

# QUANTUM UNIVERSITY



## ANNUAL REPORT ON ENTREPRENEURSHIP AND INNOVATIONS (E&I)



ACADEMIC YEARS  
2020-21 & 2021-22



# Quantum University Annual Report on Entrepreneurship and Innovations

## Academic Years 2020-21 & 2021-22

### Section 1: Activeness of Trained Innovation Ambassadors in Driving Campus I&E Ecosystems in Quantum University

**1.1) Activeness of Trained Innovation Ambassadors in Driving Campus I&E Ecosystems in Quantum University: Trained IA/Quantum University and No. of Prescribed Activities undertaken by IA**

Sr. No.	Name of the Faculty IA	Level of Training
1	Dr. Saras Verma	Basic
2	Dr. S S Shekhawat	Basic
3	Vaibhav Rathi	Basic

Sr. No.	Name of the Faculty IA	Level of Training
4	Dr. Chandani Sharma	Basic
5	Naveen Rana	Basic
6	Mahesh Mishra	Basic
7	Abhishek Kumar	Basic
8	Dr. Ram Singh	Basic
9	Karan Babar	Basic
10	Dr. Aditya Lama	Basic
11	Dr. Swati Rawat	Basic

  
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Quantum University

12	Shruti Rawat	Basic
13	M. Kannan	Basic
14	M. Kannan	Advance

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### 1.2) Participation in KAPILA/SIH Program

HEI Registered in the KAPILA Portal	U-0950	Yes
HEI Participated in the Smart India Hackathon (2022)	U-0950	Yes

  
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## Section 2: Teaching and Learning: Academic Programs related to Innovation and Entrepreneurship (I&E) Offered by Quantum University

### 2.1) Academic Courses in Innovation, Entrepreneurship and IPR

S No.	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score	Course Start Date	Course End Date	Total Duration of the Course (in Days)	Total Number of Contact Hours of the Course	Mode of Delivery	Total Benefits Under
1	Entrepreneurship Development and Management	ME1602	2020-21	Core Course	Diploma	Department of Mechanical Engineering	3	02-02-2021 00:00:00	30-04-2021 00:00:00	88	40	Online	34
2	Entrepreneurship Development and Management	ME1603	2021-22	Core Course	Diploma	Mechanical Engineering	3	08-02-2022 00:00:00	05-05-2022 00:00:00	87	40	Online	28
3	Entrepreneurship Development and Business Communication	AG3603	2021-22	Core Course	Bachelor	School of Agricultural Studies	2	09-02-2022 00:00:00	05-05-2022 00:00:00	86	30	Online	105
4	Entrepreneurship Development	BB3602	2021-22	Elective Course	Bachelor	Commerce	4	09-02-2022 00:00:00	05-05-2022 00:00:00	86	42	Online	17
5	Entrepreneurship Development	BB3602	2021-22	Core Course	Bachelor	BBA	4	19-02-2022 00:00:00	14-05-2022 00:00:00	85	40	Online	86
6	Entrepreneurial Environment in India	BB3011	2021-22	Core Course	Bachelor	BBA-Minor	3	19-02-2022 00:00:00	14-05-2022 00:00:00	85	34	Online	65

  
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## 2.2) Non-Academic Courses in Innovation, Entrepreneurship and IPR

S No.	Title of Course	Academic Year	Type of Certificate Program	Certificate Program/MDP/FDP/EDP Sponsored/Supported by	Certificate Program Offering Department/Centre/ Unit Name	Program Start Date	Program End Date	Total Duration of the Course (in Days)	Total Numbers of Contact Hours of the Course	Mode of Delivery
1	Workshop on Intellectual Property Rights (IPRs) and IP management for Start	2020-21	Shortterm Certificate Program	Self Sponsored/ Supported	The Genesis-Quantum Innovation Council	14-09-2021 00:00:00	18-09-2021 00:00:00	5	30	Blended Mode
2	Scientific writing and Intellectual property right	2021-22	Short-term Certificate Program	Self Sponsored/ Supported	The Genesis-Quantum Innovation Council	26-03-2022 00:00:00	31-03-2022 00:00:00	6	32	Online
3	STARTUP ENCLAVE CUM PROJECT EXPO 2022	2021-22	Short-term Certificate Program	Self Sponsored/ Supported	The Genesis-Quantum Innovation Council	04-04-2022 00:00:00	09-04-2022 00:00:00	6	35	Online
4	Workshop on National Intellectual Property Awareness Mission (NIPAM)	2021-22	Short-term Certificate Program	Self Sponsored/ Supported	The Genesis-Quantum Innovation Council	05-04-2022 00:00:00	09-04-2022 00:00:00	5	32	Online
5	Entrepreneurship Awareness Camp	2020-21	Faculty Development Program (FDP)	Self Sponsored/ Supported	The Genesis-Quantum Innovation Council	01-09-2020 00:00:00	05-09-2020 00:00:00	5	32	Online

