Electrical Engineering	NGIRI-2020-4048	Smart Irrigation System using Fuzzy logics	14,700	-	14,700
195	COMSATS University of Information Technology	Wah	Electrical Power Engineering	NGIRI-2020-5403	Efficient Control of D STATCOM for Voltage Dip Compansation	57,143	7,790	64,933

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
196	COMSATS University of Information Technology	Wah	Science & Technology	NGIRI-2020-3851	GIS Based Slope Hazard Maping Case of China Pakistan Economic Corridor	70,000	10,000	80,000
197	Dadabhoy Institute of Higher Education	Main	Computer Science	NGIRI-2020-5250	Hand Gesture Recognition for DEAF and DUMB peoples	52,000	7,184	59,184
198	Dadabhoy Institute of Higher Education	Main	Electronics	NGIRI-2020-5176	3D Printer	23,000	10,000	33,000
199	Dadabhoy Institute of Higher Education	Main	Mechanical Engineering	NGIRI-2020-4033	Laser Engraving Machine	64,850	-	64,850
200	Dawood University of Engineering and Technology	Main	Electrical/Electronics Engineering	NGIRI-2020-5991	Design and Devise Fully Electrical Powered Two Wheel Vehicle	69,700	10,000	79,700
201	Dawood University of Engineering and Technology	Main	Electronics	NGIRI-2020-3161	Three Phase IPM Based Motor Driver	56,000	10,000	66,000
202	Dawood University of Engineering and Technology	Main	Electronics	NGIRI-2020-3545	Design and Development of a Breath Analyzer for the Detection of Diabetes Specific Biomarkers	68,500	9,100	77,600
203	Dawood University of Engineering and Technology	Main	Electronics Engineeering	NGIRI-2020-4189	Vision Based Robotic Arm	40,600	-	40,600
204	Dawood University of Engineering and Technology	Main	Electronics Engineeering	NGIRI-2020-4458	Landmines Detection Robot	67,700	10,000	77,700
205	Dawood University of Engineering and Technology	Main	Electronics Engineeering	NGIRI-2020-3528	Development of Lower Limb Exoskeleton	70,000	10,000	80,000
206	Dawood University of Engineering and Technology	Main	Electronics Engineeering	NGIRI-2020-3842	Hybrid Power Generation and its Wireless Monitoring and Data Acquisition System	69,200	10,000	79,200
207	Dawood University of Engineering and Technology	Main	Electronics Engineeering	NGIRI-2020-6206	Integrated Awg (Atmospheric Water Generator) and Axial Flux Pma (Permanent Magnet Alternator)	67,200	10,000	77,200
208	DHA Suffa University	Main	Electrical Engineering	NGIRI-2020-3939	Hybrid VTOL UAV surveillance system	70,000	10,000	80,000
209	DHA Suffa University	Main	Electrical Engineering	NGIRI-2020-3762	A Price based scheme for Demand Side Management of Discrete Industrial Process in Smart Grid	23,800	7,640	31,440
210	DHA Suffa University	Main	Electrical Engineering	NGIRI-2020-4794	Embedded System Based Hardware Implementation of a Speed & Torque Controller for AC Machine Using The Vector Control Strategy.	50,720	2,600	53,320

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
211	DHA Suffa University	Main	Electrical Engineering	NGIRI-2020-3833	Real Time DSU Attendance System Using Facial Recognition	42,600	3,050	45,650
212	DHA Suffa University	Main	Electrical Engineering	NGIRI-2020-3997	IoT Based Line Monitoring and Controlling System	39,000	10,000	49,000
213	Fatima Jinnah Women University	Main	Computer Engineering	NGIRI-2020-5661	Development of Computational Framework for Identification of Psychological Disorders using Personality Parameters	39,000	5,000	44,000
214	Fatima Jinnah Women University	Main	Computer Science	NGIRI-2020-3343	ASTECHMA Detection and Monitoring system for Asthma Triggering Factors	3,380	-	3,380
215	Fatima Jinnah Women University	Main	Computer Science	NGIRI-2020-4403	Secure Document Sharing Application using Blockchain	60,000	9,560	69,560
216	Fatima Jinnah Women University	Main	Computer Science	NGIRI-2020-3486	Visual Relationship Detection in Images using Deep Learning	70,000	8,000	78,000
217	Fatima Jinnah Women University	Main	Computer Science	NGIRI-2020-3519	Criminal Activity Detection and Security System	60,490	-	60,490
218	Fatima Jinnah Women University	Main	Computer Science	NGIRI-2020-4798	Monitoring and Automation of Electrical Appliances Using IOT	7,110	-	7,110
219	Fatima Jinnah Women University	Main	Software Engineering	NGIRI-2020-5866	A compuutional model for heart disease prediction by using data mining approach	50,538	-	50,538
220	Fatima Jinnah Women University	Main	Software Engineering	NGIRI-2020-5961	Design and Development of Driveaway Hybrid Application for Carpooling	4,000	10,000	14,000
221	Fatima Jinnah Women University	Main	Software Engineering	NGIRI-2020-6398	Intelligent classroom monitoring system to facilitate teacher and student using facial recognition and expression techniques	30,000	-	30,000
222	Fatima Jinnah Women University	Main	Software Engineering	NGIRI-2020-6092	Augmented Lecture Feedback and Evaluation System to Improve Learner and Teacher Communication	69,500	-	69,500
223	Federal Urdu University of Arts, Science and Technology	Islamabad	Computer Science	NGIRI-2020-5764	Crime Analysis and prediction system	70,000	-	70,000
224	Federal Urdu University of Arts, Science and Technology	Islamabad	Electrical Engineering	NGIRI-2020-6183	IOT based Smart Prepaid Energy Meter	27,486	2,520	30,006
225	Federal Urdu University of Arts, Science and Technology	Islamabad	Electrical Engineering	NGIRI-2020-5689	IOT Based Multifunction Power System Protection Device	16,040	10,000	26,040

NGIRI 2020
LIST OF APPROVED FYP

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
226	Federal Urdu University of Arts, Science and Technology	Main	Computer Science	NGIRI-2020-5517	Security System for Gated Communities	62,852	9,500	72,352
227	Federal Urdu University of Arts, Science and Technology	Main	Computer Science	NGIRI-2020-5690	Smart Auditorium Management and Security System	66,016	6,000	72,016
228	Foundation University	Islamabad	Electrical	NGIRI-2020-5762	IOT based monitoring and controlling of 3 phase distribution transformer	42,050	8,000	50,050
229	Foundation University	Islamabad	Electrical Engineering	NGIRI-2020-4231	Design and implementation of conveyer belt speed control using IOT based VFD.	69,580	9,700	79,280
230	Foundation University	Islamabad	Electrical Engineering	NGIRI-2020-4084	Real Time Smart Car Parking and Gate Security System	30,818	-	30,818
231	Foundation University	Islamabad	Electrical Engineering	NGIRI-2020-5280	Vaccine carrier cooling box	51,250	4,000	55,250
232	Foundation University	Islamabad	Electrical Engineering	NGIRI-2020-5231	Solid State Transformer(single phase)	63,011	8,000	71,011
233	Foundation University	Islamabad	Electrical Engineering	NGIRI-2020-5396	Single Phase Multiple Load Control	45,295	4,705	50,000
234	Foundation University	Islamabad	Software Engineering	NGIRI-2020-5299	Secure Patient Privacy Information in Medical Images	5,500	9,000	14,500
235	Foundation University	Islamabad	Software Engineering	NGIRI-2020-5859	Smart Traffic Flow	23,843	7,800	31,643
236	Foundation University	Islamabad	Software Engineering	NGIRI-2020-5758	Unirank	-	9,000	9,000
237	Foundation University	Islamabad	Software Engineering	NGIRI-2020-5412	Foundation University Student Information System	33,600	9,800	43,400
238	Ghulam Ishaq Khan Institute of Engineering Sciences and Technology	Swabi	Computer Engineering	NGIRI-2020-5781	Drone to the Rescue	69,052	9,500	78,552
239	Ghulam Ishaq Khan Institute of Engineering Sciences and Technology	Swabi	Computer Engineering	NGIRI-2020-3236	Almagenation	58,650	10,000	68,650
240	Ghulam Ishaq Khan Institute of Engineering Sciences and Technology	Swabi	Computer Science	NGIRI-2020-5087	CERBERUS: The AI Based Quadruped Robot	64,850	5,000	69,850

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
241	Ghulam Ishaq Khan Institute of Engineering Sciences and Technology	Swabi	Computer Science	NGIRI-2020-3714	Dry Aware	30,312	6,000	36,312
242	Ghulam Ishaq Khan Institute of Engineering Sciences and Technology	Swabi	Computer Science	NGIRI-2020-3491	ParkHere	42,000	6,100	48,100
243	Ghulam Ishaq Khan Institute of Engineering Sciences and Technology	Swabi	Computer Science	NGIRI-2020-5110	Resource Pooling for Development of Courier Service	62,088	7,500	69,588
244	Ghulam Ishaq Khan Institute of Engineering Sciences and Technology	Swabi	Computer Science	NGIRI-2020-5214	DrugAssure Tackling counterfeit drugs through Blockchain	51,408	-	51,408
245	Ghulam Ishaq Khan Institute of Engineering Sciences and Technology	Swabi	Electrical	NGIRI-2020-5708	IOT Based Multi Terrain Quadruped	52,500	9,200	61,700
246	Ghulam Ishaq Khan Institute of Engineering Sciences and Technology	Swabi	Electrical Engineering	NGIRI-2020-6315	Aqua Desalination using Photo Voltaic Panel	34,300	10,000	44,300
247	Ghulam Ishaq Khan Institute of Engineering Sciences and Technology	Swabi	Electrical Power Engineering	NGIRI-2020-5247	Health monitoring of distribution Transformer	70,000	8,000	78,000
248	Ghulam Ishaq Khan Institute of Engineering Sciences and Technology	Swabi	Electrical Power Engineering	NGIRI-2020-5471	PEM Fuel Cell	60,000	10,000	70,000
249	Ghulam Ishaq Khan Institute of Engineering Sciences and Technology	Swabi	Electrical/Electronics Engineering	NGIRI-2020-5629	Cost effective Precision based Surface Mounting Device SMD for PCBs	67,260	7,000	74,260
250	Ghulam Ishaq Khan Institute of Engineering Sciences and Technology	Swabi	Electronics Engineeering	NGIRI-2020-5855	Balancing A Bicycle Using PID Control	54,500	2,300	56,800
251	Ghulam Ishaq Khan Institute of Engineering Sciences and Technology	Swabi	Engineering and Sciences	NGIRI-2020-5483	Bio Inspired Underwater Robot with Undulating Fin Propulsion	69,776	9,600	79,376
252	Ghulam Ishaq Khan Institute of Engineering Sciences and Technology	Swabi	Engineering and Sciences	NGIRI-2020-4350	Design and Fabrication of Automated Embroidery Machine	31,309	1,890	33,199
253	Ghulam Ishaq Khan Institute of Engineering Sciences and Technology	Swabi	Management and Information Sciences	NGIRI-2020-5475	The impact of implementation of Eprocurement on the performance of Textile Industry of Pakistan	8,750	9,620	18,370
254	Ghulam Ishaq Khan Institute of Engineering Sciences and Technology	Swabi	Mechanical Engineering	NGIRI-2020-6332	Smart agriculturing using UAVs	66,828	3,000	69,828
255	Ghulam Ishaq Khan Institute of Engineering Sciences and Technology	Swabi	Mechanical Engineering	NGIRI-2020-6230	Design and fabrication of Unmanned Aerial vehicle for precise agriculture activities	69,600	5,550	75,150

NGIRI 2020
LIST OF APPROVED FYP

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
256	Ghulam Ishaq Khan Institute of Engineering Sciences and Technology	Swabi	Mechanical Engineering	NGIRI-2020-6378	Design and Development of a Vibration Induction Setup for One Direction TIG Welding Router	19,385	4,400	23,785
257	Ghulam Ishaq Khan Institute of Engineering Sciences and Technology	Swabi	Mechanical Engineering	NGIRI-2020-6421	Air jet manipulation of a droplet using superhydrophobic pathways	29,284	4,000	33,284
258	GIFT University	Gujranwala	Computer Science	NGIRI-2020-6014	Kisaan buddy	14,280	-	14,280
259	Government College Universirty	Main	Computer Science	NGIRI-2020-5315	Blinds Indoor Navigation System	67,000	5,000	72,000
260	Government College Universirty	Main	Computer Science	NGIRI-2020-5584	TherapAI AI based cognitive behavioral therapist	70,000	-	70,000
261	Government College University	Faisalabad	Bio-Informatics	NGIRI-2020-6196	Comparative study for druggable target finding leading to drug designing against strains of Shigella flexneri human pathogen using computational tools	70,000	10,000	80,000
262	Government College University	Faisalabad	Computer Science	NGIRI-2020-3785	Eye for Blind	42,400	-	42,400
263	Government College University	Faisalabad	Electrical Engineering	NGIRI-2020-4298	Solar Seed Sowing Machine	55,800	9,200	65,000
264	Government College University	Faisalabad	Electrical Engineering	NGIRI-2020-4287	Smart Courier System	24,200	10,000	34,200
265	Government College University	Faisalabad	Electrical Engineering	NGIRI-2020-4176	Recipe Maker and Packing Machine	42,280	8,000	50,280
266	Government College University	Faisalabad	Electrical Engineering	NGIRI-2020-3403	Vertical Axis Wind Mill Tree	56,000	6,000	62,000
267	Government College University	Faisalabad	Information Technology	NGIRI-2020-3841	Smart Socket	2,240	7,500	9,740
268	Government College University	Faisalabad	Information Technology	NGIRI-2020-3761	Smart Home	3,290	7,300	10,590
269	Government College University	Faisalabad	Information Technology	NGIRI-2020-3860	PEC Drive	15,070	4,000	19,070
270	Government College University	Faisalabad	Information Technology	NGIRI-2020-3873	Khamosh Ki Zuban	62,350	8,300	70,650

NGIRI 2020
LIST OF APPROVED FYP

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
271	Government College Women University	Sialkot	Computer Science & IT	NGIRI-2020-6027	Auto Inspection of Surgical Equipments	40,000	-	40,000
272	Government College Women University, Faislabad	Main	Computer Science	NGIRI-2020-4575	Water Leakage Indicator & Control System(WLICS)	15,230	6,200	21,430
273	Government College Women University, Faislabad	Main	Information Technology	NGIRI-2020-4751	Sun Tracking Solar Panel Using Micro-controller and Arduino	35,105	10,000	45,105
274	Government College Women University, Faislabad	Main	Information Technology	NGIRI-2020-4752	Smart Cleaning System	35,600	9,900	45,500
275	Grafton College Islamabad (Affiliated Campus of NUML)	Islamabad	Electrical Engineering	NGIRI-2020-4101	IOT based automated green house monitoring and control system	46,480	10,000	56,480
276	Grafton College Islamabad (Affiliated Campus of NUML)	Islamabad	Electrical Engineering	NGIRI-2020-3965	A Compact CPW MIMO antenna for UWB communications with band notch characteristics	17,000	10,000	27,000
277	Grafton College Islamabad (Affiliated Campus of NUML)	Islamabad	Electrical Engineering	NGIRI-2020-3971	Raspberry pi based reader for blind people	25,550	2,500	28,050
278	Habib University	Karachi	Electrical Engineering	NGIRI-2020-4638	SwiftBot Autonomous Delivery Robot	39,541	500	40,041
279	Habib University	Karachi	Electrical Engineering	NGIRI-2020-5325	WayMore - Driver Scoring	36,500	10,000	46,500
280	Habib University	Karachi	Electrical Engineering	NGIRI-2020-4598	AEGIS Virtual Self Defense Trainer	16,750	-	16,750
281	Habib University	Karachi	Electrical Engineering	NGIRI-2020-4631	Integrated lithium ion and ultra capacitor bank for effective motor control	27,600	-	27,600
282	Habib University	Karachi	Electrical Engineering	NGIRI-2020-5094	Cost Effective Electrically Powered Wrist-Hand Automated Orthotic Exoskeleton	60,000	-	60,000
283	Habib University	Karachi	Engineering and Sciences	NGIRI-2020-4012	Design and Implementation of a Fault Tolerant RISC V Architecture on FPGA	70,000	-	70,000
284	Hamdard University	Islamabad	Electrical Engineering	NGIRI-2020-3584	Solar powered autonomous drone for precision agriculture	70,000	10,000	80,000
285	Hamdard University	Islamabad	Electrical Engineering	NGIRI-2020-4090	Design and Implementation of Grid tie Multi level inverter Fifteen Levels	70,000	4,000	74,000

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
286	Hamdard University	Islamabad	Electrical/Electronics Engineering	NGIRI-2020-3850	Automated fortification and Smart Monitoring of Distribution Transformer	70,000	4,100	74,100
287	Hamdard University	Karachi	Biomedical Engineering	NGIRI-2020-3893	Laproscopic Simulator Evaluator	70,000	10,000	80,000
288	Hamdard University	Karachi	Biomedical Engineering	NGIRI-2020-4052	Cardiac catherzation simulator	56,000	10,000	66,000
289	Hamdard University	Karachi	Biomedical Engineering	NGIRI-2020-4850	Enhancement and Development of Low Cost Respiratory Monitoring and Controlling System	65,000	8,000	73,000
290	Hamdard University	Karachi	Computer & Information System	NGIRI-2020-3331	Water Board Pump Alerting System	70,000	10,000	80,000
291	Hamdard University	Karachi	Computer Science	NGIRI-2020-4636	Fabric Defect Detection	19,400	2,300	21,700
292	Hamdard University	Karachi	Computer Science	NGIRI-2020-3835	Water Flow System using IOT	24,090	10,000	34,090
293	Hamdard University	Karachi	Computer System Engineering	NGIRI-2020-3844	A real-time smart location based advertising using IoT and mobile application Technology	50,500	6,500	57,000
294	Hamdard University	Karachi	Computer System Engineering	NGIRI-2020-5188	Development of volunteering based online medical rescue and emergency respond system (Hamdard : A compassionate)	-	-	-
295	Hamdard University	Karachi	Computer System Engineering	NGIRI-2020-3933	IOT BAsed Real-time Garbage Level Monitoring System using Raspberry Pi	34,000	10,000	44,000
296	HITEC University	Main	Computer Engineering	NGIRI-2020-3976	Machine Learning and IOT based Plant Diseases Detection and Monitoring Robot	69,550	9,990	79,540
297	HITEC University	Main	Computer Engineering	NGIRI-2020-3977	Spoof detection for fake biometric images using feature based techniques	70,000	9,500	79,500
298	HITEC University	Main	Computer Engineering	NGIRI-2020-3979	Machine Learning based clinical decision support system for early diagnosis from real time physiological data	-	10,000	10,000
299	HITEC University	Main	Computer Engineering	NGIRI-2020-3973	Implementation of Correlation Filter on DSP Processor for Image Based Applications	63,120	10,000	73,120
300	HITEC University	Main	Computer Engineering	NGIRI-2020-3982	Target Tracking Implementation on Embedded Platform	70,000	10,000	80,000

