



RAJ KUMAR GOEL INSTITUTE OF TECHNOLOGY

5th KM Stone Delhi, Meerut Road, Near Raj Nagar Extension Road, Ghaziabad, UP-201003

Approved by AICTE, N. Delhi & Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Lucknow

NBA Accredited Program (B.Tech: ECE, IT, B.Pharma)

Patent Records of the Year 2022-23

S.No.	Name	Title	Application No.	Publication Date	Status
1	Dr. Ramendra Singh	Method for measuring pinched hysteresis loop characteristics of meminductor/Memcapacitor emulator using conventional	202311014424	17/03/2023	Published
2	Dr. Ramendra Singh	Method to resolve issues related to measurement of non-linear charge-controlled elements through lissajous patterns	202311018476	05-12-23	Published
3	Dr. Ramendra Singh	Method of measure transient V-I Characteristics of memristor on oscilloscope without using current probes	202311018475	05-12-23	Published
4	Mr. Mohit Gupta	Development of eco-friendly and sustainable concrete using imperial smelting furnace slag, construction & demolition waste, waste marble powder and metakaolin.	202311000421	13 Jan-2023	Published
5	Mr. Mohit Gupta	Manufacturing of Zero carbon emission bricks using wheat husk, sand and local soil.	202311000498	13 Jan-2023	Published
6	Mr. Mohit Gupta	Method of developing sustainable concrete incorporating coal bottom ash to mitigate carbon footprints.	202211071423	30 Dec-2022	Published
7	Mr. Mohit Gupta	Development of eco-friendly concrete using industrial waste such as fly ash, imperial smelting furnace slag, stone dust, Hooked Steel fiber.	202311000219	13 Jan-2023	Published
8	Mr. Mohit Gupta	Efficient disposal of construction debris of Twin Tower demolition through effective & Smart Supply Chain Process	202211065600	25 Nov-2022	Published
9	Mr. Mohit Gupta	Internet of things enabled temperature ambient milk pan to avoid spilling of milk.	202311001555	13 Jan-2023	Published
10	Mr. Mohit Gupta	Incorrect gym exercise detection using Machine learning algorithm to identify deviation.	202311002990	20 Jan-2023	Published
11	Mr. Mohit Gupta	IOT enabled pressure cooker to control the temperature using cell phone.	202211066066	25 Nov-2022	Published



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12	Mr. Mohit Gupta	Process of implementing iot to decarbonise road transport and mitigate global emission using electric vehicle	202311040804	21 July-2023	Published
13	Mr. Mohit Gupta	Development of carbonless production of composites in the laboratory	202311044359	21 July-2023	Published
14	Mr. Mohit Gupta	Intelligent process of anti-money laundering using artificial Intelligence tool	202311044172	21 July-2023	Published
15	Mr. Mohit Gupta	Automatic face mask detection device in hospitals through internet of things based technology	202311035592	30 June-2023	Published
16	Mr. Mohit Gupta	Development of sustainable environment by utilizing energy efficient materials	202311033495	23 June-2023	Published
17	Mr. Mohit Gupta	IOT based system in Cars to avoid collision on National highway.	202311021605	12 May-2023	Published
18	Mr. Mohit Gupta	Development of eco-friendly & sustainable concrete using Rice husk ash, GGBFS, Coal bottom ash and chitosan.	202311021604	12 May-2023	Published
19	Mr. Mohit Gupta	Impact of potassium hydroxide and silicate on the properties of geopolymer concrete prepared with steel slag and fiber enriched materials.	202311020667	12 May-2023	Published
20	Mr. Mohit Gupta	A portable dongle for cyber security and protection (International Grant)	6294036	10 July-2023	Granted
21	Dr. Neena Sharma, Dr. Shweta Sharma, Dr. Ritu Sharma	A Smart IoT Base Natural Language Processing System with Prompt of English Ssentences to Help Laymen'S Interaction with Virtual Assistants Embedded with Sensors Along with Pronunciation	202241051821 A	16-Sep-22	Published
22	Dr. Amit Sharma	Face Recognition Based Attendance Management System	202211054426	30-Sep-22	Published
23	Dr. Amit Sharma	Synthesis and characterization of vanadium complexes with quadridentate Schiff bases	202211037064	08-Jul-22	Published
24	Ms. Anshu Tripathi	Portable device for UV-C Disinfection	382690-001	26 May-203	Granted
25	Ms. Anushka Jain	Preparation and characterization of Nutriose-Eudragit coated pellets colon therapeutic system of NSAID.	202311032872 A	09-Jun-23	Published
26	Mr. Birendra Kr. Saraswat	Design System Of Multifunctional Glasses For Visually Impaired	202241064610	18 Nov-2022	



