

NEWSLETTER



ELECTROBLITZ

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January 2021

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INDEX

| S. No. | Contents | Page No. |
|--------|---|----------|
| 1 | Vision and Mission | 1 |
| 2 | PEOs Pos and PSOs | 2 |
| 3 | Faculty Details | 3 |
| 4 | Association Activities | 5 |
| 5 | List of Eminent Academicians/Scientists Visited | 9 |
| 6 | Faculty Online Certification | 9 |
| 7 | Students Online Certification | 10 |
| 8 | Students Participation in Hands on Session/Workshop/Seminar/Quiz/Paper Presentation | 11 |
| 9 | Students Participation in Project Presentation | 12 |
| 10 | Students Awards and Achievement | 13 |
| 11 | Placement Details | 13 |
| 12 | Product Development | 14 |
| 13 | Photo and Art Gallery | 15 |

VISION AND MISSION OF THE DEPARTMENT

Vision:

To be the **centre of higher learning** in the field of Electrical and Electronics Engineering by educating the students to meet the **global challenges** with **professional ethics and social consciousness**.

Mission:

- Providing **technical, intellectual and ethical** environment to the students through **knowledge centric education and research**.
- Collaborating with industries in the vicinity, nationally and internationally for exposure and **innovation**.
- Enabling the students to **serve the society** through **prolific ideas**.

Programme Educational Objectives (PEOs)

The Graduates of Electrical and Electronics Engineering will

- **PEO1** Possess an adequate knowledge to meet the needs of the stakeholders and excel in their chosen profession with good communication and managerial skills.
- **PEO2** Adapt to emerging technologies and practice their profession confirming to ethical and human values.
- **PEO3** Continuously improve the habit of self-study through professional development activities.

Programme Outcomes (POs)

Graduates of Electrical and Electronics Engineering will be able to:

- **PO1 Engineering Knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- **PO2 Problem Analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- **PO3 Design/development of Solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

- **PO4 Conduct Investigations of Complex Problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- **PO5 Modern Tool Usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- **PO6 The Engineer and Society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- **PO7 Environment and Sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- **PO8 Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- **PO9 Individual and Team Work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- **PO10 Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- **PO11 Project Management and Finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- **PO12 Life-long Learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change

Programme Specific Outcomes (PSOs)

Graduates of Electrical and Electronics Engineering will able to:

- **PSO1** Develop skills to the expectations of the dynamic industrial practices in Electrical Engineering and allied areas.
- **PSO2** Analyze, design and integrate various renewable energy sources to meet the energy demand.

FACULTY DETAILS

| S.NO | NAME OF THE FACULTY | DESIGNATION |
|------|-----------------------|----------------------------|
| 1. | Dr.V.Kumar Chinnaiyan | Professor & Head |
| 2. | Dr.J.Karpagam | Professor |
| 3. | Dr.K.Mohanasundaram | Professor |
| 4. | Dr.R .Uthirasamy | Associate Professor |
| 5. | Dr.V.S.Chandrika | Associate Professor |
| 6. | Dr.P.Pandiyan | Associate Professor |
| 7. | Mr.S.Vivekanandan | Assistant Professor (Sl.G) |
| 8. | Mr.G.Sarvanan | Assistant Professor (Sl.G) |
| 9. | Dr.A.Karthick | Assistant Professor (Sl.G) |
| 10. | Mr.R.Sampath Kumar | Assistant Professor (Sl.G) |
| 11. | Mr.A.Gowri Shankar | Assistant Professor (Sr.G) |
| 12. | Mr.D.Sathish Kumar | Assistant Professor (Sr.G) |
| 13. | Ms.B.Lalitha | Assistant Professor (Sr.G) |
| 14. | Ms.V.J .Vijayalakshmi | Assistant Professor (Sr.G) |
| 15. | Ms.R .Revathi | Assistant Professor (Sr.G) |
| 16. | Mr.A.Mohamed Ibrahim | Assistant Professor (Sr.G) |
| 17. | Mr.P.Ravikumar | Assistant Professor (Sr.G) |
| 18. | Dr.C.Pazhanimuthu | Assistant Professor (Sr.G) |

| | | |
|-----|---------------------|----------------------------|
| 19. | Dr.S.Ravindran | Assistant Professor (Sr.G) |
| 20. | Mr.V.Kamal Kumar | Assistant Professor |
| 21. | Mr.K.Balamurugan | Assistant Professor |
| 22. | Mr.C.J.Vignesh | Assistant Professor |
| 23. | Ms.S.Divya | Assistant Professor |
| 24. | Ms.P.Praveena | Assistant Professor |
| 25. | Dr.I.Baranilingesan | Assistant Professor |
| 26. | Mr.C.Dinesh | Assistant Professor |
| 27. | Mr.M.Mohanasundaram | Assistant Professor |

