

**D. Y.Patil College of Engineering, Akurdi, Pune-44.****IPR Details****Department of Computer Engineering**

| Sr.No             | Name Of Inventor  | Type of IPR/<br>Patent/<br>Copyright/Tra<br>demark) | Title Of The Invention  | Filed | Published/<br>Unpublished | Application No.  | Date Of Filing<br>Of Application | Date of<br>Publication | Jurisdiction                     | Student/Faculty   | Year | Year Of Grant  |
|-------------------|---|---|---|-------|---------------------------|------------------|----------------------------------|------------------------|----------------------------------|-------------------|------|----------------|
| 1                 | Mrs. Swati Milind Panse, Mr. Hanuman D. Bobade, Mr. Ganesh J. Jagtap  | Patent  | Electric Crusher For Shrikhand And Puran Mixer With Battery Back Up   | Filed | Published                 | 1491/MUM/2010    | 12-05-2010                       | 06/08/2010             | Indian (325421) dated 21/11/2019 | Staff             | 2010 | Granted (2019) |
| 2                 | Ms. Vishakha A. Metre   | Patent  | Iavp-Intelligent Business Data: Intelligent Business Data Visualization Using Ai- Based Programming                                 | Filed | Published                 | 2020102280       | 15-09-2020                       | 29-10-2020             | Australia (29-10-2020)           | Faculty           | 2020 | Granted (2020) |
| 3                 | Ms. Vishakha A. Metre   | Patent  | ISUAV-Woman Security: Intelligent Woman Security Using Streetlight and Auto Run Unmanned Aerial Vehicle Using IOT- Based Technology | Filed | Published                 | 2020102989       | 23-10-2020                       | 24-12-2020             | Australia (24-12-2020)           | Faculty           | 2020 | Granted (2020) |
| 4                 | Sankalp Kulkarni, Dhanesh walte,  | Patent  | The Intelligent Classroom   | Filed | Published                 | 202021007883     | 25/02/2020                       | 06/03/2020             | Indian                           | Student & Faculty | 2020 | --             |
| 5                 | Anushka Deshpande Prateek Thakare   | Patent  | Smart Valve System for Water Management   | Filed | Published                 | 201921040166     | 04-10-2019                       | 09/04/2021             | Indian                           | Students          | 2019 | --             |
| 6                 | Ishika Prasad Yash Sharma   | Patent  | The FinPrint  | Filed | Published                 | 201921037533     | 18-09-2019                       | 19/03/2021             | Indian                           | Student & Faculty | 2019 | --             |
| 7                 | Ms. Dipalee A. Chaudhari, Dr. E   | Patent  | Secure health care system   | Filed | Published                 | 201821015566     | 25/04/2018                       | 25/05/2018             | Indian                           | Faculty           | 2018 | --             |
| 8                 | Dr. Kailash Shaw, Mr. Bhatambre Niket Wamanrao, Dr. P.Malathi, Dr. Sashikala Mishra,                            | Patent  | Fair Seat Allocation System and Passenger Security System in Public Transport   | Filed | Published                 | 201721031984     | 11-09-2017                       | 22/09/2017             | Indian                           | Faculty           | 2017 | --             |
| 9                 | Dr. Kailash Shaw, Mr. Rahul Pawar,  | Patent  | Mapping Larger Panoramic Image Through Multiple Drone   | Filed | Published                 | 201721043750     | 09-12-2017                       | 22/12/2017             | Indian                           | Faculty           | 2017 | --             |
| <b>COPYRIGHTS</b> |   |   |   |       |                           |                  |                                  |                        |                                  |                   |      |                |
| 1                 | Ms. Deepali B. Gothwal  | Copy Rights   | Contextual Multi-Factor Trust Measurement   | Filed | Registered                | 12269/2018-CO/L  | 08/10/2018                       | --                     | Indian                           | Faculty           | 2018 | --             |
| 2                 | 1. Dr. Vijay M. Wadhai, 2. Dr. Mrs. P. Malathi, 3. Mr .Pramod B. Deshmukh, 4. Mr. RohitJadhav, 5. Mr. Arunkumar | Copy Rights   | Students Feedback on Teaching - Learning through Gnomio Moodle (Computer Software work)   | Filed | Unpublished               | 13596/2019-CO/SW | 27/08/2019                       | --                     | Indian                           | Faculty           | 2019 | --             |
| 3                 | 1. Dr. Vijay M. Wadhai, 2. Dr. Mrs. P. Malathi, 3. Mrs. ArtiUtikar, 4. Mr. Pramod B.                            | Copy Rights   | Creating Open Source Cloud based Gnomio Moodle of your own subject for OBE  | Filed | Unpublished               | 13589/2019-CO/SW | 27/08/2019                       | --                     | Indian                           | Faculty           | 2019 | --             |
| 4                 | 1. Dr. Vijay M. Wadhai, 2. Dr. Mrs. P. Malathi, 3. Dr. Vinay A.   | Copy Rights   | COs Bloom's Taxonomy Action Verbs Analysis  | Filed | Published                 | 13424/2019-CO/L  | 23/08/2019                       | --                     | Indian                           | Faculty           | 2019 | --             |
| 5                 | Aditya Kulkarni   | Copy Rights   | Water Usage Calculator  | Filed | Published                 | 14843/2019-CO/L  | 21/09/2019                       | --                     | Indian                           | Student           | 2019 | --             |
| 6                 | Dr. V.G. Kottawar ,Mrs. Nilam Patil,Mrs. Shanthiguru,Ms. Anuska Deshpande                                       | Copy Rights   | An Engineering Education Support System based on Learning pattern of Students Progression   | Filed | Unpublished               | 20604/2019-CO/L  | 23/12/2019                       | --                     | Indian                           | Faculty & Student | 2019 | --             |
| 7                 | Dr. V.G. Kottawar, Mr. Piyush Vyas,Ms. Pooja Thorat,Pratiksha   | Copy Rights   | Secure Document Storage using   | Filed | Unpublished               | 2126/2020-CO/SW  | 02/04/2020                       | --                     | Indian                           | Faculty & Student | 2020 | --             |
| 8                 | Pallavi Vivek Ghaste Soniya Bastawade, Mrunalini,   | Copy Rights   | Human Detection and Rescue System by Robot  | Filed | Unpublished               | 20152/2019-CO/L  | 16/12/2019                       | --                     | Indian                           | Faculty & Student | 2019 | --             |