NGIRI 2020
LIST OF APPROVED FYP

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
301	HITEC University	Main	Computer Science	NGIRI-2020-4806	Deep Learning Based End-to-End System for Human Gait Recognition	68,575	6,490	75,065
302	HITEC University	Main	Computer Science	NGIRI-2020-4352	Student Information System	10,000	2,200	12,200
303	HITEC University	Main	Electrical	NGIRI-2020-3990	Intelligent Traffic Monitoring System	70,000	10,000	80,000
304	HITEC University	Main	Electrical Engineering	NGIRI-2020-4493	Target Tracking System for Tank Gun Mount	70,000	-	70,000
305	HITEC University	Main	Electrical/Electronics Engineering	NGIRI-2020-5129	Self Tracking and Autonomous Tank	68,900	9,900	78,800
306	Indus University	Karachi	Computer Science	NGIRI-2020-4530	Mobility Assistive Device for Paralyzed Patients	58,660	7,100	65,760
307	Indus University	Karachi	Computer Science	NGIRI-2020-3167	Smart Farming Using Predictive Analysis	50,000	-	50,000
308	Indus University	Karachi	Computer Science	NGIRI-2020-3056	Context Centric Detection System for Smart Room	30,580	-	30,580
309	Indus University	Karachi	Computer Science & IT	NGIRI-2020-4453	IoT based booking and Tracking system for goods transport industry with automatic weight measuring feature	38,000	-	38,000
310	Indus University	Karachi	Computer Science & IT	NGIRI-2020-4334	GSM Based Smart Cardio System for Healthcare	23,350	9,950	33,300
311	Indus University	Karachi	Computing and Technology	NGIRI-2020-4333	Sentiment Analysis and Text Mining System for Textual Data	69,460	8,700	78,160
312	Indus University	Karachi	Computing and Technology	NGIRI-2020-4700	Wireless Gesture Communication System To Make Ease in Life of Disable Person	52,000	-	52,000
313	Indus University	Karachi	Electrical	NGIRI-2020-4494	Iot based water quality and mangement system	62,250	2,000	64,250
314	Indus University	Karachi	Electrical	NGIRI-2020-5180	IOT Based Heart attack Prediction wearable device for Human Live Saving	26,200	7,996	34,196
315	Indus University	Karachi	Electrical	NGIRI-2020-5440	Industrial synchronisation measurement unit for solar with gird	59,200	5,000	64,200

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
316	Indus University	Karachi	Electrical Engineering	NGIRI-2020-4580	Eye Pupil Controlled WheelChair with Alerting System for Quadriplegia Patients	69,232	-	69,232
317	Indus University	Karachi	Electrical Engineering	NGIRI-2020-5718	IoT Based Smart Masjid With Energy Efficient Features	42,650	10,000	52,650
318	Indus University	Karachi	Electrical Engineering	NGIRI-2020-4503	The CamBot; A Robotic Cameraman for Videography using Computer Vision	69,200	10,000	79,200
319	Indus University	Karachi	Electrical Engineering	NGIRI-2020-4608	Smart Garbage Monitoring and Waste Collection System with Garbage Sorting Feature for Recycling.	55,800	-	55,800
320	Indus University	Karachi	Electrical Engineering	NGIRI-2020-4396	200 Watt Electricity Generation through Road Ramps by using Flywheel	69,400	-	69,400
321	Indus University	Karachi	Electronics	NGIRI-2020-5226	IOT Based Cathodic Protection System With RTU	43,350	5,000	48,350
322	Indus University	Karachi	Mechanical Engineering	NGIRI-2020-5519	Camless Engine to Reduced Power Wastage for Improving Engine Performance	59,260	1,800	61,060
323	Indus University	Karachi	Science & Technology	NGIRI-2020-4008	IOT Based Smart Renewable Wheat Threshing Machine	35,475	10,000	45,475
324	Indus University	Karachi	Science & Technology	NGIRI-2020-5381	Health Monitoring Wheelchair	66,260	7,600	73,860
325	Indus University	Karachi	Science & Technology	NGIRI-2020-5170	Auto Garbage Dry-Wet Waste Separator With Dustbin Indicator	41,700	6,000	47,700
326	Indus University	Karachi	Science & Technology	NGIRI-2020-5378	Controlling and Monitoring of three phase induction motor with fault deduction through SCADA	56,500	10,000	66,500
327	Indus University	Karachi	Science & Technology	NGIRI-2020-5385	IOT Based Fault Analysis System of Three Phase Induction Motor	-	6,000	6,000
328	Indus University	Karachi	Software Engineering	NGIRI-2020-4347	Smart Bike Lock	67,500	9,350	76,850
329	Indus University	Karachi	Software Engineering	NGIRI-2020-4348	Voice Controlled Smart Assistance for Disables	69,835	9,745	79,580
330	Indus University	Karachi	Software Engineering	NGIRI-2020-4310	Smart Shopping Using Augmented Reality	20,000	10,000	30,000

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
331	Indus University	Karachi	Software Engineering	NGIRI-2020-4407	Smoking detection based on IoT	70,000	-	70,000
332	Information Technology University	Lahore	Electrical Engineering	NGIRI-2020-3398	S-HELM Smart Electrochemical gas detecting Helmet for Miners	25,666	10,000	35,666
333	Information Technology University	Lahore	Electrical Engineering	NGIRI-2020-5361	Impurity detection and filtration of water using biosensors and EDR	18,210	2,000	20,210
334	Information Technology University	Lahore	Electrical Engineering	NGIRI-2020-5569	Design of portable microwave imaging device for brain stroke detection	69,000	8,300	77,300
335	Information Technology University	Lahore	Electrical Engineering	NGIRI-2020-5397	Smart assistive device for visually impaired	70,000	10,000	80,000
336	Information Technology University	Lahore	Electrical Engineering	NGIRI-2020-5573	Design and Development of Microwave based Non-destructive testing device for Structural Health Monitoring	70,000	9,000	79,000
337	Institute of Business Management	Main	Electrical Engineering	NGIRI-2020-3630	3d printer	70,000	10,000	80,000
338	Institute of Business Management	Main	Electrical Engineering	NGIRI-2020-4438	IoT based tidal energy transducer	42,000	8,000	50,000
339	Institute of Business Management	Main	Electrical/Electronics Engineering	NGIRI-2020-5084	ByKit	40,500	10,000	50,500
340	Institute of Business Management	Main	Engineering and Sciences	NGIRI-2020-3044	CNC Milling + Laser + Carving + 3d printer (all in one)	67,430	4,594	72,024
341	Institute of Industrial Electronics Engineering	Main	Industrial Electronics	NGIRI-2020-4568	IoT based Smart Electric Switch	19,810	10,000	29,810
342	Institute of Industrial Electronics Engineering	Main	Industrial Electronics	NGIRI-2020-4949	Industrial manipulator for stacking of small package products	63,000	1,500	64,500
343	Institute of Industrial Electronics Engineering	Main	Industrial Electronics	NGIRI-2020-4454	2-D Environment Scanning & Navigation using AI based autonomous mobile robot	42,600	3,000	45,600
344	Institute of Industrial Electronics Engineering	Main	Industrial Electronics	NGIRI-2020-5548	Intelligent Earphone for visually impaired person	33,350	5,000	38,350
345	Institute of Industrial Electronics Engineering	Main	Industrial Electronics	NGIRI-2020-4443	Machine Learning Based Industrial Sorting System using Neural Network	69,660	1,000	70,660

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
346	Institute of Management Sciences	Peshawar	Computer Science	NGIRI-2020-5269	Smart Solid Waste Management System Using IoT	64,700	2,950	67,650
347	Institute of Management Sciences	Peshawar	Computer Science & IT	NGIRI-2020-4982	IoT based smart campus management built on LoRa network	65,700	-	65,700
348	Institute of Management Sciences	Peshawar	Computer Science & IT	NGIRI-2020-3503	Augmented Reality for Interior Design using Computer Vision	40,000	-	40,000
349	Institute of Space Technology	Islamabad	Avionics Engineering	NGIRI-2020-4029	Deign and Development of RADAR for Quadcopter	70,000	10,000	80,000
350	Institute of Space Technology	Islamabad	Avionics Engineering	NGIRI-2020-3702	Design and Implementation of Gesture Control Algorithm for Quadcopter using Vision Sensor with Communication Link	58,986	8,196	67,182
351	Institute of Space Technology	Islamabad	Avionics Engineering	NGIRI-2020-6041	Direction of Arrival estimation using antenna Axial ratio characteristic by designing a Novel antenna.	9,350	10,000	19,350
352	Institute of Space Technology	Islamabad	Avionics/Aeronautical Engineering	NGIRI-2020-4877	Design and Fabrication of Ornithopter	69,200	10,000	79,200
353	Institute of Space Technology	Islamabad	Avionics/Aeronautical Engineering	NGIRI-2020-5913	Kinematic Modeling and Prototype implementation of jellyfish mechanism based robot	49,790	-	49,790
354	Institute of Space Technology	Islamabad	Avionics/Aeronautical Engineering	NGIRI-2020-6135	DESIGN and DEVELOPMENT of GIMBALLING SYSTEM USING REACTION CONTROL SYSTEM	52,000	-	52,000
355	Institute of Space Technology	Islamabad	Avionics/Aeronautical Engineering	NGIRI-2020-6141	Design and Implementation of Flight Controls System of High Speed Target Drone	19,998	10,000	29,998
356	Institute of Space Technology	Islamabad	Avionics/Aeronautical Engineering	NGIRI-2020-6216	CFD analysis of morphing airfoil	51,900	-	51,900
357	Institute of Space Technology	Islamabad	Electrical Engineering	NGIRI-2020-5486	Design and development of EMG controlled prosthetic hand	57,510	1,500	59,010
358	Institute of Space Technology	Islamabad	Electrical Engineering	NGIRI-2020-6126	Design Development and Testing of Networked Quadcopters	58,020	-	58,020
359	Institute of Space Technology	Islamabad	Electrical Engineering	NGIRI-2020-5293	EEG controlled Electric Wheel chair	51,790	6,450	58,240
360	Institute of Space Technology	Islamabad	Electrical Engineering	NGIRI-2020-4938	Smart Gas Safety System	69,750	10,000	79,750

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
361	Institute of Space Technology	Islamabad	Electrical Engineering	NGIRI-2020-4527	Design of a Fault Tolerant On Board Computer for CubeSat	69,013	10,000	79,013
362	Institute of Space Technology	Islamabad	Mechanical Engineering	NGIRI-2020-5470	Design and Fabrication of Unmanned Fire Fighting ground Vehicle	69,950	10,000	79,950
363	Institute of Space Technology	Islamabad	Mechanical Engineering	NGIRI-2020-5164	Automation of kite borne wind turbine unit to ensure unaided loop flight	70,000	10,000	80,000
364	Institute of Space Technology	Islamabad	Mechanical Engineering	NGIRI-2020-5373	Automated 5 Dof robotic arm mechanism	69,500	5,000	74,500
365	Institute of Space Technology	Islamabad	Mechanical Engineering	NGIRI-2020-5490	Design and analysis of a totally implantable self-driving venous assist assist device for fontan patients	70,000	10,000	80,000
366	Institute of Space Technology	Islamabad	Mechanical Engineering	NGIRI-2020-6248	Design and Fabrication on Exoknee	70,000	5,000	75,000
367	International Islamic University	Islamabad	Electrical	NGIRI-2020-4273	Self Driving Car	41,849	2,000	43,849
368	International Islamic University	Islamabad	Electrical Engineering	NGIRI-2020-3800	IOT Based Hydroponics System	34,555	3,530	38,085
369	International Islamic University	Islamabad	Electrical Engineering	NGIRI-2020-3879	OBD II Based Vehicle Management System	11,536	-	11,536
370	International Islamic University	Islamabad	Electrical Power Engineering	NGIRI-2020-3062	Smart Apaires	61,280	8,800	70,080
371	International Islamic University	Islamabad	Electrical/Electronics Engineering	NGIRI-2020-4738	Raspberry pi based reader for blind	17,600	3,050	20,650
372	International Islamic University	Islamabad	Electrical/Electronics Engineering	NGIRI-2020-5195	Water Distribution Control	15,420	10,000	25,420
373	Iqra National University	Main	Computer Science	NGIRI-2020-4801	Drowsiness detection system using digital image process	37,049	-	37,049
374	Iqra National University	Main	Computer Science	NGIRI-2020-3872	IOT based Water Quality Assurance System	30,000	9,500	39,500
375	Iqra National University	Main	Electrical	NGIRI-2020-4175	Detecting and Minimizing Electricity Theft	70,000	10,000	80,000

NGIRI 2020
LIST OF APPROVED FYP

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
376	Iqra National University	Main	Electrical Engineering	NGIRI-2020-4097	Light Weight Electric Vehical	52,000	10,000	62,000
377	Iqra National University	Main	Electrical Engineering	NGIRI-2020-5451	Design and development of smart greenhouse for crops using ioT	28,970	6,000	34,970
378	Iqra National University	Main	Electrical Engineering	NGIRI-2020-4184	Automatic solar panel cleaning system with sun tracking	19,900	6,000	25,900
379	Iqra University	Main	Computer Science	NGIRI-2020-4644	Digi-Eye (AR Smart glasses)	70,000	10,000	80,000
380	Iqra University	Main	Computer Science	NGIRI-2020-4814	Indoor Navigation using Augmented Reality	70,000	-	70,000
381	Iqra University	Main	Computer Science	NGIRI-2020-4983	Smart Wallet	64,100	10,000	74,100
382	Iqra University	Main	Computer Science	NGIRI-2020-4579	Smart Bin	69,938	10,000	79,938
383	Iqra University	Main	Computer Science	NGIRI-2020-4774	Student performance predication	60,000	10,000	70,000
384	Iqra University	Main	Electrical Engineering	NGIRI-2020-4564	Power Management of Hybrid System in Smart Grid Environment Using FPGA	70,000	10,000	80,000
385	Iqra University	Main	Electrical Engineering	NGIRI-2020-4959	AI Based Humanoid Robot	70,000	10,000	80,000
386	Iqra University	Main	Electronics Engineeering	NGIRI-2020-4653	Real Time Sign Translator (Human Robot for Normal and Hearing In pained Person)	64,310	10,000	74,310
387	Iqra University	Main	Electronics Engineeering	NGIRI-2020-4489	Foldi Mate Cloth Folding and Pressing Machine	67,140	9,997	77,137
388	Iqra University	Main	Electronics Engineeering	NGIRI-2020-4591	A Smart Vision System	66,690	10,000	76,690
389	Iqra University	Main	Software Engineering	NGIRI-2020-4525	intelligent fruit sorting machine using image processing	70,000	10,000	80,000
390	Iqra University	Main	Software Engineering	NGIRI-2020-4421	E-Care	67,600	10,000	77,600

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
391	Iqra University	Main	Software Engineering	NGIRI-2020-4286	Rakhwala Child Security System	69,154	10,000	79,154
392	Iqra University	Main	Software Engineering	NGIRI-2020-3954	Health Emergency Rescue Operation	70,000	10,000	80,000
393	Iqra University	Main	Software Engineering	NGIRI-2020-4423	Innovative Psych Solution	70,000	10,000	80,000
394	Iqra University	Main	Telecom Engineering	NGIRI-2020-4509	IOT Based Movable Road Divider	65,000	10,000	75,000
395	Isra University	Hyderabad	Electrical Power Engineering	NGIRI-2020-5778	Design and Modeling of Pump Storage Power Plant Using Archimedes Turbine	70,000	10,000	80,000
396	Isra University	Hyderabad	Electronics	NGIRI-2020-4436	Fire Fighting Drone	69,990	-	69,990
397	Isra University	Hyderabad	Software Engineering	NGIRI-2020-3887	JardineAI	-	-	-
398	Isra University	Hyderabad	Software Engineering	NGIRI-2020-4707	Eyecure	70,000	-	70,000
399	Isra University	Hyderabad	Software Engineering	NGIRI-2020-4281	KinePower empowering elderly to move normally	70,000	-	70,000
400	Jinnah University for Women	Karachi	Computer Science & IT	NGIRI-2020-3177	Smart Plantation	68,095	10,000	78,095
401	Jinnah University for Women	Karachi	Software Engineering	NGIRI-2020-4306	Borrowe	70,000	10,000	80,000
402	Jinnah University for Women	Karachi	Software Engineering	NGIRI-2020-4132	Sign O Talk	68,000	10,000	78,000
403	Jinnah University for Women	Karachi	Software Engineering	NGIRI-2020-4158	MedTrack	70,000	10,000	80,000
404	Karakurum International University	Gilgit	Computer Science	NGIRI-2020-5810	Machine-Learning Algorithms for Mapping Debris-Covered Glaciers: The Hunza shishper Case Study	50,000	-	50,000
405	Karakurum International University	Gilgit	Computer Science	NGIRI-2020-5895	Extraction of glacial lakes from high mountains of Karakorum using SAR data and machine learning algorithms The Hunza Basin Case study	60,000	-	60,000

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
406	Khawaja Fareed University of Engineering and Information Technology	Main	Computer Science	NGIRI-2020-4661	Guard Monitoring Bell	10,000	-	10,000
407	Khawaja Fareed University of Engineering and Information Technology	Main	Mechanical Engineering	NGIRI-2020-5554	Development of an explorer Robot for cleaning of Air conditioning duct	18,250	8,000	26,250
408	Lahore College for Women University	Jhang	Computer Science	NGIRI-2020-4222	Application for Drug Information and Counseling of Addicts (ADICA)	70,000	10,000	80,000
409	Lahore College for Women University	Lahore	Computer Science	NGIRI-2020-3550	Art illusion through MATLAB	18,990	7,000	25,990
410	Lahore Garrison University	Main	Computer Science	NGIRI-2020-3160	IoT based Smart Trolley and Automatic Shopping System	12,000	2,000	14,000
411	Lahore Garrison University	Main	Computer Science	NGIRI-2020-6142	Controlling android With Voice	-	-	-
412	Lahore Garrison University	Main	Computer Science	NGIRI-2020-6097	Malware Scanner	-	-	-
413	Lahore Garrison University	Main	Computer Science	NGIRI-2020-6436	Iris and fingerprint based HR system	19,500	-	19,500
414	Lahore Garrison University	Main	Computer Science	NGIRI-2020-3219	Behavoral facial recognition coding system	-	10,000	10,000
415	Lahore Garrison University	Main	Software Engineering	NGIRI-2020-4276	TaAam	56,826	-	56,826
416	Lahore Garrison University	Main	Software Engineering	NGIRI-2020-3602	Agricultural Drone	70,000	10,000	80,000
417	Lahore Garrison University	Main	Software Engineering	NGIRI-2020-6002	Easy Shifters	68,000	-	68,000
418	Lahore Garrison University	Main	Software Engineering	NGIRI-2020-3580	Fruit Harvestor	61,440	7,500	68,940
419	Lahore University of Management Sciences	Lahore	Bio-Informatics	NGIRI-2020-4771	Multi-scale Modeling and Therapeutic Evaluation of Colorectal Tumorigenesis in Drosophila melanogaster Midgut	70,000	10,000	80,000
420	Lahore University of Management Sciences	Lahore	Computer Science	NGIRI-2020-3452	Improving Ad Relevance and PLTs using Intelligent Tor Relay Selection	-	7,200	7,200