SUPPORTING STAFF

| S.NO | NAME OF THE STAFF | DESIGNATION |
|------|----------------------|------------------|
| 1. | Mr.M.Vinothkumar | Lab Technician |
| 2. | Mr.C.Gopalakrishnan | Lab Technician |
| 3. | Mr.R.Vinothkumar | Lab Technician |
| 4. | Mr.K.S.M.Manoj Kumar | Lab Technician |
| 5. | Mr.C.Karuppusamy | Lab Technician |
| 6. | Mr.A.Nandhakumar | Office Assistant |

ASSOCIATION ACTIVITIES

Ideathon 2021

The department of Electrical and Electronics Engineering and EKKI KPRIET International Water Technology Centre (EIWTC) organized an Ideathon 2021 with theme of “Digital Water Technology Start-Up Ideas” from 06/01/2021 to 06/02/2021 for students community. 20 teams were participated and the students are appreciated for their ideas.



The poster features the logos of the Department of EEE at KPRIET and the EIWTC. It includes the KPR Institute of Engineering and Technology logo with the tagline 'Learn Beyond' and its accreditation details. The main title 'IDEATHON 2021' is prominently displayed with a lightbulb icon, followed by the subtitle '(Digital Water Technology Start-up Ideas)'. A QR code is provided for uploading ideas, and the dates '06/01/2021 - 12/01/2021' are listed. Faculty coordinators and their contact information are also provided.

Department of EEE
KPRIET
Empower Through Learning

EIWTC
The EKKI - KPRIET International Water Technology Centre

EKKI – KPRIET International Water Technology Centre Organizes

IDEATHON 2021
(Digital Water Technology Start-up Ideas)

Scan to upload your ideas

Date : 06/01/2021 – 12/01/2021

Faculty Coordinators :

| | |
|--|--|
| Ms.B.Lalitha , AP(Sr.G)/EEE 9500531043 | Ms.P.Indhradevi, AP(Sr.G.) /Civil 9940825795 |
| Mr.C.Senthil Kumar, AP(Sr.G.)/Mech 9843552886 | Dr.E.Nakkeeran, AP(Sr.G.)/Chemical 8144497087 |

kpriet.ac.in

Younker Contest 2021

The department of Electrical and Electronics Engineering and EnSAv club organized a Younker Contest 2021 with theme of “Hour without power, Just enough is enough energy, Energy is life and India can be a energy star” in “Youth Talk, Youth Presentation, Youth Article Contest, Youth Photo Contest, Youth Tech Spark” on 12.01.2021 for students community. A heart-warming welcome remark was delivered by Dr. V. Kumar Chinnaiyan, Professor & Head, Department of EEE, KPR Institute of Engineering and Technology. 84 Participants from various institutions participated in different events and the students are appreciated with certificates. Prof. A. Mohamed Ibrahim, Assistant Professor (Sr.G) and Prof. D. Sathish Kumar, Assistant Professor (Sr.G), Department of EEE proposed the vote of thanks.

EMPOWERING NATION

YOUNKER CONTEST 2021

JANUARY 12, 2021 - 10.00 AM
VIRTUAL CONTEST - GOOGLE MEET

| EVENTS | THEME |
|--|--|
| YOUTH TALK YOUTH PRESENTATION YOUTH ARTICLE CONTEST YOUTH PHOTO CONTEST YOUTH TECH SPARK | Hour without Power Just Enough is Enough Energy Energy is Life India can be a Energy Star |

Who can participate?
Category 1 - 9th and 10th standard students
Category 2 - 11th and 12th standard students
Category 3 - Students pursuing UG in any recognized colleges across India

register at
http://bit.ly/Youth_Talk_2021

| | | |
|---|--|--|
| Convenor Dr. V. Kumar Chinnaiyan Professor and Head / EEE | Coordinators Prof. A. Mohamed Ibrahim Assistant Professor (Sr.G) / EEE Prof. D. Sathish Kumar Assistant Professor (Sr.G) / EEE | Student Coordinators Mr. M. Omesh Ram Pre - Final Year / EEE Ms. K. Darsini Pre - Final Year / EEE |
|---|--|--|

