

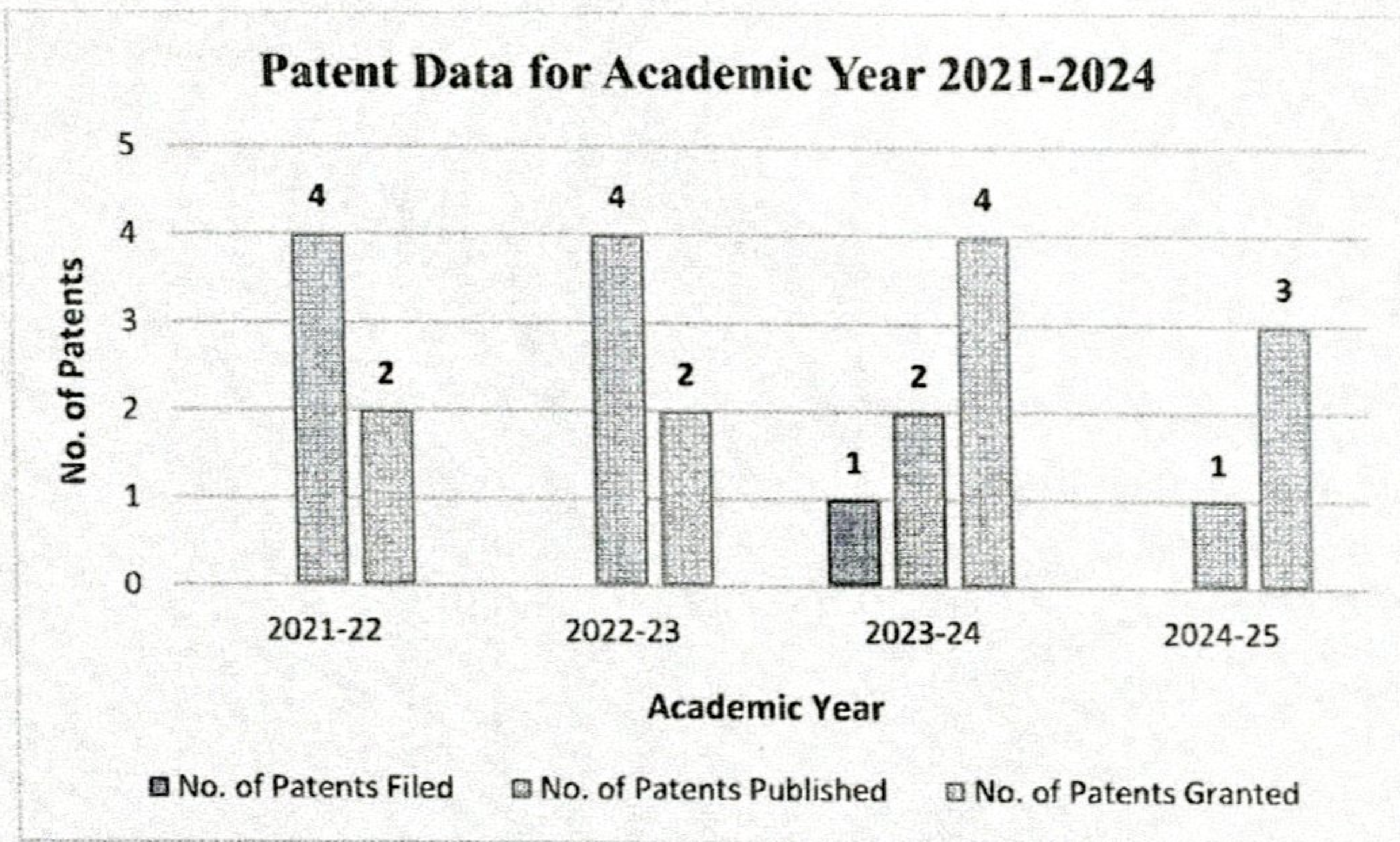
TULSIRAMJI GAIKWAD-PATIL COLLEGE OF ENGINEERING AND TECHNOLOGY
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Research and Development Cell

Patent Published/Granted during Academic Year 2021-2024

Academic Year	No. of Patents Filed	No. of Patents Published	No. of Patents Granted
2021-22	0	4	2
2022-23	0	4	2
2023-24	1	2	4
2024-25	0	1	3





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Patent Data Academic Year 2021-2024

