POLARIS

The Right Spark

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NEWSLETTER

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

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KKR &KSR INSTITUTE OF TECHNOLOGY & SCIENCES
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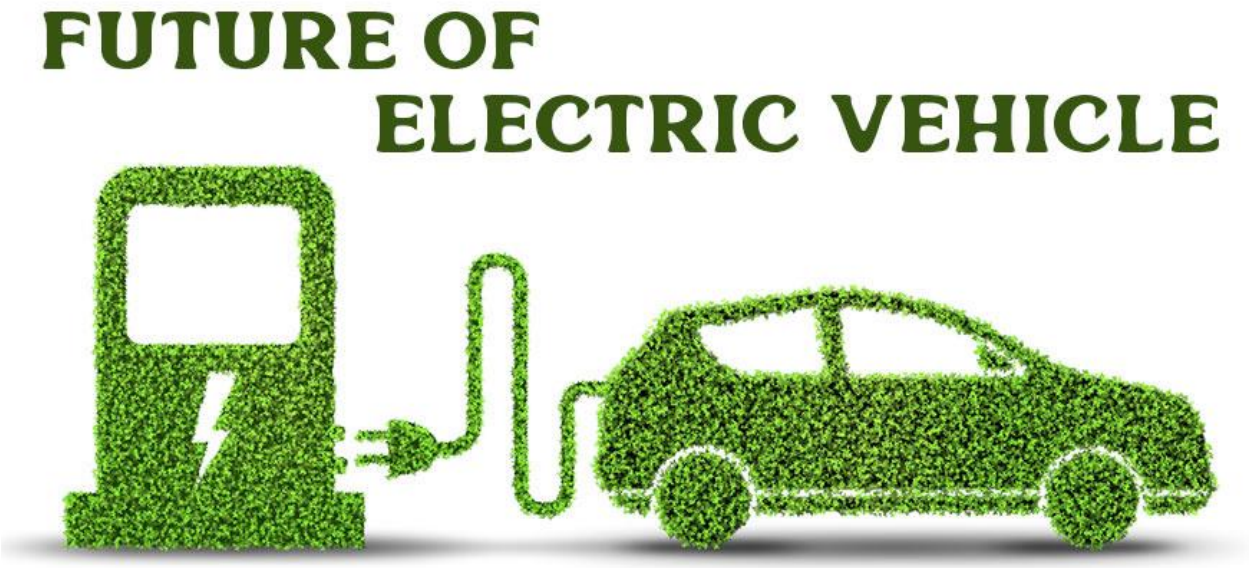
From Editor's Desk:

ELECTRIC VEHICLES:

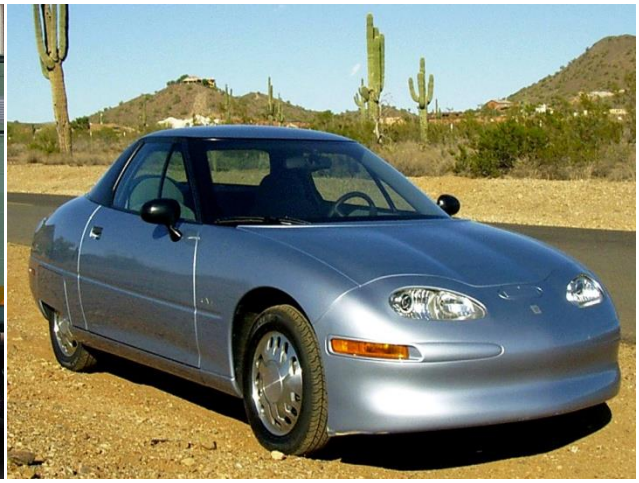
Despite years of mass production, electric vehicles still remain a trend in electrical engineering that continues to rise in consumer popularity. Electric cars are becoming mainstream offerings. Though charging infrastructure still needs to be developed, many electric vehicle owners can find readily accessible charging stations in many locations.