**D. Y.Patil College of Engineering, Akurdi, Pune-44.****IPR Details****Department of Information Technology**

| <b>Sr.No</b> | <b>Name Of Inventor</b>   | <b>Type of IPR (Patent/ Copyright/Trademark)</b> | <b>Title Of The Invention</b>  | <b>Filed</b> | <b>Published/ Unpublished</b> | <b>Application No.</b> | <b>Date Of Filing Of Application</b> | <b>Date of Publication</b> | <b>Jurisdiction</b> | <b>Student/Faculty</b> | <b>Year</b> |
|--------------|---|--|--|--------------|-------------------------------|------------------------|--------------------------------------|----------------------------|---------------------|------------------------|-------------|
| 1            | Dr. Priti Surykant Patil Prof. Shivani Shivraj Kale Dr. Suryakant Babanrao Patil Mr. Shivraj Laxmanrao Kale   | Patent   | System of providing information decision of the farmer for sustainable agriculture   | Filed        | Published                     | 201721015231           | 28/04/2017                           | 13/10/2017                 | Indian              | Faculty                | 2017        |
| 2            | Mr. Om Suryakant Patil Prof. Nilesh Ashok Suryawanshi Dr. Suryakant Babanrao Patil Dr. Preeti Suryakant Patil   | Patent   | Autosensing Mechanism for user-friendly vehicle parking in smart cities              | Filed        | Published                     | 201721008654           | 13/03/2017                           | 18/08/2017                 | Indian              | Faculty                | 2017        |
| 3            | Prof. Nilesh Ashok Suryawanshi Dr. Suryakant Babanrao Patil Dr. Preeti Suryakant Patil Mr. Om Suryakant Patil   | Patent   | Renewable energy generating system at Gymnasium for smart cities                     | Filed        | Published                     | 201721008653           | 13/03/2017                           | 24/03/2017                 | Indian              | Faculty                | 2017        |
| 4            | Dr. Kailash Shaw Mr. Bhatambre Niket Wamanrao Dr. P.Malathi Dr. Sashikala Mishra Dr. Kshama V Kulhalli  | Patent   | Fair seat allocation system and passenger security system in public transport        | Filed        | Published                     | 201721031984 A         | 11/09/2017                           | 22/09/2017                 | Indian              | Faculty                | 2017        |
| 5            | Mr. Prabhu Raddy Mr. Bhatambre Niket Wamanrao   | Patent   | “Smart Lighting & Signaling System For Efficient Usage of Battery Power in Vehicles” | Filed        | Published                     | 201821014988 A         | 20/04/2018                           | 11/05/2018                 | Indian              | Faculty                | 2018        |
| 6            | Ms.Shubhangi Shrikant Khetmar Kalyan Devappa Bamane   | Patent   | Enhancement In Home Automation Digitization System For Misplaced Things              | Filed        | Published                     | 201921000407           | 04/01/2019                           | 06/09/2019                 | Indian              | Faculty                | 2019        |
| 7            | Mr.Kalyan Bamane , Ms.Dipti Pisharodi, Ms.Raashi Thakran, Ms.Kritika Mishra, Ms.Akansha bhendale  | Patent   | Alcohol Detection health and ride monitoring system in Cabs                          | Filed        | Published                     | 201921008049           | 01/03/2019                           | 15/03/2019                 | Indian              | Faculty/student        | 2019        |
| 8            | Mr. R.Prabhu Reddy Miss. Prajakta Tare Mr. Bhatambre Niket Wamanrao   | Patent   | Smart Assistive Armband for People having Hearing Disability and Vision Impairment   | Filed        | Published                     | 201921021630 A         | 31.05.2019                           | 07.06.2019                 | Indian              | Faculty                | 2019        |
| 9            | Dr.Vijay M Wadhav, Dr.Mrs.P.Malathi, Mrs. Arti Utikar, Mr.Pramod Deshmukh , Mr.Pradnyesh Pdave , Mr.Santosh Damkondwar , Mrs.Ashwini Patil , Mrs.Rajasree RS, Mrs.Usha Jadhav, Mr.Santosh | Copy Rights                                      | Creating Open Source Cloud based Gnomio Moodle of your own subject for OBE           | Filed        | Published                     | 13589/2019-CO/SW       | 27/08/2019                           | --                         | Indian              | Faculty                | 2019        |
| 10           | rs Amita Jajoo Mr Pramod B Deshmukh Mr Rohit Jadhav   | Copy Rights                                      | COs Bloom's Taxonomy Action Verbs Analysis   | Filed        | published                     | 13424/2019-CO/L        | 23/08/2019                           | --                         | Indian              | Faculty                | 2019        |
| 11           | Sonam Patil, Swapnil Patil, Kalyan Bamane, Aarti Gaikwad  | Patent   | An automated system for animal health care using IOT & AI                            | Filed        | Published                     | 201921054115           | 27/12/2019                           | 01-03-20                   | Indian              | Faculty                | 2019        |

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| 12 | Patil Preeti Suryakant,Padmavat ChandraprakashShivram,Kulkarni Vaibhav, priyanka shivprasad MRS  | Patent      | Method and system for managing social distancing   | Filed | Granted   | 2020102319       | 2020-09-17 | 14-10-2020 | Austrelian | Faculty           | 2020 |
| 13 | Patil Preeti Suryakant,Padmavat ChandraprakashShivram, Sayyad Shabnam  | Patent      | Smart Washroom system  | Filed | Granted   | 2020102315       | 2020-09-17 | 2020       | Austrelian | Faculty           | 2020 |
| 14 | Amita Jajoo, Samta Chppada, Sneha Mankhair, Rachana Mane, Parajakta Awale  | Patent      | Transformation of Thoughts into Voice for Paralysis Patients   | Filed | Published | 202021010507     | 2020-03-12 | 27/03/2020 | Indian     | Faculty           | 2020 |
| 15 | Kalyan Bamane, Shubham Jadhav, Abhijit Patankar, Ganesh kale, Amita Jajoo  | Patent      | AN EFFECTIVE DESIGN AND IMPLEMENTATION OF SMART HOME USING RASPBERRY PI  | Filed | Published | 202021010513     | 2020-03-12 | 20/03/2020 | Indian     | Faculty           | 2020 |
| 16 | 1. Dr. Vijay M. Wadhai, 2. Dr. Mrs. P. Malathi, 3. Mr .Pramod B. Deshmukh, 4. Mr. RohitJadhav, 5. Mr. Arunkumar Battu, 6. Mrs. Aarati Hiremath, 7. Mrs. Usha Jadhav, 8. Ms. Rachana Sangitrao, 9. Mrs. AaratiGaikwad, 10. Mrs. Shanthi K.Guru 11.                        | Copy Rights | Students Feedback on Teaching - Learning through Gnomio Moodle (Computer Software work)                          | Filed | published | 13596/2019-CO/SW | 27/08/2019 | --         | Indian     | Faculty           | 2019 |
| 17 | Amita Jajoo, Arvind Patel, Himani Hiralkumar Patel, Kaustubh Surve   | Copy Rights | Recommender System for Creation of Movie Trailer, Poster & Personalized movie                                    | Filed | Published | 4087/2020-CO/L   | 12/03/2020 | 21/07/2020 | Indian     | Faculty           | 2020 |
| 18 | Nilesh Vijay Sabnis, Himani Patel,Nilesha Umrao Patil, Dr. Vinay Kulkarni  | Copyright   | Use Of Whatsapp Mobile Application for Conducting Faculty Development Program (FDP)                              | Filed | Published | L-91685/2020     | 02/06/2020 | --         | Indian     | Faculty           | 2020 |
| 19 | 1)Dr. Suja Thangaraj 2)Dr. Vijaya Kumar Gudivada 3)Dr. Ganesh Radhakrishnan 4)M.Angeline Felicia 5)Dr.K.Padmanabhan 6)Dr.S.Anitha 7)D.Rajagopal 8)Dr. S. Saravanan 9)Dr.Abhijit J.Patankar 10)Dr. Brijesh Sathian 11)Dr. T. Bothiraj                                     | Patent      | Prevention of cyber-attacks on healthcare organizations using IoT, Cloud Computing and Machine Learning approach | Filed | Published | 202241006542 A   | 07-02-22   | 11-02-22   | Indian     | Faculty           | 2022 |
| 20 | Amita Jajoo, V A Kulkarni, Parth Shinde, Aditya Patil, Sapana Kolambe  | Copy Rights | attainDI: Complex PO attainment and DI calculations at your fingertips   | Filed |           | 1237/2022-CO/SW  | 20-01-22   |            | Indian     | faculty           | 2022 |
| 21 | Mr. B. Sathiyaprasad, Dr.RAJARAM JATOTHU, Dr.M.Dhasaratham, Mr. Varun Kumar Kakar, Mrs. Madhuri Gurale, Dr. Ajay Arya, Mrs. Aarti S. Jadhav Patil, Mr. Y. M. Mahaboobjohn, Mr. Navnath D. Kale, Dr. Gulshan Kumar, Dr. Arun Kumar Pallathadka, Dr. Harikumar Pallathadka | Patent      | IoT, AI Based Implementation of smart Surveillance System with Facial Recognition and Image- processing approach | Filed | Published | 202241006245     | 05/02/2022 | 11/02/2022 | Indian     | faculty           | 2022 |
| 22 | Vaishnavi Dadasaheb Vaidya, Rishikesh Vishnudas Mundada, Mayur Rajesh Budhodkar, Kalyan Devappa Bamane   | Copy Rights | E-Ticket System For Public Transport   | Filed | Published | L-117682/2022    | 31-03-22   | 26-09-22   | Indian     | Faculty/ Students | 2022 |





