



Koneru Lakshmaiah Education Foundation

(Category -1, Deemed to be University estd. u/s. 3 of the UGC Act, 1956)

Accredited by NAAC as 'A++' ♦ Approved by AICTE ♦ ISO 21001:2018 Certified

Campus: Green Fields, Vaddeswaram - 522 302, Guntur District, Andhra Pradesh, INDIA.

Phone No. +91 8645 - 350 200; www.klef.ac.in; www.klef.edu.in; www.kluniversity.in

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Ref: KLEF/RO/ECE/2021-22

Date: 15-01-2022

Orders of the Vice-Chancellor dt.15-01-2022

CIRCULAR

Sub: Conduction of ZROTRIYA 2022 – A National level Technical Fest – Reg.

Ref: Letter dated 15-01-2022 from Dr.K. Ch. Sri Kavya, Convener-ZROTRIYA forwarded by Dr.M. Suman, HOD-ECE.

This is by direction to inform that the Department of Electronics & Communication Engineering is conducting "**ZROTRIYA 2022**" a National level Technical Fest that includes various technical events like workshops, paper presentations, poster presentations and Project Expo.

Programme details:

Dates :20th and 21st January 2022

Venue : R&D Block

Invitation and brochure of the Fest are enclosed herewith.

Encl: Invitation and Brochure


REGISTRAR (I/C)
Dr. A. JAGADEESH
REGISTRAR (I/C)



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Department of Electronics and Communication Engineering Presents
&
In Association with Department Student Association
PULSE

2022 ZROTRIYA
A NATIONAL LEVEL TECHNICAL FEST
#THINK BEYOND INFINITY

JAN 20 & 21

Chairman Dr. M. Suman (HOD - ECE)	Convenor Dr. K. Ch. Sri Kavya (Professor - ECE)	Co-Convenor Mr. P. Srikanth Reddy (Incharge pulse)
Student Level		
Executive Chief M. Sindhu Chowdary ☎ 9912215780		Chief Student Coordinator Talasila Venkata Teja ☎ 8374201592

/pulseklu
/kl_zrotriya



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“Zrotriya-22” Department of ECE Technical Fest

Objective:

ZROTRIYA-2022, as a technical festival, sets out on a mission with numerous objectives aimed at enhancing the landscape of Electronics & Communication Engineering (ECE). Initially, it seeks to spark innovation by offering an energetic platform for presenting pioneering projects and revolutionary research endeavors in ECE. Additionally, the festival aims to promote collaboration and knowledge sharing among participants, including students, faculty, researchers, and industry experts, fostering an environment conducive to collective growth and learning. Through thought fully curate workshops, technical discussions, and immersive hands-on experiences, ZROTRIYA-2022 aims to strengthen the technical capabilities of participants, ensuring they stay updated on the latest advancements and emerging technologies in ECE. Moreover, the festival acts as a vital link between academia and industry, providing valuable opportunities for students to interact with industry professionals, gain insights into current industry trends and demands, and explore promising career paths within the field. Networking plays a crucial role in ZROTRIYA-2022, enabling participants to establish meaningful connections, foster collaborations, and expand professional horizons. By recognizing outstanding projects, research contributions, and individual achievements, the festival aims to inspire and motivate participants to strive for excellence in their academic and professional pursuits. Ultimately, the festival endeavors to foster a culture of excellence, innovation, and collaboration within the ECE community, nurturing the future generation of leaders, innovators, and

visionaries in the field.

Zrotriya-2022 Events Description:

Name of the Event	: wifi Pro
Venue	:R106(Lab)
Date of the Event	:20-01-2022
Incharge	: Dr John Philip

The "WiFi Pro" event is a dynamic gathering focused on exploring and advancing the capabilities of wireless networking technologies. Participants engage in workshops, seminars, and hands-on demonstrations to deepen their understanding of WiFi protocols, security measures, and optimization techniques. This event serves as a platform for networking, learning, and innovation, empowering professionals and enthusiasts to harness the full potential of WiFi technology.

AReportonWifiProon20-01-2022

With the intention of educating the students regarding basic electronics, Students are very eagerly learning and were very interested in taking part in their given problem statements.

Under the guidance of Mr. John Philip, Mr. Ch. Sreenivas Preetham , this event was very successful. Mr. P. Srikanth Reddy (Program Coordinator, KLEF PULSE) also took part in the event and together made the event a grand success.

Introduction: Pulse, the student body of the Electronics and Communication Engineering(ECE) department, hosted an engaging technical event as part of the Zrotriya National Level Technical Fest. Titled " **wifi Pro**" Technical Workshop: Mastering Your Home or Office WiFi Network," the event aimed to equip

participants with the knowledge and skills needed to manage their AWR (Advanced Wireless Router) effectively.