Sr. No.	Name of Inventors Involved	Department	Affiliation College Name	Title of the Patent	Patent Application Number	Date of Published/Granted	Status	Type
1	Dr. Niteen Kakade	ME	TGPCET	A COMBINE MACHINE FOR SEPARATING AND THRESHING SPLIT PULSES	202121032096	13-08-2021	Published	Utility Patent
2	Dr. Pratik Ghutke	EE	TGPCET	A SOLAR POWER ENABLED AUTOMATED IRRIGATION SYSTEM AND METHOD	2021107049	24-11-2021	Granted	Australian Patent
3	Dr. Niteen Kakade	ME	TGPCET	MECHANISM FOR LOADING AND UNLOADING OF LPG CYLINDER FROM VEHICLE	202121054189	14-01-2022	Published	Utility Patent
4	Dr. Niteen Kakade, Ritesh Banpurkar	ME	TGPCET	PEDAL OPERATED MECHANISM FOR SUGARCANE JUICE EXTRACTOR MACHINE	202121054202	18-02-2022	Published	Utility Patent
5	Dr. Narendra Chaudhari, Dr. Prashant Kadu, Dr. Mukul Pande, Dr. Nandkishor Sawai, Diksha Nimgade, Suraj Kachate	ME	TGPCET	COUNTING MECHANISM FOR SEED FISH FRY AND BABY FISH FINGERLINGS	202121054194	18-02-2022	Published	Utility Patent
6	Dr. Niteen Kakade, Dipali Bhojar	ME	TGPCET	ELECTRONIC CIRCUIT COOLING FAN	360239-001	13-05-2022	Granted	Design Patent
7	Dr. Amey Khedikar	CE	TGPCET	A SYSTEM FOR PROVIDING CRITICAL STUDIES ON EARTHQUAKE STRONG GROUND MOTION CHARACTERISTICS AND DEVELOPMENT OF SOME PARAMETERS RELEVANT IN UNDERSTANDING THE EFFECTS OF AN EARTHQUAKE	202221036522	15-07-2022	Published	Utility Patent
8	Dipali Bhojar, Gaurav Nagdeve	ME	TGPCET	SOIL SHEAR TESTING BLOCK	369572-001	26-12-2022	Granted	Design Patent
9	Prof. Ganesh Wakte	EE	TGPCET	A SYSTEM AND METHOD OF NODAL BASED OPTIMAL ELECTRICITY TRANSMISSION PRICING IN A DEREGULATED POWER SYSTEM	202221073631	06-01-2023	Published	Utility Patent
10	Dr. Pragati Patil, Dr. Sandeep Gaikwad	IT	TGPCET	POWER OPTIMIZATION OF WIRELESS SENSOR NETWORK USING DATA MINING TECHNIQUES	202221070755	13-01-2023	Published	Utility Patent
11	Dr. Niteen Kakade, Dipali Bhojar, Gaurav Nagdeve	ME	TGPCET	FIXTURE FOR CUTTING OPERATION	375161-001	25-01-2023	Granted	Design Patent
12	Ashwini Sabal	CSE	TGPCET	DEVICE TO ANALYSE THE SOFTWARE CODE	202321010217	17-03-2023	Published	Utility Patent
13	Dr. Bharti Sayankar	ECE	TGPCET	AI SMOKE BOMB DRONE	393067-001	19-08-2023	Filed	Design Patent

14	Dr. Amey Khedikar	CE	TGPCET	AIR QUALITY DETECTING SMART WINDOW PARTITION	387592-001	24-08-2023	Granted	Design Patent
15	Dr. Anup Gade	IT	TGPCET	IOT BASED AUTOMATIC ROBOTIC WASTE BIN	393248-001	06-11-2023	Granted	Design Patent
16	Dr. Niteen Kakade, Sandip Barakamkar	ME	TGPCET	MULTIPURPOSE CHULHA FOR COOKING FOOD AND WARMING WATER	202321087353	19-01-2024	Published	Utility Patent
17	Pooja Yawale	EE	TGPCET	CLOUD DRIVEN DEVICE FOR RETAIL CHAIN MANAGEMENT	6353971	19-03-2024	Granted	UK Patent
18	Dr. Amey Khedikar	CE	TGPCET	PROCESS FOR DETECTION OF WIPES IN PRESENCE OF MOTION AND ILLUMINATION	201621034595	29-04-2024	Granted	Utility Patent
19	Dr. Sanjay Asutkar, Dr. Pravin Tajane, Prof. Rohini Pochhi, Prof. Rahul Dhuture, Prof. Sandeep Thakre	ECE	TGPCET	FRUIT IMAGE RECOGNITION AND CALORIE MEASUREMENT USING CONVOLUTIONAL NEURAL NETWORK (CNN)	202421032269	24-05-2024	Published	Utility Patent
20	Dr. Sanjay Asutkar	ECE	TGPCET	MACHINE LEARNING APPROACHES FOR RAINFALL PREDICTION AND CROP HEALTH MANAGEMENT IN INTELLIGENT AGRICULTURE	202421044478	12-07-2024	Published	Utility Patent
21	Dr. Pravin Nanaji Tajane, Dr. Bharati Bhaurao Sayankar	ECE	TGPCET	LASER LEVEL MEASURING INSTRUMENT	418301-001	16-07-2024	Granted	Design Patent
22	Dr. Sanjay Asutkar	ECE	TGPCET	IOT BASED WIRELESS SENSOR DEVICE FOR ENVIRONMENTAL MONITORING	423032-001	25-09-2024	Granted	Design Patent
23	Dr. Snehal Abhyankar, Dr. Amey Khedikar, Dr. Sandeep Gaikwad, Prof. Sanjay Bhadke, Prof. Divyani Harpal, Prof. Mohit Singh Katoch, Prof. Komal Meshram, Prof. Rishabh Mahure, Prof. Mrunali Makode, Prof. Hiteshkumar Mishra	CE	TGPCET	IOT BASED ULTRASONIC CONCRETE MIXING MACHINE	428848-001	08-10-2024	Granted	Design Patent


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