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
421	Lahore University of Management Sciences	Lahore	Electrical Engineering	NGIRI-2020-3689	Grid Free Living	69,400	5,000	74,400
422	Lahore University of Management Sciences	Lahore	Electrical Engineering	NGIRI-2020-3110	Modular Scalable Design for Active Balancing of Li Ion Batteries	67,020	10,000	77,020
423	Mehran University of Engineering & Technology	Jamshoro	Biomedical Engineering	NGIRI-2020-3541	Design of nano_implant for musculoskeletal tissue and cartilage regeneration	70,000	10,000	80,000
424	Mehran University of Engineering & Technology	Jamshoro	Biomedical Engineering	NGIRI-2020-3478	Evolution of Plastic Degrading Bacteria	70,000	10,000	80,000
425	Mehran University of Engineering & Technology	Jamshoro	Biomedical Engineering	NGIRI-2020-3624	Development of Graphene coated Antibacterial Nonwoven Fabric for Medical Applications.	70,000	10,000	80,000
426	Mehran University of Engineering & Technology	Jamshoro	Biomedical Engineering	NGIRI-2020-3618	Design and fabrication of an Electrodynamic Atomization System for food coating	70,000	10,000	80,000
427	Mehran University of Engineering & Technology	Jamshoro	Biomedical Engineering	NGIRI-2020-3636	Wireless Powered Embedded Cardiac Pacemaker apart Utilization of Resonant Inductive Coupling.	70,000	10,000	80,000
428	Mehran University of Engineering & Technology	Jamshoro	Computer System Engineering	NGIRI-2020-4205	Integrated Smart Shopping Cart	68,843	9,800	78,643
429	Mehran University of Engineering & Technology	Jamshoro	Computer System Engineering	NGIRI-2020-4148	Smart surveillance security system detecting weapons.	22,575	500	23,075
430	Mehran University of Engineering & Technology	Jamshoro	Computer System Engineering	NGIRI-2020-4111	Vehicle Accident Detection and information system Using android Smart Phone& GPS	32,000	10,000	42,000
431	Mehran University of Engineering & Technology	Jamshoro	Computer System Engineering	NGIRI-2020-4173	Vehicle Black Box	69,912	9,648	79,560
432	Mehran University of Engineering & Technology	Jamshoro	Computer System Engineering	NGIRI-2020-4116	Smart Agriculture & Soil Detection Technique	69,000	7,000	76,000
433	Mehran University of Engineering & Technology	Jamshoro	Electrical	NGIRI-2020-3225	Potential and Prospectus of E bike deployment in Pakistan as means of sustainable transportation	50,000	10,000	60,000
434	Mehran University of Engineering & Technology	Jamshoro	Electrical	NGIRI-2020-3232	PLC based load sharing of transformers	69,440	-	69,440
435	Mehran University of Engineering & Technology	Jamshoro	Electrical	NGIRI-2020-3477	Determination of wind Direction for a Small Scale wind farm through single Anemometer	68,000	-	68,000

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
436	Mehran University of Engineering & Technology	Jamshoro	Electrical Engineering	NGIRI-2020-3072	A Possible solution of Load Shedding Smart Energy Meter	55,270	7,100	62,370
437	Mehran University of Engineering & Technology	Jamshoro	Electrical Engineering	NGIRI-2020-4664	Protection of Induction Motor from Single Phasing, Over temperature and Auto Alert System using GSM Module	59,500	5,000	64,500
438	Mehran University of Engineering & Technology	Jamshoro	Electrical Engineering	NGIRI-2020-4053	IOT Based Smart Home Energy management System	39,650	5,500	45,150
439	Mehran University of Engineering & Technology	Jamshoro	Electrical Engineering	NGIRI-2020-3245	Design and development of Solar DC Microgrid for rural consumers	34,750	5,500	40,250
440	Mehran University of Engineering & Technology	Jamshoro	Electrical Engineering	NGIRI-2020-3222	Harmonic Generator Deployment for Electricity Theft Detection and Prevention	69,400	500	69,900
441	Mehran University of Engineering & Technology	Jamshoro	Electrical Power Engineering	NGIRI-2020-4487	Development of Dual PV system with FPGA for Multilevel Inverters	68,900	6,000	74,900
442	Mehran University of Engineering & Technology	Jamshoro	Electrical Power Engineering	NGIRI-2020-3557	Development of Double Rotation Vertical Axis Generator With Double Rotation of Wind Turbine	66,300	3,300	69,600
443	Mehran University of Engineering & Technology	Jamshoro	Electronics	NGIRI-2020-3051	Four View Holographic Display Using Semi-Reflective Mirrors	51,500	7,000	58,500
444	Mehran University of Engineering & Technology	Jamshoro	Electronics	NGIRI-2020-3394	Covert electronic communication using dna based steganography	70,000	9,500	79,500
445	Mehran University of Engineering & Technology	Jamshoro	Electronics	NGIRI-2020-3205	Controlling The Locomotion of Railway Inspection Vehicle Wirelessly	66,100	2,050	68,150
446	Mehran University of Engineering & Technology	Jamshoro	Electronics	NGIRI-2020-4034	Antibacterial field control health moneteriing system	63,850	2,600	66,450
447	Mehran University of Engineering & Technology	Jamshoro	Electronics Engineeering	NGIRI-2020-3652	Control and Automation of Electric Wheelchair using EEG and AI algorithms	70,000	10,000	80,000
448	Mehran University of Engineering & Technology	Jamshoro	Electronics Engineeering	NGIRI-2020-3870	Visual assistant for Blind Person via Voice Command	36,500	7,500	44,000
449	Mehran University of Engineering & Technology	Jamshoro	Electronics Engineeering	NGIRI-2020-3748	Real time implementation of facial expression recognition for blind people using fpga and labview platform	67,997	-	67,997
450	Mehran University of Engineering & Technology	Jamshoro	Electronics Engineeering	NGIRI-2020-3684	IoT based mobile robotic arm	38,900	300	39,200

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
451	Mehran University of Engineering & Technology	Jamshoro	Electronics Engineeering	NGIRI-2020-3440	SEHAT Smart E Health App for Telediagnosis and first opinion	58,300	9,000	67,300
452	Mehran University of Engineering & Technology	Jamshoro	Information & Communication Technology	NGIRI-2020-3338	Vehicle Management System	23,000	10,000	33,000
453	Mehran University of Engineering & Technology	Jamshoro	Mechanical Engineering	NGIRI-2020-3209	Design and Control of Smart Service Robot for office Use	64,500	9,755	74,255
454	Mehran University of Engineering & Technology	Jamshoro	Mechatronics Engineering	NGIRI-2020-3332	Development of educational robot for slow learners	66,790	9,030	75,820
455	Mehran University of Engineering & Technology	Jamshoro	Mechatronics Engineering	NGIRI-2020-5838	Autopilot path planning and obstacle Avoidance Steering control	62,000	6,360	68,360
456	Mehran University of Engineering & Technology	Jamshoro	Mechatronics Engineering	NGIRI-2020-3204	Development of Survilents Spider Robot for Inspection of Mines and Dangerous Terrain	60,210	10,000	70,210
457	Mehran University of Engineering & Technology	Jamshoro	Mechatronics Engineering	NGIRI-2020-3092	Design, Control and Inverse Kinematics of Robotic Arm	68,570	6,000	74,570
458	Mehran University of Engineering & Technology	Jamshoro	Mechatronics Engineering	NGIRI-2020-3335	Multipurpose Smart Agriculture Robot	20,870	4,100	24,970
459	Mehran University of Engineering & Technology	Jamshoro	Software Engineering	NGIRI-2020-3534	Teaching Cars to see A future of self driving car lane detection system using road lane edges	51,500	10,000	61,500
460	Mehran University of Engineering & Technology	Jamshoro	Telecom Engineering	NGIRI-2020-3154	War Field Spying Robot With Wireless Night Vision Camera	66,194	10,000	76,194
461	Mehran University of Engineering & Technology	Jamshoro	Telecom Engineering	NGIRI-2020-3396	Automated Antenna radiation and Gain Measurement system with user interface for Anechoic chamber	70,000	10,000	80,000
462	Mehran University of Engineering & Technology	Jamshoro	Telecom Engineering	NGIRI-2020-3610	dielectric constant measurement using SMRR	56,700	7,000	63,700
463	Mehran University of Engineering & Technology	Jamshoro	Telecom Engineering	NGIRI-2020-3649	Cellular Power divider at GSM band	63,800	8,000	71,800
464	Mehran University of Engineering & Technology	Jamshoro	Telecom Engineering	NGIRI-2020-4024	Solar Water Heating System	34,400	8,000	42,400
465	Mehran University of Engineering & Technology	Khairpur	Electrical Engineering	NGIRI-2020-3103	Design of Solar Tracking System Using Piezo-Electric Effect for Multi-Power Generation Based On Iot	70,000	10,000	80,000

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
466	Mehran University of Engineering & Technology	Khairpur	Electrical Engineering	NGIRI-2020-3052	Modeling and control of electric vehicle operated by hybrid energy sources through wireless charging station	68,900	10,000	78,900
467	Mehran University of Engineering & Technology	Khairpur	Electronics Engineeering	NGIRI-2020-3405	Design and Analysis of Smart Home Prototype to be implemented in Smart City	14,680	4,000	18,680
468	Mehran University of Engineering & Technology	Khairpur	Electronics Engineeering	NGIRI-2020-3393	Design of Smart Shopping System	17,310	-	17,310
469	Mehran University of Engineering & Technology	Khairpur	Software Engineering	NGIRI-2020-3184	Hand Over	69,939	9,600	79,539
470	Mehran University of Engineering & Technology	Khairpur	Software Engineering	NGIRI-2020-3121	FeedieNeedy	68,980	4,000	72,980
471	Mehran University of Engineering & Technology	Khairpur	Software Engineering	NGIRI-2020-3039	FIS Hostel	60,000	10,000	70,000
472	Minhaj University	Main	Computer Science & IT	NGIRI-2020-3386	Smart Dressing Mirror	69,700	10,000	79,700
473	Mirpur University of Science and Technology (MUST)	Mirpur	Computer System Engineering	NGIRI-2020-6262	Development of an Automated Power Beam	64,000	6,000	70,000
474	Mirpur University of Science and Technology (MUST)	Mirpur	Computer System Engineering	NGIRI-2020-6318	software based smart farmer assistance system	61,200	-	61,200
475	Mirpur University of Science and Technology (MUST)	Mirpur	Computer System Engineering	NGIRI-2020-6303	Audio Data Communication using Visible Light (VLC)	41,830	10,000	51,830
476	Mirpur University of Science and Technology (MUST)	Mirpur	Computer System Engineering	NGIRI-2020-6284	Weight in motion based vehicle management system	22,700	-	22,700
477	Mirpur University of Science and Technology (MUST)	Mirpur	Computer System Engineering	NGIRI-2020-6278	IOT based Smart Industrial Control System	48,370	10,000	58,370
478	Mirpur University of Science and Technology (MUST)	Mirpur	Electrical Engineering	NGIRI-2020-5926	Bluetooth Based Smart Home System using FPGA	70,000	-	70,000
479	Mirpur University of Science and Technology (MUST)	Mirpur	Electrical Engineering	NGIRI-2020-4441	Printed Electronics	70,000	10,000	80,000
480	Mirpur University of Science and Technology (MUST)	Mirpur	Electrical Engineering	NGIRI-2020-4910	A non-intrusive data acquisition and load monitoring system for multi-environment applications.	65,750	10,000	75,750

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
481	Mirpur University of Science and Technology (MUST)	Mirpur	Electrical Power Engineering	NGIRI-2020-6304	Solar and Wind Charged Hybrid Electric Vehicle	70,000	10,000	80,000
482	Mirpur University of Science and Technology (MUST)	Mirpur	Electrical/Electronics Engineering	NGIRI-2020-4165	VLSI design and implementation of integer transform architecture for HEVC	70,000	10,000	80,000
483	Mirpur University of Science and Technology (MUST)	Mirpur	Software Engineering	NGIRI-2020-5639	Driver Drowsiness Detection Using Deep Convolutional Neural Network	23,600	7,500	31,100
484	Mirpur University of Science and Technology (MUST)	Mirpur	Software Engineering	NGIRI-2020-6075	Smart Electro System	27,310	2,750	30,060
485	MNS University of Agriculture, Multan	Main	Computer Science	NGIRI-2020-3856	Smart Waste Bin	69,800	9,950	79,750
486	MNS University of Agriculture, Multan	Main	Computer Science	NGIRI-2020-3920	Identification of Missing person (kidnapped) through Image processing	69,560	10,000	79,560
487	MNS University of Agriculture, Multan	Main	Computer Science	NGIRI-2020-3938	Student Engagement Detection in Classrooms through Facial expression and Sentiment Analysis	66,700	3,300	70,000
488	MNS University of Agriculture, Multan	Main	Computer Science	NGIRI-2020-3945	Improving Pakistan's Healthcare System through Process Mininng	70,000	-	70,000
489	MNS University of Agriculture, Multan	Main	Computer Science	NGIRI-2020-3995	Automated Rice Classification and Grading using Deep Learning	70,000	-	70,000
490	MNS University of Agriculture, Multan	Main	Computer Science & IT	NGIRI-2020-4856	Smart wheelchair for elderly and disabled people	66,700	3,300	70,000
491	MNS University of Agriculture, Multan	Main	Computer Science & IT	NGIRI-2020-3500	Automated Air and Sound Pollution Monitoring System	69,400	10,000	79,400
492	MNS University of Agriculture, Multan	Main	Computer Science & IT	NGIRI-2020-3600	Smart Poultry System	69,300	2,000	71,300
493	MNS University of Agriculture, Multan	Main	Computer Science & IT	NGIRI-2020-4001	Automatic Mango Variety Classification and Grading using Deep learnig	68,599	10,000	78,599
494	MNS University of Agriculture, Multan	Main	Information Technology	NGIRI-2020-3932	IOT based Vehicle speed control system	61,870	9,000	70,870
495	Muhammad Nawaz Sharif University of Engineering & Technology	Main	Electrical Engineering	NGIRI-2020-3895	SCADA System by using Labview	64,900	3,500	68,400

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
496	Namal College, Mianwali	Main	Electrical Engineering	NGIRI-2020-3644	Development of AC to AC Direct Matrix Converter	13,215	3,000	16,215
497	Namal College, Mianwali	Main	Electrical Engineering	NGIRI-2020-4463	Sensor less Control of Switched Reluctance Motor	38,062	-	38,062
498	National College of Business Administration & Economics (NCBA&E)	Multan	Computer Science	NGIRI-2020-3441	Variable Generalization Performance of a Pre Trained Model to Diagnose Pneumonia from Chest Xrays Images	69,000	3,500	72,500
499	National College of Business Administration & Economics (NCBA&E)	Multan	Computer Science	NGIRI-2020-3559	Web Based Law Firm	15,500	10,000	25,500
500	National College of Business Administration & Economics (NCBA&E)	Multan	Information Technology	NGIRI-2020-3812	Bluetooth Robot	22,700	2,000	24,700
501	National Textile University	Main	Computer Science	NGIRI-2020-5660	Alpha User Acquirer	67,200	10,000	77,200
502	National Textile University	Main	Computer Science	NGIRI-2020-4862	Interactive Stimulative Anatomy	55,000	10,000	65,000
503	National Textile University	Main	Computer Science	NGIRI-2020-3360	Automated Attendance System using Face Recognition	69,800	8,500	78,300
504	National Textile University	Main	Computer Science & IT	NGIRI-2020-5232	Connect Artisan to Fashion Houses for Value Chain Development and Employment	25,000	-	25,000
505	National Textile University	Main	Software Engineering	NGIRI-2020-3351	Augmented reality for indoor navigation	35,000	10,000	45,000
506	National University of Computer and Emerging Sciences (FAST-NU)	Chiniot-Faislabad	Computer Science	NGIRI-2020-5038	Bacterial Colony Classifier	33,000	9,000	42,000
507	National University of Computer and Emerging Sciences (FAST-NU)	Chiniot-Faislabad	Computer Science	NGIRI-2020-5007	Ride Safely	70,000	8,000	78,000
508	National University of Computer and Emerging Sciences (FAST-NU)	Chiniot-Faislabad	Computer Science	NGIRI-2020-6127	KinectCap	30,000	-	30,000
509	National University of Computer and Emerging Sciences (FAST-NU)	Chiniot-Faislabad	Computer Science	NGIRI-2020-4905	VR chemistry Lab	70,000	10,000	80,000
510	National University of Computer and Emerging Sciences (FAST-NU)	Chiniot-Faislabad	Computer Science	NGIRI-2020-5692	Deep Read	70,000	10,000	80,000

