

IP Portfolio of Andhra University as on 20-05-2023

Patents

| S.No | Application/ Patent Number | Title of the invention | Inventors Name | Dept | Date of Filing/Priority | Status |
|-------------|---|--|--|-------------------------|------------------------------------|---------------|
| 1 | 6722/CHE/2015 318485 | Process for phenol removal through adsorption and biodegradation | 1. Prof. V. Sridevi 2. Dr.M.V.V. Chandana Lakshmi | Chemical Engineering | 15-12-2015 | Granted |
| 2 | 201941015161 | Armour Assembly System for Breakwaters | Prof.Mutukuru Gangireddy | Civil Engineering | 16-04-2019 | Published |
| 3 | 201941016562 | Portable Biosensor for Type2 Diabetes | 1. Dr.Aparanji Poosarla 2. Mokka Jagannadha Rao 3. Kolla Venkata Atchuta Rao | Bio Chemistry | 25-04-2019 | Published |
| 4 | 201941016571 | Anti-arthritis compound and its making process | Dr.Aparanji Poosarla | Biochemistry | 26-04-2019 | Published |
| 5 | 201941019966 | Flow Field Design for Proton Exchange Membrane Fuel Cell | 1. K.Satish Raj 2. Shaik Shadulla 3. Dr. S. V. Naidu | Chemical Engineering | 20-05-2019 | Published |
| 6 | 201941053099 | Peroral dye tablets for endoscopy and method of preparation thereof | Dr. Sarada Anepu | Pharmaceutical Sciences | 20-12-2019 | Published |
| 7 | 202141020552 | A method for designing foundations of industrial structures and structures | Dr C.N.V. Satyanarayana Reddy | Civil Engineering | 05-05-2021 | Published |

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|------|----------------------------------|---|--|------------------------|----------------------------|-----------|
| | | subjected to dynamic loads | | | | |
| 8 | 202141037361 | A System and Method for Detecting Cloud Transients, Cloud Density Using Optimized Solar Tracking System | 1. Venkatarao Dadi 2. Dr. Swapna Peravali 3. Paruchuri. Srinivas 4. Anusha Pediredla 5. Jalalu Gunturu 6. YV Bhaskara Lakshmi | Instrument Technology | 17-08-2021 | Published |
| 9 | 202141052602 | Floating solar analysis with electrolyzer and fuel cell an efficient analysis using MAYFLY algorithm | 1.Arava Madhubabu 2.Dr.G.V. Siva Krishna Rao | Electrical Engineering | 16-11-2021 | Published |
| 10 | 202141058294 | Proteolysis Targeting Chimera Based Composition for Gastritis and Gastric Ulcers | 1. Dr.Ravikiran S.Yedidi 2. Aggunna Madhumita | TCABSE | 14-12-2021 | Published |
| 11 | 202141058694 | Investigation of optimized MPPT controllers for hydrogen energy storage based floating solar PV system | 1.Arava Madhubabu 2.Dr.G.V. Siva Krishna Rao | Electrical Engineering | 16-12-2021 | Published |

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|------|----------------------------------|--|--|--------------------------|----------------------------|-----------|
| 12 | 202241004342 | Design and performance analysis of dc-dc converter control for induction motor fed electric vehicle | 1. A. Bala Venkata Sravan Kumar 2. Dr. Gadi Venkata Siva Krishna Rao | Electrical Engineering | 26-01-2022 | Published |
| 13 | 202241003751 | Generalized approach for DCPWM based dual inverter fed OEWIM-DTC drive | 1. Dr. R. SRINU NAIK 2. Mrs M Nalini Devi | Electrical Engineering | 23-01-2022 | Published |
| 14 | 202241000066 | RERNN-BCMO based load frequency control in multi-area power system using fusion renewable energy sources | 1. Arshad Mohammed 2. Dr. Ramavathu Srinu Naik | Electrical Engineering | 01-02-2022 | Published |
| 15 | 202241012346 | Pyrrole Derivative-based Antidepressant Composition | 1. Anjani Umarani Wunnava 2. Muthyala Murali Krishna Kumar 3. Kilari Eswar Kumar | Pharmaceutical Chemistry | 07-03-2022 | Published |
| 16 | 202241013176 | Shuffled Differential Evolution-Based Combined Heat and Power Economic Dispatch | 1. Dr. R. Srinu Naik 2. Subuddi Nagaraju | Electrical Engineering | 10-03-2022 | Published |
| 17 | 202241015341 | Modified bull optimization algorithm | 1. Ijjada Ramesh 2. G. V. Siva Krishna Rao | Electrical Engineering | 21-03-2022 | Published |

