

Section 1: Policy And Institutionalization Of I&E Activities In HEIs (Academic Calendar Year 2020-21 & 2021-22)

1.1) Adoption Level of Innovation and Entrepreneurship (I&E) Policy in HEIs: Registration; Policy Formulation; Policy Implementation

Completion of Action Items (status as on 7th November 2022)	Status
Registered in the NISP portal for I&E Policy Adoption	Yes
Institute has Formulated an Innovation and Entrepreneurship (I&E) Policy	No
Institute has Action Plans for Implementation of the I&E Policy	No

Contact:

Faculty Name:	Dr.Shradha Gupta
Designation:	Assistant Professor
Email ID:	shradha.gupta@glbitm.ac.in
Mobile No.	9953891510

1.2) Performance Level of Institution's Innovation Councils (IICs) Established in HEIs: Scores and Stars Obtained

Annual Performances of IIC Institute	Stars Secured
IIC 1.0 (2018-19)	1,2,3
IIC 2.0 (2019-20)	5
IIC 3.0 (2020-21)	4
IIC 4.0 (2021-22)	4

Contact:

IIC President of the Institute:	Dr. Manas Kumar Mishra
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Designation:	Professor and Director
Email ID:	director@glbitm.org
Mobile No.	9971074301

1.3) Activeness of Trained Innovation Ambassadors in Driving Campus I&E Ecosystems in HEIs: Trained IA/HEI and Nos of Prescribed Activities undertaken by IA

Sr. No.	Name of the Faculty IA	Level of Training	No of I&E Expert Talks/Sessions Conducted
1	Dr.Shradha Gupta	Advance	20
2	Dr. Nagendra Kumar	Advance	25
3	Priyanka Datta	Advance	9
4	Neha Tyagi	Advance	0
5	Mr.Avdhesh Tyagi	Advance	8
6	Dr. Astha Sharma	Advance	13
7	BIRENDRA KUMAR SARASWAT	Basic	0
8	Megh Singhal	Basic	0
9	Dr.Sanjeev Sharma	Advance	4
10	Ms.Deepti Dohare	Advance	13
11	Ms.Deep kiran	Basic	0
12	Mohit Aggarwal	Basic	0
13	Dr. Ashish Tripathi	Basic	0
14	Rohit kumar	Basic	0
15	Dr.Krishanu Kundu	Advance	0
16	Dr Nivedita singh	Basic	0
17	Dr. Arun Kumar Singh	Basic	0
18	Mr. Rohit Sahu	Advance	0
19	Pragati Gupta	Basic	0

Sr. No.	Name of the Faculty IA	Level of Training	No of I&E Expert Talks/Sessions Conducted
20	Dr. Shradha Gupta	Advance	20
21	Dr.Sarvendu Tiwari	Basic	0
22	Indrajeet Singh	Basic	0
23	BIRENDRA KUMAR SARASWAT	Advance	0

1.4) Participation in KAPILA/SIH Program

HEI Registered in the KAPILA Portal	C-46239	Yes
HEI Participated in the Smart India Hackathon (2022)	C-46239	Yes

Section 2: Teaching and Learning: Academic Programs related to Innovation and Entrepreneurship (I&E) Offered by the HEI

2.1) Academic Courses in Innovation, Entrepreneurship and IPR

Srno	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
1	Entrepreneurship Development	KOE-083	2021-22	Elective Course	Bachelor	Civil Engineering Department	3	01-04-2022 00:00:00
2	Entrepreneurship Development	KOE-083	2021-22	Elective Course	Bachelor	Department of Mechanical Engineering	3	01-03-2022 00:00:00
3	Idea of Business Model (IBM)	KOE060(3L)	2021-22	Elective Course	Bachelor	Electrical and Electronics Engineering	3	01-03-2022 00:00:00
4	Entrepreneurship Development (ED)	KOE-083 (4L)	2021-22	Elective Course	,Bachelor	Electrical and Electronics Engineering	3	01-03-2022 00:00:00

Srno	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
5	Project management Entrepreneurship	KHU-802 (3L)	2021-22	Elective Course	,Bachelor	Electrical and Electronics Engineering	3	01-03-2022 00:00:0

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

Srno	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
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No Data Found

Section 3: Pre-Incubation and Incubation Infrastructure & Facilities are Currently in Operation to Promote I&E Agenda (AY 2020-21 & 2021-22)

3.1) Existence of Pre-Incubation Facility (Tinkering Lab/Makers' Space/Design Centre/New Gen IEDC/IEDC/EDC/Innovation Cell/Startup Cell) (>= 600 Sq. Ft. Floor Area)

Sr. No.	Type of the Unit	Name of Unit	In-charge Name	Contact no	Email	Govt. Schemes
1	EDC	EDC	Avdhesh Tyagi	9911236770	avdhesh.tyagi@glbitm.ac.in	
2	Innovation Cell	Innovation Cell	Dr.Shradha Gupta	9953891510	shradha.gupta@glbitm.ac.in	

