



Lokmanya Tilak Jankalyan Shikshan Sanstha's

PRIYADARSHINI COLLEGE OF ENGINEERING

(Recognised by A.I.C.T.E., New Delhi & Govt. of Maharashtra, Affiliated to R.T.M.Nagpur University)

Near CRPF Campus, Hingna Road, Nagpur-440 019, Maharashtra (India)

Phone : 07104 – 236381, 237307, Fax : 07104 – 237681,

email : principal.pce.ngp@gmail.com, www.pcenagpur.edu.in



PUBLISHED/ FILED PATENT SUMMARY

| SESSION | 2021-22 | 2020-21 | 2019-20 | 2018-19 | 2017-18 | 2016-17 |
|-----------------|---------|---------|---------|---------|---------|---------|
| NUMBER | 09 | 03 | 11 | 14 | 06 | 03 |
| TOTAL=46 | | | | | | |

Principal
Priyadarshini College of Engg.
Nagpur.



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LIST OF PATENT PUBLISHED/FILED

| Sr. No | Session | Name of Faculty | Department | Title | Date of Publication |
|--------|---------|---|---|--|---------------------|
| 1 | 2021-22 | Dr.S.A.Dhale | Civil Engineering | Solar operated Desiccant Dryer | 10/03/2022 |
| 2 | 2021-22 | Dr.S.A.Dhale | Civil Engineering | Three Way Valve | 23/03/2022 |
| 3 | 2021-22 | Mr. V S Vairagade | Civil Engineering | Three Way Valve | 23/03/2022 |
| 4 | 2021-22 | Mr. V S Vairagade | Civil Engineering | Pedal operated Mechanism for Sugarcane Juice Extractor Machine | 24/11/2021 |
| 5 | 2021-22 | Mr. V S Vairagade | Civil Engineering | Three Phase underground Cable Fault Detector and Method Thereof | 04/03/2022 |
| 6 | 2021-22 | Mr. V S Vairagade | Civil Engineering | Mechanism for loading and Unloading of LPG Cylinder from Vehicle | 14/01/2022 |
| 7 | 2021-22 | Dr,U,B, Malkhandale | Electrical Engineering | Fuzzy Edge Detection and Machine Learning based Smart Surveillance and Security System using CNN Algorithm | 19/09/2021 |
| 8 | 2021-22 | Dr,U,B, Malkhandale | Electrical Engineering | Deep reinforcement learning and software defined network based optimized routing for computer networks | 22/10/2021 |
| 9 | 2021-22 | Dr.V.G. Umale | Electrical Engineering | A Power system simulator for computing Electrical parameters, prices and their viduslization | 07/02/2022 |
| 10 | 2020-21 | Dr.P.S.Prasad | Information Technology | Fastener Lock | 20/11/2020 |
| 11 | 2020-21 | Ms. S.G. Mungale | Electronics Engineering | Using Central Cornea Thickness to counter Retina Spoofing in Biometric Authentication | 14/10/2021 |
| 12 | 2020-21 | Dr.Mrs.S.W.Varade | Electronics & Telecommunication Engineering | Multi Spike and Soft spring tension based ambulatory EEG Electrodes | 01/01/2021 |
| 13 | 2019-20 | Dr.(Mrs.) Nita Thakare Mrs. Jyotsana Gabhane Mrs. Rubana Khan | Computer Technology | Automated Inventory Control of Vegetables in Refrigerator and Online Order Placement System | 30/08/2019 |
| 14 | 2019-20 | Mrs. Rashmi Nimbalkar | Chemical Engineering | Integrative electric power supply to generate electrical energy from sound and solar energy | 03/01/2020 |
| 15 | 2019-20 | 1 . Kazi Syed Zakiuddin | Mechanical Engineering | Human powered rice mill | 20-11-2020 |
| 16 | 2019-20 | 1 . Kazi Syed Zakiuddin 2 . Nitin Sudhakar Sawarkar 3 . Nakul Gangadhar Mahalle | Mechanical Engineering | A system for requisite torque output | 13-11-2020 |
| 17 | 2019-20 | 1 . Kazi Syed Zakiuddin | Mechanical Engineering | Manually operated carding machine | 13-11-2020 |