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| | | to increase hybrid system performance | | | | |
| 18 | 202241020111 | Combined Heat and Power Emission Dispatch (SHPEmD) using Shuffled Differential Evolution Algorithm | 1. Dr. R. Srinu Naik 2. Subuddi Nagaraju | Electrical Engineering | 03-04-2022 | Published |
| 19 | 202244022591 | Multi-functional Cost- effective Smart Pole for Early Flood Detection and Rescue Operations | 1. Dr. Rajesh Duvvuru 2. Dr. Peddada Jagadeeswara Rao 3. Dr. Boyifi Suribabu 4. Dr. Gudikandhula Narasimha Rao 5. Mrs. Kodamala Prathyusha 6. Mr. Bangaru Balakrishna 7. Mrs. Kondapalli Beulah 8. Mr. Motru Vijaya Raju 9. Mr. Kote Ashok 10. Mr. Golla Yedukondalu | Geographical Engineering | 17-04-2022 | Published |
| 20 | 202241026378 | A Novel Method of SLA Violations Prevention using | 1. Prof.M.James Stephen 2. Mr.K.Sudhakar | CSE | 06-05-2022 | Published |

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| | | Optimized Advanced Greedy Heuristic Approach | 3. Prof. P.V.G.D.Prasad Reddy | | | |
| 21 | 202241026455 | Bioactive Feed Additive for Vibrio Infections in Crustaceans and Method of Preparation for the Same | 1. Dr. Sunil Kumar Duddu 2. Dr. Janakiram Pasupuleti | Marine Living Resorcuces | 06-05-2022 | Published |
| 22 | 202241028779 | Hybrid algorithm based method for distribution of nodes using 5G networks | 1. Vaddiparti Phani Raja Mouli 2. Dr. Jhansi Rani Singothu | Computer Science and Systems Engineering | 19-05-2022 | Published |
| 23 | 202241032103 | Method and system for detecting fake news using deep learning and topic modelling techniques | 1. Dr. Mary Sowjanya Alamanda 2. Juthuka Aruna Devi | Computer Science & Systems Engineering | 04-06-2022 | Published |
| 24 | 202241037803 | An efficient generative process modelling for summarization of bible data towards sentiment analysis | 1. Vasantha Kumari Garbhapu 2. Prajna Bodapati | Computer Science & Systems Engineering | 30-06-2022 | Published |
| 25 | 202241040734 | Artificial Intelligence (AI) Enabled System Reconfiguration on Chip (SoC) Architecture and Method Thereof | 1. Chiranjeevi Rao 2. Bhujanga Rao | Instrument Technology | 16-07-2022 | Published |