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
511	National University of Computer and Emerging Sciences (FAST-NU)	Chiniot-Faislabad	Electrical Engineering	NGIRI-2020-4691	Reliable Power Generation by Zero Head Micro Hydro	70,000	10,000	80,000
512	National University of Computer and Emerging Sciences (FAST-NU)	Chiniot-Faislabad	Electrical Engineering	NGIRI-2020-4925	Electricity Generation through low head micro-hydro turbine at Jhang Branch	70,000	10,000	80,000
513	National University of Computer and Emerging Sciences (FAST-NU)	Chiniot-Faislabad	Electrical Engineering	NGIRI-2020-6182	Design and Control of Electromagnetic Suspension of an Electric Vehicle using Halbach Arrays.	57,250	1,850	59,100
514	National University of Computer and Emerging Sciences (FAST-NU)	Chiniot-Faislabad	Electrical Engineering	NGIRI-2020-5808	Iot Based Remote Monitoring of Base Transceiver Station and Control	36,620	-	36,620
515	National University of Computer and Emerging Sciences (FAST-NU)	Chiniot-Faislabad	Electrical Engineering	NGIRI-2020-5655	Smart Incubator	45,000	-	45,000
516	National University of Computer and Emerging Sciences (FAST-NU)	Karachi	Computer Science	NGIRI-2020-6089	Smart Exam Surveillance System	70,000	-	70,000
517	National University of Computer and Emerging Sciences (FAST-NU)	Karachi	Computer Science	NGIRI-2020-5512	Patient Centric Healthcare using Blockchain with Epidemics Analysis	70,000	5,000	75,000
518	National University of Computer and Emerging Sciences (FAST-NU)	Karachi	Computer Science	NGIRI-2020-6454	Sentimentos	55,000	-	55,000
519	National University of Computer and Emerging Sciences (FAST-NU)	Karachi	Computer Science	NGIRI-2020-6043	VSAFE	70,000	-	70,000
520	National University of Computer and Emerging Sciences (FAST-NU)	Karachi	Electrical Engineering	NGIRI-2020-6155	Smart Green Building	34,640	-	34,640
521	National University of Computer and Emerging Sciences (FAST-NU)	Karachi	Electrical Engineering	NGIRI-2020-4544	Autonomous UAV based power line inspection	44,470	4,000	48,470
522	National University of Computer and Emerging Sciences (FAST-NU)	Karachi	Electrical Engineering	NGIRI-2020-5266	Automaid The Smart Vacuum	55,190	8,250	63,440
523	National University of Computer and Emerging Sciences (FAST-NU)	Karachi	Electrical Power Engineering	NGIRI-2020-5728	Gravity Assisted Energy Storage System	42,780	5,000	47,780
524	National University of Computer and Emerging Sciences (FAST-NU)	Main	Computer Science	NGIRI-2020-5265	Salah Tracker	70,000	-	70,000
525	National University of Computer and Emerging Sciences (FAST-NU)	Main	Computer Science	NGIRI-2020-3616	Decentralized Governance of Smart Transportation Using BlockChain	45,000	-	45,000

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
526	National University of Computer and Emerging Sciences (FAST-NU)	Main	Computer Science	NGIRI-2020-4163	Vital Signs Prediction from smart wearable devices	25,000	-	25,000
527	National University of Computer and Emerging Sciences (FAST-NU)	Main	Computer Science	NGIRI-2020-5906	KARAVAN (Smart traffic flow - design and formal verification)	53,550	-	53,550
528	National University of Computer and Emerging Sciences (FAST-NU)	Main	Computer Science	NGIRI-2020-5942	Traces	35,000	-	35,000
529	National University of Computer and Emerging Sciences (FAST-NU)	Main	Electrical Engineering	NGIRI-2020-3988	IOT Based Food and Medicine Quality Monitoring	67,904	5,336	73,240
530	National University of Computer and Emerging Sciences (FAST-NU)	Main	Electrical Engineering	NGIRI-2020-4199	Green Self Powered Air Water Harvester	60,126	10,000	70,126
531	National University of Computer and Emerging Sciences (FAST-NU)	Main	Electrical Engineering	NGIRI-2020-4790	Autonomous Robot	33,470	2,470	35,940
532	National University of Computer and Emerging Sciences (FAST-NU)	Peshawar	Computer Science	NGIRI-2020-4058	High Performance Computing Cluster using Raspberry Pi Node	67,904	9,700	77,604
533	National University of Computer and Emerging Sciences (FAST-NU)	Peshawar	Computer Science	NGIRI-2020-3622	IOT Based 3-D Motion Model Render	31,155	-	31,155
534	National University of Computer and Emerging Sciences (FAST-NU)	Peshawar	Electrical Engineering	NGIRI-2020-4954	GSM based Hybrid Geyser with Automatic Switching	69,800	9,000	78,800
535	National University of Modern Languages	Islamabad	Computer Science	NGIRI-2020-6244	Malaria Detection Using Machine Learning	38,500	10,000	48,500
536	National University of Modern Languages	Islamabad	Electrical Engineering	NGIRI-2020-5371	Remote Access to Multiple Controllers	69,900	10,000	79,900
537	National University of Modern Languages	Islamabad	Electrical Engineering	NGIRI-2020-5575	Talking Glove for Mute People	70,000	10,000	80,000
538	National University of Modern Languages	Islamabad	Electrical Engineering	NGIRI-2020-5750	Voice Controlled IoT based Home Automation System	69,500	10,000	79,500
539	National University of Modern Languages	Islamabad	Electrical Engineering	NGIRI-2020-5647	MultiPurpose Computer Numerical Control (CNC) Machine	68,800	10,000	78,800
540	National University of Modern Languages	Islamabad	Engineering and Sciences	NGIRI-2020-4839	Smart Eye Care System using Machine Learning	70,000	10,000	80,000

NGIRI 2020
LIST OF APPROVED FYP

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
541	National University of Modern Languages	Islamabad	Software Engineering	NGIRI-2020-4957	Vision Based Real Time Indoor Navigation with Augmented Reality	54,000	10,000	64,000
542	National University of Modern Languages	Islamabad	Software Engineering	NGIRI-2020-3026	IoT Based Smart Waste Management System	69,800	8,800	78,600
543	National University of Science and Technology (NUST)	(CAE) College of Aeronautical Engineering	Avionics Engineering	NGIRI-2020-4152	Digital Terrain Map using LiDAR sensor for ground based and airborne applications	70,000	10,000	80,000
544	National University of Science and Technology (NUST)	(CAE) College of Aeronautical Engineering	Avionics Engineering	NGIRI-2020-4847	Formation Flight of Quadcopters in Real Time	70,000	-	70,000
545	National University of Science and Technology (NUST)	(CAE) College of Aeronautical Engineering	Avionics Engineering	NGIRI-2020-4115	FOD detection using Intelligent Computer Vision Techniques	53,000	-	53,000
546	National University of Science and Technology (NUST)	(CAE) College of Aeronautical Engineering	Avionics Engineering	NGIRI-2020-4220	Design and Development of Smart Attendance System for Next Generation Classroom	66,000	-	66,000
547	National University of Science and Technology (NUST)	(CAE) College of Aeronautical Engineering	Avionics/Aeronautical Engineering	NGIRI-2020-4837	Development of Speed Gun Radar	69,450	10,000	79,450
548	National University of Science and Technology (NUST)	(CAE) College of Aeronautical Engineering	Avionics/Aeronautical Engineering	NGIRI-2020-4105	Design fabrication and testing of scale down model of lighter than air craft for tactical surveillance platform	70,000	4,500	74,500
549	National University of Science and Technology (NUST)	(CAE) College of Aeronautical Engineering	Avionics/Aeronautical Engineering	NGIRI-2020-4243	Design of Rocket Motor for Assisted Takeoff of Target Drone	70,000	-	70,000
550	National University of Science and Technology (NUST)	(PNEC) Pakistan Naval Engineering College	Electrical/Electronics Engineering	NGIRI-2020-5133	Design and Development of a Wall Traversing Robot for Diverse Applications	62,200	3,600	65,800
551	National University of Science and Technology (NUST)	CEME	Computer Engineering	NGIRI-2020-3791	VRAM	70,000	10,000	80,000
552	National University of Science and Technology (NUST)	CEME	Computer Engineering	NGIRI-2020-4832	UWB Radar Based Detection System	66,750	9,840	76,590
553	National University of Science and Technology (NUST)	CEME	Mechatronics Engineering	NGIRI-2020-3691	StairLift for Elderly	70,000	10,000	80,000
554	National University of Science and Technology (NUST)	CEME	Mechatronics Engineering	NGIRI-2020-6237	Agri Pro Integrated Underground Crops Harvester	70,000	10,000	80,000
555	National University of Science and Technology (NUST)	CEME	Mechatronics Engineering	NGIRI-2020-5101	Greenhouse Automation System	55,000	5,000	60,000

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
556	National University of Science and Technology (NUST)	CEME	Mechatronics Engineering	NGIRI-2020-3958	Design and development of an automated can filling machine	25,081	6,600	31,681
557	National University of Science and Technology (NUST)	CEME	Mechatronics Engineering	NGIRI-2020-3098	Agribot	35,800	1,000	36,800
558	National University of Science and Technology (NUST)	Main	Electrical Engineering	NGIRI-2020-6420	UAV assisted device to device communication for disaster management	70,000	-	70,000
559	National University of Science and Technology (NUST)	Main	Electrical Engineering	NGIRI-2020-6242	Image Upscaling using Deep Neural Networks	65,000	6,000	71,000
560	National University of Science and Technology (NUST)	Main	Electrical Engineering	NGIRI-2020-6399	Custom Hardware Accelerator for Inference of Compressed Sparse Convolutional Neural Networks	47,000	-	47,000
561	National University of Science and Technology (NUST)	Main	Electrical Engineering	NGIRI-2020-5056	Leg Amputee Automated Prosthesis	35,200	6,755	41,955
562	National University of Science and Technology (NUST)	Main	Electrical/Electronics Engineering	NGIRI-2020-3162	CrasAir	63,431	6,500	69,931
563	National University of Science and Technology (NUST)	MCS	Computer Science	NGIRI-2020-6099	SPYDR	70,000	10,000	80,000
564	National University of Science and Technology (NUST)	MCS	Electrical Engineering	NGIRI-2020-5136	Non Invasive Blood Glucometer	67,700	9,800	77,500
565	National University of Science and Technology (NUST)	MCS	Electrical Engineering	NGIRI-2020-3183	Smart Secure USB	69,400	10,000	79,400
566	National University of Science and Technology (NUST)	MCS	Electrical Engineering	NGIRI-2020-3239	Automation of Eye Vision Test based on Speech Recognition	31,000	10,000	41,000
567	National University of Science and Technology (NUST)	MCS	Electrical Engineering	NGIRI-2020-3433	Patient Healthcare System	20,000	-	20,000
568	National University of Science and Technology (NUST)	MCS	Electrical Engineering	NGIRI-2020-5622	AVERROES	70,000	10,000	80,000
569	National University of Science and Technology (NUST)	MCS	Software Engineering	NGIRI-2020-3367	Emergency Medical Transfer Service	70,000	-	70,000
570	National University of Science and Technology (NUST)	MCS	Software Engineering	NGIRI-2020-5623	OCR for Urdu in Nastaleeq font	51,000	9,700	60,700

NGIRI 2020
LIST OF APPROVED FYP

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
571	National University of Science and Technology (NUST)	MCS	Software Engineering	NGIRI-2020-3193	VioDet	61,215	7,000	68,215
572	National University of Science and Technology (NUST)	MCS	Software Engineering	NGIRI-2020-4875	Rice Sorter	68,300	10,000	78,300
573	National University of Science and Technology (NUST)	MCS	Software Engineering	NGIRI-2020-4398	Anti Ghost	69,000	7,250	76,250
574	National University of Science and Technology (NUST)	MCS	Telecom Engineering	NGIRI-2020-3449	Bridget	70,000	10,000	80,000
575	NED University of Engineering & Technology	Karachi	Biomedical Engineering	NGIRI-2020-5648	Fabrication and characterization of a blood congealing hydrogel for wound dressing	56,000	7,500	63,500
576	NED University of Engineering & Technology	Karachi	Biomedical Engineering	NGIRI-2020-5297	Fabrication and Characterization of Bioactive Bone Cement	7,510	10,000	17,510
577	NED University of Engineering & Technology	Karachi	Biomedical Engineering	NGIRI-2020-3490	Back in Control	60,000	9,900	69,900
578	NED University of Engineering & Technology	Karachi	Biomedical Engineering	NGIRI-2020-3487	Smart Brain Traineer	59,000	10,000	69,000
579	NED University of Engineering & Technology	Karachi	Computer & Information System	NGIRI-2020-6302	Acoustic modelling using deep learning for Quran recitation assistance	67,500	2,000	69,500
580	NED University of Engineering & Technology	Karachi	Computer & Information System	NGIRI-2020-6430	Robotic Vacuum Cleaner	6,372	-	6,372
581	NED University of Engineering & Technology	Karachi	Computer & Information System	NGIRI-2020-6481	Plant Dashboard for Perfect Day	70,000	-	70,000
582	NED University of Engineering & Technology	Karachi	Computer & Information System	NGIRI-2020-6241	Development of Virtual Patient Simulator	30,780	8,000	38,780
583	NED University of Engineering & Technology	Karachi	Computer & Information System	NGIRI-2020-5446	Aquaculture Monitoring Using IoT	70,000	8,000	78,000
584	NED University of Engineering & Technology	Karachi	Computer Science & IT	NGIRI-2020-5676	Expert Planner	35,000	10,000	45,000
585	NED University of Engineering & Technology	Karachi	Computer Science & IT	NGIRI-2020-5685	Video Surveillance-Based Traffic Management System	70,000	-	70,000

NGIRI 2020
LIST OF APPROVED FYP

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
586	NED University of Engineering & Technology	Karachi	Computer System Engineering	NGIRI-2020-6331	Sketch Based Image Retrieval	50,000	-	50,000
587	NED University of Engineering & Technology	Karachi	Computing and Technology	NGIRI-2020-6341	Pocket Advisor - Robo Advisory for Investor’S Decision Making	70,000	10,000	80,000
588	NED University of Engineering & Technology	Karachi	Electrical	NGIRI-2020-4571	Ligature Segmentation of Urdu OCR	70,000	-	70,000
589	NED University of Engineering & Technology	Karachi	Electrical Engineering	NGIRI-2020-4584	Design of Networked Haptics Gaming Console	70,000	9,900	79,900
590	NED University of Engineering & Technology	Karachi	Electrical Engineering	NGIRI-2020-4492	Design of DC On Grid Synchronization With Automatic Load Sharing	70,000	10,000	80,000
591	NED University of Engineering & Technology	Karachi	Electrical Engineering	NGIRI-2020-3324	Designing of Motorized Wheelchair With Brain Computer Interface System To Fully Conetrol It for Als Patints.	38,450	10,000	48,450
592	NED University of Engineering & Technology	Karachi	Electrical Engineering	NGIRI-2020-4488	Three Phase Pre-Paid Smart Energy Meter with GSM Module for Load Management	63,270	10,000	73,270
593	NED University of Engineering & Technology	Karachi	Electrical Engineering	NGIRI-2020-4594	Remotely Controlled Search and Rescue Rover	69,000	6,000	75,000
594	NED University of Engineering & Technology	Karachi	Electronics	NGIRI-2020-3028	Automated Self-Cleaning Solar Panel	30,880	-	30,880
595	NED University of Engineering & Technology	Karachi	Electronics	NGIRI-2020-3153	IOT based paint drying oven using PLC	34,400	10,000	44,400
596	NED University of Engineering & Technology	Karachi	Electronics	NGIRI-2020-5658	preDoct A disease diagnostic error reduction and data transformation machine	67,999	9,999	77,998
597	NED University of Engineering & Technology	Karachi	Electronics	NGIRI-2020-5767	Real Time Air Quality Monitoring and forecasting by Eye in the Sky	69,910	10,000	79,910
598	NED University of Engineering & Technology	Karachi	Electronics	NGIRI-2020-5966	Cloud Based Monitoring and Control of Overhead Power Distribution Lines	32,450	8,000	40,450
599	NED University of Engineering & Technology	Karachi	Electronics Engineeering	NGIRI-2020-4783	Smart Skin Burn Device	38,000	9,000	47,000
600	NED University of Engineering & Technology	Karachi	Electronics Engineeering	NGIRI-2020-6042	Text Reading Assistant for visually impaired people	31,500	5,000	36,500

NGIRI 2020
LIST OF APPROVED FYP

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
601	NED University of Engineering & Technology	Karachi	Electronics Engineering	NGIRI-2020-5667	Autonomous Standing Wheelchair with a Smart Driving Mode.	69,700	10,000	79,700
602	NED University of Engineering & Technology	Karachi	Electronics Engineering	NGIRI-2020-6112	Robotic prosthetic arm	64,660	300	64,960
603	NED University of Engineering & Technology	Karachi	Electronics Engineering	NGIRI-2020-5814	Intelligent Lane Detection using Artificial Intelligence	21,823	2,500	24,323
604	NED University of Engineering & Technology	Karachi	Engineering and Sciences	NGIRI-2020-5656	Modification and characterization of stab resistant armor	45,280	6,500	51,780
605	NED University of Engineering & Technology	Karachi	Mechanical Engineering	NGIRI-2020-5696	Experimental Investigation of 1 KW River Turbine In Naran and Gilgit Region	67,500	2,000	69,500
606	NED University of Engineering & Technology	Karachi	Mechanical Engineering	NGIRI-2020-5116	Part Detailing of an EV three Wheeler along with FES	62,040	-	62,040
607	NED University of Engineering & Technology	Karachi	Mechanical Engineering	NGIRI-2020-5587	Renewable thermal cool chain	70,000	10,000	80,000
608	NED University of Engineering & Technology	Karachi	Mechanical Engineering	NGIRI-2020-6017	Numerical Study to Investigate Heat and Fluid Flow Characteristics of a Roughened Solar Air Heater	50,000	-	50,000
609	NED University of Engineering & Technology	Karachi	Mechanical Engineering	NGIRI-2020-5511	Twin Turbo Cross Tubular Combustor Through Turbo Charger (TTX2TT)	54,500	6,000	60,500
610	NED University of Engineering & Technology	Karachi	Software Engineering	NGIRI-2020-5669	BusKaro	70,000	10,000	80,000
611	NED University of Engineering & Technology	Karachi	Software Engineering	NGIRI-2020-4236	Filderit	69,501	10,000	79,501
612	NED University of Engineering & Technology	Karachi	Software Engineering	NGIRI-2020-4576	All In One Health Application	70,000	10,000	80,000
613	NED University of Engineering & Technology	Karachi	Software Engineering	NGIRI-2020-5757	SpotShot	45,000	-	45,000
614	NED University of Engineering & Technology	Karachi	Telecom Engineering	NGIRI-2020-5533	TAN: Technology Assisted Navigation for visually-impaired	47,100	10,000	57,100
615	NED University of Engineering & Technology	Karachi	Telecom Engineering	NGIRI-2020-4228	IOT based Smart synchronized clock	30,200	7,000	37,200