Sr. No.	Type of the Unit	Name of Unit	In-charge Name	Contact no	Email	Govt. Schemes
3	Startup Cell	Startup Cell	Dr. Sanjay Kumar	8826784646	sanjay.kumar01@glbitm.ac.in	

3.2) Existence of Incubation Facility (>= 1500 Sq. Ft. Floor Area)

Sr. No.	Name of Unit	In-charge Name	Contact no	Email	Govt. Schemes
1	G. L. Bajaj Center for Research and Incubation	Avdhesh Tyagi	9911236770	avdheshtyag@gmail.com	MSME, Other Central/State Government

3.3) Existence of IPR Cell / Patent Facilitation Unit / Technology Transfer Centre at the institute

Sr. No.	Type of the Unit	Name of Unit	In-charge Name	Contact no	Email	Govt. Schemes
1	IPR Cell	IPR facilitation centre	Sanjeev Sharma	8802266425	sanjeev.sharma@glbitm.ac.in	Pre-Incubation Facility Support (Idea to Prototype and Innovative Business Plan Development)

Section 4: Generation and Support of Prototypes / Innovations at HEI and Recognition received (AY 2020-21 & 2021-22)

4) Total no. of Innovations (Verified and Recommended) in Different TRLs (4-9) are Recorded in the YUKTI National Innovation Repository of the IIC Institute (Status as on 7th November 2022)

Sr. No.	Innovation Name	Developed as part of	FY of Development (FY. 2020-21,2021-22)	TRL Stage	Team Lead/Innovator Name	Current Engagement of Team Lead in Institute
1	Air purifier & conditioner based on liquid mechanism	Independent Assignment/Non-academic Study Project	2021-22	TRL 7 : Demonstration system operating in operational environment at pre-commercial scale		

Section 5: Start-ups/Ventures Established and Supported at HEI and & Recognitions Received (AY 2020-21 & 2021-22)

5) Total no of Ventures/Startups (Verified and Recommended) are Recorded in the YUKTI National Innovation Repository of the IIC Institute (Status as on 7th November 2022)

Sr. No.	Startup/Venture Name	Startup/Venture Registered as	CIN No/LLP/OPC/RC No
1	Dream Provider Private Limited	Private Limited Firm (Pvt. Ltd.)	U74999UP2022PTC159586 View Document (https://api.mic.gov.in/uploads/institutes/innovationcontestPlace,Business/Management Innovation6201903.PDF)

Section 6: Collaboration with Other Incubation Units, HEIs and Industry Associations to Strengthen Better Services and Support to Innovation & Startups at HEI (AY 2020-21 & 2021-22)

6) Collaboration with Other Incubation Units, HEIs and Industry Associations to Strengthen Better Services and Support to Innovation & Startups at HEI (AY 2020-21 & 2021-22)

Sr. 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	Sardar Patel University of Police, Security and Criminal Justice, Jodhpur, Rajasthan, India	Govt. Agency (State)	3	Active	13-09-2021	View (/Uplo
2	Electronics sector skills council of India	Govt. Agency (Central)	2	Active	17-01-2020	View (/Uplo
3	Aerospace and Defense Consultants Association of India (ADCAI), Gurugram, India	Non Govt. Agency	3	Active	19-08-2021	View (/Uplo
4	Capgemini Technology Services India Limited	Corporate/Industry Association	2	Active	22-11-2021	View (/Uplo
5	Birlasoft	Corporate/Industry Association	2	Active	17-07-2020	View (/Uplo
6	EPAM	Corporate/Industry Association	4	Active	12-05-2022	View (/Uplo

Sr. No.	Collaborated Agency Name	Collaborated Agency Type	Period of Collaboration (No. of Years)	Current Status of Collaboration	Date of MOU / Agreement Signed on	View
7	SMS VANS skilling & Advisory Pvt. Ltd.	Knowledge/Mentoring Agency	1	Active	14-03-2022	View (/Uplo
8	Centum Foundation	Corporate/Industry Association	1	Closed	01-03-2020	View (/Uplo
9	Stratis Blockchain R & D Center in collaboration with C# corner	Non Govt. Agency	1	Active	25-11-2021	View (/Uplo
10	coding ninjas sunrise mentors pvt. ltd.	Corporate/Industry Association	1	Active	22-12-2021	View (/Uplo

Section 7: Intellectually Property (IP) Generated and Commercialization

7.1) IPR Filed and Published (Copyrights & Design only)

Sr. 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?
No Data Found					

7.2) Patents Filed by HEI

Sr. No.	Title/Name of Patent	IP Registration Number	Date of Filed/Published
1	TO FIND THE LOST ITEMS	202011027393	28-06-2020