**D. Y. Patil College of Engineering, Akurdi, Pune-44.**  
**IPR Details**  
**Department of Electronics and Telecommunication Engineering**

| Sr.No | Name Of Inventor   | Type of IPR (Patent/ Copyright /Trademark) | Title Of The Invention   | Filed | Published/ Unpublished | Application No. | Date Of Filing Of Application | Date of Publication | Jurisdiction | Student /Faculty    | Year | Year Of Grant |
|-------|--|--|--|-------|------------------------|-----------------|-------------------------------|---------------------|--------------|---------------------|------|---------------|
| 1     | Pratamesh K. Mane<br>Dr. D.G. Khairnar<br>Dr. (Mrs.) P. Malathi<br>Dr. Manish Sharma                       | Patent                                     | Design of Swing Restored GDI based self-timed Adder  | Filed | Published              | 201621036232    | 24/02/2016                    | 27/04/2016          | Indian       | Student/<br>Faculty | 2016 | Under Process |
| 2     | Mrs. Rutuja A. Deshmukh, Dr. Ashish R. Panat,  | Patent                                     | An alteration in Turbo Encoder and its interleaver for optimal transmission of high dimensional data | Filed | Published              | 201621039336A   | 18/11/2016                    | 25/11/2016          | Indian       | Faculty             | 2016 | Under Process |
| 3     | Dr. Kamashn Shaw, Mr. Bhatambre Niket Wamanrao, Dr. P.Malathi, Dr. Sashikala Mishra, Dr. Kshama V Kulkarni | Patent                                     | Fair Seat Allocation System and Passenger Security System in Public Transport                        | Filed | Published              | 201721031984    | 11/09/2017                    | 22/09/2017          | Indian       | Faculty             | 2017 | --            |
| 4     | Mrs. Rutuja A Deshmukh<br>Dr.Ashish R.Panat<br>Dr.Mrs.P.Malathi<br>Dr.D.G.Khairnar                         | Patent                                     | An Innovation In Interleaver With High Dimensional Encoding Using Hybrid Group Search Optimizer      | Filed | Published              | 201721039713 A  | 08/11/2017                    | 24/11/2017          | Indian       | Faculty             | 2017 | Under Process |
| 5     | Mr. Prabhu Reddy   | Patent                                     | smart lighting & signalling system for efficient usage of battery power in vehicles                  | Filed | Published              | 201821014988    | 20/04/2018                    | 11/05/2018          | Indian       | Faculty             | 2018 | NA            |
| 6     | Mrs. Lina Chetan Pawar , Dr. D.G. Khairnar   | Patent                                     | Scalable and Energy Efficient Communication Using Multirate Sampling For 5G                          | Filed | published              | 201821024242    | 29/06/2018                    | 20/07/2018          | Indian       | Faculty             | 2019 | NA            |
| 7     | Piyush Chimote, Dr. D.G. Khairnar, Dr. Manish Sharma, Mrs. Rutuja A. Deshmukh Kachana Sangit Rao, Dr. B.B. | Patent                                     | 10t Sram Design Using Stack Transistor Technique   | Filed | Published              | 201821036982    | 10/01/2018                    | 19/10/2018          | Indian       | Student/<br>Faculty | 2018 | Under Process |
| 8     | Musmade, Dr. D.G. Khairnar, Dr. Manish Sharma, Mrs. Rutuja A. Deshmukh                                     | Patent                                     | Milk Pasteurization to substantially reduce the levels of spoilage                                   | Filed | Published              | 201821036983    | 01/10/2018                    | 19/10/2018          | Indian       | Faculty             | 2018 | Under Process |

|    |   |           |  |       |           |                |            |            |        |                     |      |               |
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| 9  | S. P. Patil, Sayali N. Mane, J.J. Jadhav , N.V.Mane, Y. R. Patil  | Patent    | Illumination sensing system to give automatic head lamps passing indication to opposite vehicle                          | Filed | Published | 201821039900   | 23/10/2018 | 02/11/2018 | Indian | Faculty             | 2018 | NA            |
| 10 | SnehaMapari, Dr. D.G. Khairnar, Dr. Manish Sharma, Mrs. Rutuja A. Deshmukh  | Patent    | 16 Bit Dll Multiplier Using Low Power Pulse Generator  | Filed | Published | 201821036979   | 10/01/2018 | 02/11/2018 | Indian | Student/<br>Faculty | 2018 | Under Process |
| 11 | PachiKumari<br>Dr. D. G. Khairnar<br>Dr. (Mrs.) P. Malathi<br>Dr. Manish Sharma   | Patent    | Low computation complexity strategy for spectrum detection in cognitive radio networks using compres                     | Filed | Published | 201721021132   | 16/06/2017 | 21/12/2018 | Indian | Student/<br>Faculty | 2017 | Under Process |
| 12 | Mrs. Kachana Sangrtao, Mrs. Rutuja A. Deshmukh; Dr. D. G. Khairnar; Dr. B. B. Musmade; Dr. Manish Sharma; Dr. Vijay M. Wadhai | Patent    | An Altration in Automation of Sewage Treatment Plant using PLC & SCADA   | Filed | Published | 201921014594 A | 11/04/2019 | 10/05/2019 | Indian | Faculty             | 2019 | Under Process |
| 13 | Mr. Prabhu Reddy, Ms. Prajakta Tare, Mr. Niket Bhatambare   | Patent    | Smart Assistive for people having hearing disabilityand vision impairment  | Filed | Published | 201921021630A  | 31/05/2019 | 07/06/2019 | Indian | Faculty             | 2019 | Under Process |
| 14 | Mr. Shivam borse, Dr. P. Malathi, Mrs. Manisha Rajput, Mrs. Snehal gaikwad  | Patent    | ICUR-Overhead Intelligent Crop Protection from unexpected rainfall and overheat  | Filed | Published | 201921035827   | 09/05/2019 | 20/09/2019 | Indian | Faculty             | 2019 | NA            |
| 15 | Mrs. Snehal Gaikwad, Dr. Mrs. P. Malathi  | Copyright | Performance Enhancement of massive MIMO using Optimal antenna selection towards sub array switching system               | Filed | Published | L-83431/2019   | 11/05/2019 | 20/06/2019 | Indian | Faculty             | 2019 | NA            |
| 16 | Mr. Kundankumar Rameshwar Saraf, Dr. Mrs. P. Malathi  | Copyright | Security Enhancement of Cyber Physical System using modified encryption techique   | Filed | Published | L-83756/2019   | 22/05/2019 | 03/07/2019 | Indian | Faculty             | 2019 | NA            |
| 17 | Mr. Pankaj Vitankar, Dr. D. G. Khairnar   | Copyright | Functional Verification Strategy for enhanced VLSI environmental controlability using universal verification methodology | Filed | Published | L-84232/2019   | 10/06/2019 | 23/07/2019 | Indian | Faculty             | 2019 | NA            |

