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Embedded & IOT-Technical Club

Ambient energy harvesting for IOT applications

Date: 08/02/2024

- Department Name** : ECE
- Event Date(s)** : 08/02/2024
- Event Time** : 5.20 pm to 7.00 pm.
- Event Name** : Ambient energy harvesting for IOT applications
- Event Category** : TEC
- Event Objective** : Event give overview of ambient energy sources and harvesting techniques. Discussions on challenges, opportunities, and future trends in ambient energy harvesting for IoT.
- Event Venue / Room No.** : R005
- Faculty Coordinator EMP.ID** : 6224
- Faculty Coordinator Name** : Dr. Atul Kumar, Asst. Professor, ECE
- Faculty Coordinator Email-ID** : atulkumar@kluniversity.in
- Student Organizers** : SHAIK JHANI (2100049089), PAPISETTI DEVI SAI SUMANTH (2100049008)

The following KLEF students have attended the SIL


| Sno | Student University ID No | Full Name of the Student | Department | Signature |
|-----|--------------------------|--------------------------|------------|-----------|
| 1 | 2200020006 | POLAKALA KRISHNA | CSE | Krishna |
| 2 | 2200030014 | PENDYALA SHYAM | CSE | shyam |
| 3 | 2200030051 | KAZA SRAVANI | CSE | SrdVani |

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|----|------------|--|-----|--------------|
| 4 | 2200030054 | YEDDU SRI DATTA SHANMUKH SAI | CSE | Sri Datta |
| 5 | 2200030445 | MUSUNURU JAHNAVI | CSE | M. Jahnavi |
| 6 | 2200030514 | KOTHAGUNDU JYOTHIKA PRIYA | CSE | J. Jayathi |
| 7 | 2200030741 | SAKALA GAYATHRI | CSE | Gayathri |
| 8 | 2200030903 | POTNURU KRISHNA MADHURYA | CSE | Madhurya |
| 9 | 2200030976 | DANDAMUDI PRASANTH | CSE | Prasanth |
| 10 | 2200031010 | BADUGU SOWMYA | CSE | Sowmya |
| 11 | 2200031139 | KOTA SREEVATSA | CSE | Sreevatsa |
| 12 | 2200031287 | UNNAM MADHAVI | CSE | Madhavi |
| 13 | 2200031289 | KANUMILLI HARINI | CSE | Harini |
| 14 | 2200031300 | RACHAPUDI CHAITHANYA LAKSHMI | CSE | Lakshmi |
| 15 | 2200031494 | VELICHETI VEERENDRA SIVA RAMA KRISHNA SAI | CSE | Krishna Sai |
| 16 | 2200031568 | INGUVA ADITYA KARTHIKEYA | CSE | N. Kartikeya |
| 17 | 2200031659 | SIGHAKOLLI VENKATA RAM VIJESH | CSE | Vijesh |
| 18 | 2200031718 | MARADA SRI REETHIKA | CSE | Reethika |
| 19 | 2200031987 | DATLA GOURAV VARMA | CSE | Varma |
| 20 | 2200032013 | KADAMBALA MANOJ | CSE | Manoj |
| 21 | 2200032015 | SHAVUKARI SANDEEP | CSE | Sandeep |
| 22 | 2200032326 | GANDU SAI TEJA | CSE | Sai Teja |
| 23 | 2200032335 | PERLA SRI SAI SRINIDH | CSE | Srinidh |
| 24 | 2200032524 | PASUPULETI .PRADEEP | CSE | Pradeep |
| 25 | 2200032599 | YADLAPALLI HARSHITH | CSE | Harshith |
| 26 | 2200032630 | RAJULAPATI SURESH | CSE | Suresh |
| 27 | 2200033012 | NISSI PAUL MIKKILI | CSE | Mikkili |
| 28 | 2200033206 | RAYUDU LAKSHMI CHAITANYA SRI | CSE | Chaitanya |
| 29 | 2200033214 | GADE THIRUMALESH | CSE | Thirumalesh |
| 30 | 2200039011 | GUDAPATI DEVARSHI | CSE | Devarshi |
| 31 | 2200039015 | CHALLA AJSK SAI SUMANTH | CSE | Sumanth |
| 32 | 2200039064 | PEDDAPUDI CHAITANYA | CSE | P. Chaitanya |
| 33 | 2200039068 | KURRA YASO KRISHNA | CSE | Krishna |
| 34 | 2200039073 | SURAMPUDI VEERA VENKATA RAM KUMAR | CSE | S. Kumar |
| 35 | 2200039075 | IRSHAD AHAMAD SHAIK | CSE | P. Irshad |
| 36 | 2200039094 | KOTTURU NIKHIL VISWANADH | CSE | N. N. Nikhil |
| 37 | 2200039114 | PAMPANA NAGENDRA | CSE | Nagendra |
| 38 | 2200039118 | APPANA BRAHMAIAH | CSE | Brahmaiah |
| 39 | 2200039129 | KOTA AKSHAY RATHNA | CSE | P. Akshay |
| 40 | 2200039169 | GUMMADI HARSHITHA | CSE | Harshitha |
| 41 | 2200040020 | MALLABATTULA PREMA SAI SRI RAMYA | ECE | M. Premai |
| 42 | 2200040022 | DEMULA GOPINADH | | V. Gopinadh |