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27	Mr. Birendra Kr. Saraswat	Method And System To Manage A Bandwidth In A Wireless Network	202311008432	17 Feb-2023	
28	Mr. Birendra Kr. Saraswat	Blockchain Technology Based System For Monitoring Medicals Problem	202311039449	7 July-2023	Published
29	Dr. Pawan Kr. Goel	A Security System and Method For Improving Malware Detection	202311037169	30 June-2023	
30	Mr. Ramveer Singh	System and approach based on IoT, ML, and AI to manage healthcare data effectively	202311001988	24 Feb-2023	Published
31	Mr. Sanjay Srivastava	Designing a Feamework of IOT Integrated with PV Solar Cells to Increase the Renewable Energy Extraction by Capturing the Solar Rays	202241046904 A	2 Sep-2022	
32	Dr. Amit Singhal	IOT-Driven Intelligent Monitoring System For Autismchildren'S Emotion Recognition From Smart Class Video	202241056451	14 Oct-2022	
33	Mr. Neeraj Kumar	Software and Hardware Troubleshooting System For Computing Units	202311007775	10 Feb-2023	Published
34	Mr. Virat Raj Saxena	System and Method to Book an appointment with a Healthcare Provider	202311005712 A	03 Feb-2023	
35	Dr. Vinish Kumar	Haircut Pattern Detection Using Machine Learning Algorithm to Indentify Deviation	202211066576 A	2 Dec-2022	
36	Dr. Vinish Kumar	IOT Enabled Pressure Cooker to Contro the Temperature Using Cell Phone	202211066066 A	25 Nov -2022	Published
37	Mr. Vikas Gupta	IOT Enabled Pressure Cooker to Control the Temperature using Cell Phone	202211066066 A	25 Nov -2022	
38	Ms. Arathy Rajeev	A portable Solar based warmer cum sterilize device for rarming/sterilized solid or liquid food	202311012575A	17 March-2023	
39	Dr. Neha Goel	Health Monitoring system for Infant	202311003324	20 Jan-2023	Published
40	Dr. Anubhav Kumar	A Real time Epileptic Seizure Detection and Monitoring System	202211056071	21 Oct-2022	
41	Dr. D.K. Chauhan	Method to Measure Transient V-I Characteristics of Memristor on Oscilloscope Without Using Current Probes	202311018475	12 May-2023	



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42	Dr. D.K. Chauhan	Method to Resolve Issues Related to Measurement of Non-Linear Charge-Controlled Elements Through Lissajous Patterns	202311018476	12 May-2023	Published
43	Ms. Gunjan Agarwal	A System and Method for Improving the Accuracy of Hindi Email Spam Classification Based on Supervised Machine Learning published on 06/01/2023	202211075318	06 Jan-2023	
44	Dr. Shivani Tyagi	An Artificial Intelligence System in Finance and Financial Markets	202311028127	19/05/2023	
45	Dr. Vibhuti Tyagi	An Automated Parking Solution Based on the Internet of Things and a Matter Thereof	202211064071	25 Nov-2022	Published
46	Dr. Ashok Kr. Yadav	Method and Equipment for Drone Based Methane Detection and Absorption from Water Bodies, (Granted)	2022/06685	26 Oct.- 2022	
47	Dr. Ashok Kr. Yadav	A Multipurpose Device Integrated with Power Bank, Emergency Light and Musi System (Published)	202331018794	15 April-2023	



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Patent Records of the Year 2021-22

