



Indra Ganesan

COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
Accredited by NAAC with 'B+' Grade, 2(f) & 12B Status Institution by UGC

IG Valley, Madurai Main Road, Manikandam, Tiruchirappalli - 620012

NAAC DOCUMENTS

QUALITY INDICATOR FRAME WORK

CRITERION – 3

RESEARCH, INNOVATIONS AND EXTENSION

SUBMITTED BY

IQAC

INTERNAL QUALITY ASSURANCE CELL

INDRA GANESAN COLLEGE OF ENGINEERING





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|-------------------|---|------------|
| Criteria 3 | Research , Innovations and Extension | 110 |
|-------------------|---|------------|

Key Indicator 3.2- Innovation Ecosystem

3.2.1 Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge (patents filed, published, incubation center facilities in the HEI to be considered)

| S.No | Title of the Patent Applied | Department | Patent Document No |
|-------------|---|-------------------|---------------------------|
| 1. | Sensor Based Robot For Uv-C Disinfection | Chemistry | 6296264 |
| 2. | New Copper Catalysts For High Efficiency Click Chemistry Reactions | Chemistry | 2023410666666 |
| 3. | Analysis Of The Impact Of Bismuth Ferrite Perovskite Based Advanced Nanomaterials With State Of The Art Photo Catalytic Performance In Water Clean Up Through Deep Learning | Chemistry | 202311054377 |
| 4. | Development Of Solar Cum Human Powered Agro Vehicle | Chemistry | 202341034263 |
| 5. | An Automated Embedded System Based Cloth Pressing Techniques | CSE | 202141008637 A |
| 6. | Stereo Vision Based Electronic Travel Aid | CSE | 202141042390 |

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|-----|---|-----------|--------------|
| 7. | Development Of Ploughing And Seed Sowing Robotfor Groundnut Crop | MECH | 202141040900 |
| 8. | Bundmakingmoblemanipulatorforpaddycultivation | MECH | 202141034652 |
| 9. | Smart Dust Collecting Servant Robots For Dinninghalls, | MECH | 202141003321 |
| 10. | Qis Direct Seed Sowing Walker Robot For Paddycrop, | MECH | 202141003321 |
| 11. | Novel ploughing machine for crops from bike engine | MECH | 202041055477 |
| 12. | Vehicle To Vehicle Interactive Induction Charging For E-Mobility | CSE | 202241006662 |
| 13. | Smart Network Optimization Technic Pechnique To Redrieve Data Overcloud By Uploding The Related Images | Chemistry | 202141001093 |
| 14. | Deep Learning Based Techniques Integrated With Nanotechnology Approach To Study The Effect Of Topical Creams For Treating Blood Cancer Nodes | Chemistry | 202141008637 |
| 15. | IOT Based Real Time Health Care System Enable By Wearable Sensor Network | Chemistry | 202111002807 |
| 16. | Vehicle To Vehicle Interactive Induction Charging For E-Mobility | Chemistry | 202241006662 |
| 17. | A Smart Vehicle Running By Renewable Energy Sources | Chemistry | 202241014136 |
| 18. | Deep Learning Based Techniques Integrated With Nanotechnology Approach To Study The Effect Of Topical Creams For Treating Blood Cancer Nodes | Chemistry | 202241047319 |
| 19. | Techniques Of Green Fabrication Of Stable Lead Free Bismuth Based Perovskite Solar Cells Using A Non Toxic Sovent | Chemistry | 202341003877 |

Patent Received Details

| S.No. | Title of the Patent Received | Department | Patent Design No. |
|-------|---|------------|-------------------|
| 1 | Garbage Segregating Device Using Image Processing | CSE | 405822-001 |
| 2 | Construction Material Testing Device | Physics | 411320-001 |



Figure. Garbage Segregating Device Using Image Processing Patent Received Proof



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Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012

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Figure. Construction Material Testing Device Patent Received Proof



List of programme conducted by IPR Cell of IGCE

| S.No | Year | Name of the workshop/ seminar towards IPR | Number of Participants | Date From – To | Link to the Activity report on the website |
|--------------------------------|-----------|--|------------------------|----------------|--|
| ACADEMIC YEAR 2022-2023 | | | | | |
| 1 | 2022-2023 | Intellectual Property Law & Policy | 161 | 20.08.2022 | View |
| 2 | 2022-2023 | Patent Law | 156 | 22.07.2023 | View |
| ACADEMIC YEAR 2021-2022 | | | | | |
| 3 | 2021-2022 | Data Privacy & Intellectual Property | 174 | 21.08.2021 | View |
| 4 | 2021-2022 | The Impact of Artificial Intelligence On IPR | 167 | 12.02.2022 | View |
| ACADEMIC YEAR 2020-2021 | | | | | |
| 5 | 2020-2021 | Block Chain Technology and its Role in Protecting Intellectual Property | 158 | 29.08.2020 | View |
| 6 | 2020-2021 | The Role of Intellectual Property in Promotive Innovation at Economic Growth | 134 | 13.02.2021 | View |



ACADEMIC YEAR 2019-2020

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|---|-----------|--|-----|------------|----------------------|
| 7 | 2019-2020 | Evolving Patent Laws In The Era of Biotechnology | 179 | 17.08.2019 | View |
| 8 | 2019-2020 | Digital Copyright Issues In The Age of Online | 154 | 08.02.2020 | View |

ACADEMIC YEAR 2018-2019

| | | | | | |
|----|-----------|---|-----|------------|----------------------|
| 9 | 2018-2019 | Trademark Law & The Challenges | 161 | 25.08.2018 | View |
| 10 | 2018-2019 | Green Technology Patents For Balancing Innovation | 147 | 16.02.2019 | View |