

SKCET

Buzz



27th MAY - 02nd JUNE 2023



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INSIDE THE ISSUE

⑩ STUDENTS CERTIFICATION : PG 03 - 07

⑩ EVENTS : PG 08 - 11

⑩ PLACEMENT AND TRAINING : PG 12 - 13

⑩ RESEARCH AND DEVELOPMENT : PG 14 - 20

⑩ FACULTY CERTIFICATIONS : PG 21 - 23

• CONFERENCE PRESENTATION : PG 24 - 27

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STUDENT CERTIFICATIONS



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AI&DS | NPTEL CERTIFICATION



NPTEL Online Certification
(Funded by the MoE, Govt. of India)

This certificate is awarded to
PRANAV KRISHNA S
for successfully completing the course

Psychology of Stress, Health and Well-being
with a consolidated score of **41** %

| | | | |
|--------------------|----------|----------------|-------|
| Online Assignments | 11.35/25 | Proctored Exam | 30/75 |
|--------------------|----------|----------------|-------|

Total number of candidates certified in this course: **2046**

Jan-Apr 2023
(12 week course)

Indian Institute of Technology Guwahati

Prof. T. V. Bharat
Head, Centre for Educational Technology
NPTEL Coordinator, IIT Guwahati

Roll No: NPTEL23HS71523393880 To validate the certificate No. of credits recommended: 3 or 4



NPTEL Online Certification
(Funded by the MoE, Govt. of India)

This certificate is awarded to
ASHMITHAA S E
for successfully completing the course

Psychology of Stress, Health and Well-being
with a consolidated score of **46** %

| | | | |
|--------------------|-------|----------------|-------|
| Online Assignments | 16/25 | Proctored Exam | 30/75 |
|--------------------|-------|----------------|-------|

Total number of candidates certified in this course: **2046**

Jan-Apr 2023
(12 week course)

Indian Institute of Technology Guwahati

Prof. T. V. Bharat
Head, Centre for Educational Technology
NPTEL Coordinator, IIT Guwahati

Roll No: NPTEL23HS71563394066 To validate the certificate No. of credits recommended: 3 or 4

Pranav Krishna S and **Ashmithaa S. E**, students of Second year **AI&DS** have successfully completed the NPTEL course on “**Psychology of Stress, Health and well-being**” offered by NPTEL Swayam on 18.05.2023.

CSBS|STUDENT INTERNSHIP



Preethi. S, student of Third year CSBS, has been selected as an intern at the Sparks Foundation for function Data Science & Business Analytics on 25.05.2023.

LEGENDARY INSIGHT

“One of the great challenges of an education is to teach us how to think.”



Steve Jobs

EEE | NPTEL ONLINE CERTIFICATION

Elite
NPTEL Online Certification
(Funded by the MoE, Govt. of India)

This certificate is awarded to
AJAY KUMAR B
for successfully completing the course

Enhancing Soft Skills and Personality
with a consolidated score of **79** %

| | | | |
|--------------------|-------|----------------|---------|
| Online Assignments | 23/25 | Proctored Exam | 55.5/75 |
|--------------------|-------|----------------|---------|

Total number of candidates certified in this course: 12752

Prof. B. V. Ratish Kumar
Chairman, Centre for Continuing Education
IIT Kanpur

Feb-Apr 2023
(8 week course)

Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur

Indian Institute of Technology Kanpur

Roll No: NPTEL23HS30583390685 To validate the certificate No. of credits recommended: 2 or 3

Elite
NPTEL Online Certification
(Funded by the MoE, Govt. of India)

This certificate is awarded to
KPSARAVINTH RAJ
for successfully completing the course

Enhancing Soft Skills and Personality
with a consolidated score of **75** %

| | | | |
|--------------------|----------|----------------|----------|
| Online Assignments | 23.75/25 | Proctored Exam | 51.25/75 |
|--------------------|----------|----------------|----------|

Total number of candidates certified in this course: 12752

Prof. B. V. Ratish Kumar
Chairman, Centre for Continuing Education
IIT Kanpur

Feb-Apr 2023
(8 week course)

Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur

Indian Institute of Technology Kanpur

Roll No: NPTEL23HS30583390687 To validate the certificate No. of credits recommended: 2 or 3

Elite
NPTEL Online Certification
(Funded by the MoE, Govt. of India)

This certificate is awarded to
HARINI S
for successfully completing the course

Enhancing Soft Skills and Personality
with a consolidated score of **76** %

| | | | |
|--------------------|----------|----------------|---------|
| Online Assignments | 23.75/25 | Proctored Exam | 52.5/75 |
|--------------------|----------|----------------|---------|

Total number of candidates certified in this course: 12752

Prof. B. V. Ratish Kumar
Chairman, Centre for Continuing Education
IIT Kanpur

Feb-Apr 2023
(8 week course)

Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur

Indian Institute of Technology Kanpur

Roll No: NPTEL23HS30583390692 To validate the certificate No. of credits recommended: 2 or 3

Elite
NPTEL Online Certification
(Funded by the MoE, Govt. of India)

This certificate is awarded to
DEEPAK M
for successfully completing the course

Enhancing Soft Skills and Personality
with a consolidated score of **76** %

| | | | |
|--------------------|----------|----------------|---------|
| Online Assignments | 23.08/25 | Proctored Exam | 52.5/75 |
|--------------------|----------|----------------|---------|

Total number of candidates certified in this course: 12752

Prof. B. V. Ratish Kumar
Chairman, Centre for Continuing Education
IIT Kanpur

Feb-Apr 2023
(8 week course)

Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur

Indian Institute of Technology Kanpur

Roll No: NPTEL23HS30583390690 To validate the certificate No. of credits recommended: 2 or 3

Elite
NPTEL Online Certification
(Funded by the MoE, Govt. of India)

This certificate is awarded to
HARSHINI S
for successfully completing the course

Enhancing Soft Skills and Personality
with a consolidated score of **75** %

| | | | |
|--------------------|----------|----------------|-------|
| Online Assignments | 23.83/25 | Proctored Exam | 51/75 |
|--------------------|----------|----------------|-------|

Total number of candidates certified in this course: 12752

Prof. B. V. Ratish Kumar
Chairman, Centre for Continuing Education
IIT Kanpur

Feb-Apr 2023
(8 week course)

Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur

Indian Institute of Technology Kanpur

Roll No: NPTEL23HS30583390693 To validate the certificate No. of credits recommended: 2 or 3

Third year EEE Students have successfully completed NPTEL online course on “Enhancing Soft Skills and Personality” organized by Indian Institute of Technology Kanpur during February to April 2023. 5 students have received **Elite+Silver Certificate**.

