

## Patents by ECE Department

S. No	Patent Application No (PAN)	Patent Title	Author	Date of filing application	Status
1	PAN 202111052498	ORANGE FLAVORED SYNBIOTIC CORN CHOCOLATE: COMPOSITION AND A METHOD OF PREPARATION THEREOF	Dr. Smriti Gaur and Shubhi Singh	16.11.2021	Published (28.01.2022)
2	PAN 202111051272	EMOIT: AN INTELLIGENT TOY WITH EMOTIONS	Dr. Shikha Jain, Dr. Madhu Jain, Prakhar Gupta and Vidit Singh	09.11.2021	Published (28.01.2022)
3	PAN 202111041609	FITNESS SHOE	Dr. Madhu Jain, Tanishq Manuja and Karan Pechori	15.09.2021	Published
4	PAN 202111045931	SMART BALCONY SYSTEM	Dr. Shikha Mehta, Abhinav Singhal, Harshit Arora, Pranjal Tyagi and Siddharth Sharma	08.10.2021	Published
5	PAN 202111036071	A WEARABLE SMART HEALTH MONITORING DEVICE.	Varnit Goswami and Dr. Gaurav Verma	10.08.2021	Published
6	PAN 202111032404	DEVELOPMENT OF SYNBIOTIC CORN CINNAMON CHOCOLATE AND ITS FUNCTIONAL ANALYSIS.	Dr. Smriti Gaur and Shubhi Singh	19.07.2021	Published
7	PAN 202111032091	A CAVITY BASED MULTI RESONANT PIEZOELECTRIC ENERGY HARVESTER WITH ONE STRAIGHT AND TWO L-SHAPED BRANCHES	Shradha Saxena, Prof. R. K. Dwivedi and Dr. Vijay Khare	16.07.2021	Published
8	PAN 202111027482	A METHOD TO SET A THRESHOLD VALUE FOR A FLEX SENSOR	Vikas Saxena, Himani Bansal, Anita Sahoo, Swapnil Kusumwal, Siddhant Ranjan Singh and Yashvardhan Verma	19.06.2021	Published
9	PAN 202111024375	FAST AND ACCURATE POWER ESTIMATION TOOL (FAPET) FOR FPGA BASED FIR SYSTEM	Neerja Singh, Dr. Gaurav Verma and Dr. Vijay Khare	01.06.2021	Published

10	PAN 202111012211	A SYSTEM TO CLASSIFY THE UNDERWATER MAMMALS ON THE BASIS OF AGE AND GENDER USING ACOUSTIC CLICK DATA	Dr. Kapil Dev Tyagi	22.03.2021	Published
11	PAN 202111005099	Rice Palanting Robot	Dr. Vimal Kumar Mishra, Mr. Vaiabhav Mishra, Mr. Abhinav Chaudhary and Shivangi	05.02.2021	Published (14.01.2022), FER issued
12	PAN 202111005772	POLYNUCLEOTIDE NOVEL MOLECULE IN CARDIOVASCULAR THERAPEUTICS	Prof. Vibha Rani and Priyanka Mathur	10.02.2021	Published (25.02.2022)
13	PAN 202111005100	ERROR DETECTING PEN	Prateek Bansal and Dr. Shruti Kalra	05.02.2021	Published (14.01.2022), FER Issued
14	PAN 202111001763	SYNERGISTIC COMBINATION OF TEMOZOLOMIDE AND D-LIMONENE FOR GLIOBLASTOMA MULTIFORME TREATMENT	Reema Gabrani and Megha Gautam	14.01.2021	Published
15	PAN 202111005634	RECOMBINANT BIOCATALYST WITH ENZYMATIC ACTIVITY	Dr. Samiya Khan, Dr. Nidhi Gupta and Prof. Pammi Gauba	10.02.2021	Published
16	PAN 202111005269	MITOCHONDRIA TARGETING ABILITY OF NATURAL COMPOUND IN BREAST CANCER AND ITS SYNERGISTIC EFFECT WITH EXISTING THERAPY	Geeta Swargiary Shalini Mani	08.02.2021	Published (11-03-2022)
17	PAN 202011045236	A Smart IoT Device Providing Short Message Service for Deaf Blind People	Dr. Payal Khurana Batra, Saurabh Singh, Saurav Thakur and Nayan Raj	17.10.2020	Filed
18	PAN 202011040618	Cavitation Noise Rejection Using Air As Discontinuity In Underwater Measurements	Dr. Kapil Dev Tyagi	19.09.2020	Published (25-03-2022)