82480 41365 | 93600 79197 | 80151 43858

Jointly organised by

 kpriet.ac.in

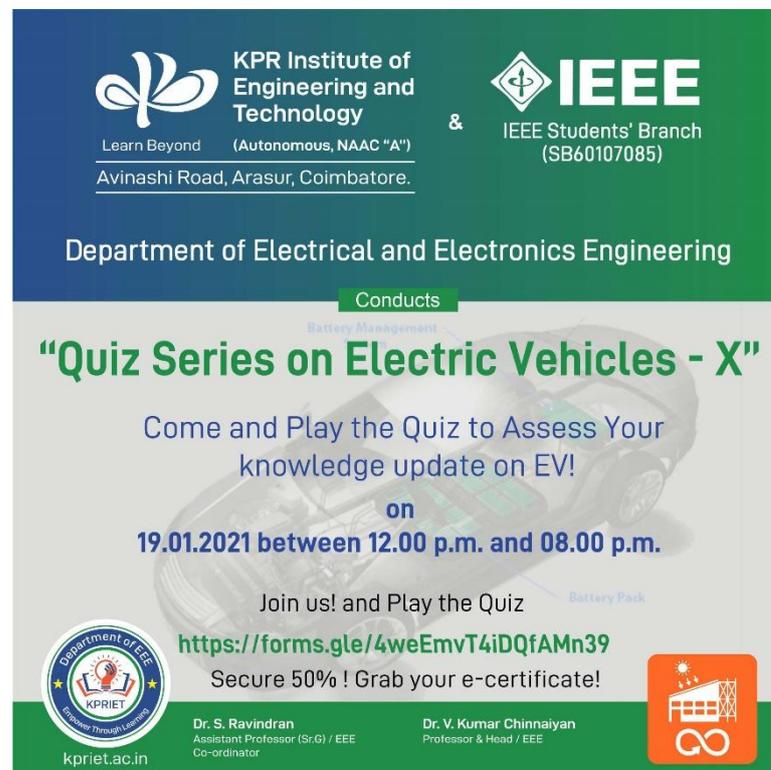
Quiz Series on Electric Vehicles - X

The department of Electrical and Electronics Engineering organized a “Quiz Series on Electric Vehicles – X” on 19.01.2021 open to all, who are keen on emerging EV technologies. The poster is circulated to various Institutions and in social media digitally. The quiz started by 12.00 pm and closed at 08.00 pm. Participants from various Institutions, Universities and Industries across India and foreign nations have participated in this quiz.

- This Quiz had 10 questions covering Electric Vehicle Technologies
- Each question carries 10 marks.
- The participants who scored 50% and above were issued with Certificate of Appreciation.

The details of the Program Participants are given below:

| | | |
|--|---|-----|
| Total Participants | : | 324 |
| Participants cleared the quiz and received Certificate | : | 286 |
| Participants from other Nations, Institutions and Universities | : | 307 |
| Participants from KPRIET | : | 17 |



The poster features a blue and green color scheme. At the top left is the KPR Institute of Engineering and Technology logo with the tagline 'Learn Beyond (Autonomous, NAAC "A")' and address 'Avinashi Road, Arasur, Coimbatore.'. To the right is the IEEE logo and 'IEEE Students' Branch (SB60107085)'. Below this is the text 'Department of Electrical and Electronics Engineering' and 'Conducts'. The main title is 'Quiz Series on Electric Vehicles - X' in large green font. Below it, the text reads 'Come and Play the Quiz to Assess Your knowledge update on EV! on 19.01.2021 between 12.00 p.m. and 08.00 p.m.'. A call to action says 'Join us! and Play the Quiz' with the URL 'https://forms.gle/4weEmvT4iDQfAMn39' and 'Secure 50% ! Grab your e-certificate!'. At the bottom, there are logos for the Department of EEE, KPRIET, and a QR code. The names and titles of the coordinators, Dr. S. Ravindran and Dr. V. Kumar Chinnaiyan, are listed.

KPR Institute of Engineering and Technology
Learn Beyond (Autonomous, NAAC "A")
Avinashi Road, Arasur, Coimbatore.

