



## PRIYADARSHINI COLLEGE OF ENGINEERING

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



### PATENT GRANTED SUMMARY (LAST FIVE YEARS)

| SESSION | 2024-25    | 2023-24 | 2022-23 | 2021-22 | 2020-21 | 2019-20 |
|---------|------------|---------|---------|---------|---------|---------|
| NUMBER  | 05<br>(CY) | 14      | 09      | 07      | 04      | 02      |
|         | TOTAL=41   |         |         |         |         |         |

### PATENT GRANTED SUMMARY (LAST THREE YEARS)

| SESSION        | 2024-25<br>(CY) | 2023-24 | 2022-23 | 2021-22 |
|----------------|-----------------|---------|---------|---------|
| Process Patent | 01              | 10      | 03      | 04      |
| Design Patent  | 04              | 04      | 06      | 03      |
| Total          | 05              | 14      | 09      | 07      |
|                | TOTAL=35        |         |         |         |

  
Principal  
Priyadarshini College of Engg.  
Nagpur.



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Fax : 07104 – 237681,



| List of Patent Granted ( Last Five years) |       |                                                                                                             |            |                                                                                   |                 |               |
|-------------------------------------------|-------|-------------------------------------------------------------------------------------------------------------|------------|-----------------------------------------------------------------------------------|-----------------|---------------|
| Sr. No.                                   | Year  | Name of Inventors                                                                                           | Dept       | Title of Patent                                                                   | Date of Granted | Patent Number |
| Session 24-25                             |       |                                                                                                             |            |                                                                                   |                 |               |
| 1                                         | 24-25 | Girish D.Mehta                                                                                              | Mechanical | Conical headed roller bearing                                                     | 26-7-24         | 546134        |
| Session 23-24                             |       |                                                                                                             |            |                                                                                   |                 |               |
| 1                                         | 23-24 | Dr Mahendra S Dhande                                                                                        | Mechanical | Abrasive and air cutting machine                                                  | 28-05-2024      | 539627        |
| 2                                         | 23-24 | Dr J P Modak<br>Dr Angha Ratkantiwar<br>Dr M.P. Singh<br>Dr M V Vyawahare<br>Dr Y A Nafde<br>Dr S G Mungale |            | Electronics circuit for elimination of flywheel from the plant of process machine | 01-5-24         | 536486        |

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|----------------------|-------|-----------------------------------------------------------------------------------|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------|------------|---------------|
| 3                    | 23-24 | Mr. Vivek P Bhangre                                                               | Chemical                          | An iron corrosion removal and method of preparation thereof                                                               | 22-4-24    | 534157        |
| 4                    | 23-24 | Dr Vivek Sonde<br>Pravin Astankar<br>Priyanka Warnekar<br>Mr Vishal Ghutke        | ME<br>Chemistry<br>Civil          | A wood chipper cutter device                                                                                              | 15-3-24    | 528200        |
| 5                    | 23-24 | Leena Patil                                                                       | CSE                               | A method and apparatus capacitating street lighting system independent of power grid by autonomously managing solar power | 01-03-24   | 518599        |
| 6                    | 23-24 | Dr.Nitin S.Ambatkar                                                               | ETC                               | ASTHMA DETECTION DEVICE                                                                                                   | 29-2-24    |               |
| 7                    | 23-24 | Girish D.Mehta<br>Punehkumar U Tembhare<br>Dr. Sagar D Shelare<br>Satish J Tiwari | Mechanical and first year         | A system for Sound Wave packets Generation                                                                                | 14-02-2024 |               |
| 8                    | 23-24 | Dr. Depali Marghade<br>Girish D.Mehta                                             | First year and Mechanical Engg    | Device for designing a human powered flywheel motor based on chilli crusher                                               | 09-01-24   | German Patent |
| 9                    | 23-24 | Dr Sumita Rao                                                                     | Chemistry                         | Strain Removal composition                                                                                                | 14-11-23   | 4688910       |
| 10                   | 22-23 | Prof . Vikrant Vairagade                                                          | Civil                             | Three phase underground cable                                                                                             | 03/08/23   | 442767        |
| <b>Session 22-23</b> |       |                                                                                   |                                   |                                                                                                                           |            |               |
| 01                   | 22-23 | Dr Yogita Nafde                                                                   | Electronics and Telecommunication | A radio Frequency micro-electromechanical System                                                                          | 08/02/23   | 420854        |
| 02                   | 22-23 | Dr Yogita Nafde                                                                   | Electronics and Telecommunication | A radio Frequency micro electromechanical System ( R F MEMS)                                                              | 18/10/22   | 409214        |