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|----|---|-----------|--|-------|-----------|---------------|------------|------------|--------|---------------------|------|-----------------------|
| 18 | Vishwalata Lakshe, Dr. A. V. Patil  | Copyright | Intelligent Target Tracking of Mobile Nodes in Wireless Sensor Network using Artificial Intelligence | Filed | Published | L-88015/2019  | 11/05/2019 | 16/12/2019 | Indian | Faculty             | 2019 | NA                    |
| 19 | Mrs. Manisha Rajput, Dr. Mrs. P. Malathi  | Copyright | Spectrum Sharing framework in full duplex mode with minimum interference with 5G cellular network    | Filed | Published | L-86922/2019  | 12/05/2019 | 13/11/2019 | Indian | Faculty             | 2019 | NA                    |
| 20 | Mr. Prashant Titare, Dr. D. G. Khairnar   | Copyright | Development of DCM based MPSoC for high speed application of FPGA using adaptive Peloton Technique   | Filed | Published | L-87210/2019  | 14/09/2019 | 22/11/2019 | Indian | Faculty             | 2019 | NA                    |
| 21 | Ms. Shahin Shaikh, Dr. D. G. Khairnar   | Copyright | Improved Trust Computation mechanism for faster access control in Wireless Sensor network            | Filed | Published | L-89172/2020  | 26/09/2019 | 29/01/2020 | Indian | Faculty             | 2020 | NA                    |
| 22 | Sayali Nitin Mane   | Patent    | Vehicle Tire Wear Out Engraved Studs Indicator   | Filed | Published | 201821049528  | 28/12/2018 | 11/01/2019 | Indian | Faculty             | 2018 | NA                    |
| 23 | Sayali Nitin Mane, Nitin Vishwasrao Mane  | Patent    | Fixed amount dispenser for deformable tube packed semi solid material                                | Filed | Published | 201921003632  | 30/01/2019 | 08/02/2019 | Indian | Faculty             | 2019 | NA                    |
| 24 | Mr. Rajkumar Anil Jadhav, Ms. Shrutika Ravishekhar Lanjewar, Dr. (Mrs.) P. Malathi, Dr. Tapobrata Dey | Patent    | Real Time Embedded Image Processing System For Traffic Sign Detection And Control Of Vehicle.        | Filed | Published | 201921022383  | 06-06-2019 | 21/06/2019 | Indian | Student/<br>Faculty | 2019 | In process            |
| 25 | Ms. Shrutika Ravishekhar Lanjewar, Mr. Rajkumar Anil Jadhav, Dr. (Mrs.) P. Malathi, Dr. Tapobrata Dey | Patent    | Identification and Classification of Fruits Based on Image Processing.                               | Filed | Published | 201921022382  | 06/06/2019 | 19/07/2019 | Indian | Student/<br>Faculty | 2019 | In process            |
| 26 | Mrs. Dipti D. Patil, Dr. Vijay M. Wadhai  | Patent    | wireless sensor network based intelligent framework for mobile real time health care system          | Filed | Published | 1259/MUM/2011 | 18/04/2011 | 20/01/2020 | Indian | Faculty             | 2020 | <b>Granted (2020)</b> |
| 27 | Usha Jadhav, Dr. P Malathi  | Copyright | Fault Tolerance Improvement in Multi-Core System Using Artificial Intelligence                       | Filed | Published | L-106944/2021 | 08/07/2021 | 25/08/2021 | Indian | Faculty             | 2021 | NA                    |

|    |  |           |   |       |           |               |            |            |        |         |      |            |
|----|--|-----------|---|-------|-----------|---------------|------------|------------|--------|---------|------|------------|
| 28 | Trupti Rhishikesh Wagh   | Copyright | Optimization of Power Allocation for Base Stations In 5G Cellular Networks        | Filed | Published | L-107677/2021 | 12/08/2021 | 17/09/2021 | Indian | Faculty | 2021 | NA         |
| 29 | Dr. Manish Sharma, Dr. Rutuja Deshmukh   | Patent    | Design of a Chatbot for Psychiatric Consultation using Sentimental Analysis       | Filed | Published | 202121056116  | 03-12-2021 | 04/02/2022 | Indian | Faculty | 2022 | In process |
| 30 | <del>Dr Rutuja Deshmukh ,Dr</del><br>Abhishek Deshmukh ,Dr D G Khairnar, Mr Prabhu Reddy | Patent    | Computer-aided Diagnosis using Deep Learning                                      | Filed | Published | 202221042413  | 25/07/2022 | 12/08/2022 | Indian | Faculty | 2022 | In process |
| 31 | Mrs. Sayali Nitin Mane, Dr. Dilip G. Khairnar  | Copyright | Secure and Efficient Technique for Tunnel Free Distributed IP Mobility Management | Filed | Published | L-117113/2022 | 21/03/2022 | 25/08/2022 | Indian | Faculty | 2022 | NA         |



**D. Y. Patil College of Engineering, Akurdi, Pune-44.****IPR Details****Department of Instrumentation & Control Engineering**

| Sr. No. | Name of Inventor   | Type of IPR (Patent/Copyright/Trademark) | Title of The Invention  | Filed | Published/Unpublished | Application No. | Date of Filing of Application | Date of Publication | Jurisdiction | Student/Faculty | Year |
|---------|--|--|---|-------|-----------------------|-----------------|-------------------------------|---------------------|--------------|-----------------|------|
| 1       | Ms. Rachana R. Sangitrao;<br>Dr. B. B. Musmade; Dr. D. G. Khairnar; Dr. Manish Sharma;<br>Mrs. Rutuja A. Deshmukh  | Patent                                   | Milk Pasteurization To Substantially Reduce The Levels Of Spoilage Organisms                    | Filed | Published             | 201821036983 A  | 01/10/2018                    | 19/10/2018          | Indian       | Faculty         | 2018 |
| 2       | Sandeep Patil, Mrs. Sayali N Mane, Mr. Nitin V Mane, Mr. Yuvraj Patil, Ms. Jyoti Jadhav  | Patent                                   | Illumination sensing system to give automatic head lamps passing indication to opposite vehicle | Filed | Published             | 201821039900    | 23/10/2018                    | 02-11-2018          | Indian       | Student/Faculty | 2018 |
| 3       | Ms. Rachana Sangitrao; Mrs. Rutuja A. Deshmukh; Dr. D. G. Khairnar; Dr. B. B. Musmade; Dr. Manish Sharma; Dr. Vijay M. Wadhai; Dr. Mrs. P. Malathi; Mr. Milind | Patent                                   | An Altration In Automation of Sewage Treatment Plant using PLC & SCADA                          | Filed | Published             | 201921014594 A  | 11-04-2019                    | 10-05-2019          | Indian       | Faculty         | 2019 |
| 4       | Dr. V. S. Jatti; P. S. Thakare; Ms. R. A. Deshpande; P. Dhall; Mrs. Rashmi Deshpande   | Patent                                   | Smart Valve System For Water Management   | Filed | Published             | 201921040166    | 04/10/2019                    | 09/04/2021          | Indian       | Faculty/Student | 2019 |
| 5       | Mrs.Sayali N. Mane, J.J. Jadhav ,<br>N.V.Mane,   | Patent                                   | Vehicle Tirewear out engraved studes indicator  | Filed | Published             | 201821049528    | 28/12/2018                    | 11-01-2019          | Indian       | Faculty         | 2019 |
| 6       | Mrs.Sayali N. Mane<br>Mr. Nitin V. Mane  | Patent                                   | Fixed amount dispenser for deformable tube packed semi solid material                           | Filed | Published             | 202000000000    | 30/01/2019                    | 08-02-2019          | Indian       | Faculty         | 2019 |

|   |   |           |  |       |           |                 |            |             |        |                 |      |
|---|---|-----------|--|-------|-----------|-----------------|------------|-------------|--------|-----------------|------|
| 7 | Pranav Bairagi, Vipin S. Vibhute, Mangesh Metre, Mrs. Manisha Vibhute                   | Patent    | Advanced Hyrid Controlled Robot with Pick and Place Mechanism  | Filed | Published | 202021000965    | 09-01-2020 | 17/01/2020  | Indian | Student/Faculty | 2020 |
| 8 | Vipin Suryakant Vibhute, Yogesh Suresh Angal, B. Suryakanth                             | Patent    | Sound Source Localization in Three Dimensions Using Self-Rotating, Asymmetrical Positioned And Skew Aligned Two-Array Microphone | Filed | Published | 202022032481    | 29/07/2020 | 19/02/2021  | Indian | Faculty         | 2021 |
| 9 | Dr Rutuja Deshmukh, Mr Abhishek Deshmukh ,Dr D G Khairnar ,Mr Prabhu Reddy ,Mr          | Patent    | Computer-aided Diagnosis using Deep Learning   | Filed | Published | 202221042413    | 25/07/2022 | 12/08/2022  | Indian | Faculty         | 2022 |
|   | <b>Copyright</b>  |           |  |       |           |                 |            |             |        |                 |      |
| 1 | Mrs. Arti A. Utikar; Dr. V. A. Kulkarni; Dr. Kailash Shaw; Mrs. Amita Jajoo; Mr. Pramod | Copyright | “COs Bloom’s Taxonomy Action Verbs Analysis”   | Filed | Published | 13424/2019-CO/L | Oct 2019   | Nov 2019    | Indian | Faculty         | 2019 |
| 2 | Mrs. Rashmi Deshpande Dr. B. B. Musmade   | Copyright | Format for lesson plan based on student centric activities   | Filed | Published | 20695/2019-CO/L | 24/12/2019 | -           | Indian | Faculty         | 2019 |
| 3 | Mrs. Arti A. Utikar; Dr. V. A. Kulkarni; Ms. V. V. Yerande                              | Copyright | WhatsApp based puzzle sloving and assessment for achieving the learning outcome in WhatsApp based FDP on OBE                     | Filed | Published | L-91684/2020    | 06/02/2020 | Unpublished | Indian | Faculty         | 2020 |