Sr. No.	Title/Name of Patent	IP Registration Number	Date of Filed/Published
2	DEVELOPMENT OF GLASS FIBER EPOXY/ SAW DUST COMPOSITE AND EVALUATION OF THEIR MECHANICAL PROPERTIES	202011027394	28-06-2020
3	EARTHQUAKE DETECTION ALARM USING VIBRATION SENSOR & MICROCONTROLLER FOR CONCRETE AND STEEL STRUCTURES	202011027395	28-06-2020
4	ZIGBEE BASED FOREST FIRE DETECTION	202011027396	28-06-2020
5	IOT BASED HEALTH MONITORING DEVICE	202011027397	28-06-2020
6	REMOTE MONITORING OF HERITAGE STRUCTURES USING WIRELESS SENSORS	202011027398	28-06-2020
7	SMART AGRI-KIOSK FOR FARM INPUTS AND OUTPUTS	202011027399	28-06-2020
8	RECTENNA BASED ENERGY HARVESTING SYSTEM	202011027400	28-06-2020
9	IOT ENABLED SMART WASTE MANAGEMENT SYSTEM	202011027401	28-06-2020
10	OUTDOOR AIR FILTER WITHOUT USING SOLID FILTER	202011027427	28-06-2020
11	FAKE NEWS DETECTION BASED ON MACHINE LEARNING AND NATURAL LANGUAGE PROCESSING	202011027428	28-06-2020
12	TWO WHEELER BATTERY INDICATOR WITH MESSAGE	202011027429	28-06-2020
13	PYREXIA BAND	202011027430	28-06-2020
14	ON DEMAND BLOOD DONATION USING LIVE BLOOD BANK	202011027431	28-06-2020
15	ANTI THEFT CAR SECURITY SYSTEM	202011027432	28-06-2020
16	"BEAT MADHUMEH": A CLOUD HOSTED SELF CARE PREDIABETES AND HYPERTENSION MANAGEMENT SYSTEM	202011027433	28-06-2020
17	TO DEVELOP AND DEPLOY A WIRELESS SENSOR NETWORK FOR CLIMATE SMART AGRICULTURE THROUGH BIG DATA ANALYSIS	202011027434	28-06-2020
18	REMOTE MONITORING OF PATIENT BODY PARAMETERS	202011027435	28-06-2020
19	PATIENT MONITORING ALERT THROUGH IOT	202011027615	29-06-2020
20	MINI CNC MILLING MACHINE	202011027616	29-06-2020
21	THE HEIGHT ADJUSTER URINAL FLUSH	202011027617	29-06-2020
22	IOT BASED STRAW MANAGEMENT	202011027618	29-06-2020

Sr. No.	Title/Name of Patent	IP Registration Number	Date of Filed/Published
23	SYSTEM AND METHOD FOR PROVIDING SECURITY TO USER	202011033230	03-08-2020
24	SYSTEMS AND METHODS FOR DETERMINATION OF NEURODEGENERATIVE DISORDERS/DISEASES	202011033227	03-08-2020
25	PROGRAMMABLE SCHEDULING OF FLEXIBLE MANUFACTURING SYSTEM TO MINIMIZE MAKESPAN	202011033222	03-08-2022
26	SYSTEM AND METHOD FOR SENSOR BASED WASTE MANAGEMENT	202011033226	03-08-2020
27	SYSTEM AND METHOD FOR IOT BASED BIOMETRIC ATTENDANCE	202011033224	03-08-2020
28	SYSTEM AND METHOD FOR A POTENTIAL VEHICULAR FIRE INCIDENT DETECTION	202011033223	03-08-2020
29	SYSTEM AND METHOD FOR FLOATING SOLAR OPERATED PURIFIER	202011033287	03-08-2020
30	MULTI-FUNCTION HYBRID EXERCISE MACHINE	202011033220	03-08-2020
31	VENTILATED PERSONAL PROTECTION EQUIPMENT	202011033225	03-08-2020
32	SELF-SANITIZING DOOR HANDLE ASSEMBLY	202011033231	03-08-2020
33	A MULTIPURPOSE FIXTURE TOOL FOR FRICTION STIR WELDING, PROCESSING AND ADDITIVE MANUFACTURING	202011033221	03-08-2020
34	SYSTEM TO IDENTIFY THE EARLY STAGE OF LUNG CANCER	202011033229	03-08-2020
35	DEVICE FOR DETECTION OF UNMASKING SKIN CANCER	202011033228	03-08-2020
36	Soil Quality Monitoring and Enhancing the soil Nutrients to bring the good quality crops using CPS and Machine Learning Techniques	2020103446	16-11-2020
37	IML-Cloud Data Performance: Improved using Machine Learning	AU2020104034	12-12-2020
38	AN ARTIFICIAL INTELLIGENCE AND IOT BASED COVID-19 EARLY WARNING SYSTEM FOR SENIOR CITIZENS	2020102250	15-09-2020
39	IOTM- Class Monitoring System: IoT and AI based Monitoring system for Faculty and their Course Materials Availability	2020102908	21-10-2020
40	Smart Autonomous Wheelchair For Visuality Impaired Persons	202011055422	20-12-2020
41	A CHARGED DEVICE FOR CLEANING DUST	202011053273	07-12-2020