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
616	NED University of Engineering & Technology	Karachi	Telecom Engineering	NGIRI-2020-3454	Hazardous Environment Monitoring using Raspberry Pi Based Network	18,875	-	18,875
617	NED University of Engineering & Technology	Karachi	Telecom Engineering	NGIRI-2020-3919	Smart Helmet	29,980	7,000	36,980
618	NED University of Engineering & Technology	Karachi	Telecom Engineering	NGIRI-2020-4301	Smart Metering using POWER LINE COMMUNICATION	69,045	9,750	78,795
619	NFC Institute of Engineerign and Technology (NFC-UET)	Multan	Electrical	NGIRI-2020-5437	CNC Engraving and Milling Machine	36,250	6,600	42,850
620	NFC Institute of Engineerign and Technology (NFC-UET)	Multan	Electrical	NGIRI-2020-5680	HVDC Grid Model	32,500	3,480	35,980
621	NFC Institute of Engineerign and Technology (NFC-UET)	Multan	Electrical Engineering	NGIRI-2020-3065	PLC based load management system at a consumer level	56,500	8,820	65,320
622	NFC Institute of Engineerign and Technology (NFC-UET)	Multan	Electrical Engineering	NGIRI-2020-3565	Tree Climbing Robot	55,110	7,500	62,610
623	NFC Institute of Engineerign and Technology (NFC-UET)	Multan	Electrical Engineering	NGIRI-2020-5759	Student	66,158	-	66,158
624	NFC Institute of Engineerign and Technology (NFC-UET)	Multan	Electrical Power Engineering	NGIRI-2020-3788	Voice Controlled Wheel Chair using android Technology	40,600	4,500	45,100
625	NFC Institute of Engineerign and Technology (NFC-UET)	Multan	Electrical Power Engineering	NGIRI-2020-5697	Controlling Induction Motor Speed by H bridge 7 phase Inverter for the Electric Car	69,088	-	69,088
626	NFC Institute of Engineerign and Technology (NFC-UET)	Multan	Electrical Power Engineering	NGIRI-2020-5604	Grid tied inverter	21,840	3,000	24,840
627	NFC Institute of Engineerign and Technology (NFC-UET)	Multan	Electrical Power Engineering	NGIRI-2020-6074	Vehicle Management of NFC IET Parking Plaza	50,200	6,600	56,800
628	NFC Institute of Engineerign and Technology (NFC-UET)	Multan	Electrical/Electronics Engineering	NGIRI-2020-5686	Cellphone Signal Booster	40,735	10,000	50,735
629	PAF Karachi Institute of Economics and Technology	Main	Avionics Engineering	NGIRI-2020-3902	Antenna Trainer	65,000	4,900	69,900
630	PAF Karachi Institute of Economics and Technology	Main	Avionics Engineering	NGIRI-2020-3903	Direction finding electromagnetic lens antenna array	68,000	10,000	78,000

NGIRI 2020
LIST OF APPROVED FYP

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
631	PAF Karachi Institute of Economics and Technology	Main	Avionics Engineering	NGIRI-2020-5207	Design of AESA Radar TR Module Using COTS Components	69,597	-	69,597
632	PAF Karachi Institute of Economics and Technology	Main	Avionics Engineering	NGIRI-2020-4713	High Endurance Autonomous Hybrid Drone	70,000	10,000	80,000
633	PAF Karachi Institute of Economics and Technology	Main	Avionics Engineering	NGIRI-2020-5307	Low Cost Antenna Trainer (Transmitter) With Multiple Antennas	61,392	7,600	68,992
634	PAF Karachi Institute of Economics and Technology	Main	Computer Science	NGIRI-2020-5044	IoT based person wheelchair fall detection and Health monitoring system	17,730	3,000	20,730
635	PAF Karachi Institute of Economics and Technology	Main	Computer Science	NGIRI-2020-5111	Classification of ECG data using Deep learning techniques	70,000	10,000	80,000
636	PAF Karachi Institute of Economics and Technology	Main	Computer Science	NGIRI-2020-5070	Smart City	60,900	-	60,900
637	PAF Karachi Institute of Economics and Technology	Main	Computer Science	NGIRI-2020-3265	Smart Mirror with Smart door	33,000	6,400	39,400
638	PAF Karachi Institute of Economics and Technology	Main	Computer Science	NGIRI-2020-5088	Virtual taleem	-	8,000	8,000
639	PAF Karachi Institute of Economics and Technology	Main	Electrical Engineering	NGIRI-2020-4196	IoT base SCADA system for industries	23,700	9,000	32,700
640	PAF Karachi Institute of Economics and Technology	Main	Information & Communication Technology	NGIRI-2020-5064	Criminal Records Management System	-	-	-
641	PAF Karachi Institute of Economics and Technology	North Campus	Computer Science	NGIRI-2020-5014	Smart Person Tracking	70,000	-	70,000
642	PAF Karachi Institute of Economics and Technology	North Campus	Computer Science	NGIRI-2020-4468	Magic Farm	69,980	10,000	79,980
643	PAF Karachi Institute of Economics and Technology	North Campus	Computer Science	NGIRI-2020-4462	Military Spy and Bomb Disposal Robot	68,680	10,000	78,680
644	PAF Karachi Institute of Economics and Technology	North Campus	Computer Science	NGIRI-2020-3512	Vehicle Accident Alert and Prevention System	67,850	10,000	77,850
645	PAF Karachi Institute of Economics and Technology	North Campus	Computer Science	NGIRI-2020-4088	Hexapod Spider	69,560	9,800	79,360

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
646	Pakistan Institute of Engineering & Technology, Multan	Multan	Electrical Engineering	NGIRI-2020-3382	IoT Based Tunnel Farming	57,920	9,950	67,870
647	Pakistan Institute of Engineering & Technology, Multan	Multan	Electrical Engineering	NGIRI-2020-5117	automatic car parking system	60,000	10,000	70,000
648	Pakistan Institute of Engineering and Applied Sciences (PIEAS)	Islamabad	Electrical Engineering	NGIRI-2020-3146	Design and Development of Prototype Maglev Train	56,675	900	57,575
649	Pakistan Institute of Engineering and Applied Sciences (PIEAS)	Islamabad	Electrical Engineering	NGIRI-2020-5224	Gimbal Based Robotic Eye for Fast Moving Stimulus in Dynamic Social Environment	50,500	1,500	52,000
650	PMAS - Arid Agriculture University	University Institute of Information	Computer Science	NGIRI-2020-6069	Leave Identification and Disease Detection Through Rasberry Pi	41,122	5,410	46,532
651	PMAS - Arid Agriculture University	University Institute of Information	Computer Science	NGIRI-2020-5140	Dumb Recognizer	61,180	8,800	69,980
652	PMAS - Arid Agriculture University	University Institute of Information	Computer Science & IT	NGIRI-2020-3868	Brain Signals Mobile App for Paralyzed Person	66,616	3,000	69,616
653	PMAS - Arid Agriculture University	University Institute of Information	Computer Science & IT	NGIRI-2020-3640	Phobia Therapy In Virtual Reality	69,780	500	70,280
654	PMAS - Arid Agriculture University	University Institute of Information	Information Technology	NGIRI-2020-5364	Virtual Pool Shots	69,940	4,000	73,940
655	PMAS - Arid Agriculture University	University Institute of Information	Information Technology	NGIRI-2020-5282	IOT Based Smart Health monitoring system	60,000	-	60,000
656	PMAS - Arid Agriculture University	University Institute of Information	Information Technology	NGIRI-2020-6253	VR Ping pong	70,000	10,000	80,000
657	PMAS - Arid Agriculture University	University Institute of Information	Information Technology	NGIRI-2020-3638	IoT based Phytoremediation Process Monitoring	69,490	5,500	74,990
658	PMAS - Arid Agriculture University	University Institute of Information	UIIT	NGIRI-2020-4977	IOT Based Smart Helmet for Accident Detection	58,200	4,500	62,700
659	PMAS - Arid Agriculture University	University Institute of Information	UIIT	NGIRI-2020-6170	Intelligent Farmer	62,000	-	62,000
660	PMAS - Arid Agriculture University	University Institute of Information	UIIT	NGIRI-2020-6266	IoT Based Smart Aquarium Monitoring System	62,900	5,100	68,000

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
661	Quaid-e-Awam University of Engineering, Science & Technology (QUEST)	Nawabshah	Computer & Information System	NGIRI-2020-4512	QUEST Point Tracking System	64,453	9,999	74,452
662	Quaid-e-Awam University of Engineering, Science & Technology (QUEST)	Nawabshah	Computer System Engineering	NGIRI-2020-6102	Location Enabled Smart Stick for Visually Impaired People	40,972	3,000	43,972
663	Quaid-e-Awam University of Engineering, Science & Technology (QUEST)	Nawabshah	Computer System Engineering	NGIRI-2020-3828	IoT Based Health Care System	27,500	10,000	37,500
664	Quaid-e-Awam University of Engineering, Science & Technology (QUEST)	Nawabshah	Computer System Engineering	NGIRI-2020-3986	Smart Mirror using IOT	40,000	6,000	46,000
665	Quaid-e-Awam University of Engineering, Science & Technology (QUEST)	Nawabshah	Electronics	NGIRI-2020-4849	Identify technique for entrance system	31,560	7,500	39,060
666	Quaid-e-Awam University of Engineering, Science & Technology (QUEST)	Nawabshah	Electronics Engineeering	NGIRI-2020-5775	FPGA and Deep Learning Based Real Time Face Recognition System for E Voting System	69,500	10,000	79,500
667	Quaid-e-Awam University of Engineering, Science & Technology (QUEST)	Nawabshah	Electronics Engineeering	NGIRI-2020-5316	Vision based object detection and manipulation by four Dof robotic manipulator	65,000	5,000	70,000
668	Quaid-e-Awam University of Engineering, Science & Technology (QUEST)	Nawabshah	Electronics Engineeering	NGIRI-2020-3314	Optical fiber communication system	10,985	5,650	16,635
669	Quaid-e-Awam University of Engineering, Science & Technology (QUEST)	Nawabshah	Electronics Engineeering	NGIRI-2020-4142	IoT based vehicle tracking and accident detection system	64,500	10,000	74,500
670	Quaid-e-Awam University of Engineering, Science & Technology (QUEST)	Nawabshah	Electronics Engineeering	NGIRI-2020-5309	Fog Detection and Visibility Distance Estimation System	69,000	10,000	79,000
671	Quaid-e-Awam University of Engineering, Science & Technology (QUEST)	Nawabshah	Information Technology	NGIRI-2020-3974	QUEST Examination Management System	47,104	-	47,104
672	Quaid-e-Awam University of Engineering, Science & Technology (QUEST)	Nawabshah	Telecom Engineering	NGIRI-2020-3671	Automatic Vehicle Accident Detection and Rescue System	12,270	5,700	17,970
673	Quaid-e-Awam University of Engineering, Science & Technology (QUEST)	Nawabshah	Telecom Engineering	NGIRI-2020-3577	Gesture Control Language Translator	26,470	3,600	30,070
674	Quaid-e-Azam University	Main	Computer Science	NGIRI-2020-5448	General Purpose Social Media Analytics	68,000	10,000	78,000
675	Quaid-e-Azam University	Main	Computer Science	NGIRI-2020-4699	Grievances Detection System	70,000	9,500	79,500

NGIRI 2020
LIST OF APPROVED FYP

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
676	Quaid-e-Azam University	Main	Computer Science	NGIRI-2020-5165	A Personal Stress Monitoring and Relieving System	65,000	10,000	75,000
677	Quaid-e-Azam University	Main	Computer Science	NGIRI-2020-3984	Robot Platoon	40,000	10,000	50,000
678	Quaid-e-Azam University	Main	Computer Science	NGIRI-2020-3983	Vehicle Number Plate Identification System	45,130	10,000	55,130
679	Riphah International University	Faisalabad	Electrical Engineering	NGIRI-2020-4495	Smart Monitoring and controlling of Industrial air compressor	61,490	2,780	64,270
680	Riphah International University	Faisalabad	Electrical Engineering	NGIRI-2020-4491	Wireless Speed Control and Protection of induction motor	20,172	8,100	28,272
681	Riphah International University	Faisalabad	Electrical Engineering	NGIRI-2020-3341	Developing a Smart Energy Meter for Distant Monitoring with Smart Control to Prevent Energy Thefts and Support Wise Load Management	12,650	8,000	20,650
682	Riphah International University	Faisalabad	Electrical Engineering	NGIRI-2020-4471	Energy efficient monitor and controlling of conveyor belt using PLC.	66,850	3,900	70,750
683	Riphah International University	Faisalabad	Software Engineering	NGIRI-2020-5273	Implementation of Deep Learning based Neural Network Algorithm for Intracranial Haemorrhage Detection	70,000	6,000	76,000
684	Riphah International University	Islamabad	Biomedical Engineering	NGIRI-2020-4420	Development of Assistive device for lower limb disorder	61,480	8,400	69,880
685	Riphah International University	Islamabad	Biomedical Engineering	NGIRI-2020-3526	DesignÂ of Low-Cost and Soft Ankle-FootÂ OrthosisÂ for Post-Stroke Patients	61,002	10,000	71,002
686	Riphah International University	Islamabad	Biomedical Engineering	NGIRI-2020-4104	Tackling Intellichair for Allocated Nonwalkers	37,075	6,902	43,977
687	Riphah International University	Islamabad	Biomedical Engineering	NGIRI-2020-4360	Early diagnosis of Parkinsonâ€™s disease using speech recognition.	44,500	10,000	54,500
688	Riphah International University	Islamabad	Biomedical Engineering	NGIRI-2020-4374	Correlation of Balance assessment tool with motion analysis parameter	32,740	5,000	37,740
689	Riphah International University	Islamabad	Electrical Engineering	NGIRI-2020-5167	Solar powered smart Irrigation system	57,068	10,000	67,068
690	Riphah International University	Islamabad	Electrical Engineering	NGIRI-2020-4601	A non invasive system for pre diagnosing of human digestive disorders	69,500	5,000	74,500

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
691	Riphah International University	Islamabad	Electrical Engineering	NGIRI-2020-5931	Car Automation	25,680	2,620	28,300
692	Riphah International University	Islamabad	Electrical Engineering	NGIRI-2020-5736	Development of Robot arm prosthetic with feedback control system	62,770	10,000	72,770
693	Riphah International University	Islamabad	Electrical Engineering	NGIRI-2020-5549	Synthesis and design of Reconfigurable microstrip filter	70,000	10,000	80,000
694	Riphah International University	Islamabad	Software Engineering	NGIRI-2020-3713	Hydrofarm- A HomeBased Hydroponics Farming Solution	63,790	7,500	71,290
695	Riphah International University	Islamabad	Software Engineering	NGIRI-2020-4174	Smart Poultry Manager	43,550	-	43,550
696	Riphah International University	Islamabad	Software Engineering	NGIRI-2020-4991	House Finder	53,251	-	53,251
697	Riphah International University	Islamabad	Software Engineering	NGIRI-2020-3418	Cloud Stitch	69,000	-	69,000
698	Riphah International University	Islamabad	Software Engineering	NGIRI-2020-5322	Smart Agriculture System	64,200	-	64,200
699	Sarhad University of Science and IT	Main	Electrical Engineering	NGIRI-2020-3376	Aquaculture monitoring and controlling	64,500	-	64,500
700	Shah Abdul Latif University, Khairpur	Khairpur	Computer Science	NGIRI-2020-5704	Effective Quick Response Smart Stick for Blind People	64,710	7,763	72,473
701	Shah Abdul Latif University, Khairpur	Khairpur	Computer Science	NGIRI-2020-4944	Smart Dustbin	3,000	7,500	10,500
702	Shah Abdul Latif University, Khairpur	Khairpur	Computer Science	NGIRI-2020-4937	e-Complaint Redress Portal	60,000	-	60,000
703	Shah Abdul Latif University, Khairpur	Khairpur	Computer Science	NGIRI-2020-5638	Digital Department with Paperless Environment	52,000	10,000	62,000
704	Shaheed Zulfikar Ali Bhutto Institute of Science and Technology (SZABIST)	Islamabad	Computer Science	NGIRI-2020-4651	Secure Pick and Drop System for Kids	50,000	-	50,000
705	Shaheed Zulfikar Ali Bhutto Institute of Science and Technology (SZABIST)	Islamabad	Computer Science	NGIRI-2020-5100	Blood on Click	50,000	-	50,000

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
706	Shaheed Zulfikar Ali Bhutto Institute of Science and Technology (SZABIST)	Islamabad	Computer Science	NGIRI-2020-3629	Stuttering Assessment System	70,000	10,000	80,000
707	Shaheed Zulfikar Ali Bhutto Institute of Science and Technology (SZABIST)	Islamabad	Computer Science	NGIRI-2020-4516	Hire a Handymen	67,700	-	67,700
708	Shaheed Zulfikar Ali Bhutto Institute of Science and Technology (SZABIST)	Larkana	Computer Science	NGIRI-2020-3366	Autonomous Driver Sleep Detection	22,050	9,000	31,050
709	Shaheed Zulfikar Ali Bhutto Institute of Science and Technology (SZABIST)	Main	Computer Science	NGIRI-2020-5893	Realty Bitvisor	-	-	-
710	Shaheed Zulfikar Ali Bhutto Institute of Science and Technology (SZABIST)	Main	Computer Science	NGIRI-2020-5404	Urdu Extractive Summarizer	-	9,850	9,850
711	Shaheed Zulfikar Ali Bhutto Institute of Science and Technology (SZABIST)	Main	Computer Science	NGIRI-2020-5745	eQra	54,200	2,100	56,300
712	Shaheed Zulfikar Ali Bhutto Institute of Science and Technology (SZABIST)	Main	Computer Science	NGIRI-2020-5408	Question ERA	-	9,700	9,700
713	Shaheed Zulfikar Ali Bhutto Institute of Science and Technology (SZABIST)	Main	Computer Science	NGIRI-2020-6373	ZabOPS	-	10,000	10,000
714	Shaheed Zulfikar Ali Bhutto Institute of Science and Technology (SZABIST)	Main	Mechatronics Engineering	NGIRI-2020-3771	Design and Fabricstion of Hydroponic Plant Machine and Monitoring of Hydroponic Plant in Controlled Environment	69,810	8,780	78,590
715	Shaheed Zulfikar Ali Bhutto Institute of Science and Technology (SZABIST)	Main	Mechatronics Engineering	NGIRI-2020-3909	Sustainable Automated Guided Vehicle	69,907	-	69,907
716	Shaheed Zulfikar Ali Bhutto Institute of Science and Technology (SZABIST)	Main	Mechatronics Engineering	NGIRI-2020-3218	Smart Industrial Manufacturing Process for CNC Lathe Machine	69,400	9,950	79,350
717	Shaheed Zulfikar Ali Bhutto Institute of Science and Technology (SZABIST)	Main	Mechatronics Engineering	NGIRI-2020-4045	Farmo-matics	60,105	3,950	64,055
718	Shaheed Zulfikar Ali Bhutto Institute of Science and Technology (SZABIST)	Main	Mechatronics Engineering	NGIRI-2020-4963	Smart Painting Line	69,929	3,800	73,729
719	Sindh Agrculture University	Tando Jam	Information Technology	NGIRI-2020-6317	Design and Implementation of Centralized Wi-Fi Access point Controller for Secure LAN	65,000	2,400	67,400
720	Sindh Agrculture University	Tando Jam	Information Technology	NGIRI-2020-6040	Site-to-vpn organization network	69,000	-	69,000