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|----|---------|--|------------------------|---|------------|
| | | 2 . Nakul Gangadhar Mahalle 3 . Nitin Sudhakar Sawarkar | | | |
| 18 | 2019-20 | 1 . Kapil Rambhau Aglawe 2 . Siraj Yakub Sayyad 3 . Sagar Dnyaneshwar Shelare 4 . Pravin Balkrishnaji Khope | Mechanical Engineering | Smart window air cooler | 31-01-2020 |
| 19 | 2019-20 | 1 . Vivek G. Parhate 2 . Pravin Balkrishnaji Khope | Mechanical Engineering | Physiotherapy traction table with adjustable traction angle in combination with tilt and chair form for optimal performance | 24-01-2020 |
| 20 | 2019-20 | K.S.ZAKIUDDIN | Mechanical Engineering | Human energized fodder chopper | 08-07-2011 |
| 21 | 2019-20 | 1 . Dr Chandreshkhar Nilkanthrao Sakhale 2 . Dr. Subhash N. Waghmare 3 . Prof. Nilesh R. Pathare 4 . Prof. Prerna .S.Borkar 5 . Prof. Kunal P. Mudafale 6 . Prof. Vishal Kaushik 7 . Prof. Vijaykumar S. Shende 8 . Prof. Munindra S. Matey 9 . Prof. Shrikant M. Awatade 10 . Prof. Piyush M. Sirsat 11 . Prof. Sonam V. Sonatakke 12 . Prof. Chetan K. Tembhurkar | Mechanical Engineering | Multipurpose processing machine for bamboo sticks | 16-08-2019 |



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|----|---------|---|------------------------|---|------------|
| 22 | 2019-20 | 1 . Kazi Syed Zakiuddin 2 . Siraj Mohammad Ali Sheikh 3 . Mohammad Sohail Pervez | Mechanical Engineering | Oil expeller powered by flywheel motor | 19-07-2019 |
| 23 | 2019-20 | Dr. G. M. Asutkar | AIDS | Intruder Motion Detected system | 19/07/2019 |
| 24 | 2018-19 | 1 . Ketan Sanjay Mowade 2 . Dr. Subhash Namdeo Waghmare | Mechanical Engineering | Vortex tube | 10-05-2019 |
| 25 | 2018-19 | 1 . Mr. Krunal Mudafale 2 . Mr. Vishal Kaushik 3 . Dr. Chandrashekhar Nilkhanthrao Sakhale 4 . Mr. Pravin Jadhav 5 . Mr. Shrikant M Awatade 6 . Mr. Anand Nilewar 7 . Dr. Prafulla Choudhari 8 . Mr. Suraj Ghiwe | Mechanical Engineering | Corn stalk removing machine | 19-04-2019 |
| 26 | 2018-19 | 1 . Himanshu Kishor Dhande 2 . Pravin Balkrishnaji Khope | Mechanical Engineering | A solar operated apparatus for grain drying | 01-03-2019 |
| 27 | 2018-19 | 1 . Subhash Namdeorao Waghmare 2 . Chetan Kishor Tembhurkar 3 . Pravin Balkrishnaji Khope | Mechanical Engineering | Multi grain filtration machine | 01-03-2019 |
| 28 | 2018-19 | 1 . Satish Pandharinath Lokhande 2 . Imran Ahemad Khan 3 . Harsh Kumar Dubey 4 . Pravin Balkrushana Khope | Mechanical Engineering | Nutri-metallic clay-ware | 23-11-2018 |



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| | | 5 . Rajat Gulabrao Kawalkar 6 . Nihal Anandrao Tandekar 7 . Nikhil Vilas Chaple 8 . Samish Mahendra Fale | | | |
| 29 | 2018-19 | 1 . Amol Bhumeshwar Ukey 2 . Chandrashekhar Nilkanth Sakhale 3 . Sagar Dnyaneshwar Shelare 4 . Pravin Balkrishnaji Khope | Mechanical Engineering | Integrated ploughing and sowing operation machine | 24-08-2018 |
| 30 | 2018-19 | 1 . Dr.J.P.Modak 2 . Dr.M.P.Singh 3 . Dr.P.R.Rothe 4 . Dr.S.S.Shriramwar 5 . Dr.Mrs.S.W.Varade 6 . Dr.K.B.Porate 7 . Mr.U.E.Hiwase 8 . Ms. B.Shikkewal 9 . Mrs.P.U.Chati 10 . Mr.P.A.Ashtankar 11 . Mrs.A.S.Khobragade 12 . Mrs. A.P.Khandait 13 . Mr.M.S.Giripunge 14 . Mr.Akshay Pachpor | Mechanical Engineering, Electronics Engineering Electronics & Telecommunication Engineering | Process for energizing the process machine by inverter fed motors | 13-07-2018 |
| 31 | 2018-19 | Dr. Mrs. S.W. Varade Dr. Mrs. A.P. Rathkanthiwar | Electronics & Telecommunication Engineering | System For Monitoring and Communication of vibration Signature of Bearings | 17/09/2018 |
| 32 | 2018-19 | Dr. V.K. Taksande | Electronics & Telecommunication Engineering | .New 802.11 KT MAC Protocol for Ad-hoc Network in wireless Communication | 14/06/2018 |
| 33 | 2018-19 | Ms. V.G. Nasare | Electronics & Telecommunication Engineering | Solar Film based device foe reducing the evaporation rate | 05/10/2018 |