IEEE
IEEE Students' Branch
(SB60107085)

Department of Electrical and Electronics Engineering
Conducts

"Quiz Series on Electric Vehicles - X"

Come and Play the Quiz to Assess Your knowledge update on EV!
on
19.01.2021 between 12.00 p.m. and 08.00 p.m.

Join us! and Play the Quiz
<https://forms.gle/4weEmvT4iDQfAMn39>
Secure 50% ! Grab your e-certificate!

Department of EEE
KPRIET
kpriet.ac.in

Dr. S. Ravindran
Assistant Professor (Sr.G) / EEE
Co-ordinator

Dr. V. Kumar Chinnaiyan
Professor & Head / EEE

Quiz Webinar on Opportunities for Electrical Engineers in TNEB: Demystification

The department of Electrical and Electronics Engineering & Career Advancement Cell organized a webinar on “Opportunities for Electrical Engineers in TNEB: Demystification” on 25.01.2021 for students community. A heart-warming welcome remark was delivered by Dr.I.Baranilingesan, Assistant Professor, Department of EEE. Er.B.Gobu, M.E, M.I.E., Assistant Engineer, Grid Relay Test, TANTRANSCO, Coimbatore, Tamilnadu Presented the following deliberations

- Explained about TANTRANSCO
- Various Positions and levels in TNEB
- Syllabus and Examination of TNEB

Students expressed their gratitude towards the resource person for knowledge which he shared. This webinar is interesting for the students. 80 Participants from various institutions have attended the webinar. Dr.I.Baranilingesan, Assistant Professor, Department of EEE proposed the vote of thanks.



**KPR Institute of
Engineering and
Technology**
Learn Beyond (Autonomous, NAAC "A")
Avinashi Road, Arasur, Coimbatore.

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING
&
CAREER ADVANCEMENT CELL**
Organize a webinar on
**“Opportunities for Electrical Engineers in TNEB:
Demystification”**

Date and time: 23.01.2021, 06.00 PM



Er. B. Gobu, M.E., M.I.E.,
Assistant Executive Engineer
Grid Relay Tests
TANTRANSCO
Coimbatore.

Google meet link: <http://meet.google.com/qqp-myiy-gas>

| | | |
|--|------------------|---------------------------------------|
| Dr.V.Kumar Chinnaiyan Head, Dept. of EEE | Convenors | Dr.M.Kathirvelu Head, Dept. of ECE |
| Coordinator: Dr.I.Baranilingesan Assistant Professor/EEE | | www.kpriet.ac.in |

List of Eminent Academicians/Scientists Visit

| S.No. | Name and Designation | Organization |
|-------|-------------------------------|---|
| 1 | Er.B.Gobu, Assistant Engineer | Grid Relay Test, TANTRANSCO, Coimbatore |

Faculty Online Certification

| S.No | Faculty Name | Name of the Course | Credits/Grade | Organization |
|------|-------------------------|--|-------------------|--------------|
| 1 | Dr. V. Kumar Chinnaiyan | Teaching and Learning in General Programs: TALG | 1 Elite | NPTEL |
| 2 | Dr. V. Kumar Chinnaiyan | Ethics in Engineering Practice | 2 Elite+Silver | NPTEL |
| 3 | Dr. V. Kumar Chinnaiyan | Educational Leadership | 2 Elite | NPTEL |
| 4 | Dr.J.Karpagam | Teaching and Learning in General Programs: TALG | 2 Elite+Silver | NPTEL |
| 5 | Dr.J.Karpagam | Ethics in Engineering Practice | 2 Elite | NPTEL |
| 6 | Dr.J.Karpagam | Educational Leadership | 2 Elite+Silver | NPTEL |
| 7 | Dr.R.Uthirasamy | Teaching and Learning in General Programs: TALG | 1 Elite+Silver | NPTEL |
| 8 | Dr.R.Uthirasamy | Ethics in Engineering Practice | 2 Elite | NPTEL |
| 9 | Dr.R.Uthirasamy | Educational Leadership | 2 Elite+Silver | NPTEL |
| 10 | Mr.G.Saravanan | Op-Amp Practical Applications: Design, Simulation and Implementation | 3 Elite | NPTEL |
| 11 | Ms.V.J.Vijayalakshmi | Designing Learner-Centric E-Learning in STEM Disciplines | 1 Elite | NPTEL |
| 12 | Ms.V.J.Vijayalakshmi | Ethics in Engineering Practice | 2 Elite+Silver | NPTEL |
| 13 | Ms.V.J.Vijayalakshmi | Educational Leadership | 2 Elite+Silver | NPTEL |