S. No	Name of Faculty	Deptt.	Patent Title	Applicant Name	Application No.	Publication Date	Published/Granted
1	Dr. Pushpendra Singh	IT	System and method for detecting defects in an article(Indian)	RKGIT	202111052166	29-11-21	Published
2	Dr. D.K. Chauhan	EEE	METHOD FOR PERFORMING BIG DATA ANALYTICS (Indian)	RKGIT	202211013811	25-03-22	Published
3	Dr. Pushpendra Singh	IT	Walking stick for blined person with multiple sensors (Australian)	Dr. Pushpendra Singh	2021104044	2022	Granted
4	Dr. Amit Singhal	CSE	IOT based low cost effective public transport cloud monitoring system	Dr. Amit Singhal	202211030059 A	03-06-22	Published
5	Dr. Amit Singhal	CSE	Vehicle speeding detection: automatic vehicle speed detection, notification and location tracking	Dr. Amit Singhal	202011056490 A	15-01-21	Published
6	Ms. Vernika Singh	CSE	Intelligent System for Automatic Medicine Alert Generating using internet of things	Ms. Vernika Singh	202141042142	04-02-22	Published
7	Mr. Ramveer Singh/Mr. Ram Kumar Sharma	CSE	An Artificial intelligence and Machine Learning based automated system for health care	Mr. Ramveer Singh	202111051850	26-11-21	Published
8	Ms. Nidhi Gupta	CSE	Colling Fan for CPU	Ms. Nidhi Gupta	Design No-353449-001		Published
9	Ms. Pooja Vajpayee	CSE	IOT System based on blockchain technology produces a superior level of safety in communication	Ms. Pooja Vajpayee	202131054332 A	10-12-21	Published



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10	Mr. Vineet Shrivastava	CSE	Machine Learning and artificial intelligence based intelligent controlling and monitoring system for an automatic air conditioner	Mr. Vineet Shrivastava	Patent No. 2021103400	16-03-22	Granted
11	Mr. Vineet Shrivastava	CSE	An IOT enabled edge computing power management system for a power grid and method thereof	Mr. Vineet Shrivastava	202111041402 A	01-10-21	Published
12	Dr. Umakant Choudhary	EEE	A smart IoT-based geyser that supports for lesser electricity consumption	Dr. Umakant Choudhary	202141061799	07-01-22	Published
13	Dr. Poonam C Kumar/ Dr. Reeta Chauhan/ Dr. Pratima Sharma/ Dr. Amit Sharma	ASH	A system for producing hydrogen by utilizing sunligh and method	Dr. Poonam C Kumar	202111043006 A	15-10-21	Published
14	Dr. Ruchi Nagar	ASH	System for Monitoring and Enhancing Well Being of a person on Smart Bed	Dr. Ruchi Nagar	202111038601 A	03-09-21	Published
15	Dr. Ruchi Nagar/ Dr. Sudhir Kumar Sharma/ Dr. Gurmeet Kaur/ Dr. Prag Singhal/ Dr. Shalini Gupta	ASH	System for Highway Road Brakage Detection	Dr. Ruchi Nagar	202211013525 A	25-03-22	Published
16	Ms. Vinita Sharma	ASH	A System for detecting farud and its control in financial management and method thereof	Ms. Vinita Sharma	202111043008	15-10-21	Published
17	Dr. Amit Sharma	ASH	Smart Dining and food waste management system using advanced IOT	Dr. Amit Sharma	202111042626 A	01-10-21	Published



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18	Dr. Amit Sharma	ASH	Synthesis and characterization of vanadium complexes with quadridentate schiff bases	Dr. Amit Sharma	202211037064	08-07-22	Published
19	Dr. Mamta Goyal	ASH	A Composition and Method for preparing sanitary and cleaning agent	Dr. Mamta Goyal	202111042808	15-10-21	Published
20	Dr. Prag Singhal/ Dr. Shalini Gupta	ASH	Smart Marking system and method for tracing of duplicate medicines using IOT	Dr. Prag Singhal	202211001097	14-01-22	Published
21	Mr. Saurabh Singh	ME	A Patient Health Monitoring System Using Artificial Intelligence, Machine Learning and IoT Network and Method Thereof	Mr. Saurabh Singh	202111041403	01-10-21	Published
22	Mr. Pankaj Kumar Sharma	ME	The Impact of Indian Tourism Development on the Country's Economic Growth	Mr. Pankaj Kumar Sharma	202121045307	29-10-21	Published
23	Dr. Himani Mittal	ECE	SELFIE MASK SMART ATM VENDING MACHINE	Dr. Himani Mittal	Grant Number:381098	05-11-21	Granted
24	Dr. Himani Mittal	ECE	SMART NUTRIENT TRACKING CASSEROLE	Dr. Himani Mittal	Grant Number:396732	20-05-22	Granted
25	Dr. Himani Mittal	ECE	DESIGN OF SMART WIRELESS CHARGING SYSTEM FOR ELECTRIC VEHICLES USING WPT TECHNOLOGY	Dr. Himani Mittal	202121007129	26-02-21	Granted
26	Dr. Himani Mittal	ECE	Security Surveillance for commercial and domestic solar CCTV with inbuilt WIFI technology	Dr. Himani Mittal	Design Patent: 345117-001	22-06-21	Granted