Early electric vehicles first came into existence in the late 19th century, when the Second Industrial Revolution brought forth electrification. Using electricity was among the preferred methods for motor vehicle propulsion as it provides a level of quietness, comfort and ease of operation that could not be achieved by the gasoline engine cars of the time, but range anxiety due to the limited energy storage offered by contemporary battery technologies hindered any mass adoption of private electric vehicles throughout the 20th century. Internal combustion engines (both gasoline and diesel engines) were the dominant propulsion mechanisms for cars and trucks for about 100 years, but electricity-powered locomotion remained commonplace in other vehicle types, such as overhead line-powered mass transit vehicles like electric trains, trams, monorails and trolley buses, as well as various small, low-speed, short-range battery-powered personal vehicles such as mobility scooters.



Hybrid electric vehicles, where electric motors are used as supplementary propulsion to internal combustion engines, became more widespread in the late 1990s. Plug-in hybrid electric vehicles, where electric motors can be used as the predominant propulsion rather than a supplement, did not see any mass production until the late 2000s, and battery electric cars did not become practical options for the consumer market until the 2010s.
Progress in batteries, electric motors and power electronics have made electric cars more feasible than during the 20th century. As a means of reducing tailpipe emissions of carbon dioxide and other pollutants, and to reduce use of fossil fuels, government incentives are available in many areas to promote the adoption of electric cars and trucks.

EVs are also known as battery electric vehicles (BEVs) or all-electric vehicles (AEVs). They have several advantages, including:
Lower running costs: EVs have lower running costs than traditional vehicles.

Environmental benefits: EVs do not emit exhaust from a tailpipe and do not contain liquid fuel components.

Government subsidies: Some governments offer subsidies for EVs.

Insurance benefits: EVs may offer insurance benefits.

Reduced dependence on fuel prices: EVs are less dependent on fuel prices.This would dramatically result lower operating costs and power consumption.

INSTITUTE VISION & MISSION

Vision

To produce eminent and ethical engineers and managers for society by imparting quality professional education with emphasis on human values and holistic excellence.

Mission

IM1	To incorporate benchmarked teaching and learning pedagogies in curriculum.
IM2	To ensure all round development of students through judicious blend of curricular, co-curricular and extracurricular activities.
IM3	To support cross-cultural exchange of knowledge between industry and academy
IM4	To provide higher/continued education and research opportunities to the employees of the institution.

DEPARTMENT VISION & MISSION

Vision

Excel in education, research and technological services in electrical engineering.

Mission

DM1	Impart quality education to produce globally competent engineers and successful entrepreneurs for meeting the current and future needs of power industry.
DM2	Engage in research and development in cutting edge and sustainable technologies.
DM3	Enhance industrial collaboration and professional ethics to serve the society.

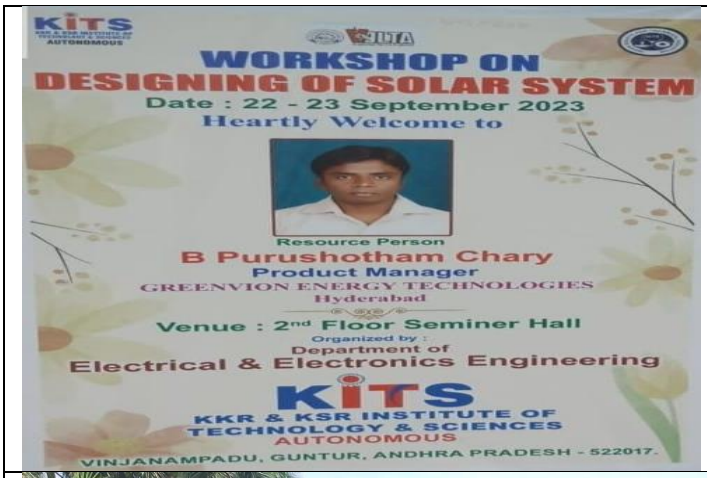
Program specified Outcomes (PSO'S):

PSO1	Able to utilize the knowledge of Power Electronics in collaboration with Electrical Machines to provide an engineering solution in the areas related to Electrical Drives.
PSO2	To develop new cutting edge Technologies in Power Systems associated with efficient conversion and control of electrical power.
PSO3	Able to use software for design, simulation and analysis of electrical systems.