Sr. No.	Title/Name of Patent	IP Registration Number	Date of Filed/Published
42	WEARABLE CHILD MONITORING DEVICE WITH INBUILT HEART RATE MEASUREMENT TO PROTECT FALLING INTO ABANDONED DEEP BORE WELL	202041033007	31-07-2020
43	DIGITAL GADGET TO MONITOR PETROL THEFT IN VEHICLES	202041046926	28-10-2020
44	Self-Checkout method using an IOT based shopping cart	202011050849	23-11-2020
45	IADA- IOT- BASED TECHNOLOGY: INTELLIGENT AUTOMOTIVE DEVICE, SYSTEM AND PROCESS USING IOT-BASED TECHNOLOGY	202021006286	13-02-2020
46	DIGITAL IDENTITY TRACKING: DIGITAL IDENTITY TRACKING TO ANY MOBILE WITH HIGH SECURITY USING MACHINE LEARNING PROGRAMMING.	202011016364	15-04-2020
47	A System and Method for Electric Generation	202011001246	01-10-2020
48	IOT BASED REAL TIME INFANT MONITORING AND ALERTING SYSTEM	202111000134	01-04-2021
49	System and Method for continuous Charging Using Piezoelectric Material	202111005346	02-08-2021
50	SYSTEMS AND METHODS FOR GENERATION OF ELECTRICAL POWER FROM A SLUDGE	202111004183	30-01-2021
51	SYSTEMS AND METHODS FORINATTENTIVE/ATTENTIVE DRIVING STYLE	202111007240	21-02-2021
52	SYSTEMS AND METHODS FOR RECYCLING OF PLASTIC WASTE TO MANUFACTURE AN OBJECT	202111008148	26-02-2021
53	SHOULDER HEATING PAD	202111012052	21-03-2021
54	Thermo distance anti-theft device with Person Entry/Exit limitation during the Pandemic	202111012053	21-03-2021
55	Smart Mirror for virtual dressing used in shopping Complex	202111012084	22-03-2021
56	GENERATION OF ELECTRONIC BILL FOR TRANSACTION REFERENCE NUMBER USING BLOCKCHAIN TECHNOLOGY	202111019348	27-04-2021
57	SYSTEM AND METHOD OF REAL-TIME IMAGE RETRIEVAL	202111003796	28-01-2021
58	AN AUTOMATED HEALTHCARE SYSTEM WITH MEDICAL SERVICES ASSISTANCE	202111009704	09-03-2021
59	Rain Sensing Umbrella: Rain Sensing hands free auto open closed umbrella bag	202111032910	22-07-2021

Sr. No.	Title/Name of Patent	IP Registration Number	Date of Filed/Published
60	SYSTEM AND METHOD TO TRACK AN OUTBREAK OF A PANDEMIC DISEASE	202111052170	14-11-2021
61	METHOD AND SYSTEM TO DETECT A FACE MASK WEARING STATUS	202111052171	14-11-2021
62	METHOD AND SYSTEM TO AUTHENTICATE A PERSON	202111052172	14-11-2021
63	METHOD AND SYSTEM TO DETECT THE VITAL HEALTH PARAMETERS OF A PERSON	202111052173	14-11-2021
64	METHOD AND SYSTEM TO DETECT AN ATMOSPHERIC CONDITION OF AN AMBIENCE	202111052174	14-11-2021
65	IOT BASED HEALTH MONITORING	202111052168	14-11-2021
66	METHOD AND SYSTEM TO MANAGE ELECTRONIC MEDICAL RECORD	202111052169	14-11-2021
67	METHOD AND SYSTEM TO ENHANCE YIELD OF THE CROPS	202111054176	24-11-2021
68	METHOD AND SYSTEM TO MANAGE A DRY WASTE MATERIAL AND WET WASTE MATERIAL	202111054177	14-11-2021
69	AUTOMATED MANAGEMENT OF RAILWAY CROSSING AT A RAILROAD-CROSSING JUNCTION	202111054178	24-11-2021
70	IOT BASED WATER DISTRIBUTION SYSTEM	202111054179	24-11-2021
71	METHOD AND SYSTEM TO NOTIFY AN ACCIDENT EVENT	202111054180	24-11-2021
72	METHOD AND SYSTEM TO RECORD A TRAFFIC VIOLATION EVENT	202111054181	24-11-2021
73	FIRE-FIGHTING ROBOT	202111054302	24-11-2021
74	IOT BASED INTELLIGENT SURVEILLANCE SYSTEM	202111054301	24-11-2021
75	SEMI AUTOMATED ROBOT FOR DISINFECTION	202111054298	24-11-2021
76	SMART WASTE MANAGEMENT SYSTEM	202111054303	24-11-2021
77	SYSTEM AND METHOD FOR CROP MANAGEMENT	202111054299	24-11-2021
78	IOT BASED SMART PARKING	202111054304	24-11-2021
79	METHOD AND SYSTEM TO MONITOR AN AGRICULTURAL FIELD	202111054300	24-11-2021
80	METHOD AND SYSTEM TO MANAGE AN ELEVATOR OF A HIGH-RISE BUILDING	202111054171	24-11-2021