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
721	Sir Syed University of Engineering and Technology (SSUET)	Main	Computer Engineering	NGIRI-2020-3286	Facile Yield Analyzer	64,397	8,000	72,397
722	Sir Syed University of Engineering and Technology (SSUET)	Main	Computer Engineering	NGIRI-2020-3798	The Driver Drowsiness Detection System for Safe Journey	15,000	3,000	18,000
723	Sir Syed University of Engineering and Technology (SSUET)	Main	Computer Engineering	NGIRI-2020-5473	GPS and GSM monitoring system	45,500	2,500	48,000
724	Sir Syed University of Engineering and Technology (SSUET)	Main	Computer Engineering	NGIRI-2020-4648	Talaash	40,000	8,000	48,000
725	Sir Syed University of Engineering and Technology (SSUET)	Main	Computer Engineering	NGIRI-2020-4422	Smart Product Showcase	47,300	3,100	50,400
726	Sir Syed University of Engineering and Technology (SSUET)	Main	Computer Science	NGIRI-2020-4682	F.R.I.D.A.Y	8,550	3,000	11,550
727	Sir Syed University of Engineering and Technology (SSUET)	Main	Computer Science	NGIRI-2020-5008	IOT based child monitoring	13,200	-	13,200
728	Sir Syed University of Engineering and Technology (SSUET)	Main	Computer Science	NGIRI-2020-4345	Premature detection of Superficial Spreading Melanoma using machine learning	-	6,172	6,172
729	Sir Syed University of Engineering and Technology (SSUET)	Main	Computer Science	NGIRI-2020-4344	Android based nodular application using CNN algorithm	-	9,240	9,240
730	Sir Syed University of Engineering and Technology (SSUET)	Main	Computer Science	NGIRI-2020-4385	Skin epidemic detection using Machine learning	52,000	-	52,000
731	Sir Syed University of Engineering and Technology (SSUET)	Main	Computer Science & IT	NGIRI-2020-5024	BUAJ	56,000	-	56,000
732	Sir Syed University of Engineering and Technology (SSUET)	Main	Electrical Engineering	NGIRI-2020-5190	Automatic sorting Machine	69,960	10,000	79,960
733	Sir Syed University of Engineering and Technology (SSUET)	Main	Electronics	NGIRI-2020-4720	Android Smart Mirror Using Raspberry Pi Four	63,840	6,160	70,000
734	Sir Syed University of Engineering and Technology (SSUET)	Main	Electronics	NGIRI-2020-3461	Atmospheric Water Generator	59,250	9,000	68,250
735	Sir Syed University of Engineering and Technology (SSUET)	Main	Electronics Engineeering	NGIRI-2020-5452	Machine Learning Based ECO Friendly Autonomous Car	60,000	-	60,000

NGIRI 2020
LIST OF APPROVED FYP

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
736	Sir Syed University of Engineering and Technology (SSUET)	Main	Electronics Engineeering	NGIRI-2020-5563	EMG Based Artificial Prosthetic Hand	66,990	-	66,990
737	Sir Syed University of Engineering and Technology (SSUET)	Main	Electronics Engineeering	NGIRI-2020-4085	Face Recognition Based Attendance System with Room Monitoring and Control	70,000	10,000	80,000
738	Sir Syed University of Engineering and Technology (SSUET)	Main	Electronics Engineeering	NGIRI-2020-3292	Pyrolysis of Plastic to Fuel	59,780	9,000	68,780
739	Sir Syed University of Engineering and Technology (SSUET)	Main	Electronics Engineeering	NGIRI-2020-4687	Soli Fertilitatis Arbusto	70,000	4,200	74,200
740	Sir Syed University of Engineering and Technology (SSUET)	Main	Information Technology	NGIRI-2020-4970	Depression Miner	30,000	2,000	32,000
741	Sir Syed University of Engineering and Technology (SSUET)	Main	Software Engineering	NGIRI-2020-3295	Doctor Drone	69,700	-	69,700
742	Sir Syed University of Engineering and Technology (SSUET)	Main	Software Engineering	NGIRI-2020-4698	Search and Surveillance AI Based Drone Car	68,100	-	68,100
743	Sir Syed University of Engineering and Technology (SSUET)	Main	Software Engineering	NGIRI-2020-3942	SPY EYE	31,500	2,500	34,000
744	Sir Syed University of Engineering and Technology (SSUET)	Main	Telecom Engineering	NGIRI-2020-4522	IOT Based Power Management System of Data Center.	31,274	3,230	34,504
745	Sukkur IBA University	Main	Computer Science	NGIRI-2020-5851	Intelligent Emotion Prediction from voice for call centers	64,400	3,000	67,400
746	Sukkur IBA University	Main	Computer Science	NGIRI-2020-3822	LIDAR based autonomous car project	69,920	10,000	79,920
747	Sukkur IBA University	Main	Computer Science	NGIRI-2020-5025	Smart Video Surveillance System	70,000	10,000	80,000
748	Sukkur IBA University	Main	Computer Science	NGIRI-2020-3699	Election System Using Blockchain for SISC	10,000	-	10,000
749	Sukkur IBA University	Main	Computer Science	NGIRI-2020-4935	Dengue Mosquito Alert System	68,450	2,000	70,450
750	Sukkur IBA University	Main	Electrical	NGIRI-2020-3423	Design, Fabrication and characterization of hybrid flexible sensor for wearable human health monitoring applications	69,100	10,000	79,100

NGIRI 2020
LIST OF APPROVED FYP

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
751	Sukkur IBA University	Main	Electrical Engineering	NGIRI-2020-3612	Design and implementation of protection scheme for induction motor based on temperature sensation control for various faults	42,550	-	42,550
752	Sukkur IBA University	Main	Electrical Engineering	NGIRI-2020-3681	Vibration free Silent Drill	59,000	-	59,000
753	Sukkur IBA University	Main	Electrical Engineering	NGIRI-2020-3690	Real Time Health Monitoring System with Infusion Control	69,450	10,000	79,450
754	Sukkur IBA University	Main	Electrical Engineering	NGIRI-2020-3955	Design of Small Power Archimedes Screw Power Generator	29,350	-	29,350
755	Sukkur IBA University	Main	Electrical Engineering	NGIRI-2020-4546	Development of Neuro-fuzzy Controller for Alcohol Separation From Aqueous Solution	68,500	8,500	77,000
756	Sukkur IBA University	Main	Electrical Power Engineering	NGIRI-2020-5011	Waste To Energy: Running Generator On Trash	65,600	10,000	75,600
757	Sukkur IBA University	Main	Electrical Power Engineering	NGIRI-2020-3693	Power Transmission through Solar Cell (Photovoltaic phenomenon) for brushless machines	55,500	-	55,500
758	Sukkur IBA University	Main	Electrical Power Engineering	NGIRI-2020-6395	Automatic Bell and Centralized time System for Universities and Colleges	65,100	7,000	72,100
759	Sukkur IBA University	Main	Electrical/Electronics Engineering	NGIRI-2020-3927	IoT based Fleet Management and Monitoring System using OBD II Data	60,806	8,390	69,196
760	Sukkur IBA University	Main	Electrical/Electronics Engineering	NGIRI-2020-4485	Real Time IoT Based Water Quality Monitoring System	69,606	4,500	74,106
761	The Islamia University of Bahawalpur	Baghdad	Computer System Engineering	NGIRI-2020-4339	Autonomous Defense System	40,870	3,550	44,420
762	The Islamia University of Bahawalpur	Baghdad	Electronics Engineeering	NGIRI-2020-3381	Humanoid Animatronic Robotic Hand	39,700	3,950	43,650
763	The Islamia University of Bahawalpur	Baghdad	Telecom Engineering	NGIRI-2020-5868	Hospital Automation System for Isolated Patients of Corona-virus	58,950	10,000	68,950
764	The Islamia University of Bahawalpur	Baghdad	Telecom Engineering	NGIRI-2020-5739	Wireless Body area network based Patient Monitoring System	8,500	2,000	10,500
765	The Islamia University of Bahawalpur	Baghdad	Telecom Engineering	NGIRI-2020-5518	Automatic Railway Gates control system using GSM	36,280	10,000	46,280

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
766	The Islamia University of Bahawalpur	Baghdad	Telecommunication & Networking	NGIRI-2020-5380	Semi Autonomous Multitasking Rover	50,250	8,000	58,250
767	The Superior College	University	Avionics/Aeronautical Engineering	NGIRI-2020-3843	Design & fabrication of windsock with digital display	44,000	-	44,000
768	The Superior College	University	Electrical Engineering	NGIRI-2020-5334	Recognition of Human Emotions based on Skin Response	70,000	10,000	80,000
769	The Superior College	University	Electrical Engineering	NGIRI-2020-5500	IoT Based Smart Traffic Management System	51,180	10,000	61,180
770	The University of Agriculture, Peshawar	Main	Computer Science & IT	NGIRI-2020-3731	solar base drone system for surveillance	69,250	-	69,250
771	The University of Faisalabad	Engineering Wing	Computer Science	NGIRI-2020-6376	Arduino and Siri Integration for Homekit	7,000	3,750	10,750
772	The University of Faisalabad	Engineering Wing	Computer Science	NGIRI-2020-3730	Pick and Place Robot	19,760	5,100	24,860
773	The University of Faisalabad	Engineering Wing	Computer System	NGIRI-2020-3278	Camera Calculator	-	-	-
774	The University of Faisalabad	Engineering Wing	Electrical	NGIRI-2020-6324	Forest Fire Detection System Based On Zigbee Wireless Sensor Network	41,100	3,500	44,600
775	The University of Faisalabad	Engineering Wing	Electrical Engineering	NGIRI-2020-4044	VFD based Electric Vehicle with low power consumption and efficient speed control	67,480	9,500	76,980
776	The University of Faisalabad	Engineering Wing	Electrical Engineering	NGIRI-2020-4887	Double sided PCB designing and Etching CNC	12,900	-	12,900
777	The University of Haripur	Main	Computer Science & IT	NGIRI-2020-6432	Data Communication Through visible Light	46,140	-	46,140
778	The University of Haripur	Main	Computer Science & IT	NGIRI-2020-4153	Car Accident Alert Message and Prevention	41,100	-	41,100
779	The University of Haripur	Main	Information Technology	NGIRI-2020-4144	Land Mine Detector	27,702	3,600	31,302
780	The University of Haripur	Main	Information Technology	NGIRI-2020-3269	Fire detection and prevention system	12,300	-	12,300

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
781	The University of Haripur	Main	Information Technology	NGIRI-2020-4211	Data Acquisition based Car Health Monitoring & Theft alert system	56,200	4,000	60,200
782	The University of Haripur	Main	Information Technology	NGIRI-2020-4146	Home Automation System	2,450	760	3,210
783	The University of Lahore	Gujrat	Computer Science & IT	NGIRI-2020-4961	IoT Based Smart Farming System	29,800	10,000	39,800
784	The University of Lahore	Gujrat	Computer Science & IT	NGIRI-2020-4769	Access Control system	33,550	5,800	39,350
785	The University of Lahore	Gujrat	Software Engineering	NGIRI-2020-5284	H2O Agent : An IOT based System	70,000	10,000	80,000
786	The University of Lahore	Gujrat	Software Engineering	NGIRI-2020-3960	IOT BASED SMART MIRROR	60,000	10,000	70,000
787	The University of Lahore	Gujrat	Software Engineering	NGIRI-2020-6153	Toll Tax collection using OpenALPR	-	-	-
788	The University of Lahore	Islamabad	Software Engineering	NGIRI-2020-6334	Fire Fighting Robot	70,000	-	70,000
789	The University of Lahore	Islamabad	Software Engineering	NGIRI-2020-5784	Tourism Application	-	10,000	10,000
790	The University of Lahore	Sargodha	Computer Science	NGIRI-2020-3901	HOXEL	59,140	500	59,640
791	The University of Lahore	Sargodha	Computer Science	NGIRI-2020-5304	Smart Glasses for Visually Impaired People	44,498	-	44,498
792	The University of Lahore	Sargodha	Computer Science	NGIRI-2020-5323	Power Step	70,000	10,000	80,000
793	The University of Lahore	Sargodha	Computer Science	NGIRI-2020-5329	Smart Baton	17,080	3,000	20,080
794	The University of Lahore	Sargodha	Computer Science	NGIRI-2020-5288	DCA	31,200	-	31,200
795	The University of Lakki Marwat	Main	Computer Science	NGIRI-2020-4359	Face Recognition Attendance System	60,000	10,000	70,000

NGIRI 2020
LIST OF APPROVED FYP

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
796	The Women University	Katchehry Campus	Computer Science & IT	NGIRI-2020-4188	Smart glasses using augmented reality	58,100	10,000	68,100
797	The Women University	Katchehry Campus	Computer Science & IT	NGIRI-2020-5791	Smart Mirror Using Raspberry Pi	37,990	1,500	39,490
798	University of Azad Jammu & Kashmir	Main	Computer Science & IT	NGIRI-2020-4246	V Smart and Accident Avoidance for Vehicles	63,529	10,000	73,529
799	University of Central Punjab	Main	Computer Science	NGIRI-2020-4497	Food spoilage detector	36,652	4,000	40,652
800	University of Central Punjab	Main	Computer Science	NGIRI-2020-4639	Control the arm of others with our brain	61,110	1,020	62,130
801	University of Central Punjab	Main	Computer Science	NGIRI-2020-3576	Citrus Leaf Disease Detection	70,000	10,000	80,000
802	University of Central Punjab	Main	Computer Science	NGIRI-2020-5290	Direct To Garment Printer	62,199	3,398	65,597
803	University of Central Punjab	Main	Computer Science & IT	NGIRI-2020-4617	Smart Indoor Hydroponic Chamber Gardening	68,600	7,400	76,000
804	University of Central Punjab	Main	Computer Science & IT	NGIRI-2020-4714	Automated Yield Estimation of Kinnow	69,900	10,000	79,900
805	University of Central Punjab	Main	Computer System	NGIRI-2020-3780	Strawberry Plant Count	70,000	10,000	80,000
806	University of Central Punjab	Main	Electrical Engineering	NGIRI-2020-5204	Automation of Water filtration plant	65,600	-	65,600
807	University of Central Punjab	Main	Electrical Engineering	NGIRI-2020-4686	Development of Battery Management System for Electric Vehicles	47,505	7,680	55,185
808	University of Central Punjab	Main	Electrical Engineering	NGIRI-2020-4574	Automated Railway Crossing Gate Control with Feedback Mechanism	69,980	9,520	79,500
809	University of Central Punjab	Main	Electrical Engineering	NGIRI-2020-4641	Design and implement a single phase bidirectional energy meter	21,620	5,830	27,450
810	University of Central Punjab	Main	Electrical Engineering	NGIRI-2020-4879	FPGA based digital signal synthesizer	59,000	10,000	69,000

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
811	University of Central Punjab	Main	Engineering and Sciences	NGIRI-2020-4553	Microstrip Bandpass Filter for C Band applications	69,000	10,000	79,000
812	University of Central Punjab	Main	Information Technology	NGIRI-2020-4474	Sensor Network for Agriculture Water Contamination Detection	69,200	800	70,000
813	University of Central Punjab	Main	Mechanical Engineering	NGIRI-2020-3246	Design and fabrication of solar water geyser with phase change material	54,500	5,000	59,500
814	University of Education	Multan	Computer Science & IT	NGIRI-2020-4558	Text recognition and face detection aid for visually impaired person using raspberry pi	69,625	9,000	78,625
815	University of Education	Multan	Information Technology	NGIRI-2020-3778	Health Monitoring Based on IoT	70,000	10,000	80,000
816	University of Education	Multan	Information Technology	NGIRI-2020-3749	Real time Emotion Detection System in healthcare	70,000	10,000	80,000
817	University of Education	Multan	Information Technology	NGIRI-2020-5076	Student Identification through Detectron	50,000	-	50,000
818	University of Engineering & Technology, Lahore	Faisalabad	Electrical	NGIRI-2020-5416	Smart Helmet	10,260	4,000	14,260
819	University of Engineering & Technology, Lahore	Faisalabad	Electrical Engineering	NGIRI-2020-5601	Brain Controlled WheelChair	69,100	10,000	79,100
820	University of Engineering & Technology, Lahore	Faisalabad	Electrical Engineering	NGIRI-2020-5447	Automatic solar panel cleaning System	46,600	4,000	50,600
821	University of Engineering & Technology, Lahore	Faisalabad	Electrical/Electronics Engineering	NGIRI-2020-5142	Human Robot Interaction through Behavioural based Modelling	54,500	2,000	56,500
822	University of Engineering & Technology, Lahore	Faisalabad	Electrical/Electronics Engineering	NGIRI-2020-4992	AI based smart surveillance	70,000	-	70,000
823	University of Engineering & Technology, Lahore	Faisalabad	Electrical/Electronics Engineering	NGIRI-2020-4212	White sip	70,000	10,000	80,000
824	University of Engineering & Technology, Lahore	Faisalabad	Mechatronics Engineering	NGIRI-2020-3359	Six Axis PCB Error Detection CNC Machine	63,250	2,700	65,950
825	University of Engineering & Technology, Lahore	Faisalabad	Mechatronics Engineering	NGIRI-2020-3620	Design and development of Autonomous underwater robot	70,000	10,000	80,000

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
826	University of Engineering & Technology, Lahore	Faisalabad	Mechatronics Engineering	NGIRI-2020-3672	Grasping of Fragile Objects with Prosthetic Hand by using Flux and FSR	69,886	7,900	77,786
827	University of Engineering & Technology, Lahore	Kala Shah Kaku	Electrical Engineering	NGIRI-2020-4979	Autonomous PCB Deveploment alongwith Laser Cutting and 3D printing Facility	70,000	10,000	80,000
828	University of Engineering & Technology, Lahore	Kala Shah Kaku	Electrical/Electronics Engineering	NGIRI-2020-3301	Manufacturing of PVTD-02 (Solar cell characterization and I-V curve tracer)	69,720	9,500	79,220
829	University of Engineering & Technology, Lahore	Kala Shah Kaku	Electrical/Electronics Engineering	NGIRI-2020-3809	Smart Helmet	26,300	200	26,500
830	University of Engineering & Technology, Lahore	Lahore	Computer Engineering	NGIRI-2020-3334	Multilingual Speech to Speech Translation Device	19,600	3,080	22,680
831	University of Engineering & Technology, Lahore	Lahore	Computer Engineering	NGIRI-2020-3880	Vehicle to Vehicle Car Chase	66,000	6,500	72,500
832	University of Engineering & Technology, Lahore	Lahore	Computer Engineering	NGIRI-2020-3517	Computer Driven Vehicle with Route Optimization	31,448	8,600	40,048
833	University of Engineering & Technology, Lahore	Lahore	Computer Science	NGIRI-2020-3443	NeurAssio - An EEG based system for advertisement impact assessment	29,000	-	29,000
834	University of Engineering & Technology, Lahore	Lahore	Computer Science	NGIRI-2020-3420	Digital Board Marker	42,420	5,000	47,420
835	University of Engineering & Technology, Lahore	Lahore	Electrical Engineering	NGIRI-2020-3105	Spy I Smart Predictive Policing	70,000	10,000	80,000
836	University of Engineering & Technology, Lahore	Lahore	Electrical Engineering	NGIRI-2020-3108	Smart Crowd Analyzer	70,000	10,000	80,000
837	University of Engineering & Technology, Lahore	Lahore	Electrical Engineering	NGIRI-2020-4789	Three dimensional vision autonomous quadcopter	70,000	10,000	80,000
838	University of Engineering & Technology, Lahore	Lahore	Electrical Engineering	NGIRI-2020-4868	Development of Airline Baggage Scanning System using Deep Learning	69,500	10,000	79,500
839	University of Engineering & Technology, Lahore	Lahore	Electrical Engineering	NGIRI-2020-3569	Micro Controller Based Power Management Using Multiple Power Sources Solar Battery Wapda	69,500	10,000	79,500
840	University of Engineering & Technology, Lahore	Lahore	Mechatronics Engineering	NGIRI-2020-3384	Pressure Sore Avoiding Mattress for Bedridden Patients	69,600	-	69,600