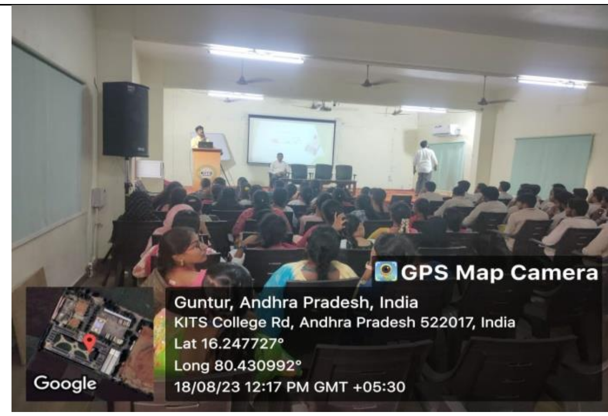
WORKSHOPS:

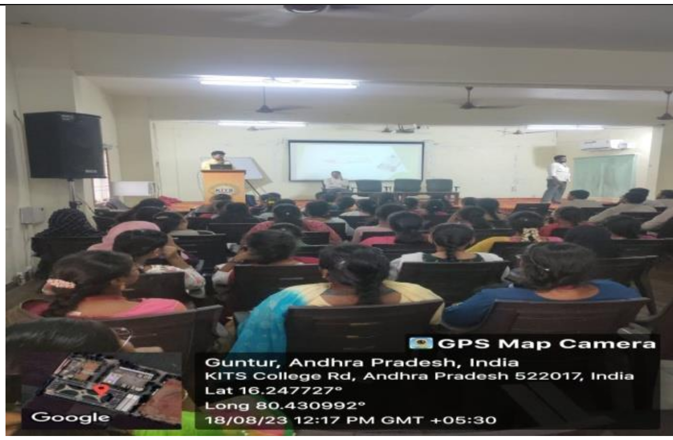
1. A Two day Workshop on Designing of Solar System by Mr.B.PURUSHOTHAM CHARY from 22-9-2023 to 23-9-2023 for II year students.The Department of EEE organized a Two day Workshop on Designing of Solar systems from "22-09-2023 to 23-09-2023 by Mr.B.PURUSHOTHAM CHARY Product Manager, GREENVION ENERGY TECHNOLOGIES,Hyderabad for II-I students.

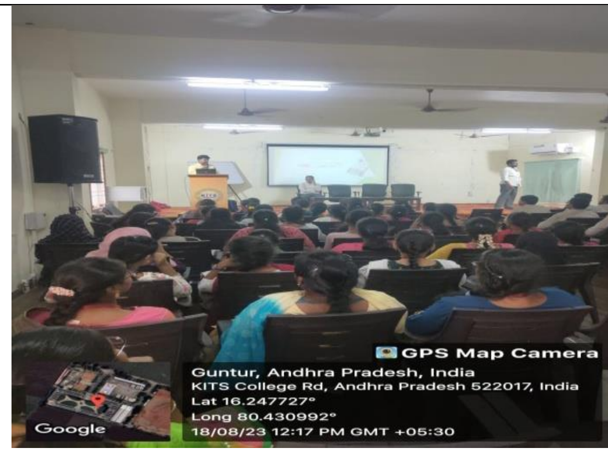
The workshop on solar panel skill development provided participants with practical training and enhanced their technical skills in solar panel installation and maintenance. The comprehensive agenda covered site assessment, measurement of PV module parameters, installation techniques, testing, and commissioning procedures. Through hands-on experience, expert guidance, and in-depth discussions, attendees gained insights into unlocking the potential of solar energy and promoting sustainable practices. It also emphasized best practices, safety measures, and operations and maintenance checks.



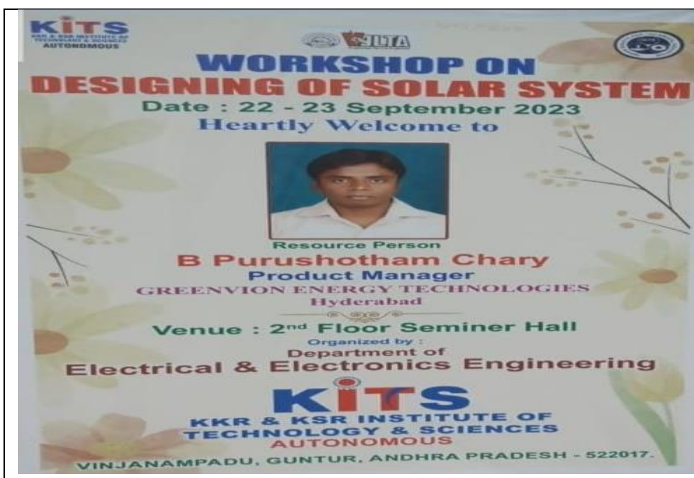
2. The Department of EEE organized a seminar on E-Mobility in India by Mr.M.JAGANMOHAN RAO, Associate Vice President, ERISHA E-Mobility Pvt.Ltd.NewDelhi for III-I students . He explained about the transition to electric vehicles which can yield multiple environmental and economic gains and drive India's clean energy transition.