| | | | | |
|----|--------------------|--|-------------------|-------|
| 14 | Ms.R.Revathi | DC Microgrid and Control System | 2 Elite | NPTEL |
| 15 | Mr.P.Ravikumar | Designing Learner-Centric E-Learning in STEM Disciplines | 1 Elite | NPTEL |
| 16 | Mr.P.Ravikumar | Ethics in Engineering Practice | 2 Elite | NPTEL |
| 17 | Mr.P.Ravikumar | Educational Leadership | 2 Elite | NPTEL |
| 18 | Mr.P.Ravikumar | Introduction to Research | 2 Elite | NPTEL |
| 19 | Mr.P.Ravikumar | Design Thinking – A Primer | 1 Elite+Silver | NPTEL |
| 20 | Dr. C.Pazhanimuthu | Introduction to Smart Grid | 2 Elite | NPTEL |

Students Online Certification

| S.No | Student Name | Year | Course | Credit | Result |
|------|---------------|-----------|--|--------|------------------------|
| 1 | J. Sudharsana | II EEE B | Data Science for Engineers | 3 | Successfully Completed |
| 2 | R. Suthamathi | II EEE B | Soft Skills | 3 | Elite |
| 3 | K. Aarthi | III EEE A | Digital Circuits | 3 | Successfully Completed |
| 4 | R. Aishwaryaa | III EEE A | Introduction to Smart Grid | 2 | Successfully Completed |
| 5 | S. Akash | III EEE A | Introduction to Smart Grid | 2 | Successfully Completed |
| 6 | B. Aravind | III EEE A | Introduction to Smart Grid | 2 | Successfully Completed |
| 7 | S. Ashok | III EEE A | Introduction to Embedded System Design | 3 | Successfully Completed |
| 8 | Pa Balaji | III EEE A | Introduction to Smart Grid | 2 | Successfully Completed |
| 9 | N. Bharathwaj | III EEE A | Introduction to Smart Grid | 2 | Successfully Completed |
| 10 | P. Boobalan | III EEE A | Introduction to Smart Grid | 2 | Successfully Completed |
| 11 | K. Darsini | III EEE A | Digital Circuits | 3 | Successfully Completed |

| | | | | | |
|----|------------------|-----------|---------------------------------------|---|------------------------|
| 12 | S. Dhivya | III EEE A | Introduction to Smart Grid | 2 | Successfully Completed |
| 13 | D. Gokul | III EEE A | Introduction to Smart Grid | 2 | Successfully Completed |
| 14 | P. Kiruthic | III EEE A | Introduction to Internet of Things | 3 | Elite |
| 15 | P. Kiruthic | III EEE A | Introduction to Smart Grid | 2 | Successfully Completed |
| 16 | M.Mohamed Harish | III EEE A | German - I | 3 | Elite |
| 17 | M.Mohamed Harish | III EEE A | German - II | 3 | Successfully Completed |
| 18 | S.Myvizhi | III EEE A | Introduction to Smart Grid | 2 | Successfully Completed |
| 19 | S.Myvizhi | III EEE A | Enhancing Soft Skills and Personality | 2 | Elite |
| 20 | N. Navaneethan | III EEE A | Introduction to Smart Grid | 2 | Successfully Completed |
| 21 | A. Naveen | III EEE B | Stress Management | 1 | Successfully Completed |
| 22 | S. Preethi | III EEE B | Introduction to Internet of Things | 3 | Successfully Completed |
| 23 | K.M. RamPrasad | III EEE B | Stress Management | 1 | Elite |
| 24 | S. Ranjith Kumar | III EEE B | Stress Management | 1 | Successfully Completed |
| 25 | K. K. Sharanya | III EEE B | Soft Skills | 3 | Elite |
| 26 | R.Sharook | III EEE B | Stress Management | 1 | Successfully Completed |
| 27 | S. Ameer Khan | IV EEE A | Enhancing Soft Skills and Personality | 2 | Elite |