**D. Y. Patil College of Engineering, Akurdi, Pune-44.**  
**IPR Details**  
**Department of Mechanical Engineering**

| Sr.No | Name Of Inventor  | Type of IPR (Patent/ Copyright/Trademark) | Title Of The Invention   | Filed | Published/ Unpublished | Application No. | Date Of Filing Of Application | Date of Publication | Jurisdiction | Student/Faculty | Year Of Grant |
|-------|---|---|--|-------|------------------------|-----------------|-------------------------------|---------------------|--------------|-----------------|---------------|
| 1     | Mr. Rahul B. Dhabale<br>Dr. Vijaykumar S. Jatti                           | Patent                                    | Joint Design-Method of Introducing any Type of Metal Wire in between Joint (Butt Configuration) During Under-Water Friction Stir Welding and Friction Stir Welding | Filed | Published              | 201921000280    | 01/03/2019                    | 07/10/2020          | Indian       | Faculty/Student | Under Process |
| 2     | Rahul B. Dhabale and<br>Dr. Vijaykumar S. Jatti                           | Patent                                    | Licorice Root-Epoxy Resin-Copper Powder-Carbon Fiber:A Biomaterial   | Filed | Published              | 201721020412    | 23/06/2017                    | 23/06/2017          | Indian       | Faculty         | Under Process |
| 3     | P. Malathi, Ramitha Rajesh<br>and TapobrathaDey                           | Patent                                    | A Novel System For Image Denoising Using Frame Validation And Reconstruction   | Filed | Published              | 201721024960    | 08/04/2017                    | 04/08/2017          | Indian       | Faculty/Student | Under Process |
| 4     | Ilatwar Sunil Vitthalrao,<br>Prof. GhogardareSwapnil<br>Vijay             | Patent                                    | AC2PH (Auto checking of Chlorine and PH value of water)  | Filed | Published              | 201721039183    | 03/11/2017                    | 17/11/2017          | Indian       | Student/Faculty | Under Process |
| 5     | Ilatwar Sunil Vitthalrao,<br>Prof. GhogardareSwapnil V.                   | Patent                                    | NME System (Notification for money ending in ATM)  | Filed | Published              | 201721039182    | 11/03/2017                    | 17/11/2017          | Indian       | Student/Faculty | Under Process |
| 6     | Ilatwar Sunil Vitthalrao,<br>MandootRajatAbhay,<br>PawarDnyaneshwar Vilas | Patent                                    | CIM Gear Drive Transmission (COM-BINE individual multiple gear drive)  | Filed | Published              | 201721039214    | 03/11/2017                    | 24/11/2017          | Indian       | Student/Faculty | Under Process |
| 7     | Ilatwar Sunil Vitthalrao,<br>MandootRajatAbhay                            | Patent                                    | "ECDA" System (Eccentric Chain Drive Adjuster System)  | Filed | Published              | 201721039195    | 30/11/2017                    | 24/11/2017          | Indian       | Student/Faculty | Under Process |
| 8     | Ilatwar Sunil Vitthalrao,<br>Mandoot Rajat Abhay                          | Patent                                    | "GPIS Disc Brake" (Guide Plate Inner sprocket Disc Brake)  | Filed | Published              | 201721039194    | 03/11/2017                    | 24/11/2017          | Indian       | Student/Faculty | Under Process |
| 9     | Ilatwar Sunil Vitthalrao,<br>Langute Geetanjali Rajendra                  | Patent                                    | "MSHC" (Motor cycle seat for human comfort)  | Filed | Published              | 201721039187    | 03/11/2017                    | 24/11/2017          | Indian       | Student/Faculty | Under Process |
| 10    | Ilatwar Sunil Vitthalrao,<br>Mandoot Rajat Abhay                          | Patent                                    | "ULAHW" System (Unbalance load avoider hydraulic wheel)  | Filed | Published              | 201721039186    | 03/11/2017                    | 24/11/2017          | Indian       | Student/Faculty | Under Process |
| 11    | Lahane Ravindra Sadashiv  | Patent                                    | "AGPCPE" (Analysis of gear pair contact to predict efficiency)   | Filed | Published              | 201721039196    | 03/11/2017                    | 24/11/2017          | Indian       | Student/Faculty | Under Process |
| 12    | Tapobrata Dey, Shylesha V<br>Channapattana and Sharma<br>Shubham Devender | Patent                                    | Mini Wind Turbine for Lighting of Highways   | Filed | Published              | 201821002464    | 22/01/2018                    | 09/02/2018          | Indian       | Student/Faculty | Under Process |
| 13    | Rahul B. Dhabale and<br>Dr. V. S. Jatti                                   | Patent                                    | Multi-Spindle Profile Friction Stir Welding Machine for Welding of Plastic Parts   | Filed | Published              | 201821009086    | 13/03/2018                    | 20/09/2019          | Indian       | Student/Faculty | Under Process |
| 14    | Deepak Sunil Patil  | Patent                                    | Waste Water Reuse Technology in Apartments   | Filed | Published              | 201821020567    | 01/06/2018                    | 22/06/2018          | Indian       | Student/Faculty | Under Process |
| 15    | Dr. P. T. Nitnaware and Dr. R.<br>S. Hingole                              | Patent                                    | Hydrogen addition in CNG fuelled SI engine to reduced idling speed for NOx reduction and fuel economy  | Filed | Published              | 201821029606    | 07/08/2018                    | 31/08/2018          | Indian       | Student/Faculty | Under Process |
| 16    | Dr. P. T. Nitnaware and Dr. R.<br>S. Hingole                              | Patent                                    | Intake air cooling of CNG operated SI engine using CNG pressure regulator  | Filed | Published              | 201821029601    | 07/08/2018                    | 24/08/2018          | Indian       | Student/Faculty | Under Process |
| 17    | R. S. Lahane and Dr. R. S.<br>Hingole                                     | Patent                                    | Design and development of sugarcane harvesting machine (Dadoshm)   | Filed | Published              | 201821029593    | 07/08/2018                    | 31/08/2018          | Indian       | Student/Faculty | Under Process |
| 18    | R. S. Lahane and Dr. R. S.<br>Hingole                                     | Patent                                    | Dual Fuel Brooder for poultry farm   | Filed | Published              | 201821029597    | 07/08/2018                    | 05/10/2018          | Indian       | Student/Faculty | Under Process |

