

PRATHYUSHA ENGINEERING COLLEGE
DEPARTMENT OF RESEARCH AND DEVELOPMENT
LIST OF PATENTS FILED AND PUBLISHED

| S.no | Year of publication | Name | Dept | Patent Title | Patent Status | Patent No. | Date of Filing | Published on |
|------|---------------------|----------------|------|--|--------------------------|--------------|----------------|--------------|
| 1. | 2020 | Dr.Chitra | CSE | A System And Method To Prevent Unconscious Driving Behaviours | Published in IPR journal | 202041042968 | 03/10/2020 | 09/10/2020 |
| 2. | 2020 | Dr.V.R.Kavitha | CSE | A Quality Of Service Load balanced Connected Dominating Set - Stochastic Diffusion Search Network Backbone for MANET | Published in IPR journal | 202041049905 | 16/11/2020 | 27.11.2020 |
| 3. | 2020 | Dr.V.R.Kavitha | CSE | A WEARABLE JACKET FOR MANAGING SOCIAL DISTANCING USING BLOCKCHAIN TECHNOLOGY | Published in IPR journal | 202011046428 | 24/10/2020 | 06/11/2020 |
| 4. | 2020 | Dr.Arun | ECE | WATER CONSUMPTION CONTROL SYSTEM FOR IRRIGATION BASED ON IoT | Granted | 2020102249 | 15/09/2020 | 29/10/2020 |
| 5. | 2020 | Dr.Arun | ECE | CONTINUOUS ENERGY SUPPLY TO HOUSE HOLD APPLIANCES THROUGH UNINTERRUPTED POWER METER | Granted | 2020102346 | 20/09/2020 | 29/10/2020 |
| 6. | 2020 | Dr S Arun | ECE | An Approach for automatic emotion detection of child Autism spectrum | Published in IPR journal | 202041020719 | 16/05/2020 | 05/06/2020 |

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| | | | | disorder using ML | | | | |
| 7. | 2020 | Dr S Arun | ECE | An Analytical method for health risk prediction of a patients health in real time using ML | Published in IPR journal | 202041021783 | 24/05/2020 | 05/06/2020 |
| 8. | 2020 | Dr S Arun Dr.S.PadmaPriya R Thiagarajan, | ECE CSE | A Novel method to transmit the electronic medical records in secure cloud environment using Block chain Encrypted data sharing | Published in IPR journal | 202041017312 | 22/04/2020 | 05/06/2020 |
| 9. | 2020 | Dr S Arun Dr.S.PadmaPriya | ECE CSE | An approach for empowering edge computing for source allocation based learning for industrial IoT | Published in IPR journal | 202041023028 | 02/06/2020 | 16/06/2020 |
| 10. | 2020 | Dr S Arun Dr.S.PadmaPriya | ECE CSE | An approach for high speed and secure back propagation learning using upright partitioned data with IoT | Published in IPR journal | 202041022294 | 28/05/2020 | 16/06/2020 |
| 11. | 2020 | Dr S Arun Dr.S.PadmaPriya | ECE CSE | A SMART SECURE, SELF POWERED AND LOCATABLE FIXED POD FOR ENABLING LACTATION TO INFANTS | Published in IPR journal | 202041002997 | 21/01/2020 | 31/01/2020 |
| 12. | 2020 | Mr E U Iniyar Mr K Shankar | ECE CSE | DESIGN OF IOT AND FOG BASED SYSTEM FOR REMOTE ELDERLY HEALTH MONITORING | Published in IPR journal | 202041032536 | 29/07/2020 | 21/08/2020 |