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|----|---------|---|---|--|------------|
| 34 | 2018-19 | Ms. V.G. Nasare | Electronics & Telecommunication Engineering | .Brushless DC motor based smart solar air cooler | 02/11/2018 |
| 35 | 2018-19 | Dr.A.P.Rathkantiwar. Mrs.Y.A.Nafde Mrs.P.U.Chati | Electronics & Telecommunication Engineering | Electronic circuit for Elimination of Flywheel from the plant of a Process Machine | 06/04/2018 |
| 36 | 2018-19 | Dr.J.P.Modak Dr. M.P Singh | Mechanical Engineering | Process for energizing the process machine by inverter fed motors | 13/07/2018 |
| 37 | 2018-19 | Dr.S.S.Shriramwar Dr. P.R. Rothe | Electronics Engineering | Feedback control system for controlling Tak up travel time of Belt Conveyor. | 10/03/2018 |
| 38 | 2017-18 | 1 . Dr. Jayant Pandurang Modak 2 . Dr. Mahendra Prasad Singh 3 . Dr. Mrs. A. P. Rathkantiwar 4 . Dr. Mrs. M. V. Vyawahare 5 . Mrs. Y. A. Nafde 6 . Mrs. Punam Umesh Chati 7 . Ms. S. G. Mungale 8 . Dr. G. D. Mehta 9 . Mr. A. Pachpor 10 . Mr. Manish Shyamrao Giripunje | Mechanical Engineering, Electronics Engineering Electronics & Telecommunication Engineering | Electronic circuit for Elimination of Flywheel from the plant of a Process Machine | 06-04-2018 |
| 39 | 2017-18 | 1 . Dr. Jayant Pandurang Modak 2 . Dr. Mahendra Prasad Singh 3 . Dr. Shashank. Shankarrao Shriramwar 4 . Dr. Suchita Wasudeo Varade 5 . Dr. Anuradha Radhakistaiah Kondelwar 6 . Mrs.Punam Umesh Chati 7 . Akshay Anant Pachpor 8 . Dr. Prashant Ramchandra Rothe 9 . Manish Shyamrao Giripunje | Mechanical Engineering, Electronics Engineering Electronics & Telecommunication Engineering | Feedback control system for controlling Tak up travel time of Belt Conveyor. | 16-03-2018 |



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|----|---------|---|---|--|------------|
| | | 10 . Vrushali Ghanshyam Nasre | | | |
| 40 | 2017-18 | 1 . Sagar Dnyaneshwar Shelare 2 . Pravin Balkrishnaji Khope | Mechanical Engineering, | Hand operated charoli nut (Buchanania Lanzan) deshelling machine | 23-02-2018 |
| 41 | 2017-18 | Ms.Krutika Sapkal | Computer Technology | English to Marathi Transliteration | 08-09-17 |
| 42 | 2017-18 | Dr.(Mrs) S.W.Varade Dr.(Mrs) A.R.Kondelwar Mrs.P.U.Chati Ms.V.G.Nasre | Electronics & Telecommunica tion Engineering | 2.Feed Back control system for limiting belt take up travel of belt conveyor | 21/11/2017 |
| 43 | 2017-18 | Dr.S.S.Shriramwar Dr. P.R. Rothe Mrs.A.P. Khandait Mrs.A.S.Khobragade | Electronics Engineering | Improvement in present technique of energizing process machine by inverter fed motors. | 13/07/2018 |
| 44 | 2016-17 | Dr. J.P. Modak Dr. Girish Devilal Me Mr. Akshay Anant Pa | Mechanical Engineering, | Tricycle operated insecticide spraying machine | 07-01-2016 |
| 45 | 2016-17 | Dr. M.P. Singh | Mechanical Engineering, | Portable briquette making machine | 24/03/2017 |
| 46 | 2016-17 | Dr.S.P.Muley | Electronics Power | Single Stage Drive for Three phase solar drive | 09/01/2016 |

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