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|------|----------------------------------|--|---|---|----------------------------|-----------|
| 26 | 202241041681 | Quality of Service based Resource Allocation in Cloud Computing using Genetic Algorithm | 1. Prof.M.James Stephen 2. Mr. Prasad Devarasetty 3. Prof. P.V.G.D.Prasad Reddy | CSE | 21-07-2022 | Published |
| 27 | 202241043767 | Preparation of e-glass fibre reinforced epoxy based hybrid composites filled with rha/wda/rhawda for water tank and roof sheet manufacturing | 1. Mr. Vidya Sagar Battula 2. Dr. K. Venkata Subbaiah | Mechanical Engineering | 30-07-2022 | Published |
| 28 | 202241045306 | Hardware implementation for realization of cdma technologies | 1. Sarisolla Rama Devi 2. Prof. M. Satya Anuradha 3. Dr. S. Aruna | Electronics & Communication Engineering | 08-08-2022 | Published |
| 29 | 202241046330 | A novel reinforced aa2195 based metal matrix composite for space applications | 1. Srinivasa Rao M 2. Dr. K. T. Balaram Padal | Mechanical Engineering | 15-08-2022 | Published |
| 30 | 202241046901 | Combined integer and discrete wavelet transform with harris hawk's optimization for color image watermarking | 1. Mrs. Sharon Rose Victor 2. Prof. P.Rajesh Kumar 3. Prof. K.V.V.S Reddy | ECE | 18-08-2022 | Published |

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|------|----------------------------------|---|--|--|----------------------------|-----------|
| 31 | 202241046903 | Tongue-net: integrated deep cnn with color and texture feature extraction for computer aided tongue diagnosis system | 1. Sreerama Prasad Chellubona 2. Dr. Kunjam Nageswara Rao 3. Dr. Sitaratnam Gokuruboyina | Computer Science & Systems Engineering | 18-08-2022 | Published |
| 32 | 202241047825 | A High strength hot-rolled and heat treated Aluminium AA2195 alloy-based Metal matrix composite and manufacturing process | 1. Srinivasa Rao . M 2. Dr. K. T. Balaram Padal | Mechanical Engineering | 23-08-2022 | Published |
| 33 | 202241048626 | A Viable alternative to cement in concrete production | 1. Reshma Malipeddi 2. Dr. Siragam Adishesu | Civil Engineering | 25-08-2022 | Published |
| 34 | 202241012665 | A system and device for nodal distribution and movement in a 5G mobile network using different methods. | 1. Vaddiparti Phani Raja Mouli 2. Dr. Jhansi Rani Singothu | Computer Science and Systems Engineering | 03-09-2022 | Published |
| 35 | 202241032960 | Metal-Free Hydrogen Sensor and Method of Fabrication Thereof | 1. Dr. Suresh Babu Kalidindi 2. Ms. Thokala Nany 3. Ms. Valle Krishnaveni 4. Prof. K. Basavaiah | Chemistry | 06-09-2022 | Published |

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|------|----------------------------------|--|---|--|----------------------------|-----------|
| 36 | 202241051811 | Plant disease classification using transfer learning | 1. Chintala Lakshmi Narayana 2.Kondapalli Venkata Ramana | Computer Science & Systems Engineering | 11-09-2022 | Published |
| 37 | 202241054771 | Concrete comprising of recycled aggregate concrete M20& M25 grades and m-sand for environmental sustainability | 1. Prudvi Kuppili 2. D S R Murty | Civil Engineering | 24-09-2022 | Published |
| 38 | 202241013120 | The picture wise just noticeable difference (PJND) using shallow deepconvolutional Neural networks (SD-CNN) | 1. Sekharamahanti S Nandini 2. Dr. Jhansi Rani Singothu 3. Prof. Meka James Stephen | Computer Science and Systems Engineering | 03-10-2022 | Published |
| 39 | 202241045585 | Mechanical and Durability Characteristics of Cementitious Graded Gravel Soils by Curing Methods | 1. Chandra Sekar Ganja 2. Prof. Pasalapudi Veera Venkata Satyanarayana | Civil Engineering | 08-10-2022 | Published |
| 40 | 202241058152 | Ferrochrome slag and quarry dust mixtures as flexible pavement material | 1. CH AJAY 2. K DURGA RANI | Civil Engineering | 12-10-2022 | Published |
| 41 | 202241059041 | Concrete comprising of recycled aggregate concrete M30 & M35 grades and M-sand with nano-silica | 1. Prudvi Koppuli 2. Prof. DSR Murthy | Civil Engineering | 16-10-2022 | Published |