6	Entrepreneurs hip Awareness Camp	2020- 21	Short-term Certificate Program	Self Sponsored/ Supported	The Genesis Quantum Innovation Council	01-03- 2021 00:00:00	06-03- 2021 00:00:00	6	30	Online
7	Entrepreneurs hip Awareness Camp	2020- 21	Entreprene urship Developme nt Program (EDP)	Self Sponsored/ Supported	The Genesis- Quantum Innovation Council	01-09- 2021 00:00:00	08-09- 2021 00:00:00	8	32	Blended Mode
8	Entrepreneurs hip Awareness Camp	2021- 22	Entreprene urship Developme nt Program (EDP)	Self Sponsored/ Supported	The Genesis- Quantum Innovation Council	01-02- 2022 00:00:00	08-02- 2022 00:00:00	8	32	Online

### Section 3: Collaboration with Other Incubation Units, Quantum University and Industry Associations to Strengthen Better Services and Support to Innovation & Startups at Quantum University (AY 2020-21 & 2021-22)

#### 3.1) Collaboration with Other Incubation Units, Quantum University and Industry Associations to Strengthen Better Services and Support to Innovation & Startups at Quantum University (AY 2020-21 & 2021-22)

S No.	Collaborated Agency Name	Collaborated Agency Type	Period of Collaboration (No. of Years)	Current Status of Collaboration	Date of MOU/ Agreement Signed on	View
1	Just Agriculture	Non Govt. Agency	3 Yr	Active	20-12-2021	<a href="#">View (/Uploads/Institute/ARI-U-0950/202122/CollaboratExtern)</a>
2	ICT Academy	Non Govt. Agency	1 Yr	Active	20-11-2020	<a href="#">View (/Uploads/Institute/ARI-U-0950/202122/CollaboratExtern)</a>
3	UI Path Academic Alliance	Non Govt. Agency	1 Yr	Active	28-09-2021	<a href="#">View (/Uploads/Institute/ARI-U-0950/202122/CollaboratExtern)</a>
4	Evon Technologies Pvt. Ltd.	Non Govt. Agency	5 Yr	Active	11-05-2022	<a href="#">View (/Uploads/Institute/ARI-U-0950/202122/CollaboratExtern)</a>
5	ITI, KALSI Dehradun	Educational Institute	5 Yr	Active	01-08-2022	<a href="#">View (/Uploads/Institute/ARI-U-0950/202122/CollaboratExtern)</a>
6	ITI, Vikas Nagar	Educational Institute	5 Yr	Active	22-07-2022	<a href="#">View (/Uploads/Institute/ARI-U-0950/202122/CollaboratExtern)</a>
7	ITI, Rajpur Road Dehradun	Educational Institute	5 Yr	Active	25-08-2022	<a href="#">View (/Uploads/Institute/ARI-U-0950/202122/CollaboratExtern)</a>
8	iNurture Education Solution Pvt. Ltd.	Non Govt. Agency	5 Yr	Active	02-05-2022	<a href="#">View (/Uploads/Institute/ARI-U-0950/202122/CollaboratExtern)</a>
9	Hindustan Krishi Anusandhan Kalyan Sansthan	Non Govt. Agency	3 Yr	Active	22-02-2022	<a href="#">View (/Uploads/Institute/ARI-U-0950/202122/CollaboratExtern)</a>

10	Medigram The Super	Non Govt. Agency	3 Yr	Active	30-06-2022	<a href="#">View (/Uploads/Institute/ARI-U-0950/2021-22/CollaboratExtern)</a>
	Specialty Hospital					
11	Siliconmedia.Org	Non Govt. Agency	5	Active	22-07-2022	<a href="#">View (/Uploads/Institute/ARI-U-0950/202122/CollaboratExtern)</a>
12	Cialfor Research Labs (P) Limited	Non Govt. Agency	4	Active	13-09-2022	<a href="#">View (/Uploads/Institute/ARI-U-0950/202122/CollaboratExtern)</a>
13	Automation Anywhere	Non Govt. Agency	3 Yr	Active	10-02-2020	<a href="#">View (/Uploads/Institute/ARI-U-0950/202122/CollaboratExtern)</a>
14	Pearson	Intern ationa l Agenc y	1 Yr	Active	10-03-2021	<a href="#">View (/Uploads/Institute/ARI-U-0950/202122/CollaboratExtern)</a>
15	CSRBOX	Non Govt. Agency	4 Yr	Active	10-08-2020	<a href="#">View (/Uploads/Institute/ARI-U-0950/202122/CollaboratExtern)</a>
16	Ashok Leyland	Non Govt. Agency	3 Yr	Active	30-06-2021	<a href="#">View (/Uploads/Institute/ARI-U-0950/202122/CollaboratExtern)</a>
17	SIEMENS	Corporate/Ind ustry Association	4 Yr	Active	20-07-2021	<a href="#">View (/Uploads/Institute/ARI-U-0950/202122/CollaboratExtern)</a>