Sr. No.	Title/Name of Patent	IP Registration Number	Date of Filed/Published
81	A System for mathematical representation of various physical systems using intractive graphic user interface and thereof	202111057737	11-12-2021
82	SMART COOKING APPRATUS	202111058841	17-12-2021
83	RFID BASED POSITION IDENTIFICATION IN A PLAYING ARENA	202111020437	05-05-2021
84	SMART ELECTRONIC INDUCTION STOVE	202011038833	09-09-2020
85	SMART PUBLIC TRANSPORT DISINFECTION AND STERILIZATION SYSTEM	2021101212	08-03-2021
86	SMART FRAMEWORK FOR PROVIDING PRIVACY AND PROTECTION IN BLOCK CHAIN BASED PRIVATE TRANSACTIONS USING CLOUD COMPUTING APPROACH	2021104564	26-07-2021

7.3) Patent Published / Granted Data

Sr. No.	Patent Registration Application No	Patent Title	Patent Application Date	Status of Patent Applications	Patent Published / Granted Calendar Year	Institute applied the Patent as
1	202111057737	A SYSTEM FOR MATHEMATICAL REPRESENTATION OF VARIOUS PHYSICAL SYSTEMS USING INTERACTIVE GRAPHIC USER INTERFACE AND METHOD THEREOF	11-12-2021	Published	2021	
2	202111054298	SEMI AUTOMATED ROBOT FOR DISINFECTION	24-11-2021	Published	2021	
3	202111054299	SYSTEM AND METHOD FOR CROP MANAGEMENT	24-11-2021	Published	2021	
4	202111054300	METHOD AND SYSTEM TO MONITOR AN AGRICULTURAL FIELD	24-11-2021	Published	2021	

Sr. No.	Patent Registration Application No	Patent Title	Patent Application Date	Status of Patent Applications	Patent Published / Granted Calendar Year	Institute applied the Patent as
5	202111054301	IOT BASED INTELLIGENT SURVEILLANCE SYSTEM	24-11-2021	Published	2021	
6	202111054302	FIRE-FIGHTING ROBOT	24-11-2021	Published	2021	
7	202111054303	SMART WASTE MANAGEMENT SYSTEM	24-11-2021	Published	2021	
8	202111054304	IOT BASED SMART PARKING	24-11-2021	Published	2021	
9	202111054176	METHOD AND SYSTEM TO ENHANCE YIELD OF THE CROPS	24-11-2021	Published	2021	
10	202111054177	METHOD AND SYSTEM TO MANAGE A DRY WASTE MATERIAL AND WET WASTE MATERIAL	24-11-2021	Published	2021	
11	202111054178	AUTOMATED MANAGEMENT OF RAILWAY CROSSING AT A RAILROAD-CROSSING JUNCTION	24-11-2021	Published	2021	
12	202111054179	IOT BASED WATER DISTRIBUTION SYSTEM	24-11-2021	Published	2021	
13	202111054180	METHOD AND SYSTEM TO NOTIFY AN ACCIDENT EVENT	24-11-2021	Published	2021	
14	202111054181	METHOD AND SYSTEM TO RECORD A TRAFFIC VIOLATION EVENT	24-11-2021	Published	2021	
15	202111054171	METHOD AND SYSTEM TO MANAGE AN ELEVATOR OF A HIGH-RISE BUILDING	24-11-2021	Published	2021	
16	202111053778	INTERNET OF THINGS BASED SMART SUSTAINABLE CULTIVATION MANAGEMENT SYSTEM	23-11-2021	Published	2021	

Sr. No.	Patent Registration Application No	Patent Title	Patent Application Date	Status of Patent Applications	Patent Published / Granted Calendar Year	Institute applied the Patent as
17	202111052249	A SYSTEM BASED ON MACHINE LEARNING FOR DATABASE MIGRATION IN CLOUD COMPUTING ENVIRONMENT AND METHOD THEREOF	15-11-2021	Published	2021	
18	202111052168	IOT BASED HEALTH MONITORING	14-11-2021	Published	2021	
19	202111052169	METHOD AND SYSTEM TO MANAGE ELECTRONIC MEDICAL RECORD	14-11-2021	Published	2021	
20	202111052170	SYSTEM AND METHOD TO TRACK AN OUTBREAK OF A PANDEMIC DISEASE	14-11-2021	Published	2021	
21	202111052171	METHOD AND SYSTEM TO DETECT A FACE MASK WEARING STATUS	14-11-2021	Published	2021	
22	202111052172	METHOD AND SYSTEM TO AUTHENTICATE A PERSON	14-11-2021	Published	2021	
23	202111052173	METHOD AND SYSTEM TO DETECT THE VITAL HEALTH PARAMETERS OF A PERSON	14-11-2021	Published	2021	
24	202111052174	METHOD AND SYSTEM TO DETECT AN ATMOSPHERIC CONDITION OF AN AMBIENCE	14-11-2021	Published	2021	
25	202111048717	INTELLIGENT AGRICULTURE CONTROLLING AND MONITORING USING IOT-BASED TECHNOLOGY-	25-10-2021	Published	2021	