Students Participation in Hands on Session/ Workshop/Seminar/Quiz/Paper Presentation

| S.No | Student Name | Year | Course | Date |
|------|--------------|----------|---------------------------------------|-------------------------|
| 1 | Dhivya M. | II EEE A | KPRIET - Bosch Hand - Holding session | 06/01/2021 - 12/01/2021 |
| 2 | Gokul S. | II EEE A | KPRIET - Bosch Hand - Holding session | 06/01/2021 - 12/01/2021 |

| | | | | |
|---|-------------------|-----------|---------------------------------------|-------------------------|
| 3 | Sudharsana J. | II EEE B | KPRIET - Bosch Hand - Holding session | 06/01/2021 - 12/01/2021 |
| 4 | Suvetha M.C. | II EEE B | KPRIET - Bosch Hand - Holding session | 06/01/2021 - 12/01/2021 |
| 5 | Balakarthish V. | III EEE A | KPRIET - Bosch Hand - Holding session | 06/01/2021 - 12/01/2021 |
| 6 | James I. | III EEE A | KPRIET - Bosch Hand - Holding session | 06/01/2021 - 12/01/2021 |
| 7 | Venkatachalam | III EEE B | KPRIET - Bosch Hand - Holding session | 06/01/2021 - 12/01/2021 |
| 8 | Kathir Vignesh S. | III EEE B | KPRIET - Bosch Hand - Holding session | 06/01/2021 - 12/01/2021 |

Students Participation in Project Presentation

| S.No | Student Name | Year | Project Contest |
|------|--|----------|-----------------|
| 1 | Kumaran G. Mariesh M. Sasidharan S. | IV EEE B | Toycathon 2021 |
| 2 | Sri Durga K. Santhosh G. Rathish D. Sudharshana J. | II EEE B | Toycathon 2021 |
| 3 | Dinesh Kumar S. Hari Prakash V. Ezhil Arasan S. | II EEE A | Toycathon 2021 |
| 4 | Suwetha S. Murugavel Surya A.S. Nishok Anand R. Santhosh S. Sethumadhavan A. Vaishnavi K. | I EEE | Toycathon 2021 |

Students Awards and Achievement

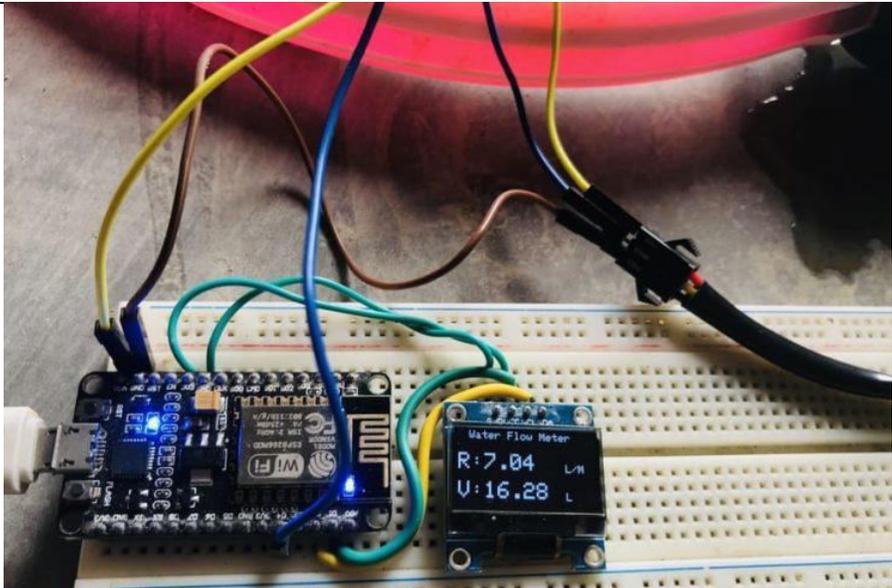
| S.No | Name of Student | Year | Event Name | Venue | Date |
|------|---|--------|-------------|---|--------------------------------|
| 1 | Kumaran G. Mariesh M. Sasidharan S. | IV - B | Ventura '21 | Entrepreneurship Cell, NIT - Trichy | Short listed for next round |

Student Placement Details

| S.No. | Student Name | Organization |
|-------|--------------------------|--------------------|
| 1 | DHEEPAK A.K. | EMBEDUR, ACCENTURE |
| 2 | KISHOR HARRI PRASANTH S. | ACCENTURE |
| 3 | HEPHZI A. | ACCENTURE |
| 4 | GOWREESH K.P. | ACCENTURE |
| 5 | PRAVEEN M. | ACCENTURE |