## Section 4: Intellectually Property (IP) Generated and Commercialization

### 4.1) IPR Filed and Published (Copyrights & Design only)

S No.	Title/Name of IP (Copyright/Design Only)	Type of IP	IP Registration Number of Copyright/Design	Date of Filed/Published	Has this IP (Copyright & Designs Only) been Commercialized/Transferred to Industry/Startup/Society?
1	DESIGN OF LOW COST FULL BODY EXERCISE EQUIPMENT	Design	339567-001	22-02-2021	No
2	QUAD BIKE	Design	342343-001	13-04-2021	No
3	WEARABLE WRIST AND ANKLE WEIGHTS	Design	342344-001	13-04-2021	No
4	DESIGN AN ADVANCE AUTOMATIC GUIDED SHIP WHILE ENTERING HARBOUR OR WHILE DOCKING OF SHIP IN HARBOR	Design	342345-001	13-04-2021	No
5	DESIGN A HOLDER FOR USE IN A PRESSURE- BREWING COFFEE DRINK IN A COFFEE MACHINE FOR PREPARING COFFEE	Design	342443-001	15-04-2021	No
6	WRAPPING PAPER ROLL CUTTER	Design	355037-001	16-12-2021	No
7	TYRES SAFETY DEVICE	Design	355038-001	16-12-2021	No
8	DESIGN AND DEVELOP SHOBGO BOTTLE FOR ADVANCE SELF-CLEANING WATER AND WATER BOTTLE WITH THE HELP OF UV-C LED TECHNOLOGY	Design	355039-001	16-12-2021	No
9	THE BABY POTTY TRAINER	Design	355040-001	16-12-2021	
10	ADVANCED FILTERING DEVICE USED IN COFFEE MAKER AND IMPROVEMENT OF DOUBLE FILTER BASKET	Design	355041-001	16-12-2021	No
11	ADVANCED HOT BEVERAGE PACKING CONTAINER	Design	355042-001	16-12-2021	No
12	ADVANCED ELECTRIC RACKET/FLAP/BAT FOR MOSQUITO	Design	355043-001	16-12-2021	No
13	ADVANCED COMPUTER KEYBOARD OUTER BOX WITH MULTIPURPOSE USB PLUGGER	Design	355044-001	16-12-2021	No

14	QuanSo Stainless Steel Beer Chiller Sticks & Bottle Opener	Design	358022-001	07-02-2022	No
15	QuanSo Wine Bottle Chillers	Design	358023-001	07-02-2022	No
16	ADVANCED ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING BASED TRAFFIC POLICE UMBRELLA FOR SAFETY, SECURITY AND TRACKING	Design	358875-001	20-02-2022	No
17	ADVANCE ARTIFICIAL INTELLIGENCE BASED AUTOMATIC CORKSCREW WINE OPENERS	Design	358876-001	20-02-2022	No
18	ADVANCE SNACKING TOOL OF THE FUTURE QUSNAC	Design	358877-001	20-02-2022	No
19	ADVANCE AUTOMATIC CITRUS/LEMON JUICER WITH THE HELP OF ARTIFICIAL INTELLIGENCE, MACHINE LEARNING AND PNEUMATIC SYSTEM	Design	358878-001	20-02-2022	No
20	EGG-SHAPED EAVES RESPONSIBLE FOR REMOVAL OF LIGHTWEIGHT DEBRIS	Design	362149-001	07-04-2022	No
21	I - SECTION COVER BLOCK WITH BAR HOLDING FOR HORIZONTAL STRUCTURAL ELEMENT	Design	362150-001	07-04-2022	No
22	AUTO ADJUSTABLE COMPACT RANGING ROD	Design	362151-001	07-04-2022	Yes
23	WATERPROOF FLEXIBLE TIP DIGITAL THERMOMETER	Design	361062-001	22-03-2022	No
24	MODIFIED SLUMP CONE WITH ADJUSTABLE LEVELLING BASE	Design	361065-001	23-03-2022	No
25	MULTI-TASKING POINTING TOOL (TROWEL, BEADED CONCAVE, TUCK POINTING AND KEYED POINTING TOOLS)	Design	361066-001	23-03-2022	No
26	NON-CONTACT DIGITAL INFRARED FOREHEAD THERMOMETER	Design	361067-001	23-03-2022	No
27	MULTI-TASKING POINTING TOOL (TROWEL, V- GROOVE POINTING, RECESSED POINTING AND STRUCK POINTING)	Design	361611-001	31-03-2022	No
28	Modify Flow Table for slum flow test	Design	362282-001	11-04-2022	No
29	Pocket Cap Cork Opener	Design	363500-001	01-05-2022	No