EEE | NPTEL ONLINE CERTIFICATION



Second year EEE Students have successfully completed NPTEL online course on “Ethics in Engineering Practice” organized by Indian Institute of Technology, Kharagpur during February to April 2023. 7 students have received Elite Certificate.

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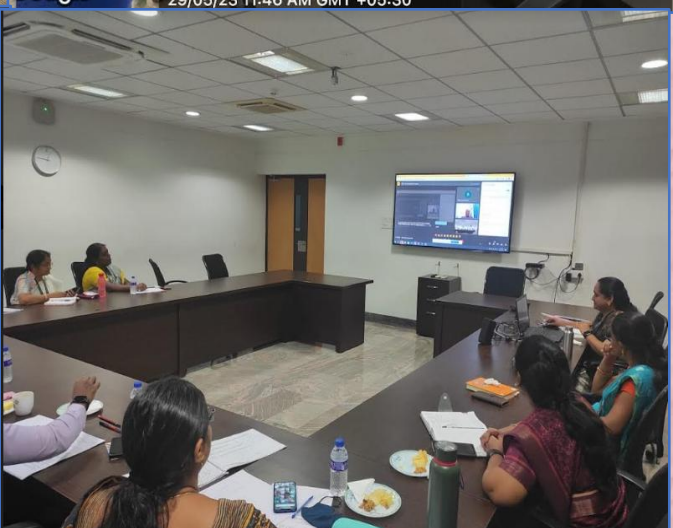
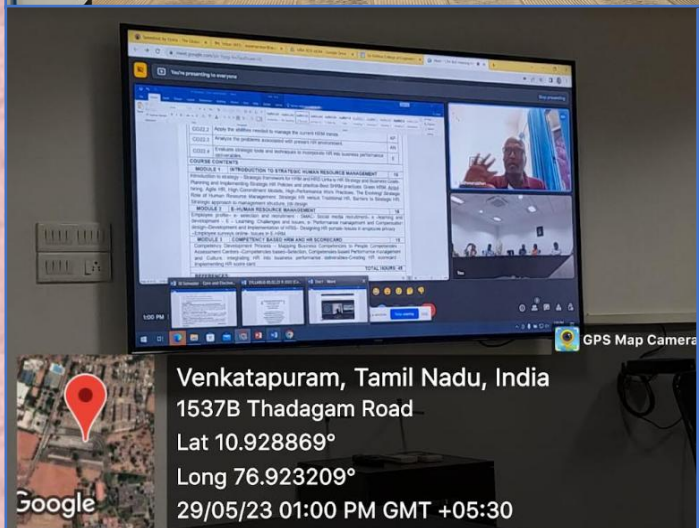


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SOM | BOS MEETING



School of Management conducted its 12th Board of Studies meeting on 29th May 2023. Dr.B.SenthilArasu (University Nominee) Department of Management Studies, National Institute of Technology, Tiruchirappalli; Dr.M.V.Subha (Academic Expert),Associate Professor, Dept. of Management Studies, Anna University Regional Centre, Coimbatore were the panel experts. Dr.Padmanabhan Vijayaraghavan (Academic Expert),Professor – OB & HR, Goa Institute of Management Sanquelim Campus, PoriemSattari, Goa; Mr.Aru Aditya Vasu (Industry Member) Assistant Vice President, Axis Bank ,Regional Head office ,Noida Sector; Mr.Rohit Sharma (Alumini), Assistant Manager, Citi Bank, Regional Head Office, Old Delhi discussed on the syllabi. Their valuable feedbacks were considered and was approved by the panel of experts.