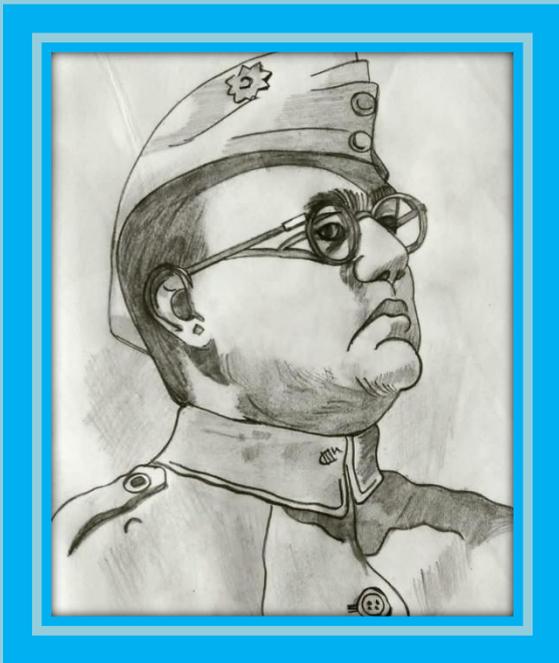
Product Development

| | |
|----------------------------------|---|
| Product Title | CLOUD BASED WATER FLOW METER |
| Name of the Supervisor | Mr.G.Saravanan, AP(SI.G)/EEE Mr.A.Mohamed Ibrahim, AP(Sr.G)/EEE Mr.C.Dinesh, AP/EEE |
| Product Description | <p>The main objective of this project is to make water supply more accountable and transparent which reduces the manual assistance, deliver secure and time efficient solution for the complex water system. Our project works with IoT device which help to manage and plan the usage of water. The system can be easily installed in residential societies. Sensors placed in the tank which continuously informs the water level at the current time. This information will be updated on the cloud and using an android application, user can visualize the water level on a smart phone anywhere that is connected to Internet. Water management system is an important part of City Management. Water management involves supplying water according to the real requirement & without wasting water. Without measuring these parameters, water management is almost impossible. Also monitoring the water volume, flow rate remotely using internet connectivity has become very essential. Therefore we designed the water management system through online.</p> |
| Photograph of the Product |  |

Student's Corner



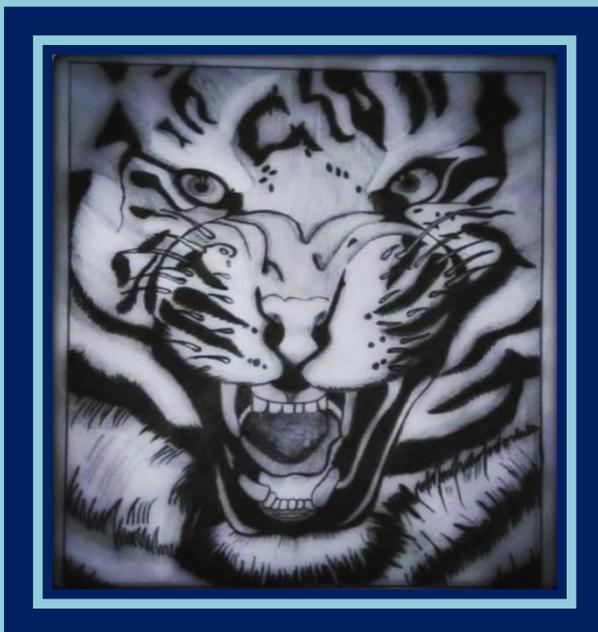
ART GALLERY



Student's Corner



ART GALLERY



G.Vinothini / III-EEE-B



KPR Institute of Engineering and Technology

Learn Beyond (Autonomous, NAAC "A")

Avinashi Road, Arasur, Coimbatore.

kpriet.ac.in



Department of EEE

is sanctioned with
Funds under

**AICTE Scheme for Promoting
Interests, Creativity and Ethics among
Students (SPICES) for academic year
2020 - 2021**

**Funding
upto
Rs 1,00,000/-**

Highlights of the Department

Average
Experience
10+ Years

Online
Students'
Certification
300+

Employable
Graduates
through OBTL

Student
Teacher Ratio
1:15



Research
Publications
300+



Special
Interest Group
AI, ML, DL, IoT



Technical
Programs
344+
Since 2013

Online
Certifications
100+ NPTEL

Solar Power
Plant
16 kWp

CONTACT

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