## 4.2) Patents Filed by Quantum University

S No.	Title/Name of Patent	IP Registration Number	Date of Filed/Published
1	DESIGN OF LOW COST FULL BODY EXERCISE EQUIPMENT	339567-001	22-02-2022
2	QUAD BIKE	342343-001	13-04-2021
3	WEARABLE WRIST AND ANKLE WEIGHTS	342344-001	13-04-2021
4	AUTOMATIC GUIDED SHIP	342345-001	13-04-2021
5	DESIGN A HOLDER FOR USE IN A PRESSURE-BREWING COFFEE DRINK IN A COFFEE MACHINE FOR PREPARING COFFEE	342443-001	15-04-2021
6	WRAPPING PAPER ROLL CUTTER	355037-001	16-12-2021
7	TYRES SAFETY DEVICE	355038-001	16-12-2021
8	DESIGN AND DEVELOP SHOBOGO BOTTLE FOR ADVANCE SELF-CLEANING WATER AND WATER BOTTLE WITH THE HELP OF UV-C LED TECHNOLOGY	355039-001	16-12-2021
9	BABY POTTY SITTING TRAINING DEVICE	355040-001	16-12-2021
10	FILTERING DEVICE FOR COFFEE MAKER	355041-001	16-12-2021
11	ADVANCED HOT BEVERAGE PACKING CONTAINER	355042-001	16-12-2021
12	MOSQUITO KILLING RACKET	355043-001	16-12-2021
13	KEYBOARD WITH PROTECTION COVER	355044-001	16-12-2021
14	QuanSo Stainless Steel Beer Chiller Sticks & Bottle Opener	358022-001	07-02-2022
15	QuanSo Wine Bottle Chillers	358023-001	07-02-2022
16	ADVANCED ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING BASED TRAFFIC POLICE UMBRELLA FOR SAFETY, SECURITY AND TRACKING	358875-001	20-02-2022
17	ADVANCE ARTIFICIAL INTELLIGENCE BASED AUTOMATIC CORKSCREW WINE OPENERS	358876-001	20-02-2022
18	ADVANCE SNACKING TOOL OF THE FUTURE QUSNAC	358877-001	20-02-2022
19	ADVANCE AUTOMATIC CITRUS/LEMON JUICER WITH THE HELP OF ARTIFICIAL INTELLIGENCE, MACHINE LEARNING AND PNEUMATIC SYSTEM	358878-001	20-02-2022
20	EGG-SHAPED EAVES RESPONSIBLE FOR REMOVAL OF LIGHT WEIGHT DEBRIS	362149-001	07-04-2022
21	I - SECTION COVER BLOCK WITH BAR HOLDING FOR HORIZONTAL STRUCTURAL ELEMENT	362150-001	07-04-2022
22	AUTO ADJUSTABLE COMPACT RANGING ROD	362151-001	07-04-2022
23	WATER PROOF FLEXIBLE TIP DIGITAL THERMOMETER	361062-001	22-03-2022
24	MODIFIED SLUMP CONE WITH ADJUSTABLE LEVELLING BASE	361065-001	23-03-2022

25	MULTI-TASKING POINTING TOOL (TROWEL, BEADED CONCAVE, TUCK POINTING AND KEYED POINTING TOOLS)	361066-001	23-03-2022
26	NON-CONTACT DIGITAL INFRARED FOREHEAD THERMOMETER	361067-001	23-03-2022

27	MULTI-TASKING POINTING TOOL (TROWEL, V-GROOVE POINTING, RECESSED POINTING AND STRUCK POINTING)	361611-001	31-03-2022
28	Modify Flow Table for slum flow test	362282-001	11-04-2022
29	Pocket Cap Cork Opener	363500-001	01-05-2022
30	SCIENTIFIC SCREENING INNOVATIVE METHODS AND PROCESS IN ARECRUITMENT CONSULTING FIRM	202211013867	14-03-2022
31	METHODS AND PROCESS OF AN E-POST OFFICE CONTROLLED USING AI- BASED	202211013868	14-03-2022
32	METHOD AND PROCESS TO SOLVED THE WATER PROBLEMS IN RURAL AREAS	202211013869	14-03-2022
33	DESIGNING AND SYNTHESIS OF DERIVATIVES OF ETHYLBISCOUMACETATE AND IMPACT OF STRUCTURAL CHANGE ON ANTI COAGULANT METHODS.	202211013870	14-03-2022
34	VIRTUAL VOICE CALLING AI- BASED HUMAN IN HOTEL MANAGEMENT NOTIFICATION AND CONTROLLED.	202211013871	14-03-2022
35	PATIENT DISEASE IDENTIFICATION AND NOTIFICATION USING MACHINE LEARNING AND IOT	202211013872	14-03-2022
36	SAFE AND SECURE INTERNET BANKING SYSTEM USING DL-BASED	202211013873	14-03-2022
37	METHOD AND PROCESS ACTIVE LEARNING FOR INTERACTIVE IMAGE RETRIEVAL USING ML-BASED.	202211013874	14-03-2022
38	DEVELOPMENT OF AN ONLINE ATTENDANCE AND LECTURE NOTES MANAGEMENT SYSTEM USING AI-BASED.	202211013875	14-03-2022
39	Method using artificial intelligence and in-silico for drug discovery	202211016826	25-03-2022
40	ARTIFICIAL INTELLIGENCE BASED SYSTEM FOR ADDRESSING THE PRIVACY AND SECURITY ASPECTS OF WIRELESS NETWORKS	202211018717	30-03-2022
41	SENSOR OPERATED ELECTRO MAGNETIC CLUTCH AND GEAR CHANGING TECHNOLOGY	202211021787	12-04-2022
42	SOLAR CELLS COATED WINDOW PANES OF BUILDINGS FOR MAXIMUM UTILIZATION OF SOLAR ENERGY	202211024610	26-04-2022
43	"Nano Coating of Super Capacitor on Car to support Recharging of EV Vehicles on the Run Efficiently"	202241026584	08-05-2022