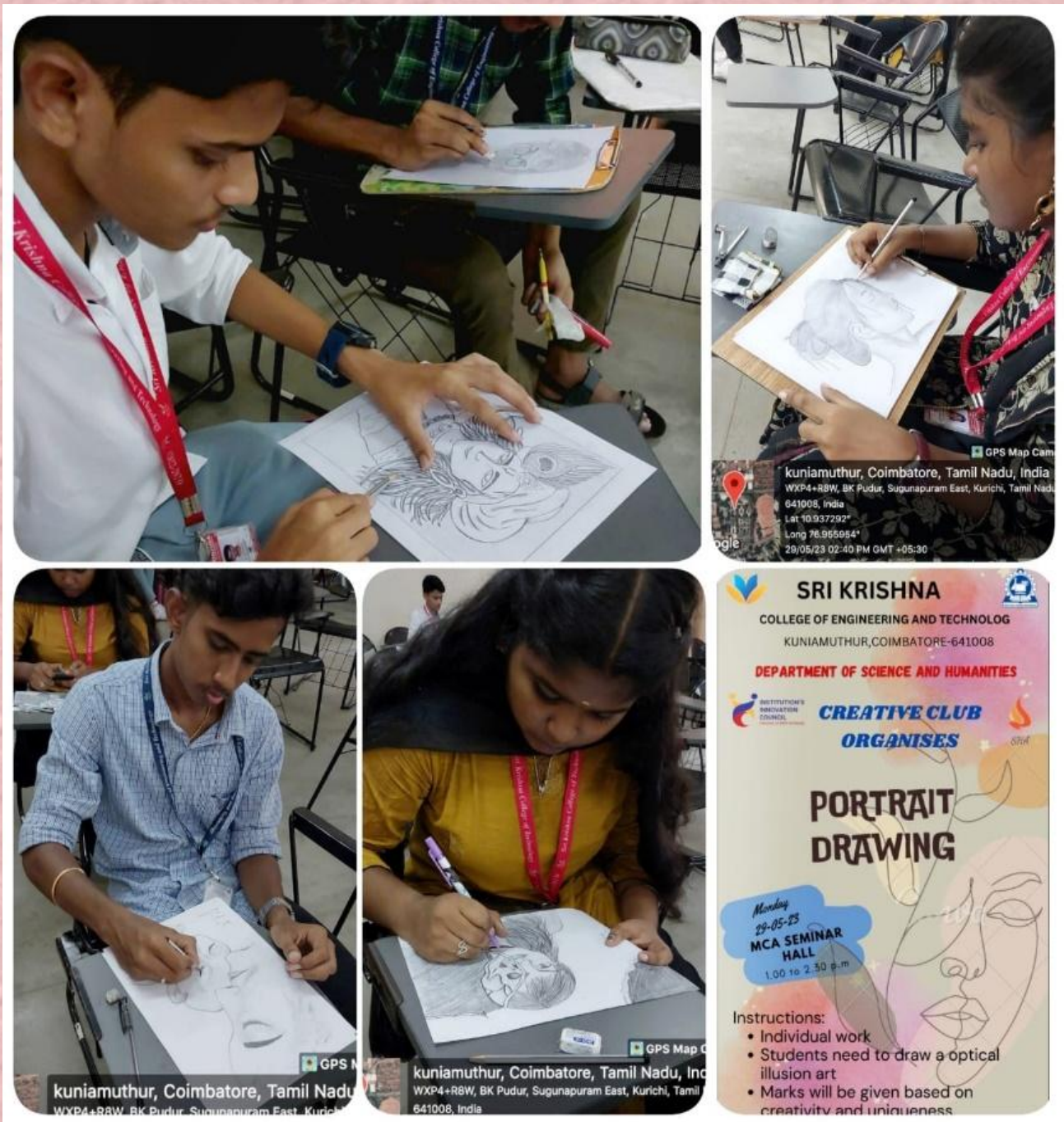
CSE| HOD INTERACTION



Dr. K. Sasi Kala Rani, Professor and Head, Department of **Computer Science and Engineering**, addressed the Third-year students. She appreciated the internship-offered students and deliberated them the following points:

- Importance of placements
- Maintaining decorum inside the campus
- Training assessments
- Attending the placement drives with sincere effort.

S&H | EXTENDED HOUR ACTIVITY



Creative Club of SHA conducted **Portrait Drawing** for the First-year students to express their ideas through the work of art. Students enthusiastically participated and communicated ideas and exhibited their artistic skills.

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PLACEMENT & TRAINING



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TESTIMONIAL BY PLACED STUDENTS

First and foremost I would like to thank our Principal, All Professors and the Placement Team who are part of this glorious journey. Being in SKCET has helped me in shaping myself personally. The continuous guidance from our highly esteemed faculty members have given me the opportunity to explore my capacity and expand on it. Even during the pandemic situation they showed us a spectacular work by bringing prestigious companies for placements and made sure we live up to our dream. When everyone looked up the sky SKCET made us reach the stars. The learning environment was exceptional and I was trained to solve a wide range of challenges that were presented to me. Being an engineering enthusiast, Sri Krishna College of Engineering and Technology was a perfect place to quench my thirst for professional knowledge. I am honoured to be an SKCETian!!

SAI YASWANTH V –MECH (2022 batch)
JSW



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RESEARCH & DEVELOPMENT



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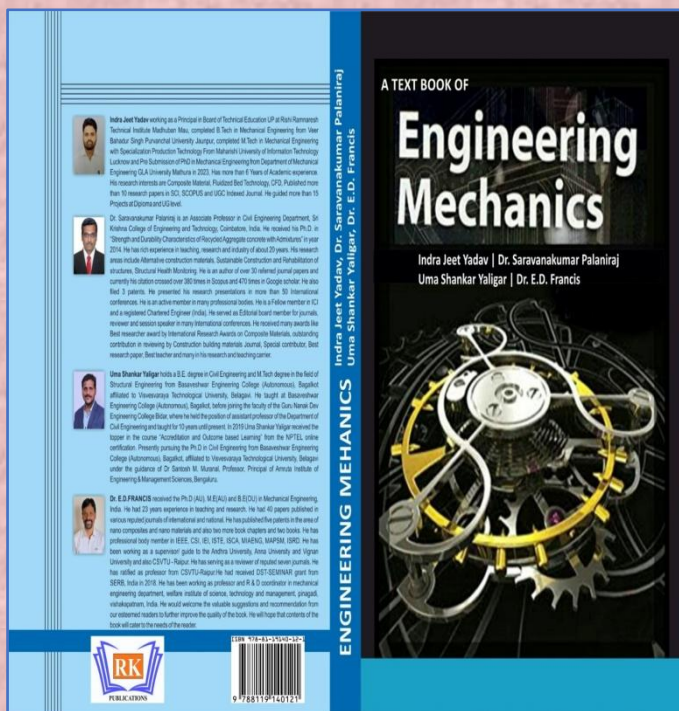


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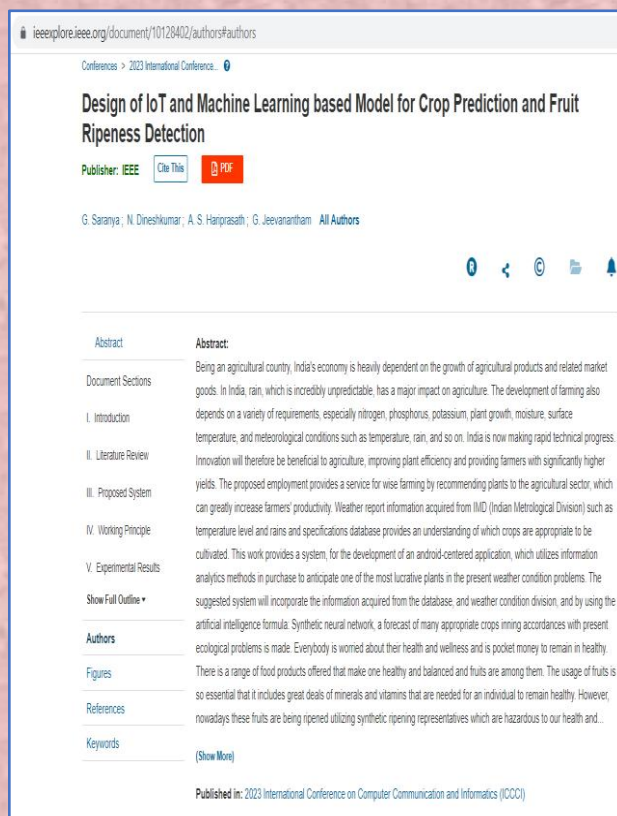
R&D | BOOK PUBLICATION | CIVIL