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|----|--|--------|--|-------|-----------|--------------|------------|------------|--------|-----------------|---------------|
| 19 | Deepak S Patil, S.V. Thakur and Dr. R. S. Hingole  | Patent | Design of multipurpose underground pipe  | Filed | Published | 201821029612 | 07/08/2018 | 14/02/2020 | Indian | Student/Faculty | Under Process |
| 20 | S. V. Thakur and S. Agarwal  | Patent | Portable cheapest biodigester for biogas production  | Filed | Published | 201821029617 | 07/08/2018 | 14/02/2020 | Indian | Student/Faculty | Under Process |
| 21 | Deepak Kumar Chandra, Jay Kumar Pathak, Dr. R. S. Hingole, Sushant S. Patil, Swapnil Vijay Ghogardare, | Patent | Design and development of power generation machine using speed breaker                               | Filed | Published | 201821029587 | 07/08/2018 | 14/02/2020 | Indian | Student/Faculty | Under Process |
| 22 | R Bairagi, Ajinkya A Khandale, Ritesh R Jain, Shridhar S Kulkarni, Ganesh                              | Patent | Integration of mine detection, Cantilever mechanism, Arms and ammunition for Unmanned Ground Vehicle | Filed | Published | 201821031262 | 21/08/2018 | 31/08/2018 | Indian | Student/Faculty | Under Process |
| 23 | Mr. Sunil Patil  | Patent | Mirror adjustment for lane change  | Filed | Published | 201821036691 | 28/09/2018 | 19/10/2018 | Indian | Student/Faculty | Under Process |
| 24 | Mr. Vikram Kulkarni  | Patent | Coding for socks to aid blind persons  | Filed | Published | 201821036694 | 28/09/2018 | 19/10/2018 | Indian | Student/Faculty | Under Process |
| 25 | Mr. Vishwanath Hunagund  | Patent | Walking stick cum chair for blind person   | Filed | Published | 201821036699 | 28/09/2018 | 19/10/2018 | Indian | Student/Faculty | Under Process |
| 26 | Mr. Vinayak Bembreakr  | Patent | A SMS operated automatic door lock system to avoid theft problems and false practices                | Filed | Published | 201821036698 | 28/09/2018 | 19/10/2018 | Indian | Student/Faculty | Under Process |
| 27 | Mr. S Bawage, Mr Kathari, Mr. S S Patil, Mr. V Hunagund, Mr. V Kulkarni & Dr. R S Hingole              | Patent | A Safe Swin Band   | Filed | Published | 201821036685 | 28/09/2018 | 19/10/2018 | Indian | Student/Faculty | Under Process |
| 28 | Dr Pravin Nitnaware & Dr Rahulkumar Hingole  | Patent | Design and fabrication of fertisedd driller and planter  | Filed | Published | 201821036706 | 28/09/2018 | 19/10/2018 | Indian | Student/Faculty | Under Process |
| 29 | Deepak Sunil Patil, Taware Swapnil Yashwant, Santosh Kumar Bawage                                      | Patent | Semi Automatic Toilet Seat   | Filed | Published | 201821036695 | 28/09/2018 | 19/10/2018 | Indian | Faculty         | Under Process |
| 30 | Deepak Sunil Patil   | Patent | Detecting exact centre of any size paper for purpose of punchibg holes without folding the paper     | Filed | Published | 201821036671 | 28/09/2018 | 03/04/2020 | India  | Student/Faculty | Under Process |
| 31 | Dr. Rahulkumar S. Hingole Dhananjay R. Patil   | Patent | CNC Router Used For Profile Cutting Of Shock Absorber  | Filed | Published | 201821038623 | 11/10/18   | 17/04/2020 | Indian | Student/Faculty | Under Process |
| 32 | Dr. Rahulkumar S. Hingole Akshay B. Chhajed  | Patent | Overhead Crane for Pouring Molten Metal in Casting Cavity  | Filed | Published | 201821038598 | 11/10/18   | 17/04/2020 | Indian | Student/Faculty | Under Process |
| 33 | Dr. Rahulkumar S. Hingole Nishant G. Masane  | Patent | Spur Pinion in Loading Condition with Different Material for 1800 Flipping Machine                   | Filed | Published | 201821038618 | 11/10/18   | 17/04/2020 | Indian | Student/Faculty | Under Process |
| 34 | Mr. Rahul B. Dhabale and Dr. V. S. Jatti   | Patent | Design of tool for friction stir welding   | Filed | Published | 201821039198 | 16/10/2018 | 17/04/2020 | Indian | Student/Faculty | Under Process |
| 35 | Mr. Rahul B. Dhabale and Dr. V. S. Jatti   | Patent | Honey-epoxy resin-copper powder-cotton: A bio-composite  | Filed | Published | 201821039196 | 16/10/2018 | 17/04/2020 | Indian | Student/Faculty | Under Process |
| 36 | Mr. Rahul B. Dhabale and Dr. V. S. Jatti   | Patent | Honey as plasticizer for epoxy resin   | Filed | Published | 201821039197 | 16/10/2018 | 17/04/2020 | Indian | Student/Faculty | Under Process |
| 37 | Jayesh R. Sontakke, Tapobrata Dey and Sandeep S. Sarnobat  | Patent | Power Generation through Pump-Turbine Rig  | Filed | Published | 201821049911 | 31/12/2018 | 03/07/2020 | Indian | Student/Faculty | Under Process |
| 38 | Shrutika R. Lanjewar, Rajkumar A. Jadhav, Dr.(Mrs.) P. Malathi, Dr. Tapobrata Dey                      | Patent | Identification and classification of fruits based on image processing                                | Filed | Published | 201921022382 | 06/06/2019 | 19/07/2019 | Indian | Student/Faculty | Under Process |

|    |   |           |  |       |           |              |            |            |        |                     |                       |
|----|---|-----------|--|-------|-----------|--------------|------------|------------|--------|---------------------|-----------------------|
| 39 | Rajkumar A. Jadhav, Shrutika R. Lanjewar, Dr.(Mrs.) P. Malathi, Dr. Tapobrata Dey     | Patent    | Real time embedded image processing system for traffic sign detection and control of vehicle   | Filed | Published | 201921022383 | 06/07/2019 | 21/06/2019 | Indian | Student/Faculty     | Under Process         |
| 40 | Prasanna Bhosale, Ms. Nirmala Bhingare, Mrs. Swati Dhamale, Dr. S Prakash, Dr.        | Patent    | Development of sound absorbing material using coconut coir fibers  | Filed | Published | 201921039630 | 01/10/2019 | 13/12/2019 | Indian | Student and Faculty | Under Process         |
| 41 | Dr. R. S. Hingole, Dr. P. T. Nitnaware and Mr. R. S. Lahane                           | Patent    | Design analysis and manufacturing of pedal driven multiple crop cutter   | Filed | Published | 201921042122 | 17/10/2019 | 25/10/2019 | Indian | Faculty             | Under Process         |
| 42 | Dr. R. S. Hingole, Dr. P. T. Nitnaware and Mr. R. S. Lahane                           | Patent    | Design and manufacturing of hand operated cotton picking machine   | Filed | Published | 201921042329 | 18/10/2019 | 25/10/2020 | Indian | Faculty             | Under Process         |
| 43 | Dr. R. S. Hingole and Dr. V. M. Nandedkar   | Patent    | Design and development of web enabled expert system for meta forming   | Filed | Published | 201921042325 | 18/10/2019 | 11/09/2020 | Indian | Faculty             | Under Process         |
| 44 | Suryawanshi, Akhilesh Vivek Awate, Siddhi Rajesh Bhandari, Abhishek Dnyanoba          | Patent    | Personal Safety of an Individual through wireless network  | Filed | Published | 202021039633 | 14/09/2020 | 18/03/2022 | Indian | Student/Faculty     | Under Process         |
| 45 | Dr. Rahul Kumar Hingole, Bapurao Marlapalle   | Patent    | Design and analysis of Tube bulging and Tube Hydroforming process  | Filed | Published | 202021026104 | 21/06/2020 | 24/12/2021 | Indian | Student/Faculty     | Under Process         |
| 46 | Nilesh Vijay Sabnis, Nileshta Umrao Patil, Dr. Vinay Kulkarni                         | Copyright | Use Of Whatsapp Mobile Application for Conducting Faculty Development Program (FDP)  | Filed | Published | L-91685/2020 | 02/06/2020 | --         | Indian | Faculty             | Register (02/06/2020) |
| 47 | Athira B Kaimal, Vinay Kulkarni   | Copyright | Whatsapp Based Puzzle Solving and Assessment for Achieving The Learning Outcomes In Whatsapp Based FDP On Outcome Based Education                      | Filed | published | L-91684/2020 | 02/06/2020 | --         | Indian | Faculty             | Register (02/06/2020) |
| 48 | Subodh Milind Phade, Tapobrata Dey  | Patent    | The Buoyance loop  | Filed | -         | 202121053882 | 23/11/2021 | --         | India  | Faculty             | Under Process         |
| 49 | Harshada Namdev Farape, Shinde Akshaykumar Rajendra, Shubham Chaturvedi, Tayade Ritul | Patent    | Dual Working Composite Mask Vending Machine With Disposing Unit For Destroying Waste Masks.  | Filed | published | 202121049036 | 16/11/2021 | 07/01/2022 | India  | Students            | Under Process         |
| 50 | Dr. S V S K Deepak Kumar, Mr. Vipul Balkrishna Nerkar, Dr. Rahul Kumar Shivajirao     | Patent    | Deep Learning Based System to Analyse and Support The Process of Cleaning Solar Separators in Solar Energy Enabled Devices for Harvesting Solar Energy | Filed | published | 202211060209 | 21/10/2022 | 04/11/2022 | India  | Faculty             | Under Process         |