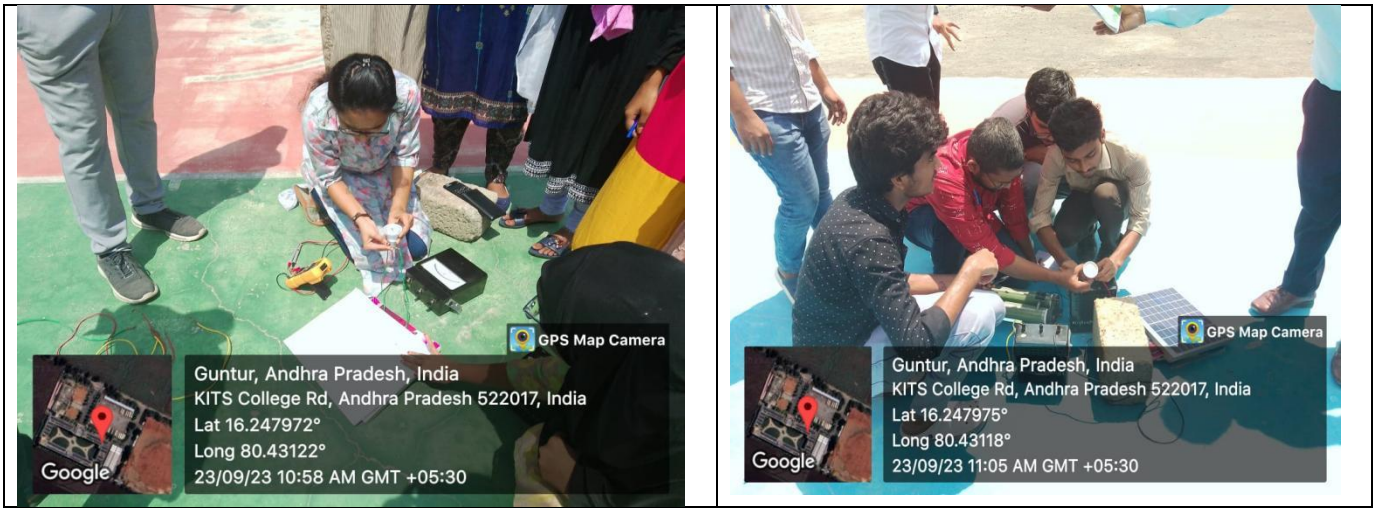






3. **Workshop on Designing of SOLAR SYSTEMS by Mr. B. PURUSHOTHAM CHARY, Product Manager on 22-9-2023 for IIyear students.**