| | | | | |
|----|------------|--|-----|-------------|
| 43 | 2200040025 | BANDARU NARENDRA REDDY | ECE | Narendra |
| 44 | 2200040033 | REBBA SAI SIVESH | | Sresh |
| 45 | 2200040040 | PILLALAMARRI ANNA BALA CHANDRAHASA | ECE | Bella |
| 46 | 2200040052 | VEGESNA BHAGAVAN MANIKANTA VARMA | | Varma |
| 47 | 2200040053 | VEGESNA INDRA VENKATA DURGA VARMA | ECE | dege |
| 48 | 2200040063 | RAMIREDDY HARIHARAN REDDY | ECE | Reddy |
| 49 | 2200040065 | KAMMA JAHNAVI | ECE | Janu |
| 50 | 2200040067 | SATTIRAJU ANUSHA | ECE | Anusha |
| 51 | 2200040096 | GOLLA ANKARAO | ECE | Golla |
| 52 | 2200040103 | CHELLURI JASWANTH | ECE | Jasant |
| 53 | 2200040106 | GOWTAM KETINENI | ECE | Ketneni |
| 54 | 2200040114 | PILLI SAI SANDEEP | ECE | Sandeep |
| 55 | 2200040116 | KAMISSETTY VAMSI KRISHNA | ECE | Vk |
| 56 | 2200040117 | DODDA AJAY BABU | ECE | Babu |
| 57 | 2200040121 | MAMIDI KARUNA RAHUL | ECE | Rahul |
| 58 | 2200040138 | ILA MOHANA ANATHA PAVAN KUMAR | ECE | Pavan |
| 59 | 2200040143 | MADDALI SRI MAVULAMMA MOUNIKA | ECE | Muffay |
| 60 | 2200040144 | CHANDRA KALYANI | ECE | Kalyani |
| 61 | 2200040148 | AALA ABHISHEK KUMAR | ECE | Abhishek |
| 62 | 2200040151 | VENKATA SUMANTH MUCHAKAYALA | ECE | Sumanth |
| 63 | 2200040164 | NADAKUDURU HARI KRISHNA | ECE | Hari |
| 64 | 2200040173 | PILLUTLA MANJUNAATH | ECE | Manu |
| 65 | 2200040179 | NAGA LALITH SAI DHEEMANTH K | ECE | Manu |
| 66 | 2200040182 | MOHAN SAI SANKAR ATKIMSETTY | ECE | Sankar |
| 67 | 2200040186 | KATTUNGA SATYA PRAKASH | ECE | Satya |
| 68 | 2200040190 | RAYEE VAISHNAVI | ECE | Vaishnavi |
| 69 | 2200040193 | YEDLAPALLI . CHIRUDEEPSHESHU | ECE | Chirudeep |
| 70 | 2200040194 | SUPPALA SWETHA | ECE | Swetha |
| 71 | 2200040195 | K . JYOTHSNA | ECE | Jyotsna |
| 72 | 2200040212 | DURGARAJU KANAKA HARSHITA | ECE | Harshita |
| 73 | 2200040217 | UPPULURI CHARAN | ECE | Charan |
| 74 | 2200040224 | INTURI SIVANI | ECE | Sivani |
| 75 | 2200040230 | PALIVELA LOKESWARA RAO | ECE | Lokeshwarao |
| 76 | 2200040234 | AVULA VENKATA VALLI DEVA SUBRAHMANYA SAI | ECE | Deva Sai |
| 77 | 2200040235 | KORIMILLI MANIKANTESH GOKUL | ECE | Gokul |
| 78 | 2200040237 | KARRE ARJUN | ECE | Arjun |
| 79 | 2200040241 | SHAIKH DENNISH KHAMOR | ECE | Khamor |
| 80 | 2200040243 | MALYALA SHIVA KUMAR | ECE | Shiva |