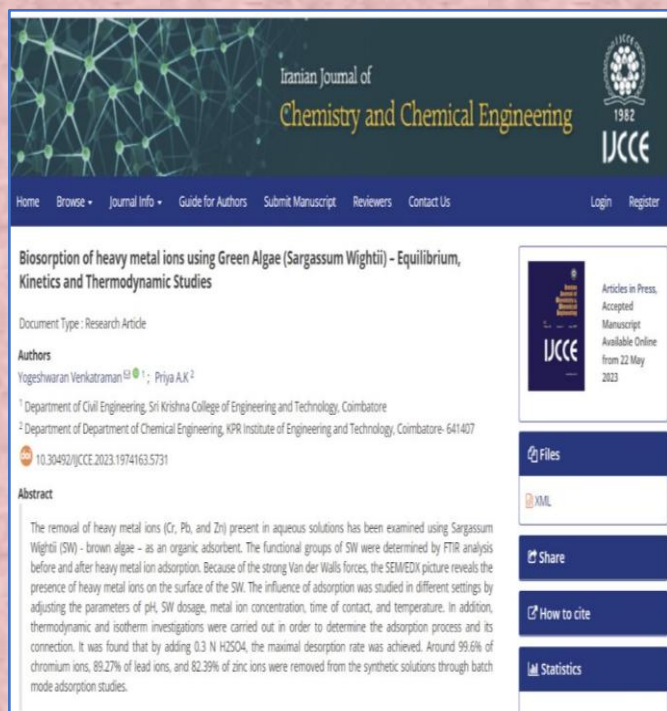
Dr.P.Saravanakumar, Professor and Head, **Department of Civil Engineering**, has co-authored a textbook titled **“A text book of Engineering Mechanics”** in RK Publications. The ISBN of the books is 978-81-19140-12-1.

R&D | PAPER PUBLICATION | ECE

Ms.G.Saranya, Assistant Professor, Department of **ECE** has presented and published her conference paper along with the students titled **“Design of IoT and Machine Learning based Model for Crop Prediction and Fruit Ripeness Detection”** in the 2023 International Conference on **Computer Communication and Informatics (ICCCI)**. It is a Scopus Indexed IEEE Conference.



R&D | JOURNAL PUBLICATION | CIVIL



Dr. V. Yogeshwaran, Assistant Professor, Department of Civil Engineering has published a research article titled **“Biosorption of heavy metal ions using green algae (Sargassum Wightii) – Equilibrium kinetics and thermodynamic studies”** in the Indian journal of Chemistry and Chemical Engineering.

R&D | JOURNAL PUBLICATION | MCT

Dr. R. Manikandan, Assistant Professor of MCT has successfully published a paper entitled **“Study of Mechanical Behaviour of Boron Carbide and CowDung Ash Reinforced Polymer Matrix Composite”** in AIP conference proceedings. This is a scopus indexed publication.

Study of Mechanical Behaviour of Boron Carbide and CowDung Ash Reinforced Polymer Matrix Composite

Arpa Mishra^{1, a)}, T.V. Arjunan¹, R. Manikandan², Sanjeev Shriwas¹

¹Department of Mechanical engineering, Guru Ghasidasvishwavidyalaya, Bilaspur, Chhattisgarh, India, 495009

²Department of Mechanical Engineering, Sri Krishna College of Engineering and Technology, Coimbatore, Tamilnadu, India, 641008

^{a)} Corresponding author: arpa159.mishra8@gmail.com

Abstract. In this study, a novel hybrid polymer composite of cow dung ash (CDA), B4C micro-particles, and epoxy was fabricated. Different samples of varying weight percentages of CDA and B4C from 2% to 5% and 1% to 4% respectively were fabricated. The mechanical properties such as tensile, flexural, impact, and hardness of the fabricated hybrid composite were determined and compared to neat epoxy (0% reinforcement). Scanning electron microscope was used for microstructural analysis of fabricated specimen. The result shows that the mechanical properties reached maximum value when CDA and B4C were 3% each. The maximum tensile and flexural strength of hybrid composite was 43.38% and 17.956% more than the neat epoxy composite. It is observed that the mechanical properties have increased while adding B4C-CDA reinforcements.

Keywords: CDA, Scanning electron microscope, mechanical properties

CSBS | PATENT PUBLICATION

(12) PATENT APPLICATION PUBLICATION (21) Application No.202341029194 A
(19) INDIA
(22) Date of filing of Application :21/04/2023 (43) Publication Date : 26/05/2023

(54) Title of the invention: **REAL TIME DIGITAL TRAFFIC ASSIST SYSTEM INTRODUCED WITH WIFI ENABLED IOT**

(51) International classification: A61M 605000, G06F 10000, H04Q 110400, H04W 720000, H04W 841200
(56) International Application No. Filing Date: (02/01/1900)
(57) International Publication No.: NA
(61) Patent of Addition to Application Number: NA
(62) Divisional to Application Number: NA
(63) Divisional to Application Number: NA

(71) Name of Applicant: **ISri Krishna College of Engineering and Technology**
Address of Applicant: Sri Krishna College of Engineering and Technology, Coimbatore
Name of Applicant: NA
Address of Applicant: NA
(72) Name of Inventor: **Dr.S.Balakrishnan**
Address of Applicant: Professor and Head, Department of Computer Science and Business Systems, Sri Krishna College of Engineering and Technology, Coimbatore
Dr.G. Ignisha Rajathi
Address of Applicant: Associate Professor, Department of Computer Science and Business Systems, Sri Krishna College of Engineering and Technology, Coimbatore
Lionel Roshan P
Address of Applicant: UG Scholar, Department of Computer Science and Business Systems, Sri Krishna College of Engineering and Technology, Coimbatore