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|----------------------|----------------------|----------------------------------------------------------------------------------------------------------|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|------------|
|                      |                      |                                                                                                          |                                    | switch                                                                                                                                                                                    |                                     |            |
| 03                   | 22-23                | Dr Bharti C Burande                                                                                      | Chemistry                          | Green Bio –polymer and method of preparation thereof                                                                                                                                      | 12/09/22                            | 406373     |
| <b>Session 21-22</b> |                      |                                                                                                          |                                    |                                                                                                                                                                                           |                                     |            |
| 01                   | 21-22                | Dr.VivekP. Bhangе                                                                                        | Chemical                           | Adhesive Incorporating Non Bio-Degradable Cellulosic Waste                                                                                                                                | 20/04/22                            | 395012     |
| 02                   | 21-22                | Dr. M. D. Mehare                                                                                         | Applied Physics                    | Synthesis of Blue-emitting Eu <sup>2+</sup> activated Ca <sub>3</sub> Al <sub>2</sub> O <sub>6</sub> Down Conversion Phosphor for White Light Emitting Diodes                             | 01/10/21                            | 378533     |
| 03                   | 21-22                | Dr. M. D. Mehare,                                                                                        | Applied Physics                    | Process for Synthesis of Eu <sup>2+</sup> activated K <sub>6</sub> Ca <sub>4</sub> (SO <sub>4</sub> ) <sub>6</sub> F <sub>2</sub> Down conversion Phosphor for White light Emitting Diode | 17/09/21                            | 377219     |
| 04                   | 21-22                | Mr. Satish Lokhande                                                                                      | Mechanical                         | Modular paddle cart with steering mechanism                                                                                                                                               | 30/04/21                            | 365845     |
|                      | <b>Session 20-21</b> |                                                                                                          |                                    |                                                                                                                                                                                           |                                     |            |
| 01                   | 20-21                | Dr.(Mrs).S.W.Varade                                                                                      | ET Department                      | A disposable paper spittoon with a reusable plastic attachment                                                                                                                            | 13/05/21                            | 366619     |
| 02                   | 20-21                | Dr. LeenaPatil                                                                                           | CSE Dept                           | A machine learning based system for enhancing Computer Network Security                                                                                                                   | 27/10/21                            | 2021105383 |
| 03                   | 20-21                | 1. Dr.(Mrs.) ArchanaDehankar<br>2. Dr.(Mrs.) SnehalS.Golait<br>3Dr P.M.Chaudhari&<br>4.Dr. A.V.Potnurwar | CT Department<br><br>IT Department | AWS-Cloud and Google Big Query Data Performance –Improved using Machine and Deep Learning Programming                                                                                     | <b>Australian Govt.</b><br>21/04/21 | 2021101128 |

|                      |       |                                                                   |                        |                                                                   |                                         |                                 |
|----------------------|-------|-------------------------------------------------------------------|------------------------|-------------------------------------------------------------------|-----------------------------------------|---------------------------------|
| 04                   | 20-21 | 1.Dr.Kazi Syed Zakiuddin                                          | Mechanical Engineering | A Manually Operated Carding Machine                               | <b>Australian Govt IP</b><br>02/12/2021 | Publication Number :<br>46-2020 |
| 05                   | 21-22 | Dr. NitaThakre<br>Dr Anuradha Kondalwar<br>Mrs. Jyotsna P Gabhane | CT                     | Wearable pregnancy monitoring apparatus                           | 30-05-22                                | 361408-001                      |
| 06                   | 21-22 | Roman Motiram Janbandu                                            | Humanity dept          | Electric tooth brush                                              | 30-05-22                                | 361408-001                      |
| <b>Session 19-20</b> |       |                                                                   |                        |                                                                   |                                         |                                 |
| 01                   | 19-20 | Mrs. Bhagyashree Dharaskar,                                       | CSE deptt,             | An Automated Apparatus for Etherification of Liquid-Liquid System | 28/10/ 20                               | 350334                          |
| 02                   | 19-20 | Dr.Kazi Syed Zakiuddin                                            | Mechanical             | Human energized fodder chopper                                    | 15/11/2019                              | 325172                          |