Key Highlights:

Comprehensive Guidance: Participants received comprehensive guidance on configuring AWRs to align with their unique needs and preferences. From enhancing security to optimizing network performance, the workshop covered various aspects of AWR management in detail. Hands-on

Demonstrations: Hands-on demonstrations were conducted to provide participants with practical insights into AWR configuration processes. Attendees had the opportunity to interact with AWR interfaces and learn firsthand how to implement security measures, create guest networks, and troubleshoot common issues. Interactive

Q&A Sessions: Interactive Q&A sessions encouraged participants to seek clarification on specific AWR-related queries and challenges they faced in managing their networks. Experienced instructors provided insightful responses and practical solutions to address participants' concerns effectively.

Real-world Scenarios: The workshop incorporated real-world scenarios to illustrate the relevance and applicability of AWR management techniques. Participants were presented with case studies reflecting common networking challenges encountered in home and office environments, enabling them to apply their newfound knowledge in practical settings.

Networking Opportunities: The event provided networking opportunities for participants to connect with peers, exchange ideas, and share experiences related to AWR management. Engaging discussions fostered a collaborative learning environment and encouraged knowledge sharing among participants.

Conclusion: The " wifi Pro" Technical Workshop: Mastering Your Home or Office WiFi Network" organized by Pulse during the Zrotriya National Level Technical Fest proved to be an enriching and insightful experience for participants. By equipping attendees with the knowledge and skills to manage AWRs effectively, the workshop empowered them to enhance the security, performance, and reliability of their home or office networks. **Acknowledgments:** The success of this event owes much to the dedication and efforts of the organizing committee, volunteers, instructors, and participants. Their enthusiasm and commitment played a pivotal role in creating a valuable learning experience for all involved. **Future Prospects:** Pulse remains committed to organizing similar technical workshops and events in the future, catering to the evolving needs and interests of ECE students and enthusiasts. By continuing to explore emerging technologies and trends in the field of electronics and communication.

Outcome:

An AWR technical event empowers you to transform your home or office Wi-Fi from frustrating to fantastic. Through the workshop, you'll gain the knowledge to configure your AWR for optimal performance. This includes setting up robust security to safe guard your network, creating guest networks, and implementing parental controls. You'll also learn to prioritize traffic (QoS) for a lag-free experience. But that's not all! The workshop dives into advanced features like beam forming for focused signals, MU-MIMO for handling multiple devices, and mesh networking for expansive coverage. Finally, you'll develop troubleshooting skills to conquer common issues like weak signals and dropped connections. By the end, you'll be a Wi-Fiwhiz,ensuring a smϑooth and reliable network for everyone.

Name of the Event	:Basics OF Electronics
Date of theEvent	:20-01-2022
Venue	:R104(Lab)

Incharges : Mrs.R Revathi, Mrs.KV Sowmya

The "Basics of Electronics" event is an introductory workshop designed to provide participants with fundamental knowledge and skills in electronic circuits and components. Through interactive lectures, demonstrations, and practical exercises, attendees gain an understanding of key concepts such as voltage, current, resistance, and circuit analysis. This event serves as a foundation for further exploration and study in the field of electronics, catering to beginners and enthusiasts alike.

A Report on Basics Of Electronics on 02-02-2022

Under the guidance of R.Revathi, K.V. Sowmya, this event was very successful. The outcomes of BASICS OF ELECTRONICS encompassed the recognition of winners for their prowess in electrical circuit design, analysis, and troubleshooting, along side the enhancement of participants' skills and knowledge in the field. Networking opportunities facilitated valuable connections among enthusiasts, students, educators, and professionals, fostering collaboration and knowledge exchange. Feedback collected from stakeholders aimed at refining future editions, ensuring continual improvement. Moreover, the events serve as a source of inspiration and motivation, encouraging participants to pursue further exploration and opportunities within the realm of electrical engineering.

Event Structure:

Basics of Electronics comprised several competitive rounds designed to test participants' capabilities across different areas of electrical engineering. The event featured challenges ranging from basic circuit design to complex troubleshooting scenarios, ensuring a comprehensive assessment of participants' skills.

Preliminary Round: Participants were required to solve theoretical problems related to electrical circuits, demonstrating their understanding of fundamental concepts.

Design Challenge: In this round, participants were tasked with designing circuits to meet specific requirements, such as voltage regulation, signal amplification, or frequency filtering. Creativity, efficiency, and adherence to design constraints were key evaluation criteria.

Simulation Round: Participants used simulations software to analyze and optimize circuit performance under different conditions. This round tested participants' ability to interpret simulation results and make informed design decisions.

Troubleshooting Round: This round presented participants with malfunctioning circuits, and they were required to identify and rectify faults within a stipulated time frame. Effective problem diagnosis, logical reasoning, and swift decision-making were crucial in this round.

Presentation Round: Finalists presented their circuit designs, analysis techniques, and problem-solving approaches to a panel of judges. Participants were evaluated based on the clarity of their presentation, depth of understanding, and ability to articulate their ideas effectively.