Sr. No.	Patent Registration Application No	Patent Title	Patent Application Date	Status of Patent Applications	Patent Published / Granted Calendar Year	Institute applied the Patent as
26	202111046342	DEEP LEARNING BASED STRESS MANAGEMENT TECHNIQUES FOR BETTER WORK LIFE BALANCE	11-10-2021	Published	2021	
27	202111046144	INTERNET OF THING (IOT) BASED SYSTEM AND METHOD FOR MONITORING AGRICULTURE	11-10-2021	Published	2021	
28	202111043102	TWO FACTOR AUTHENTICATION BASED ON IOT SENSORS FOR SECURE AND AUTOMATIC PAYROLL SYSTEM	23-09-2021	Published	2021	
29	202111042325	MATHEMATICAL MODULATION FOR AN EFFICIENT ESTIMATION OF CHANNEL FOR 5G WIRELESS COMMUNICATION SYSTEMS	18-09-2021	Published	2021	
30	202111037373	DATA DISTRIBUTION BETWEEN THE AMBULANCE AND RAILWAY CROSSING DATABASE USING AN INTELLIGENT AMBULANCE GUIDING UNIT	18-08-2021	Published	2021	
31	202111032910	RAIN SENSING UMBRELLA: RAIN SENSING HANDS FREE AUTO OPEN CLOSED UMBRELLA BAG-	22-07-2021	Published	2021	

Sr. No.	Patent Registration Application No	Patent Title	Patent Application Date	Status of Patent Applications	Patent Published / Granted Calendar Year	Institute applied the Patent as
32	202111028832	IMAGE CONTRAST ENHANCEMENT SYSTEM WITH FUZZY BASED THRESHOLD HISTOGRAM EQUALIZATION	27-06-2021	Published	2021	
33	202141027189	A VEHICLE SYSTEM WITH HAPTIC OUTPUT FOR IMPAIRED BASED ON MACHINE LEARNING & ARTIFICIAL INTELLIGENCE INTERFACES	17-06-2021	Published	2021	
34	202141026441	EMBEDDED BASED SMART GARDENING SYSTEM	14-06-2021	Published	2021	
35	202111025113	A SYSTEM AND METHOD FOR SECURE CONNECTION WITH NEWLY CONNECTED DEVICE IN CLOUD NETWORK	06-06-2021	Published	2021	
36	202141025104	SYSTEM FOR CONTROLLING VARIOUS CROP HARVEST ACTIVITIES USING BIG DATA ANALYTICS BASED MACHINE LEARNING AND IOT	06-06-2021	Published	2021	
37	202141024465	A VEHICLE SIMULATION TOOL BY PROVIDING WSN INSIDE THE VEHICLE WITH AI & ML BASED INTERFACES	01-06-2021	Published	2021	
38	202141022387	SYSTEM FOR CASH DEPOSITING AND DISPENSING WITH AUTO SANITIZATION FUNCTIONALITY BASED ON THE INTERNET OF THINGS	19-05-2021	Published	2021	

Sr. No.	Patent Registration Application No	Patent Title	Patent Application Date	Status of Patent Applications	Patent Published / Granted Calendar Year	Institute applied the Patent as
39	202111020437	RFID BASED POSITION IDENTIFICATION IN A PLAYING ARENA	05-05-2021	Published	2021	
40	202111019348	GENERATION OF ELECTRONIC BILL FOR TRANSACTION REFERENCE NUMBER USING BLOCKCHAIN TECHNOLOGY	27-04-2021	Published	2021	
41	202141018109	A NOVEL METHOD OF OBJECT DETECTION USING FEEDFORWARD DEEP CONVOLUTIONAL ARTIFICIAL NEURAL NETWORK IN WSN	19-04-2021	Published	2021	
42	202111013187	IOT BASED WEARABLE STRESS LEVEL DETECTOR	25-03-2021	Published	2021	
43	202111012084	SMART MIRROR FOR VIRTUAL DRESSING USED IN SHOPPING COMPLEX	22-03-2021	Published	2021	
44	202111012053	THERMO DISTANCE ANTI-THEFT DEVICE WITH PERSON ENTRY/EXIT LIMITATION DURING THE PANDEMIC	21-03-2021	Published	2021	
45	202111012052	SHOULDER HEATING PAD	21-03-2021	Published	2021	
46	202111009704	AN AUTOMATED HEALTHCARE SYSTEM WITH MEDICAL SERVICES ASSISTANCE	09-03-2021	Published	2021	
47	202111009215	DEEP LEARNING MODEL BASED FRAUDULENT INCOMING CALL DETECTION SYSTEM	05-03-2021	Published	2021	