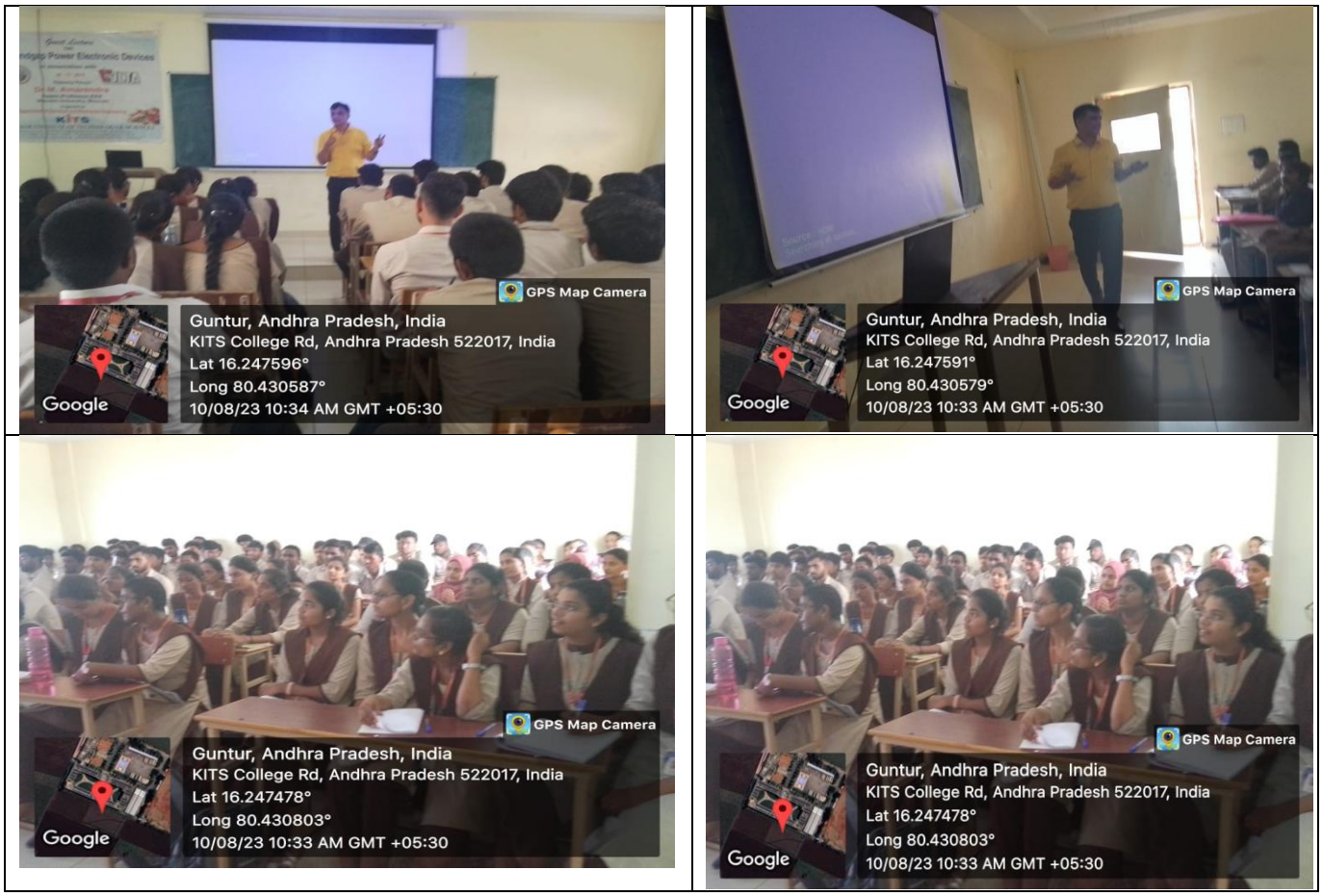




GUESTLECTURES

1. **A guest lecture on Career Opportunities After Graduation by Mr. Atul Negi, AIMS GATE ACADAMY was organized on 13-07-2023 for IIIyear students. This session has provided students the opportunity to get to know and understand yourself and the world of work in detail, and thus helping you make more informed and meaningful career decisions.**

2. **Guest lecture on Goal setting & Career Opportunities by Mr. PABBA RAMESH, ACE ACADEMY, HYDERABAD was conducted for II &IV year students on 18-08-2023. Several motivational illustrations helped students to realize their long term goals and set periodic short term approach towards its attainment. The session was summed-up by some ideas which would be providing assistance for a streamlined career path to the students.**



RESULTS

I YEAR II SEM TOPPERS

Sno	Regd.No.	Name of the Student	CGPA
1	22JR1A0208	MODEPALLI KAVYA	8.77
2	22JR1A0211	SETTIPALLI HARIKA	8.77
3	22JR1A0223	MOGADAS SIVA KARTHIK	8.69

II YEAR II SEM TOPPERS

Sno	Regd.No.	Name of the Student	CGPA
1	21JR1A0206	GUNTAKA PAVANI	8.87
2	21JR1A0210	PATHAN SUMAYYA	8.74
3	21JR1A0204	CHAVVA SRUTHI MALA	8.74

III YEAR II SEM TOPPERS

Sno	Regd.No.	Name of the Student	CGPA
1	20JR1A0202	ANGIREKULA LAVANYA	8.78
2	21JR5A0211	PREM KUMAR GUNTOTI	8.69
3	21JR5A0210	MALLELA NEELEENDRA	8.60