44	THREE-DIMENSIONAL MAGNETIC MULTI-APPLICATION CONSTRUCTION TOY	202211027510	13-05-2022
45	"A HYBRID SECURITY FRAMEWORK MODEL FOR THE PRIVACY OF CLOUD COMPUTING IN BIG DATA AND IOT"	202241026837	09-05-2022
46	SYSTEM COMPRISING SMART AI MIRROR	202211027511	13-05-2022
47	Multipurpose Furniture Unit	202211029379	23-05-2022
48	High Protein And High Fiber Snack Composition (Peanut Choco Bar)	202211029378	23-05-2022
49	REMOTELY CONTROLLING HOME APPLIANCES	202211030129	26-05-2022
50	"Gardening Without Soil Using Wastage Materials (Hydroponics)"	202211032406	06-06-2022
51	Smart Irrigation system	202211030130	26-05-2022
52	Soya Choco Brownie (A ready to eat Novel Composition)	202211032404	06-06-2022

53	Smart Exercise Equipment (Dumbbell with Sensors)	202211035110	20-06-2022
54	Smart Grooming Device	202211035108	20-06-2022
55	Bakery Food comprising Quinoa	202211035109	20-06-2022
56	Portable Automatic Biogas	202211037174	29-06-2022
57	Smart stick for Visual impaired person	202211037203	29-06-2022
58	The effects of antibiotic treatments on elimination of Agro bacterium	202211038231	03-07-2022
59	Reduced cost AI induced IoT enabled Rain water harvesting system	202211038232	03-07-2022
60	AUTOMATIC WATERING SYSTEM FOR PLANTS USING ARDUINO	202211044106	02-08-2022
61	"MULTI-FEATURE SHOWER HEAD "	202211044107	02-08-2022
62	Face Recognition Attendance Management System	202211044529	04-08-2022
63	Intelligent Alcohol Detection System For Car	202211044528	04-08-2022
64	AUTOMATIC INDICATION SYSTEM OF GLUCOSE LEVEL	202211044530	04-08-2022
65	GLUTEN FREE PROTEIN RICH COOKIES	202211033054	09-06-2022
66	HOME SCALE SEMI-AUTOMATICALLY OPERATED SYSTEM FOR SPIRULINA CULTURE MINI FARM	202211044321	03-08-2022
67	A PHARMACEUTICAL COMPOSITION COMPRISING BINDING PROTEINS FOR THE TREATMENT OF MIXED CANCER PAIN	202111005124	06-02-2021
68	A PHARMACEUTICAL COMPOSITION COMPRISING BINDING PROTEINS FOR THE TREATMENT OF MIXED CANCER PAIN	202111005124	06-02-2021

69	AN ORAL TABLET COMPOSITION COMPRISING ACTIVE PHARMACEUTICAL INGREDIENTS SUITABLE FOR THE TREATMENT OF AUTOPHAGY MODULATION-ASSOCIATED DISEASES	202111005127	06-02-2021
70	"AN ANTI-MICROBIAL FLUORESCIN COMPOUND INCLUDING AN OLIGOMER CHAIN GROUP AND A MODIFIED GEDUNIN"	202111005949	12-02-2021
71	"REMOTELY MANAGE PRIVATE NETWORK AND PUBLIC NETWORK BASED ON SESSION INITIATION PROTOCOL"	202111008404	28-02-2021
72	"AUTHENTICATING THE USER TO ACCESS SECURE APPLICATION THROUGH THE FACE IMAGE PROCESSED IN CLOUD SERVER"	202111008405	28-02-2022
73	"TO SCALE NETWORKS USING NETWORK OVERLAYS AND TO SECURE AGAINST MALICIOUS ATTACK WITH HIGH NETWORK INTEROPERABILITY IN NETWORK ARCHITECTURE"	202111008822	02-03-2021
74	"DYNAMIC POWER MANAGEMENT AND MOBILE PLATFORM POLICY ENHANCEMENT FOR USER-ACTIVITY BASED NETWORK ENVIRONMENT"	202111008823	02-03-2021
75	Novel substituted-(1,2,3,4-tetrahydro-carbazol-9ylmethyl)-amine derivatives and preparation method there of	202111015738	02-04-2021
76	AN APPARATUS FOR PERFORMING CHEMICAL REACTION OF DETECTING ARSENIC	202111023393	26-05-2021
77	Academic Competency and Commitment Based SelfAssessment by Institutions Seeking Ranking in NIRF	202111040595	07-09-2021