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|-----|------------|---------------------------------------|-------|------------------------|
| 81 | 2200040249 | SISTU SATHWIK | ECE | Sathwik |
| 82 | 2200040257 | TADIKONDA RAJESH | ECE | Rajesh |
| 83 | 2200040259 | DONTHEBOINA SHIVANI | ECE | Kakem |
| 84 | 2200040260 | YARABOLU RAKESH | ECE | Rakesh |
| 85 | 2200040261 | DASARI DEEKSHITA | ECE | Deekshita |
| 86 | 2200040306 | PINNABOINA VENKATA SAI KRISHNA | ECE | Sai Krishna |
| 87 | 2200040314 | PATNANA UDAY | ECE | Udaye |
| 88 | 2200040316 | NANDIVADA KRISHNA PRASAD | ECE | Prasad |
| 89 | 2200040330 | KONDI SHASHANK | ECE | Shashank |
| 90 | 2200040332 | ADAPA ABHITESH SRI VARDHAN | ECE | Vardha |
| 91 | 2200040350 | MUTCHI MURALI | ECE | Murali |
| 92 | 2200049009 | KARNAPP PRERNA | ECE | Prerna |
| 93 | 2200049014 | ZIAUR RAHMAN SYED | ECE | Rahman Syed |
| 94 | 2200049020 | PILLALA VENKATA SASI | ECE | Venkat |
| 95 | 2200049021 | GRANDHI JAYA KRISHNA | ECE | Krishna |
| 96 | 2200049027 | ROHITH REDDY GOPU | ECE | Rohith |
| 97 | 2200049036 | RUHULLA BAIG | ECE | Baig |
| 98 | 2200049038 | YAMPALA BHUVANESH | ECE | Bhuvanesh |
| 99 | 2200049053 | CHAITANYA GINJUPALLI | ECE | Chaitanya |
| 100 | 2200049054 | POTHIREDDY SAI LAKSHMI | ECE | Lakshmi |
| 101 | 2200049067 | GONGATI SANGEETHA | ECE | Sangeetha |
| 102 | 2200049078 | PANCHAGNULA NAGA VENKATA SRI KAMALESH | ECE | Venkat |
| 103 | 2200049080 | NALLABOTULA JAGADHISH | ECE | Jagdish |
| 104 | 2200049081 | MALLEPALLI ADITHYAA SAAI | ECE | Sai |
| 105 | 2200050028 | MANNAVA SAITEJA | ECS | Saiteja |
| 106 | 2200069063 | VALLURI NAGAVENKATA GAYATHRI | EEE | Venkat |
| 107 | 2200079028 | CHITTIDI ESWAR MANIKANTA | ME | Manikanta |
| 108 | 2200080211 | VENKATA NARAYANA GUMMADI | AI&DS | Narayan |
| 109 | 2200080227 | NISSANKARRAO MUKUNDA | AI&DS | Mukunda |
| 110 | 2200090029 | SUNDARASETTY VYSHNAVI | CSIT | Vishnavi |



 GPS Map Camera

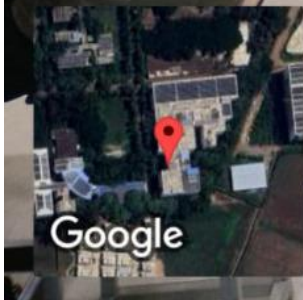
Vaddeswaram, Andhra Pradesh, India

CJRF+8FF, K L UNIVERSITY, Vaddeswaram, Andhra Pradesh 522303,
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Long 80.623662°

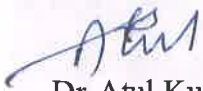
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Dr Atul Kumar delivered talk giving overview of ambient energy sources and harvesting techniques. Discussions on challenges, opportunities, and future trends in ambient energy harvesting for IoT. The technical event aim to provide value to attendees through knowledge acquisition, technical presentation skill and professional development.


Event Outcome:

The "Ambient energy harvesting for IOT applications" event delivered a transformative experience for participants, combining theoretical insights with hands-on practical exercises to deepen understanding and proficiency on indoor photovoltaics. Indoor photovoltaics represent a promising avenue for harnessing renewable energy sources and reducing dependency on grid electricity, especially in indoor spaces where artificial lighting is prevalent. As technology continues to advance, indoor PV systems have the potential to play a significant role in creating more sustainable and energy-efficient indoor environments.



Dr. Atul Kumar

Signature of Faculty Coordinator



Dr. M. Suman

Professor & Head
Department of ECE

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