Outcome:

Basics Of Electronics achieved its objective of providing a platform for participants to showcase their skills and knowledge in electrical engineering. The event not only assessed participants' technical proficiency but also encouraged collaboration, as participants exchanged ideas and strategies throughout the competition.

Moreover, Basics of Electronics fostered a spirit of innovation and creativity by challenging participants to devise efficient solutions to real-world problems. Participants gained valuable insights into the practical application of electrical engineering principles and developed critical thinking skills essential for the field.

Name of the Event :ERROR DETECT

Date of the Event : 21-01-2022
Venue : R107(Lab)
Incharge : Dr Aswin Kumer

The "Error Detect" event is a hands-on workshop focused on teaching participants techniques and strategies for identifying and resolving errors in various systems and processes. Through practical exercises, case studies, and troubleshooting simulations, attendees learn to diagnose and rectify common errors effectively. This event equips participants with valuable problem-solving skills and enhances their ability to address errors efficiently in real-world scenarios.

A Report on ERROR DETECT on 21-01-2022

With the intention of educating the students regarding basic electronics, Students are very eagerly learning and were very interested in taking part in their given problem statements.

Under the guidance of Mr. Dr Aswin Kumer, this event was very successful. Mr. P. Srikanth Reddy (Program Coordinator, KLEF PULSE) also took part in the event and together made the event a grand success.

Organizer: Pulse-ECE Department Student Body

Introduction:

Pulse, the student body of the Electronics and Communication Engineering (ECE) department, orchestrated an innovative event titled "ERROR DETECT" during the Zrotriya National Level Technical Fest. This event was meticulously crafted with the objective of fostering innovation and problem-solving within the realm of System-on-Chip (SoC) technology.

Event Overview:

ERROR DETECT aimed to challenge participants' analytical skills, technical proficiency, and teamwork abilities through the identification, diagnosis, and resolution of bugs or issues within complex SoC designs. By delving into real-world SoC challenges, the event sought to cultivate creativity and ingenuity among participants while providing a platform for collaborative problem-solving.

Key Highlights:**Challenge Format:**

Participants were presented with intricate SoC designs containing hidden bugs or issues. Their task was to meticulously analyze the designs, identify the anomalies, and devise effective solutions to rectify the detected bugs. The challenge format encouraged participants to employ a combination of theoretical knowledge, practical expertise, and innovative thinking to overcome obstacles.

Team Collaboration:

The event emphasized the importance of teamwork, as participants worked collaboratively in teams to unravel the complexities of SoC designs. By fostering interdisciplinary collaboration and communication, ERROR DETECT encouraged participants to leverage each other's strengths and perspectives in tackling challenging scenarios.

Technical Proficiency:

ERROR DETECT provided participants with a platform to showcase their technical prowess in SoC design and debugging. Participants utilized state-of-the-art tools and methodologies to analyze and debug complex hardware and software interactions within SoC architectures. The event served as a testament to

participants' proficiency in navigating the intricacies of modern electronic systems.

Innovation and Creativity:

Participants were encouraged to think outside the box and explore innovative solutions to address SoC bugs effectively. Through creative problem-solving approaches, participants demonstrated their ability to adapt to dynamic challenges and devise novel strategies for bug resolution. ERROR DETECT served as a catalyst for cultivating a culture of innovation and ingenuity within the ECE community.

Conclusion:

ERRORDETECT emerged as a captivating and intellectually stimulating event, showcasing the prowess of participants in tackling real-world SoC challenges. The event not only honed participants' analytical skills and technical proficiency but also fostered a spirit of teamwork, innovation, and creativity within the ECE community. As technology continues to advance, events like ERROR DETECT play a crucial role in preparing future engineers to tackle the complexities of SoC design and contribute meaningfully to the field of electronics engineering.

Acknowledgments:

The success of ERROR DETECT would not have been possible without the dedicated efforts of Pulse, the ECE department student body, as well as the enthusiastic participation of all attendees. Their collective commitment to excellence and passion for innovation contributed to making ERROR DETECT a memorable and enriching experience for all

involved.

Future Prospects:

Moving forward, Pulse is committed to organizing more such events that challenge participants to push the boundaries of innovation and problem-solving in electronic engineering. ERROR DETECT has set a precedent for fostering collaboration, creativity, and technical excellence within the ECE community, and future editions of the event are poised to build upon this foundation and inspire the next generation of electronic engineers.

Outcome:

The outcomes of the ERROR DETECT event culminated in the successful identification and resolution of bugs within various system-on-chip (SoC) designs, showcasing participants' adeptness in problem-solving and technical proficiency. Participants gained valuable hands-on experience in diagnosing and addressing complex SoC issues, furthering their skills and knowledge in this specialized field. Moreover, the event fostered collaboration and teamwork among participants, promoting the exchange of ideas and best practices. The successful resolution of bugs not only contributed to the advancement of SoC technology but also provided participants with a sense of accomplishment and validation of their capabilities within the field.