**D. Y. Patil College of Engineering, Akurdi, Pune-44.****IPR Details****Department of Production Engineering**

| <b>Sr.No</b> | <b>Name Of Inventor</b>                           | <b>Type of IPR( Patent/ Copyright/ Trademark)</b> | <b>Title Of The Invention</b>                                      | <b>Filed</b> | <b>Published/ Unpublished</b> | <b>Application No.</b> | <b>Date Of Filing Of Application</b> | <b>Date of Publication</b> | <b>Jurisdiction</b> | <b>Student/Faculty</b> | <b>Year</b> | <b>Year Of Grant</b> |
|--------------|---|---|--|--------------|-------------------------------|------------------------|--------------------------------------|----------------------------|---------------------|------------------------|-------------|----------------------|
| 1            | Mr. Sharad Garg, Dr. P. M. Ghanegaonkar and G. K. | Patent  | A Turbo Ventilator having mass flow rate improving internal blades | Filed        | Published                     | 3502/MUM/2015          | 12/12/2015                           | 01/01/2016                 | Indian              | Faculty                | 2015        | Under Process        |
| 2            | Dr. Vinay Arun Kulkarni<br>Prof Dr. Bharatkumar   | Patent  | CMM Interim Check by using Zirconia-CFRP Ball Plate Artifact       | Filed        | Published                     | 201821041926           | 06/11/2018                           | 23/11/2018                 | Indian              | Student/Faculty        | 2018        | Under Process        |
| 3            | Dr.Nitin Kundli KambleDr.                         | Patent  | Design of Automatic Hand Brake System                              | Filed        | Published                     | 202221012538           | 08/03/2022                           | 25/03/2022                 | Indian              | Faculty                | 2022        | Under Process        |
| 4            | Dr. R. John MartinDr. Nitin                       | Patent  | Decision Making Intelligent Humanoid Robot                         | Filed        | Published                     | 202211008035           | 15/02/2022                           | 25/02/2022                 | Indian              | Faculty                | 2022        | Under Process        |

**D. Y.Patil College of Engineering, Akurdi, Pune-44.****IPR Details****Department of Civil Engineering**

| <b>Sr.No</b> | <b>Name Of Inventor</b>   | <b>Type of IPR (Patent/ Copyright/Tra demark)</b> | <b>Title Of The Invention</b>   | <b>Filed</b> | <b>Published/ Unpublished</b> | <b>Application No.</b> | <b>Date Of Filing Of Application</b> | <b>Date of Publication</b> | <b>Jurisdiction</b> | <b>Student/Faculty</b> | <b>Year</b> | <b>Year Of Grant</b> |
|--------------|---|---|---|--------------|-------------------------------|------------------------|--------------------------------------|----------------------------|---------------------|------------------------|-------------|----------------------|
| 1            | Dr.A.B.More   | Patent  | CVR-FOR-USW: Continuous flow vermi- reactor for fast track urban solid waste treatment                                    | Filed        | Published                     | 201721027081A          | 08/10/2018                           | 10/08/2018                 | Indian              | Faculty and students   | 2018        | In process           |
| 2            | Dr.A.B.More   | Patent  | DLVBI-System: Drivers License validation using Biometric Intelligent System   | Filed        | Published                     | 201821029063           | 08/02/2018                           | 07/02/2020                 | Indian              | Faculty and students   | 2018        | In process           |
| 3            | Dr.A.B.More   | Patent  | IGC- System: Intelligent Garbage Collection System  | Filed        | Published                     | 201821029064           | 08/02/2018                           | 07/02/2020                 | Indian              | Faculty and students   | 2018        | In process           |
| 4            | Anahita Chatterjee, Sachin J. Mane, Dr. Ashok B. More, Kailas K. Biradar, Mukund P. Chougale, Mahesh Tatikonda,                             | Patent  | CDPW-HZSM-5: Catalytic Depolymerisation Of Polystyrene Waste Using HZSM-5   | Filed        | Published                     | 201921018864           | 05/11/2019                           | 07/06/2019                 | Indian              | Faculty and students   | 2019        | In process           |
| 5            | Dushyant Topiwala, Dr. Basavara J Balagol, Dr. Sandeep Shiyekar, Subhashini Ramteke,  | Patent  | ENW-WATER: Effects Of Nanomaterials on COD Of Waste Water   | Filed        | Published                     | 201921018867           | 05/11/2019                           | 07/06/2019                 | Indian              | Faculty and students   | 2019        | In process           |
| 6            | Aashima Sharma, Sachin J. Mane, Dr. Ashok B. More, Aradhana R. Chavan, Sudhanshu  | Patent  | HWE-TREATMENT: Treatment of Hospital Waste Water using Electrocoagulation   | Filed        | Published                     | 201921018866           | 05/11/2019                           | 19/07/2019                 | Indian              | Faculty and students   | 2019        | In process           |
| 7            | Smita Pataskar, Deepika Wagh, Avadhut Kullarni, Ahinsak Taksande, Sudhanshu Pathak  | Patent  | CFM -CONSTRUCTION INDUSTRY: Managerial Competencies of Female and Male Managers in Construction Industry                  | Filed        | Published                     | 201921028800           | 17/07/2019                           | 30/08/2019                 | Indian              | Faculty and students   | 2019        | In process           |
| 8            | Smita Pataskar, Sayali Dharne, Akash Charbhe, Ashwini Nangre, Ashwini Patil   | Patent  | P-PARKING SPACE: Prediction of Parking Space Near by Your Vehicle   | Filed        | Published                     | 201921030922           | 31/07/2019                           | 30/08/2019                 | Indian              | Faculty and students   | 2019        | In process           |
| 9            | Dr. Ashok B. More, Dr. Saswati Datta, Yogesh Sopan Alhat, Sachin J Mane, Mane Machindra, Gulabrao, Ashok Ba Jirao Borude, Hari Khandu Khose | Patent  | ETP- SUSTAINABLE : Existing and Proposed Sewage Treatment Plant of Pragmatic Feasibility, Cost Efficiency and Sustainable | Filed        | Published                     | 201921031639           | 08/05/2019                           | 16/08/2019                 | Indian              | Faculty and students   | 2019        | In process           |
| 10           | Pulakit Meshram, Ashwini Patil, Dr. Ashok B. More, Keshavrao Lawand, Rajesh Naik, Yash Sorathia, Shruthi Lathkar, Athulo                    | Patent  | Intelligent Replaced of Natural Aggregates and Cement with Recycled Concrete Aggregate, Rice Husk Ash                     | Filed        | Published                     | 201921031637           | 08/05/2019                           | 16/08/2019                 | Indian              | Faculty and students   | 2019        | In process           |
| 11           | Anupama Rodge, Sachin J. Mane, Dr. Ashok B. More, Dr. Narendra S. Jain, Mukund P.   | Patent  | IRF- ADSORBENTS : Intelligent Removal Of Fluoride Using Low Cost Natural Adsorbents                                       | Filed        | Published                     | 201921031976           | 08/07/2019                           | 16/08/2019                 | Indian              | Faculty and students   | 2019        | In process           |
| 12           | Ms. Neharika Tana Ji Gaikwad, Dr. Tushar Ra Jendra Bagul, Dr.   | Patent  | Synthesis of Energy Fuel from Plastic Waste and Its Efficiency  | Filed        | Published                     | 201921034478           | 27/08/2019                           | 20/09/2019                 | Indian              | Faculty and students   | 2019        | In process           |
| 13           | Ms. Ankita Anil Patil, Dr. Ashok B. More, Dr. Shridhar Shankar Kumbhar, Prof. Bakul Rao, Dr.  | Patent  | Intelligent Way to Water Management Index (CWMI) oF Warana River Basin  | Filed        | Published                     | 201921034459           | 27/08/2019                           | 20/09/2019                 | Indian              | Faculty and students   | 2019        | In process           |