(57) Abstract:
ABSTRACT OF THE INVENTION Statistical Data further reveals that India meets more than 21 crore two-wheelers and over 7 crore four-wheelers being registered. India is one of the principal countries in the world for automobile production. In 2022, the total production was around 22.9 million units. In India the road network is over 6,215,797 kilometres (3,862,317 mi) December 2021. The second largest in the world after the United States having 6,853,024 kilometres (4,258,272 mi). Further the growth in number of vehicles plying the roads has resulted in addition of lanes on the roads, over-bridges and crossing signals etc., which appears to increase the complexity in traffic management and the way in which vehicles ply on the roads, urging vehicle fleets posing a huge task to the authorities to regulate, validate vehicle papers, permits and also the person driving. With the new emerging digital transformation and the technologies like AI, IOT etc., has emboldened itself in every aspect of our day today activities. This innovation brings about a cost effective, viable, need of the hour solution with minimum capital investment in which the output overrides the investment. Information on driver console will ease the driving aiding with timely cautions and valuable information to make decisions. Traffic congestion can be definitely minimized or neutralized. AI Signal time scheduling to enable smarter direction of traffic. Vehicle tracking is simplified and easier. Driver track-down is possible by sinking the WIFI enabled driving license to the onboard unit + user password. With Digital number plates + certificate and validity are made simple with no physical verification. Preventing vehicle trafficking through sinking the onboard unit to the digital number plate + key + user password to start the engine. All possible information of a vehicle and the person driving it are available instantly without any complex procedures like image recognition etc.,. Technique is not dependent on any high and complex networks, with internet connectivity. The same, Wi-Fi emitter/receiver are solar battery powered. Connectivity to the control centers are Wi-Fi enabled.

No. of Pages: 13 No. of Claims : 5

The Patent Office Journal No. 21/2023 Dated 26/05/2023 39286

Dr.S.Balakrishnan, Professor and Head, CSBS, **Dr.G.IgnishaRajathi**, Associate Professor, CSBS along with **Lionel Roshan. P**, student of **Second Year CSBS** have published a patent titled **“Real Time Digital Traffic Assist System Introduced with WIFI Enabled IOT”** with the Application Number 202341029194 on 26.05.2023.

R&D | PAPER PUBLICATION | M.TECH CSE

Ms. T Dureen V Rayen, Assistant Professor, Department of **M.Tech Computer Science and Engineering** has published a paper titled **“Effective Crop Yield Prediction Using Gradient Boosting to Improves Agricultural Outcomes”** in the **2023 International Conference on Networking and Communications (ICNWC), IEEE Xplore, April 2023.**

Effective Crop Yield Prediction Using Gradient Boosting To Improve Agricultural Outcomes

Publisher: IEEE [Cite This](#) [PDF](#)

G Pradeep; T Dureen V Rayen; A. Pushpalatha; P. Kavitha Rani All Authors

Abstract: Crop production forecasting is a huge challenge nowadays, resulting in inaccurate results such as food shortages, economic instability, inefficient resource allocation, environmental impact, and lower farmer profitability. Our proposed machine-learning algorithm forecasting yield can help address these difficulties and enhance agricultural outcomes. Crop yield prediction is used to estimate the potential harvest of crops, providing valuable information to farmers, policymakers, and agribusinesses for planning, resource management, and making informed crop production decisions. It helps to improve food security, reduce food waste, and increase the efficiency of food production. Gradient Boosting Agricultural Yield Prediction is a machine learning approach that employs decision trees and gradient descent optimization to create accurate crop yield predictions. This approach and strategy are useful in predicting crop yields. They can assist farmers and agricultural organizations in making better-educated planting, harvesting, and resource allocation decisions. The results of crop yield prediction based on gradient boosting with an accuracy rate of 87.2%, precision of 0.84, recall of 0.90, and F1-Score of 0.87 indicate that the model is making accurate predictions about crop yields with a good balance of precision and recall. Our work suggests that the model performs efficiently and makes accurate predictions for crop yields. It increases crop production prediction, which improves decision-making, increases efficiency, effectively allocates resources, supports planning, and reduces agriculture's environmental impact. It has a tremendous impact on the agriculture sector because it promotes sustainability, reduces waste, and improves overall performance.

Published in: 2023 International Conference on Networking and Communications (ICNWC)

R&D | PATENT PUBLICATION – EEE

Patent titled “IoT-based photovoltaic solar power generation with maximum power point tracking” has been published by **Mr.R.Kavin**, Assistant Professor, **EEE** Department in the IPR Journal identified with Appl.No: 202341026559 A on 26.05.2023.