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
841	University of Engineering & Technology, Lahore	Lahore	Mechatronics Engineering	NGIRI-2020-3642	Solar powered Agri Robot for Autonomous Seed Sowing	70,000	7,000	77,000
842	University of Engineering & Technology, Lahore	Narowal	Computer Science	NGIRI-2020-4368	Farming Assistance	5,700	-	5,700
843	University of Engineering & Technology, Lahore	Narowal	Computer Science	NGIRI-2020-4517	Automated Shoplifting Detection System	70,000	-	70,000
844	University of Engineering & Technology, Lahore	Narowal	Computer Science	NGIRI-2020-5488	Driver Activities Recognition and Monitoring System using Deep Learning	70,000	4,000	74,000
845	University of Engineering & Technology, Lahore	Narowal	Electrical Engineering	NGIRI-2020-4167	Cost Effective Stair Climbing Security Surveillance and Tracking System	26,600	2,400	29,000
846	University of Engineering & Technology, Lahore	Narowal	Electrical Engineering	NGIRI-2020-3871	Universal Spot Welding Machine	70,000	-	70,000
847	University of Engineering & Technology, Lahore	RCET Gujranwala	Computer Science	NGIRI-2020-3669	Multi patients health monitoring at single screen	4,500	-	4,500
848	University of Engineering & Technology, Lahore	RCET Gujranwala	Electrical Engineering	NGIRI-2020-5027	Energy Audit for Industrial and Residential sectors	70,000	8,000	78,000
849	University of Engineering & Technology, Lahore	RCET Gujranwala	Electrical Engineering	NGIRI-2020-6370	Techno Economic analysis of low voltage distribution system due to violation of sanction load	60,000	3,000	63,000
850	University of Engineering & Technology, Lahore	RCET Gujranwala	Electrical Engineering	NGIRI-2020-6166	Smart Patient Health Monitoring System	-	-	-
851	University of Engineering & Technology, Lahore	RCET Gujranwala	Electrical Engineering	NGIRI-2020-3588	Design and implement a 3-Phase PWM Inverter Driver Peripheral for RISC-V Processor targeting FFPGA.	70,000	7,000	77,000
852	University of Engineering & Technology, Lahore	RCET Gujranwala	Mechanical Engineering	NGIRI-2020-3357	Design and Fabrication of Coal Ash Brick making machine and comparison of its mechanical properties with Conventional Clay Brick	60,000	9,500	69,500
853	University of Engineering & Technology, Lahore	RCET Gujranwala	Mechanical Engineering	NGIRI-2020-3430	Solar Powered Solid Waste Compactor	32,200	8,200	40,400
854	University of Engineering & Technology, Lahore	RCET Gujranwala	Mechanical Engineering	NGIRI-2020-3431	Fabrication of Compressed Air Vehicle	61,000	10,000	71,000
855	University of Engineering & Technology, Peshawar	Jalozai	Electrical Engineering	NGIRI-2020-4550	Ethical Hacking through Raspberry Pi W Zero	68,297	10,000	78,297

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
856	University of Engineering & Technology, Peshawar	Jalozai	Electrical Engineering	NGIRI-2020-3906	Smart ECG	70,000	10,000	80,000
857	University of Engineering & Technology, Peshawar	Jalozai	Electrical Engineering	NGIRI-2020-5162	Design of DC-DC Converter with Maximum Power Point Tracking for Photovoltaic Applications	70,000	10,000	80,000
858	University of Engineering & Technology, Peshawar	Jalozai	Industrial Electronics	NGIRI-2020-3825	Design and manufacturing of smart solar window	66,500	10,000	76,500
859	University of Engineering & Technology, Peshawar	Jalozai	Mechanical Engineering	NGIRI-2020-5001	Design and Fabrication of waste water recycling system in service stations	56,000	10,000	66,000
860	University of Engineering & Technology, Peshawar	Jalozai	Mechanical Engineering	NGIRI-2020-5433	Design and Fabrication of Food Waste Recycling Machine	55,500	-	55,500
861	University of Engineering & Technology, Peshawar	Jalozai	Mechanical Engineering	NGIRI-2020-5151	Analyzing The Effects of Heat Treatment: Reliability and Quality Improvement of A Gearcase At Pakistan Locomotive Factory	70,000	10,000	80,000
862	University of Engineering & Technology, Peshawar	Jalozai	Mechanical Engineering	NGIRI-2020-5822	Design and Fabrication of Advance Milk Transportation Tank	30,000	-	30,000
863	University of Engineering & Technology, Peshawar	Jalozai	Mechanical Engineering	NGIRI-2020-5546	Design and Fabrication of Plastic Waste to fuel Conveter	63,700	10,000	73,700
864	University of Engineering & Technology, Peshawar	Peshawar	Computer System Engineering	NGIRI-2020-3118	An IoT Based Household Power Management System	70,000	10,000	80,000
865	University of Engineering & Technology, Peshawar	Peshawar	Computer System Engineering	NGIRI-2020-3120	UAV Based Landcover Analysis Using Remote Sensing	67,600	4,000	71,600
866	University of Engineering & Technology, Peshawar	Peshawar	Computer System Engineering	NGIRI-2020-3174	Performance Improvement of wind energy system	70,000	10,000	80,000
867	University of Engineering & Technology, Peshawar	Peshawar	Computer System Engineering	NGIRI-2020-6208	A novel audio and data signal modulator using visible light for long distance communication	42,340	8,000	50,340
868	University of Engineering & Technology, Peshawar	Peshawar	Computer System Engineering	NGIRI-2020-3134	Functional Electrical Stimulation for Foot Drop	70,000	10,000	80,000
869	University of Engineering & Technology, Peshawar	Peshawar	Electrical Engineering	NGIRI-2020-3276	AIOT based app for monitoring of a Smart city	41,430	3,940	45,370
870	University of Engineering & Technology, Peshawar	Peshawar	Electrical Engineering	NGIRI-2020-4654	Gesture to speech for deaf and dumb patients.	30,530	10,000	40,530

NGIRI 2020
LIST OF APPROVED FYP

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
871	University of Engineering & Technology, Peshawar	Peshawar	Electrical Engineering	NGIRI-2020-3020	Designing and Development of an Autonomous Blimp	66,000	10,000	76,000
872	University of Engineering & Technology, Peshawar	Peshawar	Mechanical Engineering	NGIRI-2020-3145	Design and Fabrication of Manually Operated Crop Harvesting Machine	65,000	10,000	75,000
873	University of Engineering & Technology, Peshawar	Peshawar	Mechatronics Engineering	NGIRI-2020-3033	Design and Development of Machine vision based Vein Finder	69,130	10,000	79,130
874	University of Engineering & Technology, Peshawar	Peshawar	Mechatronics Engineering	NGIRI-2020-3032	Design and Development of Low Cost Semi-Automated Detachable Wheelchair	70,000	10,000	80,000
875	University of Engineering & Technology, Peshawar	Peshawar	Mechatronics Engineering	NGIRI-2020-6487	Intelligent Pest Identification and Management Device	63,500	6,000	69,500
876	University of Engineering & Technology, Taxila	Chakwal	Electronics Engineeering	NGIRI-2020-4300	Smart power generation using solar and pizeoelectric	51,500	2,000	53,500
877	University of Engineering & Technology, Taxila	Chakwal	Electronics Engineeering	NGIRI-2020-3281	Multihop Wireless Network Based Smart Textile Monitoring System	68,000	10,000	78,000
878	University of Engineering & Technology, Taxila	Chakwal	Electronics Engineeering	NGIRI-2020-3966	Automatic Faults Detection in Surgical Instruments	42,300	1,400	43,700
879	University of Engineering & Technology, Taxila	Chakwal	Electronics Engineeering	NGIRI-2020-5985	Real time health monitoring system for first responder emergency operation	45,432	4,700	50,132
880	University of Engineering & Technology, Taxila	Chakwal	Electronics Engineeering	NGIRI-2020-4343	PLC based automated storage and retrieval system	53,200	-	53,200
881	University of Engineering & Technology, Taxila	Chakwal	Mechatronics Engineering	NGIRI-2020-6025	Design and Development of Bionic Ankle-Foot Prosthesis for Lower Limb Amputees	69,690	10,000	79,690
882	University of Engineering & Technology, Taxila	Chakwal	Mechatronics Engineering	NGIRI-2020-4919	Disease classification of winter crops by CNN	34,110	10,000	44,110
883	University of Engineering & Technology, Taxila	Chakwal	Mechatronics Engineering	NGIRI-2020-5701	Active Self Balancing Bicycle	67,500	5,000	72,500
884	University of Engineering & Technology, Taxila	Chakwal	Mechatronics Engineering	NGIRI-2020-3434	Design and fabrication of automated creep testing machine	69,445	8,550	77,995
885	University of Engineering & Technology, Taxila	Sir Syed (CASE) Institute of Technology,	Computer Science	NGIRI-2020-3242	Machine learning based KPI dashboard for Business Intelligence	70,000	-	70,000

NGIRI 2020
LIST OF APPROVED FYP

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
886	University of Engineering & Technology, Taxila	Sir Syed (CASE) Institute of Technology,	Computer Science	NGIRI-2020-5975	Mobile application providing person to person cargo services throughout Pakistan using React Native and Firebase	67,989	3,858	71,847
887	University of Engineering & Technology, Taxila	Sir Syed (CASE) Institute of Technology,	Computer Science	NGIRI-2020-3297	Telemedicine Application for Rural Areas of Pakistan	5,000	-	5,000
888	University of Engineering & Technology, Taxila	Sir Syed (CASE) Institute of Technology,	Computer Science	NGIRI-2020-5255	TRENDICA	70,000	8,000	78,000
889	University of Engineering & Technology, Taxila	Sir Syed (CASE) Institute of Technology,	Computer Science	NGIRI-2020-3101	Decision Support System for Diagnosing Cardiac Diseases Being Deployed on Private Cloud	70,000	10,000	80,000
890	University of Engineering & Technology, Taxila	Sir Syed (CASE) Institute of Technology,	Computer System	NGIRI-2020-3861	Intelligent React Native Based Home Tuition Application using Google Firebase and Artificial Intelligence	70,000	-	70,000
891	University of Engineering & Technology, Taxila	Sir Syed (CASE) Institute of Technology,	Electrical Engineering	NGIRI-2020-5107	Design and Development of Sugarcane Harvester	69,500	9,900	79,400
892	University of Engineering & Technology, Taxila	Sir Syed (CASE) Institute of Technology,	Electrical Engineering	NGIRI-2020-5238	Alertness assistant for driver state monitoring using deep neural networks	28,430	-	28,430
893	University of Engineering & Technology, Taxila	Sir Syed (CASE) Institute of Technology,	Electrical Engineering	NGIRI-2020-3650	IMU based gesture controlled mobile robot	50,500	2,800	53,300
894	University of Engineering & Technology, Taxila	Sir Syed (CASE) Institute of Technology,	Electrical Engineering	NGIRI-2020-3852	Swarm Communication via MANETs	53,907	-	53,907
895	University of Engineering & Technology, Taxila	Sir Syed (CASE) Institute of Technology,	Electrical Engineering	NGIRI-2020-5435	Synthetic Data Production for Machine Learning using Robotic Arm	12,000	-	12,000
896	University of Engineering & Technology, Taxila	Taxila	Computer & Information System	NGIRI-2020-3516	Health Monitoring System for Diabetes	65,000	5,000	70,000
897	University of Engineering & Technology, Taxila	Taxila	Computer Engineering	NGIRI-2020-3704	Smart Assistive Stick	5,100	1,000	6,100
898	University of Engineering & Technology, Taxila	Taxila	Computer Engineering	NGIRI-2020-3712	IOT Based Smart Agriculture System	7,840	-	7,840
899	University of Engineering & Technology, Taxila	Taxila	Computer Engineering	NGIRI-2020-4414	Smart Chair	70,000	5,000	75,000
900	University of Engineering & Technology, Taxila	Taxila	Computer Engineering	NGIRI-2020-5484	Tracking Algorithm Performance Evaluation on Embedded Processors	70,000	10,000	80,000

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
901	University of Engineering & Technology, Taxila	Taxila	Computer Engineering	NGIRI-2020-5352	FPGA Based Real Time Object Tracking	62,875	8,000	70,875
902	University of Engineering & Technology, Taxila	Taxila	Electrical Engineering	NGIRI-2020-3685	control of boiler operation using plc and iot	69,000	1,000	70,000
903	University of Engineering & Technology, Taxila	Taxila	Electrical Engineering	NGIRI-2020-3328	Design and Fabrication of Autonomous Tracked Electrical Vehicle	61,000	-	61,000
904	University of Engineering & Technology, Taxila	Taxila	Electrical Engineering	NGIRI-2020-3135	Drone Detection Surveillance System	68,000	8,000	76,000
905	University of Engineering & Technology, Taxila	Taxila	Electrical Power Engineering	NGIRI-2020-3589	Design and Development of Smart Hydro Power System	69,000	5,000	74,000
906	University of Engineering & Technology, Taxila	Taxila	Engineering and Sciences	NGIRI-2020-5806	Co pyrolysis of waste tire and rice straw in a fixed bed reactor to produce bio oil	70,000	10,000	80,000
907	University of Engineering & Technology, Taxila	Taxila	Industrial Electronics	NGIRI-2020-3304	Design and Fabrication of Industry Four capable Hybrid Manufacturing CNC Machine with Real time Intelligent and Automated Quality Inspection	69,380	-	69,380
908	University of Engineering & Technology, Taxila	Taxila	Software Engineering	NGIRI-2020-4057	Virtual Try-On	17,375	7,900	25,275
909	University of Engineering & Technology, Taxila	Taxila	Software Engineering	NGIRI-2020-4464	Financial Analysis Software for Trading	70,000	10,000	80,000
910	University of Engineering & Technology, Taxila	Taxila	Software Engineering	NGIRI-2020-5683	HelpingHands	40,000	8,000	48,000
911	University of Engineering & Technology, Taxila	Taxila	Software Engineering	NGIRI-2020-5258	First Aid Training Simulator in Virtual Reality	63,000	8,000	71,000
912	University of Engineering & Technology,Mardan	Mardan	Electrical Engineering	NGIRI-2020-3373	Black Box Modeling of Power Electronic Converters	70,000	10,000	80,000
913	University of Engineering & Technology,Mardan	Mardan	Electrical Engineering	NGIRI-2020-3631	Bi-Directional DC-DC Converter Design for Plug-in Hybrid Electric Vehicle (PHEV's)	69,244	10,000	79,244
914	University of Engineering & Technology,Mardan	Mardan	Electrical Engineering	NGIRI-2020-4521	Power Quality Enhancement in Micro Grid Dominated by Renewable Generation	55,300	9,000	64,300
915	University of Engineering & Technology,Mardan	Mardan	Electrical Engineering	NGIRI-2020-3189	Smart helmet operated ignition system	34,225	9,900	44,125

NGIRI 2020
LIST OF APPROVED FYP

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
916	University of Engineering & Technology,Mardan	Mardan	Electrical Power Engineering	NGIRI-2020-3935	Hybrid System Power Utilization From Load Side	22,530	6,000	28,530
917	University of Engineering & Technology,Mardan	Mardan	Electrical Power Engineering	NGIRI-2020-4684	Synchronization and Monitoring of Multiple Motors Wirelessly	36,865	8,140	45,005
918	University of Engineering & Technology,Mardan	Mardan	Software Engineering	NGIRI-2020-3794	Study and design of an Intelligent Gas Leakage/Fire Detection System based on Internet of Things and Machine Learning	28,010	2,000	30,010
919	University of Engineering & Technology,Mardan	Mardan	Software Engineering	NGIRI-2020-5807	Decor Inn	60,000	2,000	62,000
920	University of Engineering & Technology,Mardan	Mardan	Software Engineering	NGIRI-2020-3291	Stutor	69,000	-	69,000
921	University of Engineering & Technology,Mardan	Mardan	Software Engineering	NGIRI-2020-4402	Android Based ECG Classification	19,480	2,500	21,980
922	University of Engineering & Technology,Mardan	Mardan	Software Engineering	NGIRI-2020-4389	IOT enabled smart monitoring of speed violation and accidents on motorways	55,250	1,500	56,750
923	University of Engineering & Technology,Mardan	Mardan	Telecom Engineering	NGIRI-2020-6096	Design and analysis of Meta-material inspired wearable antenna for Fifth Generation communication	51,000	9,000	60,000
924	University of Engineering & Technology,Mardan	Mardan	Telecom Engineering	NGIRI-2020-4401	Cloud Based Profiling of Air Quality using Wireless Sensor Network.	22,202	9,980	32,182
925	University of Engineering & Technology,Mardan	Mardan	Telecom Engineering	NGIRI-2020-4811	GSM Based Gas Leakage Detection and Accident Prevention System	27,323	5,100	32,423
926	University of Engineering & Technology,Mardan	Mardan	Telecom Engineering	NGIRI-2020-5061	Tube well monitoring and control system using GSM	15,860	10,000	25,860
927	University of Engineering & Technology,Mardan	Mardan	Telecom Engineering	NGIRI-2020-5999	Automatic Accident Detection using IOT and VANET	49,000	3,000	52,000
928	University of Gujrat	Hafiz Hayat	Computer Science	NGIRI-2020-4031	IOT Based Smart Agriculture Farm	69,770	8,840	78,610
929	University of Gujrat	Hafiz Hayat	Computer Science & IT	NGIRI-2020-5230	Waste Control Using Smart Bin IOT	51,900	9,000	60,900
930	University of Gujrat	Hafiz Hayat	Electrical Engineering	NGIRI-2020-3214	Design and development of High Voltage Hybrid Reactor for Industrial Wastewater Treatment	69,880	10,000	79,880