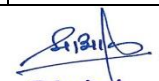
  
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|               | List of Design Patent granted ( Last Three years) |                                                               |            |                                                        |                 |               |
|---------------|---------------------------------------------------|---------------------------------------------------------------|------------|--------------------------------------------------------|-----------------|---------------|
| Sr. No.       | Year                                              | Name of Inventors                                             | Dept       | Title of Patent                                        | Date of Granted | Patent Number |
| Session 24-25 |                                                   |                                                               |            |                                                        |                 |               |
| 1             | 2024-25                                           | Dr Rashmi Keswani<br>Dr Ujwala Malkhandale<br>Dr Umesh Hiwase | Electrical | Solar power sensor device for soil moisture monitoring | 13-12-24        | 430892-001    |
| 2             | 2024-25                                           | Dr Umesh Hiwase<br>Dr Rashmi Keswani<br>Dr Ujwala Malkhandale | Electrical | Solar powered agriculture E vehicle                    | 02-12-24        | 431375-001    |
| 3             | 2024-25                                           | Dr Ujwala Malkhandale<br>Dr Rashmi Keswani<br>Dr Umesh Hiwase | Electrical | Solar based Irrigation system                          | 26-08-24        | 419004-001    |

|                      |         |                                                    |                  |                                                                   |            |              |
|----------------------|---------|----------------------------------------------------|------------------|-------------------------------------------------------------------|------------|--------------|
| 4                    | 2024-25 | Dr M.P. Joshi                                      | Chemistry        | Power Transmission Machine                                        | 24-6-24    | 3860106-0010 |
| <b>Session 23-24</b> |         |                                                    |                  |                                                                   |            |              |
| 1                    | 23-24   | Pranali Nitnaware                                  | IOT              | Machine learning based human oil device for object identification | 10-04-2024 | 6356365      |
| 2                    | 23-24   | Minal D Karalkar                                   | Electrical       | Solid state circuit beaker for nano grid                          | 15-2-24    | 402533-001   |
| 3                    | 23-24   | Priya Meshram<br>Pranali Nitnaware<br>Pranali Mane | Computer Science | Circuit maker machine                                             | 31-01-24   | 401728-001   |
| 4                    | 23-24   | Ms sharda Mungale                                  | IOT              | Intelligent plastic shorting machine set                          | 18-01-24   | 400657-001   |
| <b>Session 22-23</b> |         |                                                    |                  |                                                                   |            |              |
| 1                    | 22-23   | Miss Payal Baitule                                 | Chemical         | Multichambered Device to perform hydro-chemical -analysis         | 27-12-23   | 397635-001   |
| 2                    | 22-23   | Dr Vijaya Balpande                                 | CSE              | Measuring wheel                                                   | 30-10-23   | 396212-001   |
| 3                    | 22-23   | Dr Vijaya Balpande                                 | CSE              | Window cleaning device                                            | 30-10-23   | 396214-001   |
| 4                    | 22-23   | Dr Vijaya Balpande                                 | CSE              | Network analyser                                                  | 30-10-23   | 394502-001   |

|   |         |                                                                                                |                      |                                         |            |            |
|---|---------|------------------------------------------------------------------------------------------------|----------------------|-----------------------------------------|------------|------------|
| 5 | 22-23   | Dr Ujwala Malkhandale                                                                          | Electrical           | Smart Dumbbell                          | 27-1-23    | 375338-001 |
| 6 | 2021-22 | Mr Vikarnt Vairagade                                                                           | Civil                | Three Way valve                         | 22-6-22    | 361035-001 |
|   |         |                                                                                                | <b>Session 21-22</b> |                                         |            |            |
| 1 | 21-22   | Dr Chandrashekhar Sakhale<br>Dr Shrikrishna A Dhale                                            | Mech<br>Civil        | Solar operated desiccant Dryer          | 25-05-22   | 360240-001 |
| 2 | 21-22   | Roman Janbhdu                                                                                  | First yr             | Electric tooth brush                    | 30-5-2022  | 361408-001 |
| 3 | 21-22   | Dr.(Mrs.) Nita Thakare<br>Mrs. Jyotsana Gabhane<br>Mrs. Rubana Khan<br>D.(Mrs.) A.R. Kondelwar | CT                   | Wearable Pregnancy Monitoring Apparatus | 24/03/2022 | 356913-001 |

  
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