Sr. No.	Patent Registration Application No	Patent Title	Patent Application Date	Status of Patent Applications	Patent Published / Granted Calendar Year	Institute applied the Patent as
48	202111008148	SYSTEMS AND METHODS FOR RECYCLING OF PLASTIC WASTE TO MANUFACTURE AN OBJECT	26-02-2021	Published	2021	
49	202111007240	SYSTEMS AND METHODS FOR INATTENTIVE/ATTENTIVE DRIVING STYLE	21-02-2021	Published	2021	
50	202111006557	"INTELLIGENT MONITORING AND CONTROLLING OF CHARGING AND DISCHARGING OF ELECTRIC VEHICLES BATTERIES BY SOLAR PV ARRAY"	17-02-2021	Published	2021	
51	202111005346	SYSTEM AND METHOD FOR CONTINUOUS CHARGING USING PIEZOELECTRIC MATERIAL	08-02-2021	Published	2021	
52	202111004183	SYSTEMS AND METHODS FOR GENERATION OF ELECTRICAL POWER FROM A SLUDGE	30-01-2021	Published	2021	
53	202111003796	SYSTEM AND METHOD OF REAL-TIME IMAGE RETRIEVAL	28-01-2021	Published	2021	
54	202111000134	IOT BASED REAL TIME INFANT MONITORING AND ALERTING SYSTEM	04-01-2021	Published	2021	
55	202011055422	SMART AUTONOMOUS WHEELCHAIR FOR VISUALLY IMPAIRED PERSONS	20-12-2020	Published	2021	
56	202011033220	Hybrid Exercise Machine (HEM) for spine related problems	03-08-2020	Published	2021	

Sr. No.	Patent Registration Application No	Patent Title	Patent Application Date	Status of Patent Applications	Patent Published / Granted Calendar Year	Institute applied the Patent as
57	202011033225	VENTILATED PERSONAL PROTECTION EQUIPMENT	03-08-2020	Published	2021	
58	202011033226	Waste management for new India	03-08-2020	Published	2021	
59	202011033231	SELF-SANITIZING DOOR HANDLE ASSEMBLY	03-08-2020	Published	2021	
60	202011027615	SYSTEM AND METHOD FOR INITIATING PATIENT HEALTH MONITORING ALERT AND ANTICIPATING PATIENT'S HEALTH REMOTELY	29-06-2020	Published	2021	
61	202011027616	CNC MILLING SYSTEM AND ITS METHOD OF OPERATION	29-06-2020	Published	2021	
62	202011027617	The Height Adjuster Urinal Flush	29-06-2020	Published	2021	
63	202011027618	IOT BASED STRAW MANAGEMENT	29-06-2020	Published	2021	
64	202011027427	OUTDOOR AIR FILTER WITHOUT SOLID FILTER	28-06-2020	Published	2021	
65	202011027428	SYSTEM AND METHOD FOR DETECTING FAKE NEWS USING MACHINE LEARNING AND NATURAL LANGUAGE PROCESSING	28-06-2020	Published	2021	
66	202011027429	SYSTEM AND METHOD FOR MONITORING BATTERY STATUS OF TWO WHEELER VEHICLES	28-06-2020	Published	2021	
67	202011027430	MEDICAL DEVICE AND METHOD FOR ASSESSING AND MONITORING USER'S HEALTH IN REAL TIME	28-06-2020	Published	2021	

Sr. No.	Patent Registration Application No	Patent Title	Patent Application Date	Status of Patent Applications	Patent Published / Granted Calendar Year	Institute applied the Patent as
68	202011027431	SYSTEM AND METHOD FOR ON-DEMAND BLOOD DONATION USING A LIVE BLOOD BANK	28-06-2020	Published	2021	
69	202011027432	SYSTEM AND METHOD FOR AN ANTI-THEFT AUTOMOBILE SECURITY DEVICE	28-06-2020	Published	2021	
70	202011027433	SYSTEM AND METHOD TO DETECT DIABETES AND HYPERTENSION STATUS OF PERSON	28-06-2020	Published	2021	
71	202011027435	SYSTEM AND METHOD FOR REMOTE AND SECURE MONITORING OF HEALTHCARE INFORMATION OF PATIENTS SUFFERING FROM VIRUS	28-06-2020	Published	2021	
72	202011027393	TO FIND THE LOST ITEMS	28-06-2020	Published	2021	
73	202011027394	DEVELOPMENT OF GLASS FIBER EPOXY/ SAW DUST COMPOSITE AND EVALUATION OF THEIR MECHANICAL PROPERTIES	28-06-2020	Published	2021	
74	202011027395	SYSTEMS AND METHODS FOR DETECTION AND NOTIFICATION OF EARTHQUAKE	28-06-2020	Published	2021	
75	202011027396	SYSTEM AND METHOD FOR HAZARD DETECTION AND MANAGEMENT	28-06-2020	Published	2021	
76	202011027397	SYSTEM AND METHOD FOR AN IOT BASED HEALTH MONITORING DEVICE	28-06-2020	Published	2021	