78	A METHOD FOR MANAGING AND ANALYSIS OF DATA IN SMART BUILDINGS	202141048389	23-10-2021
79	AFFILIATE MARKETING METHOD FOR E-COMMERCE PLATFORM	202111051867	12-11-2021
80	A SYSTEM FOR BUSINESS PROCESS RE-ENGINEERING IN ERP IMPLEMENTATION AND METHOD THEROF	202211004042	24-01-2022
81	A system for brain tumor detection and classification on MRI images using machine learning	202211006286	06-02-2022
82	Application of Robotic technology to segregation and disposal of the Biomedical wastes	202241008221	16-02-2022
83	AN INTELLIGENT IRRIGATION SYSTEM BASED ON IOT AND CLOUD COMPUTING?	202211010090	24-02-2022
84	MACHINE LEARNING BASED APPROACH TO PROFILE THE DNA SEQUENCES TO PREDICT THE HEREDITARIAN TRAITS OF CRIMINAL	202241011965	05-03-2022

85	Patient care system using mobile-enabled application and method thereof	202211012939	10-03-2022
86	A system based on artificial intelligence deep learning approaches for diagnosis and treatment of covid-19 and method thereof field of invention bio-medical engineering	202211013180	10-03-2022
87	FINANCIAL PERFORMANCES OF PHARMA COMPANY IN RURAL AREAS	202241013639	13-03-2022
88	BLOCK CHAIN DATA ACQUISITION DEVICE FOR SMART CITY BASED ON 5G WIRELESS COMMUNICATION	202211016752	24-03-2022
89	GOVERNMENT FUND ALLOCATION & TRACKING SYSTEM OVER BLOCKCHAIN	202221018493	29-03-2022
90	Cyber security system with adaptive machine learning features	202241020783	06-04-2022
91	New drug delivery in form of buccal pouches of statins	202211026511	06-05-2022
92	Decreased the Search engine Time Cloud Data based using Machine Learning	202241028431	18-05-2022
93	Increased the Soil Stability using W-Plastic.	202221028885	19-05-2022
94	Raster- Assistive AI based Book Reading Tool	202221029221	20-05-2022
95	Density Based Traffic Signals using Microcontroller using IoT-Based.	202221029338	21-05-2022
96	Power Generation using Advanced Electromagnetic Suspension.	202221029337	21-05-2022
97	Waste Kitchen and Plastic Convert into an Energy	202221029340	21-05-2022
98	Design and Develop Alarm clock using AI and Cloud Data Based.	202221029339	21-05-2022
99	Wireless Material Handling Management Method and Process	202241029342	21-05-2022
100	Method and Process to Improve the Basmati Rice Production	202211029344	21-05-2022
101	Analysis of you tube ads in digital marketing to reach mass audience and its comparative effectiveness	202211031261	31-05-2022
102	Dual release tablet-based pain management of arthritis	202211032609	06-06-2022
103	A SYSTEM & METHOD FOR EDUCATIONAL APPROACHES USING	202211035459	21-06-2022

	3D PRINTING AND MACHINE LEARNING		
104	A MACHINE LEARNING AND AI BASED APPROACH FOR TRANSCEIVING SIGNAL IN 6G WIRELESS COMMUNICATION NETWORK	202211036449	24-06-2022
105	Crime prevention web portal	202211036768	27-06-2022

106	A method to predict water quality using artificial intelligence algorithm	202211037504	29-06-2022
107	Advanced fractional mechanical oscillator equation	202221037194	29-06-2022
108	Advanced vehicle technologies and hydrogen and fuel cell method and process	202221037195	29-06-2022
109	Motion in the generalized restricted three-body defined problem	202211037197	29-06-2022
110	Wireless Material Handling Management advanced Method and Process	202211037198	29-06-2022
111	Intelligent way to you tube ads in digital marketing to reach mass audience and its comparative effectiveness	202221037301	29-06-2022
112	Economic construction of slabs using bubble deck technology	202241037303	29-06-2022
113	Fake News Detection in social media management using deep learning and AI	202221038096	01-07-2022
114	Concrete production by adding fiber as reinforced material management system	202221038407	04-07-2022
115	Digit Classification and Dataset using Machine Learning	202241044464	03-08-2022
116	LASER LABELLING OF PATIENT SPECIFIC 3D PRINTED IMPLANT WITH AADHAR NUMER AND NAME FOR FORENSICIDENTIFICATION	202211043799	31-07-2022
117	Intelligent Reinforced learning to play slither.io	202211043797	31-07-2022
118	INTELLIGENT LIFE CAB	202211043798	31-07-2022
119	Sponge Cooler for Cooling Down the Temperature of Sponges	202211044489	03-08-2022
120	Analysis of an Enantioselective oxidative Spiroketalization	202221044469	03-08-2022
121	BGP-Treatment: Bleeding Gums Problem solved using Feracrylum Treatments	202211043800	31-07-2022
122	Fake Product Identification using Blockchain System	202211044488	03-08-2022
123	Long Range Agricultural Spy Robot Vehicle with Night Vision	202241044465	03-08-2022
124	Method and Process Hydrogen Fuel Power	202221044468	03-08-2022
125	DMHC-Process: Innovative Method and Process to Detect the Mental Health Condition	202211043796	31-07-2022
126	HOME SCALE SEMI-AUTOMATICALLY OPERATED SYSTEM FOR SPIRULINA CULTURE MINI FARM	202211044321	03-08-2022
127	A COLLABORATIVE MINING NETWORK (CMN) TO EXECUTE COMPUTATIONALLY INTENSE MINING TASKS IN MOBILE BLOCKCHAIN	"2020102384 (	21-10-2020
128	GEOGRAPHICAL DATA VISUALIZATION AND DIMENSION REDUCTION BY UNSUPERVISED LOCALLY LINEAR EMBEDDING (LLE) LEARNING ALGORITHM	"2020102383 (	21-10-2020
129	Trusted and secure configuration and validation of data for public IoT devices using block chain technology	"2020103294 (	23-12-2020