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
931	University of Gujrat	Hafiz Hayat	Electrical Engineering	NGIRI-2020-4703	Intelligent power management and control of power split hybrid vehicle	70,000	10,000	80,000
932	University of Gujrat	Hafiz Hayat	Electrical Engineering	NGIRI-2020-4051	Data Logging and Demand Side Management of Smart Nano-grid Station	63,360	9,000	72,360
933	University of Karachi	Main	Computer Science	NGIRI-2020-6122	Smart IoT Shirt for Coronavirus and Heat Stroke Prevention	58,800	7,000	65,800
934	University of Karachi	Main	Computer Science	NGIRI-2020-5203	Quad Cop	69,600	10,000	79,600
935	University of Karachi	Main	Electronics	NGIRI-2020-5538	Smart Electric Bicycle for University Campus	38,320	-	38,320
936	University of Kotli	Main Campus	Computer Science & IT	NGIRI-2020-5177	Smart Patient Monitoring	68,000	10,000	78,000
937	University of Kotli	Main Campus	Software Engineering	NGIRI-2020-6211	Model Intelligent Vehicles System	48,800	10,000	58,800
938	University of Management and Technology	Lahore	Avionics/Aeronautical Engineering	NGIRI-2020-3839	Development of Tool Tracking Application and system	38,700	6,750	45,450
939	University of Management and Technology	Lahore	Computer Science & IT	NGIRI-2020-5191	Smart Blind Stick	66,400	3,500	69,900
940	University of Management and Technology	Lahore	Electrical Engineering	NGIRI-2020-3733	Weed detection in crops using aerial vehicle and machine learning technique	70,000	-	70,000
941	University of Management and Technology	Lahore	Electrical Engineering	NGIRI-2020-3674	Mobile Controlled Wheel Chair	66,030	9,024	75,054
942	University of Management and Technology	Lahore	Electrical Engineering	NGIRI-2020-3698	Design and implementation of a self-adjusting micro wind turbine.	69,867	10,000	79,867
943	University of Management and Technology	Lahore	Electrical Engineering	NGIRI-2020-3697	Design and Implementation of Busbar Trainer	66,660	9,400	76,060
944	University of Management and Technology	Lahore	Electrical Engineering	NGIRI-2020-4214	Smart Robotic Arm	68,800	-	68,800
945	University of Management and Technology	Lahore	Mechanical Engineering	NGIRI-2020-4655	Standing Assistance Mechanism of Wheelchair	56,600	-	56,600

NGIRI 2020
LIST OF APPROVED FYP

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
946	University of Management and Technology	Lahore	Mechanical Engineering	NGIRI-2020-4670	Autonomous robot for object delivery	53,500	-	53,500
947	University of Management and Technology	Lahore	Mechanical Engineering	NGIRI-2020-4597	Development of Pyrolytic plastic waste Conversion to Biofuel.	55,000	10,000	65,000
948	University of Management and Technology	Lahore	Mechanical Engineering	NGIRI-2020-5885	Design and Development of Pico Hydro Turbine	45,000	10,000	55,000
949	University of Management and Technology	Lahore	Mechanical Engineering	NGIRI-2020-3710	Design and Development of an Automatic System for Unloading Items from container.	53,300	8,000	61,300
950	University of Management and Technology	Lahore	Software Engineering	NGIRI-2020-3313	Mind Bender	70,000	5,600	75,600
951	University of Management and Technology	Sialkot	Computer Science	NGIRI-2020-5651	Premises based user access using IoT cloud in smart door chain scheme	69,750	3,160	72,910
952	University of Management and Technology	Sialkot	Electrical Engineering	NGIRI-2020-4773	Solar Powered Smart Lawn Mower	65,500	5,000	70,500
953	University of Management and Technology	Sialkot	Software Engineering	NGIRI-2020-5602	Smart fitness suit for user assistance based on Machine Learning	68,900	10,000	78,900
954	University of Management and Technology	Sialkot	Software Engineering	NGIRI-2020-6199	Early Detection of Alzheimer Using Deep Learning	44,839	10,000	54,839
955	University of Management and Technology	Sialkot	Software Engineering	NGIRI-2020-5418	Smart Mini Gardening System	67,500	10,000	77,500
956	University of Narowal	Main	Computer Science & IT	NGIRI-2020-6001	Iris based attendance system	70,000	-	70,000
957	University of Narowal	Main	Computer Science & IT	NGIRI-2020-6007	Smart Parking System	17,500	-	17,500
958	University of Narowal	Main	Computer Science & IT	NGIRI-2020-6010	Accident Detection and Alerting System Using GPS and GSM	8,000	-	8,000
959	University of Okara	Okara	Computer Science	NGIRI-2020-5252	Smart Environment System Using Information Technology	34,250	-	34,250
960	University of Okara	Okara	Computer Science	NGIRI-2020-3457	Home Appliances Controller	2,150	-	2,150

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
961	University of Sargodha	Main	Computer Science	NGIRI-2020-6362	Smart Ewheelchairs	69,010	8,200	77,210
962	University of Sargodha	Main	Computer Science & IT	NGIRI-2020-5097	Robo Road Crossing Assistant	68,960	7,500	76,460
963	University of Sargodha	Main	Computer Science & IT	NGIRI-2020-3721	Intelligent FPS with AR Occlusion	60,000	1,000	61,000
964	University of Sargodha	Main	Computer Science & IT	NGIRI-2020-5693	Computer Vision System for Automated Inspection and Grading of Fruits	63,100	-	63,100
965	University of Sargodha	Main	Computer Science & IT	NGIRI-2020-6513	Virtual Cook	61,500	8,800	70,300
966	University of Sargodha	Main	Electrical Engineering	NGIRI-2020-3456	Super capacitor Based solar Backup System for Emergency Power Supply	69,700	4,930	74,630
967	University of Sargodha	Main	Electrical Engineering	NGIRI-2020-3846	Design and Implementation of voltage source inverter	59,272	10,000	69,272
968	University of Sargodha	Main	Mechanical Engineering	NGIRI-2020-3356	Horizontal Wind Turbine	65,000	-	65,000
969	University of Science & Technology	Main	Computer Science	NGIRI-2020-3467	Auto Filing Water Tank	42,350	-	42,350
970	University of Science & Technology	Main	Computer System	NGIRI-2020-3169	Grocery Hub	67,000	10,000	77,000
971	University of Science & Technology	Main	Electrical	NGIRI-2020-5138	IOT Based Smart Waste Management System in Pakistan	55,000	-	55,000
972	University of Science & Technology	Main	Electrical Engineering	NGIRI-2020-5208	IoT Based power theft detection	58,000	-	58,000
973	University of Science & Technology	Main	Electrical Engineering	NGIRI-2020-5746	Underground Cable Fault Location Detection using Machine Learning	57,700	-	57,700
974	University of Sialkot, Sialkot	Sialkot	Computer Science & IT	NGIRI-2020-4843	KISAN PAKISTAN	64,600	5,000	69,600
975	University of Sialkot, Sialkot	Sialkot	Computer Science & IT	NGIRI-2020-5419	Student E Advisor Chatbot	-	3,200	3,200

NGIRI 2020
LIST OF APPROVED FYP

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
976	University of Sindh	Allama I.I Kazi	Computer Science	NGIRI-2020-5468	Alif	30,994	8,450	39,444
977	University of Sindh	Allama I.I Kazi	Electronics	NGIRI-2020-5580	SWARM Robot	69,010	845	69,855
978	University of Sindh	Allama I.I Kazi	Electronics	NGIRI-2020-4694	Intuitive Robot control with Virtual Reality	49,435	400	49,835
979	University of Sindh	Allama I.I Kazi	Electronics	NGIRI-2020-5834	Efficient Yarn Quality Control System for Textile industries	69,968	888	70,856
980	University of Sindh	Allama I.I Kazi	Electronics	NGIRI-2020-6062	Design and Implementation of Low Cost Automatic Transfer Switch with Interlocking Facility	70,000	8,200	78,200
981	University of Sindh	Allama I.I Kazi	Information & Communication Technology	NGIRI-2020-3959	Gestural Interaction and Facial based Authentication System	50,563	-	50,563
982	University of Sindh	Allama I.I Kazi	Information & Communication Technology	NGIRI-2020-5431	Missing Person Reporting and Crime Evidence Collection System	38,000	10,000	48,000
983	University of Sindh	Allama I.I Kazi	Information & Communication Technology	NGIRI-2020-4027	Fully Functional Desktop Application for Dispensary	10,000	-	10,000
984	University of Sindh	Allama I.I Kazi	Information & Communication Technology	NGIRI-2020-6214	Black Box	63,287	10,000	73,287
985	University of Sindh	Allama I.I Kazi	Information & Communication Technology	NGIRI-2020-5723	Codeears	48,000	8,000	56,000
986	University of Sindh	Allama I.I Kazi	Information Technology	NGIRI-2020-6412	Letter Hunt Game for kids	5,000	-	5,000
987	University of Sindh	Allama I.I Kazi	Information Technology	NGIRI-2020-5877	OC Camera based vehicle number plate recognition system	38,550	1,600	40,150
988	University of Sindh	Allama I.I Kazi	Information Technology	NGIRI-2020-4683	easYum	15,200	6,349	21,549
989	University of Sindh	Allama I.I Kazi	Software Engineering	NGIRI-2020-3646	EStamping A Project of Sindh Government	49,299	-	49,299
990	University of Sindh	Allama I.I Kazi	Software Engineering	NGIRI-2020-5684	Construction Work management system	-	1,500	1,500

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
991	University of Sindh	Allama I.I Kazi	Software Engineering	NGIRI-2020-5012	Event Cloud	11,000	9,000	20,000
992	University of Sindh	Allama I.I Kazi	Telecom Engineering	NGIRI-2020-4932	GSM based vehicle alert system	47,198	2,000	49,198
993	University of Sindh	Allama I.I Kazi	Telecom Engineering	NGIRI-2020-6071	Anti theft and security system of the Motorbike	70,000	-	70,000
994	University of Sindh	Allama I.I Kazi	Telecom Engineering	NGIRI-2020-5865	GSM based Authentication Laser Security System with Reflected Mirrors	69,500	9,800	79,300
995	University of Sindh	Allama I.I Kazi	Telecom Engineering	NGIRI-2020-4078	Stress recognition	49,000	10,000	59,000
996	University of Sindh	Mirpur Khas	Information & Communication Technology	NGIRI-2020-4428	Final Year Project Proposal and Thesis Management System	44,693	5,000	49,693
997	University of Sindh	Mirpur Khas	Information & Communication Technology	NGIRI-2020-4711	SUCM Alumni management system	-	10,000	10,000
998	University of Sindh	Mirpur Khas	Information Technology	NGIRI-2020-6507	Web Based Education Management System	42,000	-	42,000
999	University of Sindh	Mirpur Khas	Information Technology	NGIRI-2020-4685	DeliverMe	59,435	5,000	64,435
1000	University of Sindh	Mirpur Khas	Information Technology	NGIRI-2020-5737	RentAnything	16,000	-	16,000
1001	University of Wah	Quaid	Computer Science	NGIRI-2020-5343	The Pink Light System	33,850	8,500	42,350
1002	University of Wah	Quaid	Computer Science	NGIRI-2020-5340	IOT Based Home Safety Security and Automation	29,980	-	29,980
1003	University of Wah	Quaid	Computer Science & IT	NGIRI-2020-5341	Skin Syndrome Detection and Prevention By Smart Mirror	24,400	-	24,400
1004	University of Wah	Wah Engineering College	Electrical Engineering	NGIRI-2020-3950	Development of Programmed Anti-Personnel Mine for Mine Dispensing System	18,115	7,000	25,115
1005	University of Wah	Wah Engineering College	Electrical Engineering	NGIRI-2020-4010	Voice controlled home automation system	26,840	-	26,840

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR) Equipment	Misc	Total
1006	University of Wah	Wah Engineering College	Electrical Engineering	NGIRI-2020-3981	IOT based Fault Detection in Transmission lines	37,150	10,000	47,150
1007	University of Wah	Wah Engineering College	Mechanical Engineering	NGIRI-2020-4204	Design and manufacturing of a cricket bowling machine	48,000	5,000	53,000
1008	University of Wah	Wah Engineering College	Mechanical Engineering	NGIRI-2020-4082	Design and Fabrication of Self Climbing Wheelchair	69,879	-	69,879
1009	University of Wah	Wah Engineering College	Mechanical Engineering	NGIRI-2020-4198	Desiccant Wheel Design Fabrication and Economical Analysis of Desiccant Cooler	62,000	-	62,000
1010	University of Wah	Wah Engineering College	Mechanical Engineering	NGIRI-2020-3782	Design and fabrication of vacuum forming machine to develop vehicle's body components	24,000	2,000	26,000
1011	University of Wah	Wah Engineering College	Mechanical Engineering	NGIRI-2020-4842	Fabrication and analysis of catalytic converter using smoke analyzer	52,000	-	52,000
1012	University of Wah	Wah Engineering College	Mechatronics Engineering	NGIRI-2020-3595	Design and Control of Active Lower Limb Orthosis for Gait Rehabilitation In Humans	41,850	5,000	46,850
1013	University of Wah	Wah Engineering College	Mechatronics Engineering	NGIRI-2020-3555	Design, Fabrication and Control of a 3 Degree-of-Freedom SCARA Robot	18,270	5,000	23,270
1014	University of Wah	Wah Engineering College	Mechatronics Engineering	NGIRI-2020-3694	Design and Fabrication of unmanned underwater vessel	43,400	6,000	49,400
1015	University of Wah	Wah Engineering College	Mechatronics Engineering	NGIRI-2020-3648	Design and Fabrication of Prototype of a Stairs Climbing Wheelchair	13,900	1,200	15,100
1016	Usman Institute of Technology	Karachi	Computer System Engineering	NGIRI-2020-4249	Iot Based Smart Waste Management System	39,420	9,900	49,320
1017	Usman Institute of Technology	Karachi	Computer System Engineering	NGIRI-2020-3911	The Konveyro	68,650	4,500	73,150
1018	Usman Institute of Technology	Karachi	Electrical	NGIRI-2020-5221	IoT based ATS for domestic generators	67,500	2,500	70,000
1019	Usman Institute of Technology	Karachi	Electrical Engineering	NGIRI-2020-3448	IoT based health monitoring glove	33,600	7,000	40,600
1020	Usman Institute of Technology	Karachi	Electrical Engineering	NGIRI-2020-4531	Vehicular Exhaust Emission Test Bench	70,000	10,000	80,000

S.No	Institute	Campus	Department	FYP Code	FYP Title	APPROVED BUDGET (IN PKR)		
						Equipment	Misc	Total
1021	Usman Institute of Technology	Karachi	Electrical Engineering	NGIRI-2020-3445	SEABIN	47,250	10,000	57,250
1022	Usman Institute of Technology	Karachi	Electrical Engineering	NGIRI-2020-3941	Smart Solar and android Based Wheelchair	54,000	-	54,000
1023	Usman Institute of Technology	Karachi	Electrical Engineering	NGIRI-2020-3715	QRGV bot	34,050	5,990	40,040
1024	Usman Institute of Technology	Karachi	Electrical Power Engineering	NGIRI-2020-4013	Run off the river water turbine	69,000	10,000	79,000
1025	Usman Institute of Technology	Karachi	Electrical Power Engineering	NGIRI-2020-4855	Three phase power factor improvement system	30,350	10,000	40,350
1026	Usman Institute of Technology	Karachi	Electrical Power Engineering	NGIRI-2020-3621	SCADA Based Power Management Trainer	69,800	4,500	74,300
1027	Usman Institute of Technology	Karachi	Electrical/Electronics Engineering	NGIRI-2020-3316	Electrostatic Seperator	70,000	10,000	80,000
1028	Usman Institute of Technology	Karachi	Electrical/Electronics Engineering	NGIRI-2020-3419	Fuel Briquettes Machine for Sugar Mill Waste	69,442	10,000	79,442
1029	Usman Institute of Technology	Karachi	Electrical/Electronics Engineering	NGIRI-2020-3117	CNC Based PCB PEN Plotter Plus Etching Module	29,750	5,000	34,750
1030	Usman Institute of Technology	Karachi	Electrical/Electronics Engineering	NGIRI-2020-4091	Automatic blender for mixing of sugar mill waste for fuel briquettes	70,000	5,300	75,300
1031	Usman Institute of Technology	Karachi	Software Engineering	NGIRI-2020-3679	Assistance for visually Impaired people	-	5	5
1032	Usman Institute of Technology	Karachi	Software Engineering	NGIRI-2020-3882	ARGO	27,410	-	27,410
1033	Usman Institute of Technology	Karachi	Software Engineering	NGIRI-2020-4071	Prochain	3,549	-	3,549
1034	Usman Institute of Technology	Karachi	Software Engineering	NGIRI-2020-4996	Historical View of Islam	63,443	-	63,443
1035	Usman Institute of Technology	Karachi	Software Engineering	NGIRI-2020-4305	Uni Perks	-	7,000	7,000

| S.No | Institute | Campus | Department | FYP Code | FYP Title | APPROVED BUDGET (IN PKR) | | |
						Equipment	Misc	Total
1036	Usman Institute of Technology	Karachi	Telecom Engineering	NGIRI-2020-3412	Smart Helmet using RASPBERRY PI	27,350	3,000	30,350
1037	Virtual University of Pakistan	Main	Computer Science & IT	NGIRI-2020-5150	Expert System for Assessing Programming Courses Performance of ELearning Students	50,000	-	50,000
1038	Women University AJK	Main	Computer Science & IT	NGIRI-2020-4712	Andriod application Smart online physician	70,000	-	70,000
1039	Ziauddin University, ZUFEST	North Nazimabad	Biomedical Engineering	NGIRI-2020-5146	Identification and Functionality of Corona Virus using Genome Sequencing Analysis	70,000	10,000	80,000
1040	Ziauddin University, ZUFEST	North Nazimabad	Biomedical Engineering	NGIRI-2020-5135	Navigation Stick for Blind	69,700	10,000	79,700
1041	Ziauddin University, ZUFEST	North Nazimabad	Biomedical Engineering	NGIRI-2020-4904	Design and Development of Human Knee Joint Muscle(S) Classification System Using Artificial Intelligence Technique	69,250	4,000	73,250
1042	Ziauddin University, ZUFEST	North Nazimabad	Biomedical Engineering	NGIRI-2020-4777	Movement of Prosthetic Arm Using Machine Learning Technology	61,720	9,258	70,978
						52,461,361	5,966,351	58,427,712