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S.No	Name of Faculty	Deptt.	Patent Title	Application No.	Publication Date	Published/Granted
1	Dr. Prag Singhal/ Dr. Shalini Gupta	AS&H	System for providing real time data associated with pet animal	202111019590	21-05-21	Published
2	Mr. Prince Gupta	CSE	Internet of Things based smart mattresses for Somnambulism (SleepWalking)	202041032387	21-08-20	Published
3	Mr. Akash Goel	CSE	IoT Integrated fire monitoring and alarming system	202011056835	12-02-21	Published
4	Mr. Gaurav Agarwal/ Dr. Sachi Gupta	CSE	Smart Dining Table: Speech Emotion Based Feedback System.	202111005627 A	12-02-21	Published
5	Mr. Vineet Shrivastava	CSE	A process for improve the trustworthiness of mobile crowd sensing data collection	2020104113	15-12-2020 (Filing Date)	Granted
6	Ms Chhaya Sharma	CSE	wearable child monitoring Device with Inbuilt heart rate measurement to protect falling into deep bore well.	202041033007	21-08-20	Published
7	Ms. Shikha Agarwal/ Dr Lalit Kumar Saraswat	IT/CSE	IOT Based Wearable stress level detector	202111013187	02-04-21	Published
8	Dr. Amit Singhal	CSE	Vehicle Speeding Detection: Automatic vehicle Speed Detection	202011056490	15-01-21	Published
9	Mr. Deepak/ Ms. Sarita Singh	ECE/CSE	Method and System for automatically controlling the water flow in Farming Lands using an Internet of Things (IOT)	202111020967 A	14-05-21	Published
10	Mr. Sachin Kumar Tyagi/ Ms. Anjali Yadav	IT/CSE	IOT Based real time infant based monitoring and altering system	202111000134	08-01-21	Published
11	Dr. Pavan Kumar Shukla/ Dr. R K Yadav	ECE	Wideband circular patch slotted microstrip antenna for 5G mobile applications	202111025066	02-07-21	Published



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12	Dr. Neha Goel	ECE	Digital signal processing technique in wireless sensor and acutaor networks for long range environmental monitoring	AU2020101595A4	10-09-20	Published
13	Dr. Puneet Chandra Srivastava	ECE	Circular Cut Multi band microstrip antenna with defected ground for wireless application	202011055654A	29-01-21	Published
14	Dr. Ashok Kumar Yadav	ME	Robot Assisted Battery Interchanging system for Electric Vehicles	202111013882	02-04-21	Published
15	Mr. Kirat Singh	ME	A Hydraulically Powered Robot	202111029774A	23-07-21	Published
16	Ms. Aarti Kalra	ME	A Method For Preparation of Cotton Grass fiber Epoxy Composite and A Product Thereof	201811020104	03-01-20	Published
17	Ms. Ritu Agarwal	IT	Notification: IOT Based health notification and real time doctor availability checking in hospital using machine learning	202041041351	09-10-20	Published
18	Dr. Pushpendra Singh	IT	Deep Learning Model Based fraudulent incoming Call Detection system	202111009215	12-03-21	Published
19	Mr. Abhinav Kumar Agarwal/ Mr. Pankaj Kumar Sharma	Pharmacy	Halloysite Nanotube as a Modified Drug Release Carrier for 6-Mercaptopurine	2021104207	15-07-2021 (Filing Date)	Granted
20	Dr. Manish Kumar Mishra	Pharmacy	System for monitoring and enhancing well being of a person on smart bed	202111038601 A	03-09-21	Published
21	Mr. Abhinav Bansal	ECE	An IoT-Based Public Ration Delivery Computing System and Method Thereof	202111041427 A	01-10-21	Published
22	Dr. D.R. Somashekar	ME	An Automated Plantation Health Monitoring System and a Method Thereof	2021103499	02-10-20	Granted