| | |
|--|--|
| (12) PATENT APPLICATION PUBLICATION | (21) Application No. 202341026559 A |
| (19) INDIA | |
| (22) Date of filing of Application: 10/04/2023 | (43) Publication Date: 26/05/2023 |
| (54) Title of the invention: IoT-based photovoltaic solar power generation with maximum power point tracking | |
| (51) International classification: H02M 01/00, H01L 31/02, H02J 03/00 | (71) Name of Applicant: Dr. M. Vignanesan Address of Applicant: Professor, Department of EEE, Karapagam Academy of Higher Education (Karapagam Demed to be University), Eelamman, Coimbatore, Tamil Nadu, India |
| (58) International Application No. PCT/IN/01/3900 | Dr. V. Kamalakar 3) Ramesh Chidambaram 4) Mr. Jayanth Kumar Saha 5) R. Kavin M.E. 6) Mr. V. Sri Chakrapani 7) Dr. Ch. Manohar Kumar 8) Dr. Lakshmi Pathi 9) Mr. Shakti Saha Biswas 10) Manoj Kumar |
| (57) International Publication No. NA | Name of Applicant: NA |
| (61) Patent of Addition to Application Number NA | Address of Applicant: NA |
| (62) Divisional to Application Number NA | (72) Name of Inventor: Dr. M. Vignanesan Address of Applicant: Professor, Department of EEE, Karapagam Academy of Higher Education (Karapagam Demed to be University), Eelamman, Coimbatore, Tamil Nadu, India |
| Filing Date | Dr. V. Kamalakar Address of Applicant: Assistant Professor, Department of Physics, VIT Tech Rangapattinam Dr. Sagayathala R&D Institute of Science and Technology, VIT Nagar, Avadi, Chennai-600026, Tamil Nadu, India |
| | 3) Ramesh Chidambaram Address of Applicant: MIT (Manufactures Institute of Technology), CTO |
| | 4) Mr. Jayanth Kumar Saha Address of Applicant: Assistant Professor, Department of Electrical and Electronics Engineering, IIT Ghosiassore, Odisha, India |
| | 5) R. Kavin M.E. Address of Applicant: Assistant Professor, Department of Electrical and Electronics Engineering, Sri Krishna College of Engineering and Technology, Coimbatore-641002, Tamil Nadu, India |
| | 6) Mr. V. Sri Chakrapani Address of Applicant: Associate Professor, Department of EEE, Seshadri Rao Oudhavel Engineering College, Seshadri Rao Knowledge Village, Oudhavelur - 221356, Krishna District, Andhra Pradesh, India |
| | 7) Dr. Ch. Manohar Kumar Address of Applicant: Assistant Professor, Chyathi Vidya Panchayat College for Degree and PG Courses(A), Puzhalakudi, India |
| | 8) Dr. Lakshmi Pathi Address of Applicant: Assistant Professor, Department of Electronics, MOEMS |
| | 9) Mr. Shakti Saha Biswas Address of Applicant: Assistant Professor, School of Computing, Mishra Babu University, Timpur, Andhra Pradesh, India |
| | 10) Manoj Kumar Address of Applicant: University of Texas at Arlington, MBA Graduate, Dallas, Texas, United States |
| (57) Abstract: | The present invention relates to an IoT-based photovoltaic solar power generation system with maximum power point tracking. The system comprises a photovoltaic panel, sensors, a central control system, and an IoT network, which work together to optimize the performance of the panel. The maximum power point tracking algorithm ensures that the panel operates at the optimal efficiency, while the IoT network allows for remote monitoring and control of the system. The system is designed for use in various applications, such as residential, commercial, and industrial, as well as in remote or off-grid locations where access to traditional grid power may be limited or unreliable. Its scalability and versatility make it suitable for a range of applications, and its integration with energy storage systems and other renewable energy sources can further improve efficiency and reliability. Overall, the IoT-based photovoltaic solar power generation system is an innovative solution to the growing demand for efficient and reliable renewable energy sources. |
| No. of Pages: 18 No. of Claims: 10 | |

The Patent Office Journal No. 21/2023 Dated 26/05/2023

39161

R&D | PATENT PUBLICATION – S&H

(12) PATENT APPLICATION PUBLICATION (21) Application No. 202341030277 A
(19) INDIA
(22) Date of filing of Application: 27/04/2023 (43) Publication Date: 26/05/2023

(54) Title of the invention: Eco Friendly Power Generation System using Piezoelectric Sensor

| | |
|---|---|
| (51) International classification: F01K 25/1000, G01L 011600, H01L 411130, H01L 411930, H02N 021800 | (71) Name of Applicant: 1) MOHANA GEETHA D Address of Applicant: 29, GUHAN ILLAM, V.G.RAO NAGAR, PHASE II, GANAPATHY |
| (86) International Application No. PCT/IN/01/1900 | 2) Mr. S. Palani Name of Applicant: NA Address of Applicant: NA |
| (87) International Publication No. NA | (72) Name of Inventor: 1) Dr. K. Ramesh Babu Address of Applicant: SCOPE, Vellore Institute of Technology, Vellore-632014 Vellore |
| (61) Patent of Addition to Application Number NA | 2) Dr. V. Ragavi Address of Applicant: Sri Krishna College of Engineering and Technology, Kuniamuthur-641008 Coimbatore |
| (62) Divisional to Application Number NA | 3) Mr. R. Suresh Address of Applicant: Sri Krishna College of Engineering and Technology, Kuniamuthur Coimbatore |
| Filing Date | 4) Dr. R. Muthukrishnan Address of Applicant: Sri Krishna College of Engineering and Technology, Kuniamuthur Coimbatore |

(57) Abstract: Electricity has become a part of our day-to-day life. We are depending on electricity so much that we cannot imagine a day without electricity. Electricity is widely produced by the means of water, coal, wind and solar. In recent times people are installing solar panels in their houses. However we produce the electricity through all the above ways still we are facing demand for electricity. Usage of electricity differs from place to place. Most of the electricity is consumed by the factories. We are using a power bank to store electricity for charging most of the electronic devices. To produce electricity with the benefits of making our body fit and healthy, we have designed a sensor by which we can produce electricity by cycling. The pressure applied to the piezoelectric sensing element produces a separation of charges within the atomic structure of the material, generating an electrostatic O/P voltage. The polarity of the voltage generated depends on the atomic structure of the material and the direction in which the pressure is applied.