Name of the Event	:KnightsofNI
Date of the Event	: 21-01-2022
Venue	: R304A
Incharges	: Dr P Pardhasarathi

The "Knights of NI" event is an immersive medieval-themed competition where participants engage in challenges that test their teamwork, creativity, and problem-solving skills. Teams embark on quests, puzzles, and physical challenges reminiscent of

the legendary Knights of the Round Table, fostering camaraderie and collaboration among participants. This event offers a unique blend of adventure and strategic thinking, providing an unforgettable experience for all involved.

A Report on Knights of NI

In the esteemed Department of ECE at KL Deemed to be University, the "Knights of NI" program unfolded on January 6, 2020, at R&D 304A, commencing at 9:30 AM. Guided by Mr. D. PardhaSaradhi, the event aimed to educate students on basic electronics. Under their expert guidance, students enthusiastically engaged with the provided problem statements, displaying eagerness to learn and participate. The presence of Mr. P. Srikanth Reddy, Program Coordinator of Pulse KLEF, further enriched the event, contributing to its success. "Knights of NI" served as a testament to intellectual engagement and the pursuit of knowledge in the digital age. Participants expressed gratitude towards the organizers for their dedication to fostering enlightenment in online discourse.

Guidance and Support:

The expert guidance provided by Dr. Kishore and Mr. Saradhi played a crucial role in nurturing enthusiasm and facilitating a conducive learning environment. The presence of Mr. P. Srikanth Reddy, Program Coordinator of Pulse KLEF, further enriched the experience, highlighting the importance of community engagement in educational initiatives.

Gratitude and Recognition:

Participants expressed sincere gratitude towards the organizers for their dedication to enlightenment in online discourse, emphasizing the vital role played by individuals in fostering intellectual curiosity and the pursuit of knowledge in the digital age.

Outcome:

The "Knights of NI" event at KL Deemed to be University served as a catalyst for heightened recognition and appreciation of the invaluable contributions made by individuals to online discourse. Through interactive sessions and problem-solving activities, attendees were inspired to engage intellectually, fostering vibrant dialogues and strengthening bonds within online communities. The event emphasized the promotion of positive and respectful discussion norms, encouraging attendees to uphold these standards in their online interactions. By showcasing exemplary behavior and acknowledging the efforts of the Knights of NI, the event served as a source of encouragement for continued contributions, collectively fostering an enriched and constructive digital discourse environment. Moreover, attendees were motivated to actively participate in online discourse, recognizing the significance of their contributions in shaping digital conversations and disseminating knowledge. The event facilitated the formation of supportive networks among participants, fostering collaboration and mentorship opportunities that extend beyond the confines of the program.

Conclusion:

The "Knights of NI" program exemplified a commitment to nurturing intellectual curiosity and fostering a culture of learning. Through collaborative efforts and expert guidance, the event successfully promoted enlightenment and knowledge dissemination in the digital realm.

Name of the Event	: NIMyDaq WORKSHOP
Date of the Event	: 19-01-2022
Venue	: R-6 TH FLOOR (Lab) (COE)
Incharge	: Mr. Namgiri Suresh

The "NI MyDAQ Workshop" is an interactive session where participants learn to use National Instruments' MyDAQ hardware and software for hands-on experimentation and data acquisition. Through guided demonstrations and practical exercises, attendees explore various applications of MyDAQ in electrical engineering, physics, and beyond. This workshop equips participants with the skills to leverage MyDAQ for conducting experiments, analyzing data, and gaining valuable insights in their respective fields.

A Report on NIMYDAQ on 04-01-2022

With the intention of educating the students regarding basic electronics, Students are very eagerly learning and were very interested in taking part in their given problem statements.

Under the guidance of Mr. Namgiri Suresh, this event was very successful. Mr. P. Srikanth Reddy (Program Coordinator, KLEF PULSE) also took part in the event and together made the event a grand success.

Outcome:

An NI MyDAQ workshop offers a valuable learning experience for those interested in data acquisition. Through the workshop, you'll gain hands-on skills in using National Instruments' My-Daq system. This includes learning how to configure the hardware and software to effectively collect data from various sensors and instruments. You'll also delve into methods for analyzing the acquired

measurements, allowing you to extract meaningful insights from the data. By the workshop's conclusion, you'll be well- equipped to utilize the My-Daq system for your own data acquisition projects.

- Event Coordinator : Dr. Phalguni Singh
- Technical Coordinator :Dr Arun mehta

The Zrotriya National Level Technical Fest celebrated the realm of electronics with its flagship event titled" Advancements in Electronics: A Glimpse into the Future."This event was meticulously organized by the Electronics Branch of the fest, aiming to provide participants with insights into cutting-edge developments in electronic technologies.

Event Overview: The event comprised various segments tailored to cater to the diverse interests and knowledge levels of participants. From key note presentations by industry experts to hands-on workshops and competitive challenges, the event encapsulated the essence of contemporary electronic innovations.