19	PAN 202011043853	Fully Active Dead-Zone Circuit with High Precision and Suitable for IC Design	Dr. Atul Kumar, Dr. Bhartendu Chaturvedi and Dr. Jitendra Mohan	08.10.2020	Filed
20	PAN 202011032629	Recombinant Rhodococcus Sp. With Dioxygenase Gene Cassette	Prof. Pammi Gauba	30.07.2020	Filed
21	PAN 202011018309	Direction Of Arrival Estimation Of An Underwater Acoustic Source Using Two Sensors And Human Senses	Dr. Kapil Dev Tyagi	29.04.2020	Published (05.11.2021), FER issued
22	PAN 202011027737	Developers Load Sensitive And Expertise Based Software Bugs Triaging	AsmitaYadav and Dr. Sandeep KumarSingh	30.06.2020	Published (07.1.2022), FER issued
23	PAN 202011020344	Poly Ribonucleotide Sequence [(Tag) <sub>7</sub> C <sub>2</sub> ] As Type Iv Collagenase Natural Inhibitor	Prof. Vibha Rani	14.05.2020	Published (19.11.2021)
24	PAN 202011019986	Synergistic Effect of Herbal Plant Extract Against Urolithiasis	Priyadarshini	12.05.2020	Published (19.11.2021)
25	PAN 202011001014	Co-delivery of Baclofen & Lamotrigine via PLGA nanoparticles	Dr. Shweta Dang, Kuldeep Nigam and Amit Tyagi	09.01.2020	Published (17.01.2021), FER Submitted, Hearing (25.02.2022)
26	PAN 202011046432	SMART TRASH SEGREGATION WITH COORDINATION FOR WASTE DISPOSAL USING SOLAR ENERGY	Dr. Kavita Pandey Dr. Hema N	24.10.2020	Provisionally filling
27	PAN 202011031904	Safe and Intelligent Scissor	Dr. Madhu Jain and Dr. Shikha Jain	25.07.2020	Published and FER Issued

28	PAN 201911047520	Hand Gesture Explication and Lingual Extraction Nascent (HELEN).	Dr. Himani Bansal, Priya Bajpai and Rishabh Singh	21.11.2019	Published (03.09.2021)
29	PAN 201911049977	Artificial Intelligent and IoT based Aquaponics System for Self- Sustainable farming	Dr. Anuja Arora and Anurag Singh Chaudhary	04.12.2019	Published (03.01.2020)
30	PAN 201911048307	Direction of arrival estimation using single sensor and reflector for acoustic pulse source.	Dr. Kapil Dev Tyagi	26.11.2019	Published (17.01.2021), FER Submitted
31	PAN 201911051941	Biocatalyst Dioxygenase Activity	Dr. Samiya Khan, Dr. Nidhi Gupta and Prof. Pammi Gauba	14.12.2019	Published (17.01.2020)
32	PAN 201911047575	Synergistic effect of temozolomide and phytocompound in human glioblastomas multiforme cell lines.	Reema Gabrani and Megha Gautam	21.11.2019	Filed
33	PAN 201911047275	Capsaicin and Curcumin loaded nanoemulsion based gel for neuropathic pain management.	Dr. Shweta Dang and Kuldeep Nigam	20.11.2019	Published (06.12.2019), FER Submitted
34	PAN 201911047519	Substrate Integrated Waveguide Yagi Array Antenna on Silicon Substrate.	Arnab Chakraborty and Prof. Shweta Srivastava	21.11.2019	Published, FER Issued
35	PAN 2782/DEL/2010	Thermally Stable Enzymes With Improved Biocatalytic Activity And A Process To Prepare The Same By Making Their Nanoparticles	Prof. Sudha Srivastava and Shikha Sharma	16.12.2011	Granted Patent Patent No. 309474
36	PAN 201811000907	A System and Method for Real time Biometric Surveillance	Ms. Monika Singh and Akshay Kumar	12.07.2019	Published

37	35/2019	Machine Learning method for optimization of power management in Renewable and Non-renewable energy resources	Chetan Jagannath Shelke, Dharmveer Singh Rajput, Korde Sachin Kacharu, Ajay B. Gadicha, Mani Mohan Trinath, Murali Anumothi, Udit Mamodiya, M. Kumudwathi, Pasuluru Bindu, S. K. Dhakad	30.08.2019	Published
38	PAN 201911020067 A	Gizmo Fitmate- The Personal Fitness Assistant	Vijay Khare, Kanishk Mahor, Pankaj Garg, Manish Kumar	21.05.2019	Published
39	PAN 201911015222	TV Distance Manager	Shamim Akhtar, Saurabh Chaturvedi et.al.	17.05.2019	Published
40	PAN201811012008	An improved electrode for electrochemical device	Sudha Srivastava and Rahul Saxena	04.10.2019	Published
41	PAN 201811019445	System and method for enhancing security of structure	Ms. Shraddha Porwal and Ms. Sangeeta Mittal	24.05.2018	Published