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|-----|------|---|------------|---|--------------------------|--------------|------------|------------|
| 13. | 2020 | Dr.K.Sathiyasekar Ms.M.Preetha Ms.T.Mathumathi | EEE | Power Scheduling of Micro Grid in Radial Distribution System | Published in IPR | 202041009636 | 06/03/2020 | 24/04/2020 |
| 14. | 2020 | Dr.K.Sathiyasekar | EEE | System for Solar Powered Automated Multitasking Robot for Agricultural Applications | Published in IPR | 202041025510 | 17.06.2020 | 03.07.2020 |
| 15. | 2020 | Dr. P.L.N. Ramesh Dr.K.Sathiyasekar Ms.S.Shobana M.Preetha | EEE | IoT Based Smart Automated Aquaponics System | Published in IPR | 202041028086 | 01/07/2020 | 10/7/2020 |
| 16. | 2020 | Dr.K.Sathiyasekar | EEE | A Restricted Elementary care in the Healthcare System with Blockchain Technology | Published in IPR | 202041028431 | 03.07.2020 | 17.07.2020 |
| 17. | 2020 | Dr.K.Sathiyasekar | EEE | A Smart Energy Metering System using Internet of Things | Published in IPR | 202041068487 | 25.12.2020 | waiting |
| 18. | 2020 | Dr.K.Sathiyasekar | EEE | A method for Rainfall Prediction using Artificial Neural Network | Published in IPR | 202011068486 | 25.12.2020 | 01.01.2021 |
| 19. | 2019 | Dr.V Jayaseelan | Mechanical | DESIGNING AND CONTROLLING OF ELECTRO HYDRAULIC BRAKING SYSTEM WITH ENHANCED PERFORMANCE | Published in IPR journal | 201941051702 | 13.12.19 | 20.12.19 |
| 20. | 2020 | Dr.V Jayaseelan | Mechanical | NOVEL DESIGN OF PNEUMATIC PICK AND | Published in IPR journal | 202021004729 | 3.2.20 | 7.2.20 |

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| | | | | PLACE ROBOTIC ARM FOR MANUFACTU RING APPLICATION | | | | |
| 21. | 2020 | Dr.V Jayaseelan | Mechanic al | DESIGN OF COMPRESSIO N MACHINE FOR EFFECTIVE PHASE CHANGE OF RAPID AUTO IGNITION | Published in IPR journal | 202041025368 | 26.12.19 | 3.1.20 |
| 22. | 2020 | Ms.J.Omana | CSE | RECOMMEND ATION OF DOCTORS BASED ON THE RATINGS AND TRACKING STATUS OF DOCTORS AVAILABILIT Y TO HANDLE THE PANDEMIC SITUATIONS | Published in IPR | 202041057559 | 31.12.2020 | 05-02-2021 |
| 23. | 2020 | Ms.J.Omana Ms.B.Gunasund ari Ms.C.Kamatchi Mr.I.Mohan Mr.R.Thiagaraja n | CSE | Situation driven automatic agricultural robot for irrigation, row guidance and monitor of crops | Published in IPR | Application No: 202041018842 A | 2.5.2020 | 5.6.2020 |

PRATHYUSHA ENGINEERING COLLEGE
DEPARTMENT OF RESEARCH AND DEVELOPMENT
LIST OF INTERNATIONAL PATENTS GRANTED

| S.no | Year of publication | Name | Dept | Patent Title | Patent Status | Patent No. | Date of Filing | Published on |
|------|---------------------|----------------------------|------------|---|---------------|------------|----------------|--------------|
| 1. | 2020 | Dr.R. Surekha | Physics | Reduction of heat flux AI water nanofluids used to cool the electronic panels | Granted | 2020104017 | 11/12/2020 | 11/12/2020 |
| 2. | 2020 | Dr.Arun Dr.S.PadmaPriya | ECE CSE | Secure communication among Iot Devices through IoT Coin Operation System | Granted | 2020102441 | 26/09/2020 | 12/11/2020 |
| 3. | 2020 | Dr.V Jayaseelan | Mechanical | Conformable auxetic fixtures for drilling of brittle materials | Granted | 2020103028 | 27.10.20 | 9.12.20 |
| 4. | 2020 | Dr S Arun | ECE | Design Of A Collapsible And Portable Lactation Module For Mothers | Granted | 2020102046 | 28/08/2020 | 28/08/2020 |
| 5. | 2020 | Dr S Arun | ECE | Water Consumption Control System For Irrigation Based On IoT | Granted | 2020102249 | 15/09/2020 | 15/09/2020 |
| 6. | 2020 | Dr S Arun | ECE | Continuous energy supply to house hold appliances through uninterrupted power Meter | Granted | 2020102346 | 20/09/ 2020 | 20 /09/ 2020 |
| 7. | 2020 | Dr S Arun | ECE | Design And Development Of A Smart Suite For Assisting The Pregnant Women | Granted | 2020102194 | 09/09/2020 | 09/09/2020 |

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LIST OF PATENTS APPLIED

| S.No. | Name of the Applicant | Application Number | Title of Invention | Date of Filing Application | Date of Publication |
|--------------|-------------------------------------|---------------------------|---|-----------------------------------|----------------------------|
| 1 | Dr.M.GopiKrishnan Ms.V.R.Kavitha | 201941041035728 | Classification of Dyslexia children using machine learning | 05-09-2019 | Yet to be Published |