1. Keynote Presentations: Renowned experts from academia and industry delivered keynote addresses, shedding light on emerging trends and future prospects in electronics. Topics ranged from quantum computing and nanotechnology to Internet of Things (IoT) and artificial intelligence (AI) applications in electronics.

Workshops: Practical workshops were conducted to impart valuable skills and knowledge to participants. Topics included PCB design, embedded systems programming, robotic automation, and 3D printing in electronics manufacturing. These workshops provided attendees with the opportunity to delve into hands-on learning experiences under the guidance of experienced instructors.

- 1) Technical Competitions: The event hosted a series of technical competitions designed to challenge participants' ingenuity and problem-solving abilities. Contests such as circuit design challenges, robotics competitions, and hackathons tested participants' creativity and technical prowess. Winners were rewarded with accolades and prizes, motivating participants to showcase their best efforts.
- 2) Exhibition: An exhibition showcasing the latest electronic gadgets, prototypes, and research projects was a major attraction of the event. Participants had the opportunity to interact with exhibitors, explore innovative technologies, and gain insights into real-world applications of electronics.
- 3) Panel Discussions: Engaging panel discussions were organized on pertinent topics such as sustainable electronics, ethical considerations in technology development, and the future of consumer electronics. These discussions fostered intellectual discourse and encouraged participants to critically analyze the societal impact of electronic advancements.

Conclusion: "Advancements in Electronics: A Glimpse into the Future" emerged as a resounding success, captivating the imagination of participants and fostering a spirit of innovation and collaboration. The event not only showcased the latest developments in electronics but also provided a platform for networking, learning, and inspiration.

As technology continues to evolve at a rapid pace, events like these play a pivotal role in shaping the future of electronic engineering and fostering a vibrant ecosystem of technological innovation. Acknowledgments: The success of this event would not have been possible without the unwavering support of the organizing committee, volunteers, sponsors, speakers, and participants.

Their collective efforts and enthusiasm contributed to making this event a

memorable and enriching experience for all involved.

Future Prospects: As the field of electronics continues to evolve, the Zrotriya National Level Technical Fest is committed to organizing more such events to keep pace with the dynamic nature of technology and provide a platform for fostering creativity, collaboration, and excellence in the field of electronics engineering.

Name of the Event	:PAPER PRO
Date of the Event	: 02-01-2022
Venue	: R104(Lab)
Incharge	: Mr B Sai Sandeep

The "Paper Pro" event is a platform for individuals to showcase their proficiency in paper presentation and academic discourse. Participants deliver insightful presentations on research papers, projects, or academic topics within their field of expertise. Through engaging discussions and constructive feedback, this event fosters knowledge sharing and encourages the development of effective communication skills among presenters.

A Report on PAPERPRO

With the intention of educating the students regarding basic electronics, Students are very eagerly learning and were very interested in taking part in their given problem statements.

Under the guidance of B Sai Sandeep,G L P Ashok, this event was very successful. Mr.P. Srikanth Reddy (Program Coordinator, KLEF PULSE) also took part in the event and together made the event a grand success.

The outcomes of “**PAPER PRO**” encompassed the recognition of winners for their prowess in electrical circuit design, analysis, and troubleshooting, alongside the enhancement of participants' skills and knowledge in the field. Networking opportunities facilitated valuable connections among enthusiasts, students, educators, and professionals, fostering collaboration and knowledge exchange. Feedback collected from stakeholders aimed at refining future editions, ensuring continual improvement. Moreover, the event served as a source of inspiration and motivation, encouraging participants to pursue further exploration and opportunities within the realm of electrical engineering.

Moment was captured in a single frame, encapsulating the essence of the PAPER PRO event. In the photograph, a group of enthusiastic participants is seen engaged in an animated discussion, surrounded by stacks of papers and research materials. The intense expressions on their faces reflect the intellectual fervor and passion for knowledge exchange that permeated the event. With hands gesturing emphatically and minds abuzz with ideas, the participants epitomize the spirit of academic inquiry and collaboration fostered by PAPER PRO. This snapshot serves as a poignant reminder of the profound impact of scholarly endeavors and the transformative power of sharing knowledge within the dynamic milieu of Zrotriya.

JUDGES:

4)Dr K.Srinivasa Rao

5) Dr.Phani Kishore 3)Dr.Rehman 4)Dr.K.S.Ramesh

Event Structure:

PAPERPRO comprised several competitive rounds designed to test participants' capabilities across different areas of electrical engineering. The event featured challenges ranging from basic circuit design to complex trouble shooting scenarios, ensuring a comprehensive assessment of participants' skills.

Preliminary Round: Participants were required to solve theoretical problems related to electrical circuits, demonstrating their understanding of fundamental concepts.

Design Challenge: In this round, participants were tasked with designing circuits to meet specific requirements, such as voltage regulation, signal amplification, or frequency filtering. Creativity, efficiency, and adherence to design constraints were key evaluation criteria.