### 4.3) Patent Published / Granted Data

S No.	Patent Registrati on Applicati on No	Patent Title	Patent Application Date	Status of Patent Applications	Patent Published / Grante d Calend ar Year	Institute applied the Patent as	View
1	"2020102384 (Australian)"	A COLLABORATIVE MINING NETWORK (CMN) TO EXECUTE COMPUTATIONALLY INTENSE MINING TASKS IN MOBILE BLOCKCHAIN	20-10-2020	Granted	2020	Other (Individual)	View (/Uploads/Institute/PatentFiledNew/ARI-U-09
2	"2020102383 (Australian)"	GEOGRAPHICAL DATA VISUALIZATION AND DIMENSION REDUCTION BY UNSUPERVISED LOCALLY LINEAR EMBEDDING (LLE) LEARNING ALGORITHM	21-10-2020	Granted	2020	Other (Individual)	View (/Uploads/Institute/PatentFiledNew/ARI-U-09
3	"2020103294 (Australian)"	Trusted and secure configuration and validation of data for public IoT devices using block chain technology	23-12-2020	Granted	2020	Other (Individual)	View (/Uploads/Institute/PatentFiledNew/ARI-U-09

#### 4.4) IP Commercialized and Transferred to Industry/Startup

S No.	Name of Technology Licensed/Transferred/Commercialized	Technology Type	Patent/License Holder name (Institute Co-ownership is Must)	Technology Transferred to	Name of Licensee	Date of Transferred Technology
1	SYSTEM COMPRISING SMART AI MIRROR	IP/Patented Technology	Quantum University, Roorkee	Start-up	Dazeinfinty Private Limited	13-05-2022
2	WRAPPING PAPER ROLL CUTTER	IP/Patented Technology	Quantum University, Roorkee	Industry	RAMAA SHYAMA PAPERS PRIVATE LIMITED	27-02-2022
3	WRAPPING PAPER ROLL CUTTER	IP/Patented Technology	Quantum University, Roorkee	Industry	Punjab Teak Plywood Industries	27-02-2022
4	ADVANCED FILTERING DEVICE USED IN COFFEE MAKER AND IMPROVEMENT OF DOUBLE FILTER BASKET	IP/Patented Technology	Quantum University, Roorkee	Industry	The Brew Estate, Dehradun	30-03-2022
5	ADVANCED HOT BEVERAGE PACKING CONTAINER	IP/Patented Technology	Quantum University, Roorkee	Industry	The Brew Estate, Dehradun	30-03-2022
6	MULTI-TASKING POINTING TOOL (TROWEL, V- GROOVE POINTING, RECESSED POINTING AND STRUCK POINTING)	IP/Patented Technology	Quantum University, Roorkee	Industry	Alex Panels	18-08-2022


#### 4.5) Startups Supported by Quantum University in Previous Years

S No.	Name of Startup	Brief Description
1	<b>Zeromonk Private Limited</b>	Zeromonk Pvt Ltd caters to client software solutions & provides marketing aid with the main goal to create an educational community for the betterment of students' life and provide them good quality courses, internships, mentorships & jobs.
2	<b>DreamQuark</b>	Dream Quark which works in empowering the students in robotics by providing hands-on training and experience on various robots. They provide courses in robotics like Mechanical, Civil, Electronics, and Computer Science for solving the entire task be it designing the robots programming part and circuits.
3	<b>Macle Soft</b>	Macle Soft is a start-up that provides professional services in the field of Website, Mobile Applications, IoT, Native Software, and other IT Solutions. Macle Soft is a team of creative professionals who will bring your small business to the next level.
4	<b>Mini Meal'z</b>	Mini Meal'z targets the students of colleges/universities situated on the outskirts of cities. They aim to provide pocket-friendly meals to the students who can enjoy the best food while residing in their respective outskirts.