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| 42 | 202241059042 | Enhancing the strength of concrete by optimal usage of colloidal silica | 1. Gedela Prassanna Kumar 2. Dr.K. Rajasekhar | Civil Engineering | 16-10-2022 | Published |
| 43 | 202241060684 | Iron cinder based light weight green concrete | 1. Shahazadi Begum 2. Dr. Shaik Yajdani | Civil Engineering | 25-10-2022 | Published |
| 44 | 202241062269 | Effect of recycled aggregate concrete on elevated temperature for lower grades (m20, m25) | 1. Prof. D.S.R. Murthy 2. Prudvi Kuppili | Civil Engineering | 01-11-2022 | Published |
| 45 | 202241062748 | Prediction of urbanization expansion and change analysis of land use land cover by using open-source GIS | 1. Kunchala Kalyani 2. M. G. Muni Reddy | Civil Engineering | 03-11-2022 | Published |
| 46 | 202241064394 | Ternary blended concrete using ground pond ash and dolomitic limestone powder | 1. S. Sowjanya 2. S. Adishesu | Civil Engineering | 10-11-2022 | Published |
| 47 | 202241065829 | Effects of curing compound on the strength and durability characteristics of concrete with M-sand | 1. Prof. D.S.R. Murthy 2. Prudvi Kuppili | Civil Engineering | 16-11-2022 | Published |
| 48 | 202241074145 | Rest API for finding reinforcement percentage using limit state method for singly | Ramesh, K V N Murty, D S R | CSE | 21-12-2022 | Published |

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| | | reinforced rectangular beam sections in flexure based on Indian standard codes | | | | |
| 49 | 202241074146 | Concrete comprising of nano-silica in M30 & M35 grades | Sujatha, T Murty, D S R | Chemical Engineering | 21-12-2022 | Published |
| 50 | 202341000694 | Recycled aggregate concrete for high temperature applications | Murty, Dsr Prudvi, K | CIVIL Engineering | 04-01-2023 | Published |
| 51 | 202341004289 | Durable concrete with 40% recycled aggregate and PPC cement | Murty, D S R Prudvi, K | CIVIL Engineering | 21-01-2023 | Published |
| 52 | 202341004290 | Durable concrete with 60% recycled aggregate and PPC cement | Murty, D S R Prudvi, K | CIVIL Engineering | 21-01-2023 | Published |
| 53 | 202341008573 | A Probiotic Vaccine for Preventing Coronavirus Infection and Preparation Method Thereof | 1. Ms.Madhuri Vissapragada 2. Aggunna Madhumita 3. Dr. Ravikiran S. Yedidi | TCABSE | 09-02-2023 | Published |
| 54 | 202341011399 | Hybrid firework-based genetic optimization with PTS for PAPR reduction in MIMO-OFDM system | 1. Owk Srinivasulu 2. Prof. P. RAJESH KUMAR | Electronics & Communication Engineering | 20-02-2023 | Published |

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|------|----------------------------------|--|---|--|----------------------------|-----------|
| 55 | 202341013662 | A compact Inset-Fed 2x 2 E-shaped patch antenna array with and without DGS for high frequency multiband applications | 1. Pavada Santosh 2. Swetha Velicheti 3. Dr. P. Mallikarjuna Rao 4. Dr.M.Satya Anuradha | Electronics & Communication Engineering | 01-03-2023 | Published |
| 56 | 202341013737 | Conformal Log Periodic Array Antenna with rectangular patch top loading for Multi Band Applications | 1. Swetha Velicheti 2. Pavada Santosh 3. Dr. P. Mallikarjuna Rao 4. Dr.M.Satya Anuradha | Electronics & Communication Engineering | 01-03-2023 | Published |
| 57 | 202341014008 | An Apparatus and Method for Digitizing an Organism for Obtaining Morphological Measurements | Sherif Sayed Ahmed | Zoology | 02-03-2023 | Published |
| 58 | 202341015104 | A novel system for secure data transmission over a network based on code generation and working method thereof | 1)Dr. B. R. Ambedkar Chair- Andhra University 2)Prof. James Stephen Meka 3)Mr. Ravikumar Inakoti 4)Prof. Prasad Reddy P.V.G.D. | Computer Science and Systems Engineering | 07-03-2023 | Published |