Simulation Round: Participants used simulation software to analyze and optimize circuit performance under different conditions. This round tested participants' ability to interpret simulation results and make informed design decisions.

Trouble shooting Round: This round presented participants with mal functioning circuits, and they were required to identify and rectify faults within a stipulated time frame. Effective problem diagnosis, logical reasoning, and swift decision-making were crucial in this round.

Presentation Round: Finalists presented their circuit designs, analysis techniques, and problem-solving approaches to a panel of judges. Participants were evaluated based on the clarity of their presentation , depth of understanding, and ability to articulate their ideas effectively.

Outcome:

PAPER PRO achieved its objective of providing a platform for participant's show case their skills and knowledge in electrical engineering. The event not only assessed participants' technical proficiency but also encouraged collaboration, as participants exchanged ideas and strategies throughout the competition.

Moreover, PAPER PRO fostered a spirit of innovation and creativity by challenging participants to devise efficient solutions to real-world problems. Participants gained valuable insights into the practical application of electrical engineering principles and developed critical thinking skills essential for the field.

Conclusion:

PAPERPRO, as part of “Zrotriya” played a pivotal role in promoting excellence in electrical engineering by nurturing talent, encouraging skill development, and fostering a culture of innovation. The event provided participants with a platform to demonstrate their abilities, collaborate with peers, and gain invaluable experience in tackling real-world engineering challenges. Moving forward, initiatives like PAPER PRO are essential for nurturing the next generation of electrical engineers and driving technological advancement in the field.

Date of the Event	:06-01-2022
Name of the Event	:POSTERPRESENTATION
Venue	:R104(Lab)
Incharges	: Mr.K Sripath Roy

The "Poster Presentation" event provides participants with the opportunity to visually showcase their research, projects, or ideas on a large format poster. Attendees present their work to a diverse audience, explaining key findings, methodologies, and implications in a concise and visually appealing manner. This event fosters communication skills, facilitates knowledge exchange, and promotes networking among peers and experts in various fields.

A Report on POSTER PRESENTATION

With the intention of educating the students regarding basic electronics, Students are very eagerly learning and were very interested in taking part in their given problem statements.

Under the guidance of K.Sripath Roy this event was very successful. Mr. P. Srikanth Reddy (Program Coordinator, KLEF PULSE) also took part in the event and together made the event a grand success.

The outcomes of **“POSTER PRESENTATION ”** encompassed the recognition of winners for their prowess in electrical circuit design, analysis, and troubleshooting, alongside the enhancement of participants' skills and knowledge in the field. Networking opportunities facilitated valuable connections among enthusiasts, students, educators, and professionals, fostering collaboration and knowledge exchange. Feedback collected from stakeholders aimed at refining future editions, ensuring continual improvement. Moreover, the event served as a source of inspiration and motivation, encouraging participants to pursue further exploration and opportunities within the realm of electrical engineering.

By challenging participants to design posters on diverse themes related to science, technology, engineering, and mathematics (STEM), the event aimed to promote interdisciplinary collaboration and inspire novel approaches to problem-solving.

Event Structure:

POSTER PRESENTATION featured an array of innovative projects spanning multiple disciplines, including but not limited to computer science, engineering, biotechnology, and sustainability. The event comprised the following components:

Project Exhibits:

Participants set up booths to showcase their projects, providing detailed demonstrations and explanations to visitors. The exhibits offered a hands-on experience, allowing attendees to interact with the projects and understand their functionalities.

POSTER PRESENTATIONS:

In addition to physical exhibits, participants prepared posters summarizing their projects' objectives, methodologies, and outcomes. POSTER PRESENTATIONS provided a concise overview of the projects and facilitated discussions among participants and visitors. Participants were tasked with designing circuits to meet specific requirements, such as voltage regulation, signal amplification, or frequency filtering. Creativity, efficiency, and adherence to design constraints were key evaluation criteria.

Technical Talks and Workshops:

POSTER PRESENTATION featured technical talks and workshops conducted by industry experts and academic scholars. Topics covered a wide range of subjects, including emerging technologies, research methodologies, and career opportunities in various fields.

Judging and Awards Ceremony:

A panel of esteemed judges evaluated the projects based on criteria such as innovation, technical merit, practical applicability, and presentation quality. Winners were recognized and awarded prizes during the closing ceremony, acknowledging their contributions to the technological landscape.

Outcomes:

POSTER PRESENTATION at Zrotriya facilitated knowledge exchange, collaboration, and inspiration among participants and attendees. The event provided a platform for emerging talents to gain visibility, receive feedback, and forge valuable connections within the tech community. Moreover, POSTER PRESENTATION promoted innovation and encouraged participants to explore new frontiers in technology, addressing real-world challenges and driving positive change.