No. of Pages: 6 No. of Claims: 4

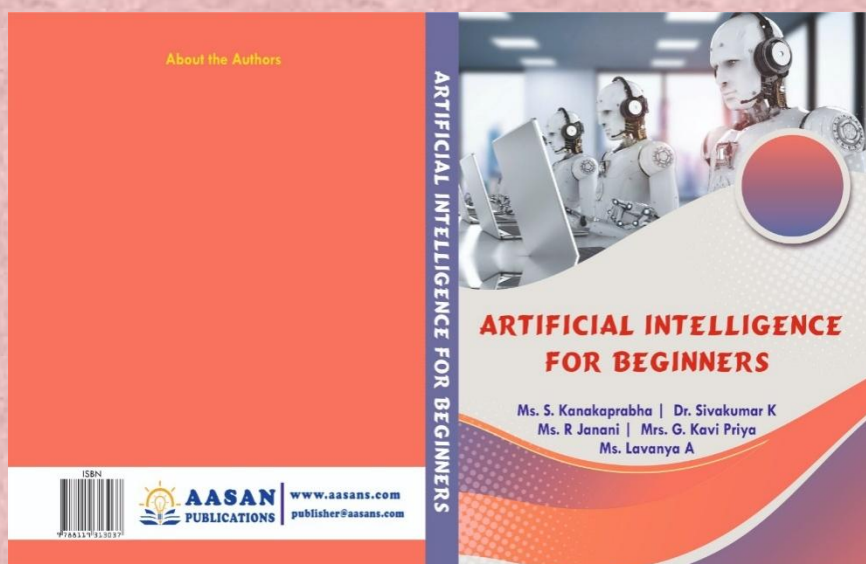
Dr. Ragavi V, Dean of Student Affairs and **Mr. Palani S**, Assistant Professor, Department of Science and Humanities have published a patent on 26th May, 2023 entitled “Eco Friendly Power Systems using Piezoelectric Sensor” with the application number 202341030277A.

R&D | PATENT PUBLICATION – S&H

| | |
|---|---|
| (12) PATENT APPLICATION PUBLICATION | (21) Application No.202341028454 A |
| (19) INDIA | |
| (22) Date of filing of Application :19/04/2023 | (43) Publication Date : 26/05/2023 |
| (54) Title of the invention : PRODUCTION OF BIODEGRADABLE SANITARY PADS USING WATER HYACINTH FIBER | |
| (51) International classification :A23K 103000, A23K 103700, A61F 131500, A61K 364800, C10G 455800 | (71)Name of Applicant : 1)Dr. L. Kousalya Address of Applicant :Assistant Professor Department of Botany Nirmala College for Women Red fields, Coimbatore - 641018 ----- 2)Ashika G A 3)Dr. S. Packiaraj Name of Applicant : NA Address of Applicant : NA |
| (86) International Application No :PCT// Filing Date :01/01/1900 | (72)Name of Inventor : 1)Dr. L. Kousalya Address of Applicant :Assistant Professor Department of Botany Nirmala College for Women Red fields, Coimbatore - 641018 ----- 2)Ashika G A Address of Applicant :Post graduate student Department of Botany Nirmala College for Women Red fields, Coimbatore - 641018 ----- 3)Dr. S. Packiaraj Address of Applicant :Associate Professor Department of Science and Humanities (Chemistry) Sri Krishna College of Engineering and Technology Coimbatore-08 ----- |
| (87) International Publication No :NA | |
| (61) Patent of Addition to Application Number :NA Filing Date :NA | |
| (62) Divisional to Application Number :NA Filing Date :NA | |
| (57) Abstract : ABSTRACT: The abstract of the present study to use the E. crassipes fiber for production of herbal sanitary pads to replace the commercial sanitary pads prepared from plastic material. The application is preparation of herbal sanitary pads, solid waste management of water hyacinth from water bodies like lake, river, ponds, etc. and inhibition of cervical cancer and bacteria. The future applications will also be extended to the research in large scale production of herbal sanitary pads from the E. crassipes and this is applicable in all places by commercialization to have a healthy society. | |
| No. of Pages : 18 No. of Claims : 5 | |

Dr. S. Packiaraj, Associate Professor, Department of Science and Humanities (Chemistry) has published a patent titled “Production of Biodegradable Sanitary Pads using water hyacinth Fiber” on 26.05.2023. Application No: 202341028454 A.

R&D | BOOK PUBLICATION | IT



Ms. Janani R, Assistant Professor, IT has published a book titled "Artificial Intelligence For Beginners", by AASAN publications.

CSBS|PAPER PUBLICATION



Ms. F. Margret Sharmila , Assistant Professor, **CSBS** along with Ms.Pooja.R, Arshad Mohaidin.A and Ms.Jaisakthi.K students of Final year CSBS has published a paper titled “**Android Malware Detection**“ in International Journal of Scientific Research in Engineering & Management with an ISSN : 2582-3930 on 05.05.2023

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AI&DS | NPTEL CERTIFICATION



Elite
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This certificate is awarded to
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for successfully completing the course
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with a consolidated score of **69 %**

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|--------------------|----------|----------------|----------|
| Online Assignments | 21.21/25 | Proctored Exam | 47.64/75 |
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(8 week course)

Indian Institute of Technology Kanpur

swayam

Roll No: NPTEL23CS65533393472 To validate the certificate No. of credits recommended: 2 or 3

Mr.S.Senthilkumar, Assistant Professor of **AI&DS** has successfully completed the NPTEL course on “**Foundation of Cloud IOT Edge ML**” and secured **Elite certification** by NPTEL Swayam on 18.05.2023.

ECE | FACULTY CERTIFICATION

Dr.T.Joby Titus, Associate Professor, **Department of ECE** has successfully completed and received certification on “**IoT Edge Computing and IoT Analytics**” certified by Infosys Springboard.



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Education, Training and Assessment (ETA)
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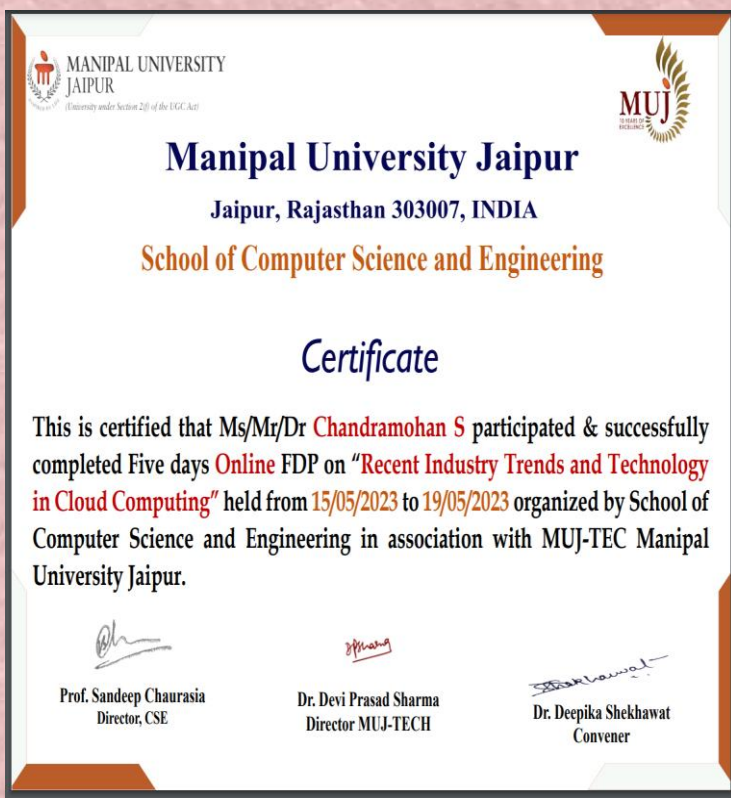
Issued on: Wednesday, May 24, 2023
To verify, scan the QR code at <https://verify.ams.infosys.com>