IV YEAR II SEM TOPPERS

Sno	Regd.No.	Name of the Student	CGPA
1	20JR5A0201	CHINTHALA HARIKA	12.67
2	19JR1A0226	NELLURI AJAY KUMAR	12.67
3	19JR1A0214	SHAIK JASMINE	12.67

NEW FACULTY RECRUITMENT

S.No	Name of the Faculty	Designation	Area of Specialization	Date of Joining
1	V.Prudhvi Raj	Assistant Professor	Power Systems Engineeering	21-4-2023
2	Sk.Reshma Begum	Assistant Professor	Power Electronics	1-4-2023

FDPS/WORKSHOPS/ STTP / WEBINARS ATTENDED

S.NO	Name of the Faculty	Title of the FDP	No. of Days	Organization address	Date of the FDP / Work Shop / STTP / Webinar	Category
1	Mr. M. Raja Nayak	Power of Visualization in Analytics	5	BVRIT, Hyderabad	16th to 21st August 2023.	FDP
3	Mr. T. Nagaraju	Power of Visualization in Analytics	5	BVRIT, Hyderabad	16th to 21st August 2023.	FDP
2	Mr. M. Raja Nayak	Certain Aspects of Electric Vehicles to achieve Sustainable Energy	6	VIGNAN'S LARA INSTITUTE OF TECHNOLOGY & SCIENCE	11/12/2023 to 16/12/2023	FDP

COLLEGE CENTRAL EVENTS

1. The team of NSS-KITS(GNT) has conducted the independence day celebrations on 15-08- 2023.On this Occasion NSS unit conducted few competitions like Drawing, Singing and Elocution.

2. Fresher's Day is a bonding session between juniors and seniors as well as guides and teachers. It is organised to help freshers feel positive and good as they may feel confused when they start this new jouney.On this Occasion, Sports and Culturals have been conducted for students and prizes distributed to winners. Students participated in Group Dance, Solo Dance, Singing, Anchoring and have made the audience happy.

3. Karthika Vana Samaradhana was organized on 09.12.2023 at Ramapuram Beach, Chirala, AP. for Staff members with the management.

కిట్స్ కళాశాలలో కార్తీక వన సమారాధన

గుంటూరు డిసెంబర్ 9 (కాకతీయ) కిట్స్ ఇంజనీరింగ్ మరియు గుంటూరు ఇంజనీరింగ్ కళాశాలల సిబ్బంది సంయుక్తంగా చీరాల దగ్గరలోని రామాపురం సముద్రతీరంలో కార్తీక వన సమారాధనను ఆనందోత్సాలతో జరుపుకున్నారు. ప్రతి సంవత్సరం ఆనవాయితీగా ఈ కార్తీకమాస వన సమారాధన దినోత్సవం సందర్భంగా కళాశాల యాజమాన్యం మరియు వారి కుటుంబ సభ్యులకు అపురూపమైన ఆతిథ్యాన్ని కళాశాల సిబ్బంది ఇచ్చారు. ఈ సందర్భంగా ఇరు కళాశాలలకు చెందిన సిబ్బంది వారి కుటుంబ సభ్యులతో పాల్గొని సముద్ర తీరాన ఆటపాటలతో గడిపి సముద్ర స్నానం ఆచరించి వేడుకగా జరుపుకున్నారు . ఈ సందర్భంగా కళాశాల యాజమాన్యం తమకు ఆతిథ్యం ఇచ్చిన తమ సిబ్బందికి కృతజ్ఞతలు తెలిపారు. సిబ్బందితో మమేకమై రోజంతా వారితో సరదాగా గడిపారు. ఈ వన సమారాధన నీ సమర్థంగా నిర్వహించినందుకు కార్యవాహక సిబ్బందికి కళాశాల చైర్మన్ కోయి సుబ్బారావు కోయి శేఖర్ ప్రిన్సిపాల్‌దాక్టర్ పి బాబు డైరెక్టర్ దాక్టర్ కె హరి బాబు మరియు గుంటూరు ఇంజనీరింగ్ కళాశాల ప్రిన్సిపాల్ దాక్టర్ కే రామకోటయ్య డైరెక్టర్ జి సాంబశివరావు తమ అభినందనలు తెలిపారు.