By showcasing a diverse range of projects, POSTER PRESENTATION highlighted the significance of interdisciplinary collaboration and the transformative power of technology in addressing global issues. Participants gained invaluable experience in project management, communication, and problem-solving, fostering their personal and professional development. The intense expressions on their faces reflect the intellectual fervor and passion for knowledge exchange that permeated the event. With hands gesturing emphatically and minds abuzz with ideas, the participants epitomize POSTER

PRESENTATION emerged as a cornerstone event within Zrotriya, encapsulating the essence of innovation, collaboration, and excellence in technology. The event not only celebrated the achievements of participants but also inspired future generations to pursue their passion for technology and make meaningful contributions to society. Moving forward, initiatives like POSTER PRESENTATION are instrumental in nurturing talent, fostering innovation, and shaping the future of technology on a global scale.

Moreover, POSTER PRESENTATION fostered a spirit of innovation and creativity by challenging participants to devise efficient solutions to real-world problems. Participants gained valuable insights into the practical application of electrical engineering principles and developed critical thinking skills essential for the field.

Zrotriya's POSTER PRESENTATION Event: A dynamic showcase of creativity and innovation, where participants craft visually stunning posters to communicate complex STEM concepts effectively. Empowering participants to unleash their design talents and express their ideas visually through POSTER PRESENTATION event at the national-level techno fest, Zrotriya

Conclusion:

POSTER PRESENTATION, as part of “**Zrotriya**” played a pivotal role in promoting excellence in electrical engineering by nurturing talent, encouraging skill development, and fostering a culture of innovation. The event provided participants with a platform to demonstrate their abilities, collaborate with peers, and gain invaluable experience in tackling real-world engineering challenges. Moving forward, initiatives like POSTER PRESENTATION are essential for nurturing the next generation of electrical engineers and driving technological advancement in the field.

Name of the Event	:PROJECTEXPO
Date of the Event	:05-01-2022
Venue	: R104(Lab)
Incharges	: Dr D Bhavana

The "Project Expo" event is a dynamic showcase where participants display their innovative projects, prototypes, and research endeavors to a diverse audience. Attendees have the opportunity to interact with creators, explore cutting-edge technologies, and learn about groundbreaking solutions across various fields. This event fosters collaboration, inspiration, and networking, providing a platform for recognition and collaboration among students, professionals, and industry leaders.

A Report on PROJECT EXPO

By challenging participants to design posters on diverse themes related to science, technology, engineering, and mathematics (STEM), the event aimed to promote inter disciplinary collaboration and inspire novel approaches to problem-solving.

Event Structure:

Project Expo featured an array of innovative projects spanning multiple disciplines, including but not limited to computer science, engineering, biotechnology, and sustainability. The event comprised the following components:

Project Exhibits:

Participants set up booths to showcase their projects, providing detailed demonstrations and explanations to visitors. The exhibits offered a hands-on experience, allowing attendees to interact with the projects and understand their

functionalities.

PROJECT EXPO:

In addition to physical exhibits, participants prepared posters summarizing their projects' objectives, methodologies, and outcomes. PROJECT EXPO s provided a concise overview of the projects and facilitated discussions among participants and visitors. Participants were tasked with designing circuits to meet specific requirements, such as voltage regulation, signal amplification, or frequency filtering. Creativity, efficiency, and adherence to design constraints were key evaluation criteria.

Technical Talks and Workshops:

Project Expo featured technical talks and workshops conducted by industry experts and academic scholars. Topics covered a wide range of subjects, including emerging technologies, research methodologies, and career opportunities in various fields.

Judging and Awards Ceremony:

A panel of esteemed judges evaluated the projects based on criteria such as innovation, technical merit, practical applicability, and presentation quality. Winners were recognized and awarded prizes during the closing ceremony, acknowledging their contributions to the technological landscape.

Outcomes:

Project Expo at Zrotriya facilitated knowledge exchange, collaboration, and inspiration among participants and attendees. The event provided a platform for emerging talents to gain visibility, receive feedback, and forge valuable connections within the tech community. Moreover, Project Expo promoted innovation and encouraged participants to explore new frontiers in technology,

addressing real-world challenges and driving positive change.

By showcasing a diverse range of projects, Project Expo highlighted the significance of interdisciplinary collaboration and the transformative power of technology in addressing global issues. Participants gained invaluable experience in project management, communication, and problem-solving, fostering their personal and professional development. The intense expressions on their faces reflect the intellectual fervor and passion for knowledge exchange that permeated the event. With hands gesturing emphatically and minds abuzz with ideas, the participants epitomize Project Expo emerged as a cornerstone event within Zrotriya, encapsulating the essence of innovation, collaboration, and excellence in technology. The event not only celebrated the achievements of participants but also inspired future generations to pursue their passion for technology and make meaningful contributions to society. Moving forward, initiatives like Project Expo are instrumental in nurturing talent, fostering innovation, and shaping the future of technology on a global scale.

Moreover, PROJECT EXPO fostered a spirit of innovation and creativity by challenging participants to devise efficient solutions to real-world problems. Participants gained valuable insights into the practical application of electrical engineering principles and developed critical thinking skills essential for the field.