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|------|----------------------------------|---|--|----------------------|----------------------------|-----------|
| 59 | 202341016436 | Road drains made with pervious concrete composition and method thereof | 1. Mr.Pendyala Stephen 2. Dr.Vazeer Mahammood 3. Dr.S.Adishesu | Geo - Engineering | 12-03-2023 | Published |
| 60 | 202341016993 | Determination of modified correlation of shear strength parameters of coarse and fine grained soils based on SPT (N1)60 for Gujarat soils | 1. Phanindra SK 2.lakshmi M 3.Chirla N V Satyanarayana Reddy | Civil Engineering | 14-03-2023 | Published |
| 61 | 202341017482 | An Atherosclerotic Plaque Detection Kit and Method of Early Detection of Arterial Plaques in Patients | 1. Hemsai Yadav Palla 2. Manikanta Sodasani 3. Dr. Ravikiran S. Yedidi | TCABSE | 15-03-2023 | Filed |
| 62 | 202341020594 | Strength properties and microstructural analysis of M20 grade lightweight concrete | 1.Shahazadi Begum 2.Shaik Yajdani | Civil Engineering | 23-03-2023 | Published |
| 63 | 202341024088 | A Measuring Scale for Determining COVID-19-Related Distress | 1.Sr. Prof. MVR. Raju 2.G. Sarvani 3.S. Srivishnu | Psychology | 30.03.2023 | Published |

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| | | and Anxiety Symptoms and Method Thereof | Manjari 4.V. Damodara Rao | | | |
| 64 | 202341024089 | An Aspergillus Based Fungal Strain Culture for Degrading Low Density Polyethylene (LDPE) and Method Thereof | 1.Dr. M.V.V. Chandana Lakshmi 2.Dr. Mulla Vinuthna | Chemical Engineering | 30.03.2023 | Published |
| 65 | 202341024090 | A Composition for Treating Pancreatic Cancer and Method of Preparing the Same | 1.Dr. Swathi Putta 2.Dr. Eswar Kumar Kilari | Pharmaceutical Sciences | 30.03.2023 | Published |
| 66 | 202341024091 | A Composition for Antiretroviral Therapy (ART) and Method of Preparing the Same | 1.Mr. Chintalapati S. Verraju 2.Dr. Bonige Kishore Babu | Engineering Chemistry | 30.03.2023 | Published |
| 67 | 202341024092 | A Deet-free Poly Herbal Mosquito Repellent Composition and Method of Preparing the Same | 1.Dr. K. Eswar Kumar 2.B. Rama Devi | Pharmaceutical Sciences | 30.03.2023 | Published |
| 68 | 202341024093 | A Transparent Conductive Electrode and Method of Preparing the Same Using a Green Synthesis Process | 1.Mrs. Y. V. Bhaskara Lakshmi 2.Dr. Y. Srinivasa Rao 3.Dr. P. Swapna | Instrument Technology | 30.03.2023 | Published |
| 69 | 202341024977 | Method of Neutralization of | 1. K. Tulasi 2. C.N.V. | Civil Engineering | 31.03.2023 | Published |

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|------|----------------------------------|--|------------------------|------|----------------------------|--------|
| | | Phospogypsum for use in a Base lining System of Phospogypsum Dumping Yard | Satyanarayana Reddy | | | |

Designs & Trademarks

| S.No | IP Number | Design/Trademark Name | Proprietor | Date of granting |
|------|----------------------|---|----------------------|---------------------|
| 1 | 380127-001 | WATER FILTER CARTRIDGE | Andhra University | 25-02-2023 |
| 2 | 5458223 & 5458224 | Andhra University- Word Mark Andhra University- Logo | Andhra University | 23-03-2022 |