|    |  |           |   |       |                             |                 |            |            |           |                      |      |                    |
|----|--|-----------|---|-------|-----------------------------|-----------------|------------|------------|-----------|----------------------|------|--------------------|
| 14 | Mr. Anand Vilas Misal, Dr. Saswati Datta, Dr. Ashok B More, Mrs. Ashwini R. Patil, Mr. Uday Shankar Patil, Mr.         | Patent    | Aggregates And Bitumen With Reclaimed Asphalt Pavement And Waste Plastic In Flexible Pavement                         | Filed | Published                   | 201921034895    | 29/08/2019 | 15/11/2019 | Indian    | Faculty and students | 2019 | In process         |
| 15 | Mr. Shubham Satish Kabra, Dr. Saswati Datta, Dr. Ashok B.  | Patent    | Polyethylene Terephthalate (PET) Bottles in Rigid Pavement  | Filed | Published                   | 201921035069    | 30/08/2019 | 27/09/2019 | Indian    | Faculty and students | 2019 | In process         |
| 16 | Ms. Sneha Sanjay Takankhar, Dr. Ashok B. More, Dr. Saswati Datta, Dr. Narendra S Jain, Mrs. Usha Narayan Kategoanekar, | Patent    | Modification in Rapid Sand Filter for Backwashing System using Change in the Filter Design                            | Filed | Published                   | 201921041392    | 10/12/2019 | 18/10/2019 | Indian    | Faculty and students | 2019 | In process         |
| 17 | BACHHAV SNEHAL RA JENDRA, SACHIN J MANE, Dr Ashok B More, DR. SASWATI DATTA, KINJAL SANJAY                             | Patent    | Water Lettuce converter: Water lettuce can be converted to biofuels, biomannure and other required things             | Filed | Published                   | 201921050559    | 07/12/1019 | 20/12/1019 | Indian    | Faculty and students | 2019 | In process         |
| 18 | Dr Ashok B More and others (outside dypcoe)  | Patent    | Application of Geothermal CoolingTechniqueand water coolingTechniqueot Residential Building                           | Filed | Published                   | 201921041894    | 16/10/2019 | 13/12/1019 | Indian    | Faculty              | 2019 | In Progress        |
| 19 | Dr Ashok B More  | Patent    | Performance Evaluation of Fixed and Suspended Anaerobic Filter Media of Compacted Sewage Treatment Process            | Filed | Published                   | 201921050639    | 12/08/2019 | 20/12/2019 | Indian    | Faculty              | 2019 | In Progress        |
| 20 | Dr Ashok B More  | Patent    | Use of Natural Coagulants for Primary Treatment of Dairy Wastewater   | Filed | Published                   | 201921050680    | 12/09/2019 | 20/12/2019 | Indian    | Faculty              | 2019 | In Progress        |
| 21 | Dr Vinay A Kulkarni, Mrs Usha Jadhav, Vinita Yerande, Dr Sandeep Shiyekar, Santosh                                     | Copyright | Creating Open Source Cloud based Gnomio Moodle of your own subject for OBE  | Filed | Not Published               | 10568/2019-CO/L | 07/08/2019 | --         | Indian    | Faculty              | 2019 | In Progress        |
| 22 | Dr Ashok B More and others (outside dypcoe)  | Patent    | Water collection and notification intelligent management Technology   | Filed | <b>Granted (2020102377)</b> | 2020102377      | 23/09/2020 | 21/10/2020 | Australia | Faculty              | 2020 | 21/10/2020 GRANTED |
| 23 | Mr. Mahesh V. Tatikonda and others (outside dypcoe)  | Patent    | A Moould for Preparing Additives For Stabilization of soil & Additives Prepared Therefrom                             | Filed | <b>Granted</b>              | 2021105340      | 28/6/2021  | 11/03/2021 | Australia | Faculty              | 2021 | Granted            |
| 24 | Mr. Mahesh V. Tatikonda  | Copyright | Durability and micro structural co relation of normal concrete and recycled aggregate concrete with mineral admixture | Filed | Published                   | 30789/2021-CO/L | 20/12/21   | --         | Indian    | Faculty              | 2021 | Published          |
| 25 | Mr. Mahesh V. Tatikonda  | Patent    | Briquette using Green waste   | Filed |                             | 202221039691    | 2022/07/11 | -          | Indian    | Faculty              | 2022 | In Progress        |
| 26 | Mr. Mahesh V. Tatikonda  | Patent    | Decorative concrete slab  | Filed |                             | 202221032181    | 2022/06/06 |            | Indian    | Faculty              | 2022 | In Progress        |
| 27 | Mrs. Smita V. Pataskar   | Patent    | 2D Separator for Filing & Documentation   | Filed | Published                   | 202221046642    | 17/08/2022 | 26/08/2022 | Indian    | Faculty              | 2022 | Published          |



**D. Y. Patil College of Engineering, Akurdi, Pune-44.****IPR Details****Department of AI and Data Science**

| Sr. No. | Name of Inventor  | Type of IPR (Patent/ Copyright/ Trademark) | Title of The Invention  | Filed | Published/ Unpublished | Application No. | Date of Filing of Application | Date of Publication | Jurisdiction | Student/Faculty      | Year | Year of Grant |
|---------|---|--|---|-------|------------------------|-----------------|-------------------------------|---------------------|--------------|----------------------|------|---------------|
| 1       | Sankalp Sunil Kulkarni, Dhanesh Ramdas Walte, Mohit Gupta, Meherenaz contractor, Vinayak G. kottawar, Pramod B. Deshmukh, Dr. Vinayak Kottawar    | Patent                                     | The Intelligent Class Room  | Filed | Published              | 202021007883    | 25-02-2020                    | 06-03-2020          | Indian       | Student Faculty      | 2020 | In process    |
| 2       | Pratiksha Wani, Sneha Kolge, Kalyani Veer, Utkarsh Keote, Mrs. Nilam Patil, Dr. Vinayak Kottawar  | Copyright                                  | Fire Detection & safety navigation system using AI & IOT                        | Filed | Published              | 3070/2020/CO/SW | 18/2/2020                     | —                   | Indian       | Faculty              | 2020 | In process    |
| 3       | Dr. Bagyashri Tingre, Dr. Prasadu Peddy, Dr. Prashant Kumbharkar  | Patent                                     | Virtual dressing room using KINECT and OPEN CV                                  | Filed | Published              | 202111052501    | 16-11-2021                    | 04-11-2022          | Indian       | Faculty              | 2022 | In process    |
| 4       | Dr. Bhagyashree Ashok Tingare, Dr. S.S. Raj Solay Anand, Mrs. Jesla Joseph, Samrat Ray, Dr. S Kayalvili, Dr. M Jogendra Kumar, Ms. Anuradha Reddy | Patent                                     | An Augmented Reality Screen System and augmented Reality Screen display method. | Filed | Published              | 202221062458    | 02-11-2022                    | 11-11-2022          | Indian       | Faculty              | 2022 | In process    |
| 5       | Mr. Niranjan Shankar Paul, Mrs. Sharmistha Chakraborty and Dr. Tanujyoti Dey  | Patent                                     | The HeadOn-Inator   | Filed | --                     | 202221066071    | 17/11/2022                    | --                  | India        | Faculty and Students | 2022 | Under Process |