Zrotriya's PROJECT EXPO Event: A dynamic showcase of creativity and innovation, where participants craft visually stunning posters to communicate complex STEM concepts effectively. Empowering participants to unleash their design talents and express their ideas visually through PROJECT EXPO event at the national-level techno fest, Zrotriya.

Conclusion:

PROJECT EXPO , as part of “Zrotriya” played a pivotal role in promoting

excellence in electrical engineering by nurturing talent, encouraging skill development, and fostering a culture of innovation. The event provided participants with a platform to demonstrate their abilities, collaborate with peers, and gain invaluable experience in tackling real-world engineering challenges. Moving forward, initiatives like PROJECT EXPO are essential for nurturing the next generation of electrical engineers and driving technological advancement in the field.

Event Photos:



Students' participation in the event "wifi Pro" a part of Zrotriya -2022 at R & D Block on 20-01-2022

Here we can observe by the picture that our faculty members were involved in this event, and they came to the front to interview students.

In the below pictures we made the students as a group as their wish and give a troubleshoot to solve it, meanwhile faculty came to take part in it. The pictures represent the review sessions going on in the event where the students are awarded marks.



Students participation in the event “Basics of Electronics” along with the event organizers and judges.

Here we can observe by these two picture that our Honorable faculty members were involved in this event and they came front to interview and conducted a HR round for the students.

In this picture we made the students as a groups as their wish and give a troubleshoot to solve it, meanwhile faculty came to take part in it.



Students were encouraged by the judge with the demo on the “Electronics devices”

Here we can observe by these two picture that our Honorable faculty members were involved in this event and they came front to interview and conducted a HR round for the students.



Students Participation in the event “Error Detect” on 21-01-2022

Here we can observe by these two pictures that our senior members were involved in this event and they came front to interview and conducted a HR round for the students. In this picture we made the students as a group as their wish and give a troubleshoot to solve it, meanwhile faculty came to take part in it.



Students participating in “Knights of NI” on 21-02-2022

Here we can observe by these two pictures that our senior members were involved in this event and they came front to interview and conducted a HR round for the students. In this picture we made the students as a group as their wish and give a troubleshoot to solve it, meanwhile faculty came to take part in it.



Students organizing “NI My DAQ” event on 19-01-2022

In this picture we made the students as a group as their wish and give a troubleshoot to solve it, meanwhile faculty came to take part in it.



Students participating and organizing “Paper Pro” event





Students participating in the event of Poster presentation



Students participating in the event of Poster presentation

Mutta Venkata Sai Deepak	180040094	ECE	MUS... N. Sai Kiran
Nadimpalli Sai Kiran	180040096	ECE	A. said Bala Siva Syobh
Akula said Bala Siva jyothika	180040099	ECE	Sonali
panchayutula sonali	180040104	ECE	P. R.
A.Narendra Reddy	180040106	ECE	W.
Gunnam Purna Chandrika	180040108	ECE	V. Naranga
Venkat Namana	180040111	ECE	W.
Dadi Sri Vandhana	180040114	ECE	Sree bharan
TANNEERU SAI BHARGAV	180040146	ECE	Nas
M.Namratha	180040148	ECE	Kaffi Sree
N.Laya Sree	180040156	ECE	P. Hemachand
Hemchand Pidikiti	180040157	ECE	O. Arif
Dalali Arif	180040165	ECE	Rahul.
Gembali Durga Narasimha Rahul	180040172	ECE	P. R.
Stalin Raj Kusuma	180040173	ECE	W.
shaik mohammed junaid	180040176	ECE	P. Teja
B.Ramcharan Teja	180040179	ECE	W.
K.Sravani Annapurna	180040189	ECE	AS
Galla.yamini Lakshmi	180040190	ECE	AS
Vyshnavi	180040192	ECE	Bhavya Tejaswi
Bhavya Tejaswi Manepalli	180040196	ECE	P. Anil Sai jaswanth
PAILA ANIL SAI JASWANTH	180040198	ECE	S. yongendra reddy
SANIKOMMU YOGENDHRAAREDDY	180040199	ECE	Sreeeth
PATRI SAI SREEHITH	180040205	ECE	P. R.
pasupuleti.srija	180040228	ECE	W.
GEDDADA SAI SANDEEP	180040229	ECE	TVVRP. Harsha
Tadikamalla V V R N Sri Harsha	180040231	ECE	Ramali
Mudigonda Vamsi Jwala Ramalingeswar	180040239	ECE	N. Kalya
MANDADI NIKHILA	180040244	ECE	Tej
Maddula Tejasri	180040249	ECE	Aditya Gokul Reddy
ADITYA GOKUL REDDY BHIMAVARAPU	180040254	ECE	K. Nithya
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Sai chaitanya.Nandina	180040275	ECE	W.
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BODAPATI SAI KRISHNA	180040332	ECE	

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5	Naga sai surya prakash reddy	180040194	ECE	<i>Prakash</i>
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