5	<b>Daze infinity</b>	Dazeinfinity harnesses the power of cognitive computing,
		hyper-automation, robotics, cloud, analytics, and emerging technologies to help clients successfully adapt to the digital world. Its mission is to build a platform to connect clients with IT companies.
6	<b>Anonic Technologies</b>	Anonic Technologies services are designed to simplify the IT environment for the customers globally via different services like Website Designing & Development, Graphic & Animation Designing & Mobile Application Development & Web Application Security.
7	<b>Kumas Fabric</b>	Founder of Kumas Fabric, Nikunj Garg has started his startup dealing in stain-free and durable fabric with 20 years of shelf life.


#### 4.6) Startups for the Reporting Year

##### Quantum Sparks: A Galaxy of Innovations Ignited by Quantum University's Incubator Hub

S No	Details of Incubated/Supported Startups	
	<b>NUTRITION ADDA</b>	
1.	<b>Description About Startup</b>	Nutrition Adda is a promising startup on the brink of introducing a revolutionary range of additive-free, preservative-free, and chemical-free snacks to the market. Our dedication to ensuring superior product quality, exceptional taste, and unwavering commitment to health-conscious choices sets us apart. Stay tuned for our upcoming launch, as we aim to transform the way you snack, offering a healthier alternative that combines taste and nutrition like never before. Your journey to better snacking begins with Nutrition Adda.
	<b>Stage</b>	Product development and Market fit testing.
	<b>Team Members</b>	<p>The board includes below following</p> <ul style="list-style-type: none"> <li>Dipanshu Kumar (Founder)</li> <li>Priya Mishra (Manufacturing head)</li> <li>Aakash Anand (Technical Head)</li> </ul>
	<b>Sector</b>	Food and Nutrition
	<b>USP</b>	The unique selling proposition (USP) of our Nutrition Adda snacks lies in our unwavering commitment to your well-being. We meticulously craft each product to be free of additives, preservatives, and harmful chemicals, ensuring a wholesome and guilt-free snacking experience. Our dedication to premium quality and exceptional taste means you can enjoy delicious snacks without compromising on your health. Nutrition Adda is your gateway to a healthier lifestyle, where every bite offers the perfect balance of taste and nutrition, setting us apart as the ultimate choice for health-conscious consumers.
	<b>Logo</b>	
	<b>ZEROMONK PVT. LTD.</b>	

<b>2.</b>	<b>Description About</b>	<b>ZERO- A new way to build verified professional connections</b>

	<b>Startup</b>	<p><b>with like-minded people, especially for Gen-Z and Millenials &amp; students (age -14-27).</b> It is an engaging professional place to look for investors, mentors, recruiters and like-minded connections.</p> <p>Zero lets you swipe through the names of your like-minded professionals in your interested industries and make connections with potential recruiters, investors/experts/mentors in your field, Founders/budding entrepreneurs &amp; fellow students/professionals, and build meaningful connections through various events.</p>
	<b>Stage</b>	<p>Product development and Market fit testing.</p> <p>We have started this concept with a WhatsApp community to check the product market fit and within 45 days we already connected with 20+ schools &amp; colleges and built 2000+ communities.</p>
	<b>Team Members</b>	<p><b>A Total of 10 people in the team the board includes below following</b></p> <ul style="list-style-type: none"> <li>• Soumyadeep Pramanik (Robotics Graduate) - Founder and CEO</li> <li>• Abhi Srivastava (Robotics Graduate)-Cofounder and CTO</li> </ul>
	<b>Sector</b>	Edu-Social media/networking platform. It is a professional place to look for investors, mentors and business connections.

	<b>USP</b>	<p>Every year over 1cr+ students appear for board exam and only 20k goes to a good college. In the tier 2-3-4 cities school colleges, students failed to get good professional connections /alumni support/ good resources like jobs/ internships &amp; even startups from tier 2-3-4 failed because of lack of networking &amp; resources. And 90% of students/young professionals are not using LinkedIn for their networking because it is boring and difficult to build a network.</p> <p>So we are building an engaging swiping-based verified networking platform for Gen-Z &amp; millennials (approx 800 million+ people), mostly those who do not have a good professional connection &amp; not use LinkedIn. It encourages connecting with new like-minded people/mentors from different institutes, not just people you already work/study with.</p> <ul style="list-style-type: none"> <li>• Unified platform for Gen-Z&amp; Millennials</li> <li>• Verified Profiles</li> <li>• Networking with Purpose (Invest/hire/network)</li> </ul>
		<ul style="list-style-type: none"> <li>• In-App Chat</li> <li>• Passion-based Filters – eg- Tech enthusiasts</li> <li>• Day-wise Purpose based Events eg- speed dating for tech enthusiasts</li> <li>• Mentorship and Learning</li> <li>• Platform for Diverse Professions</li> </ul>
	<b>Logo</b>	 <b>ZEROMONK</b>