CIVIL | FACULTY CERTIFICATION

Dr.S.C.Boobalan has participated in a ten-day online national-level workshop on **Data Analytics using SPSS** organized by Bala's VV Academy, Chennai held from 16th May to 25th May 2023.



IT | FACULTY CERTIFICATION



Mr.Chandramohan S, Assistant Professor, Department of IT has participated in Five Days FDP on **“Recent Industry Trends and Technology in Cloud Computing”** held from 15/05/2023 to 19/05/2023 organized by the School of Computer Science and Engineering in association with MUJ-TEC Manipal University, Jaipur.

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ECE|FACULTY CONFERENCE



Ms.U.Vanitha, Assistant Professor, Department of **ECE** has participated and presented a paper entitled **“Wireless signal Strength Prediction based on clustering Algorithm“** in the AICTE sponsored National conference on **“Recent Trends in Artificial Intelligence; Advanced Communication and Smart systems (RTAACS’2023)** organized by KPR Institute of Engineering and Technology.

EEE|FACULTY CONFERENCE

Dr.S.Sivaranjani, Assistant Professor, **EEE** Department has presented research paper entitled **“Investigation on DC Chopper Controlled PMSG Driven Horizontal Axis Wind Turbine”** 2023 IEEE IAS Global Conference on Emerging Technologies organized by Loughborough University, London, UK.



EEE | CONFERENCE PRESENTATION



Following faculty members and students from the Department of EEE have presented a research paper in Two Days National Level Conference on Recent Advancements in Communication and Electrical Technologies (RACE 23) Organized by Sri Krishna College of Engineering and Technology, Coimbatore during 05 & 06 April 2023.

| Name of the Author | Title of the Paper |
|--|--|
| Dr.K.C.Ramya & Dr.P.Vinoth kumar | A Novel Hybrid Power Generation System based on Renewable Energy for Battery bank storage. |
| Dr.S.Sivaranjani, S.Sanjay Prakash, S.Sanjay, V.Saravanan & A.Suswanth Lakhan | Modular Multilevel Inverter fed BLDC motor speed control using Voice Command |
| Dr.S.Sivaranjani, P.RamPrakash, G.Mithun S reeram, R.Karthikeyan & M.Mano Prabhu | Smart Domestic Wireless Charger for Electric Vehicle |
| Dr.A.Radhika, N.Barath, R.M.Adithan, I.Chelladurai & M.Harish Kumar | Cold Storage Monitoring System |
| Dr.B.Karthikeyan, M.R.Arigharasudhan, P.Arulrajan K.Akash & A.Baranidharan | Solar and Wind Energy Integrated System Frequency Control |
| Dr.G.Radhakrishnan, V.Karthick Raja, K.Karthikeyan, M.S.Kiran Chandran & M.Prabu | Multiple Disorder Detection GAIT Analysis using Machine Learning |

| | |
|---|--|
| Dr.J.Karthika, M.Kanishka, A.Mehala ,B.Neha & M.Nisha | High Precise SOC and SOD Detection for Charge Controlled E-Vehicle |
| N.Subhashini ,R.Prajith, A.Niranjn Vignesh, B.Naveen Kumar & S.C.Madhumitha | Design and Implementation of Coal Mine Safety Monitoring System |
| N.Subhashini, M.Tejaa, R.Murugesh, Matheshwaran & Mohandas | Monitoring Industries using the Power of Internet and Automation |
| N.Subhashini,M.Srinithi,R.Sruthi,J.V.Swethaa,J.Subash&M.Shanbala | Hybrid Renewable Energy Charge controller with Automatic source switching technique |
| Dr.P.Vinoth kumar, M.Kingsly Andrews, M.Monish ,P.Nidhin raj & V.B.Nishanth | AI Tuned IoT Based Micro Grid for Smart Campus |
| R.Geethamani, K.K.Kesava Kumar, P.Koushick Balan, A.K.Madhumita, R.Kowsik & M.M.Krishna manikanda Prabu | Battery Management System to find Accurate Timing using Machine Learning |
| R.Geethamani, M.ShivaSankar, N.Thangapandian, B.Wasim Akram & S.Yuvaraj | Smart Hydroponic System |
| R.Kavin, L.Santhiya, K.Saranya,S.Sneha & L. Vinolin Deena | Solar Fault Detection |
| Dr.Ramji Tiwari, R.SailesVenkat, M.SushilBharathi, I.Thilip & P.Vinith Raj | Design and Development of Architecture & Safety features of Bore well drilling Machine |
| Dr.T.Kokilavani, A.Poovaragavan , D.R.Karthic, A.Lincyjoanofarc, K.Nithyasri & M.Ramana | Fault Detection in Induction Motor using ML |
| Dr.T.Kokilavani, V.Kavya, S.Megavardhini , P.Prithika & V.S.Rakshana | Portable Manure Spreading Trolley for Farmland |
| T.Malini, V.PraneshKumar ,L.Praveen Kumar, M.Prithiv Kumar & S.Raghuram | Automatic Speed Control of DC Motors for high priority zones using Radio Frequency Communication |