Sr. No.	Patent Registration Application No	Patent Title	Patent Application Date	Status of Patent Applications	Patent Published / Granted Calendar Year	Institute applied the Patent as
77	202011027398	SYSTEM AND METHOD FOR REMOTE HEALTH MONITORING OF HERITAGE STRUCTURES USING REMOTE SENSORS	28-06-2020	Published	2021	
78	202011027399	SYSTEM AND METHOD FOR AGRI-KIOSK FOR FARM INPUTS AND OUTPUTS SYSTEM	28-06-2020	Published	2021	
79	202011027400	SYSTEM AND METHOD FOR RECTENNA BASED ENERGY HARVESTING DEVICE	28-06-2020	Published	2021	
80	202011027401	SYSTEM AND METHOD FOR SMART WASTE MANAGEMENT	28-06-2020	Published	2021	
81	202011021333	ASSISTED CLEAR VISION	21-05-2020	Published	2021	
82	202011001246	A SYSTEM AND METHOD FOR ELECTRIC GENERATION	10-01-2020	Published	2021	
83	201811045518	The Therapeutic system	03-12-2018	Published	2020	
84	202011053273	A CHARGED DEVICE FOR CLEANING DUST	07-12-2020	Published	2020	
85	202041033007	WEARABLE CHILD MONITORING DEVICE WITH INBUILT HEART RATE MEASUREMENT TO PROTECT FALLING INTO ABANDONED DEEP BORE WELL	31-07-2020	Published	2020	
86	202011038833	SMART ELECTRONIC INDUCTION STOVE	09-09-2020	Published	2020	
87	202041046926	DIGITAL GADGET TO MONITOR PETROL THEFT IN VEHICLES	28-10-2020	Published	2020	

Sr. No.	Patent Registration Application No	Patent Title	Patent Application Date	Status of Patent Applications	Patent Published / Granted Calendar Year	Institute applied the Patent as
88	202011050849	Self-Checkout method using an IOT based shopping cart	23-11-2020	Published	2020	
89	202021006286	IADA- IOT- BASED TECHNOLOGY: INTELLIGENT AUTOMOTIVE DEVICE, SYSTEM AND PROCESS USING IOT- BASED TECHNOLOGY	13-02-2020	Published	2020	
90	202011016364	DIGITAL IDENTITY TRACKING: DIGITAL IDENTITY TRACKING TO ANY MOBILE WITH HIGH SECURITY USING MACHINE LEARNING PROGRAMMING-	15-04-2020	Published	2020	
91	AU2020104034	IML-Cloud Data Performance: Improved using Machine Learning	12-12-2020	Published	2020	
92	AU2020102250	AN ARTIFICIAL INTELLIGENCE AND IOT BASED COVID-19 EARLY WARNING SYSTEM FOR SENIOR CITIZENS	15-09-2020	Published	2020	
93	AU2020102908	IOTM- Class Monitoring System: IoT and AI based Monitoring system for Faculty and their Course Materials Availability	21-10-2020	Published	2020	
94	201811045487	Smart card basmart card based automous relation distributionsed automous ration distribution	02-12-2018	Published	2019	
95	201911046972	COMPUTER IMPLEMENTED METHOD FOR URBAN TRAFFIC MANAGEMENT USING MACHINE LEARNING	18-11-2019	Published	2019	

7.4) IP Commercialized and Transferred to Industry/Startup

Sr. No.	Name of Technology Licenced/Transferred/Commercialized	Technology Type	Patent/Licence Holder name (Institute Co-ownership is Must)	Technology Transferred to	Name of Licensee	D T T
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No Data Found



Declaration

To,
The ARIIA Committee
MHRD's Innovation Cell
New Delhi

Joint Declaration by the Head of the Institute and Nodal Officer

Dear Sir,

Herewith, myself **Prof. Manas Kumar Mishra** (Head of Institute) and **Dr. Shradha Gupta** (Nodal Officer) jointly declaring on behalf of our institute is that all the information submitted are true and correct to best of our knowledge.

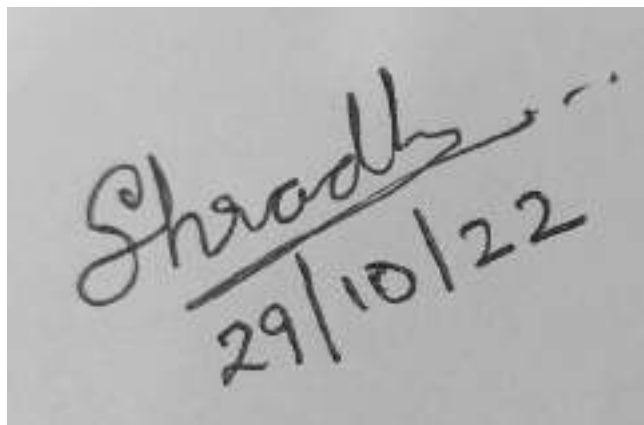
Thank you

The Head of Institute

A photograph of a handwritten signature in black ink on a light-colored surface. The signature is stylized and appears to be 'Manas Kumar Mishra'. Below the signature, the date '28.10.22' is written in a similar handwritten style.

Prof. Manas Kumar Mishra,
Head of the Institution,
G.L.BAJAJ INSTITUTE OF TECHNOLOGY AND
MANAGEMENT,
Greater Noida, Uttar Pradesh

Nodal officer

A photograph of a handwritten signature in black ink on a light-colored surface. The signature is stylized and appears to be 'Shradha Gupta'. Below the signature, the date '29/10/22' is written in a similar handwritten style.

Dr. Shradha Gupta,
Nodal Officer,
G.L.BAJAJ INSTITUTE OF TECHNOLOGY AND
MANAGEMENT,
Greater Noida, Uttar Pradesh