



Director's Message

Dear Readers,

Though April month is harsh with hot weather and hectic in curricular & co-curricular activities it brings the joy of successful completion of a semester. Amidst the rush of class work students and staff have successfully put up a grand show for "Avyaya" on 12th April at Lalitha Kala Thoranam. Annual Day was jubilant with felicitation, fun and festivity. Students presented skits, dance, music and a fashion show. They received honours for their achievements in academics, sports and cultural competitions from the Chairman, the chief guest and other invitees.

'Samudyama' an enterprising and challenging competition for showcasing projects of final year students was conducted on 11th April and best projects from each department and at the college level were evaluated and presented awards. A water testing centre 'Gangotri' was inaugurated on the world earth day to extend the corporate social responsibility of our Institution towards the society. Our NSS unit was active and untiring taking part in AIDS Awareness Campaign, Adventure camp and Entrepreneurship Development training programme. Bravo! Street Cause Club leaves no stone unturned in extending a helping hand with their activities like visiting old age homes and spreading awareness about social issues.

CSE department was abuzz with preparation for participation in 'The Smart India Hackathon 2017' conducted by the Ministry of Earth sciences, New Delhi in the first week of April. Two teams of teachers and students went to Chennai and Kochi to show their mettle. Finally farewell 'Vigama' brought all the students together rejoicing friendships and memories and wishes for a bright future. April showers bring May flowers! Lets look forward to the good times ahead!

- Srikanth Jatla

Contents

Samudyama, p2 - p10
Department of CSE, p3
Department of ECE, p5
Department of CE, p6
Department of ME, p8
Department of EEE, p9-p10
Avyaya, p11-p16
Farewell, p17
Department Activities
Department of CE, p18
Department of CHEM, p18
Department of EEE, p19
Department of CSE, p19-p20
NSS Activities, p20-p21
Street Cause Activities, p22
Achievements, p22
ATRI in Media, p23
Gallery, p24

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COLLEGE ACTIVITIES

SAMUDYAMA – Annual Project Expo

Literally meaning "Enterprise' Samudyama is an endeavour to foster and enhance the culture of scientific inquiry and its relevance in real world applications. The basic aim of the expo is to provide a platform for the display of creative talents and virgin ideas of the students, bring the best projects and the innovative thoughts of the students to the forefront. It however helps the students, who have done the best projects to carry the project forward by providing design support and entrepreneurial support, as required by the students. Students can also file a patent if they want. On 11th April projects from all the departments were on display and judges from AEC Bhongir picked up the best ones after a thorough review. Students had a great learning experience. Ms. M Chaitanya, HoD Mechanical Department was the convenor for this event.



Winners of Department level Best Projects

Name of the Student	Dept.	Judge
Mohd Abed Hussain, Mohammed Nadeem, T Madhavachary	CE	Mr. Santhosh
JyotiMayeekar, RishabhHrushan	CSE	Mr.SrikanthJatla
P. NikhilaBharadwaj, G. Santhosh, N. Upendra Gupta	ECE	M. Shravan Kumar Reddy
P. Dharani Kumar, R. Rambhupal Reddy, B. Karthik Reddy	EEE	Mr.Narender Reddy
N.Shubham Kumar, Pankaj Kumar Pradhan, Zakeer Hussain	ME	Mr. S . K. Chanda

Best Project Award – College Level

Name of the Student	Department
N.Shubham Kumar, Pankaj Kumar Pradhan, ZakeerHussain	ME

Inspiring Personality

Chhatrapati Shivaji Maharaj, (Shivaji Bhonsle) was the famous Maratha king who had the utmost courage to stand against the vast ocean of Mughal rule, single-handedly. Although his original name was Shivaji Bhosle, his subjects lovingly gave him the title of 'Chatrapati' or the 'Chief of the Kshatriyas' for his undaunted ability to protect them all under the safe shelter of his leadership. Born on 19th February 1680 at the Shivneri Fort to a valiant Maratha regent Shahaji Raje and a dedicated mother Jijabai, Shivaji was a descendent of the 96 Maratha Clans who were well known as brave fighters or 'Kshatriyas'. In 1674, he was formally crowned as the Chhatrapati (Monarch) of his realm at Raigad. Shivaji established a competent and progressive civil rule with the help of a disciplined military and well-structured administrative organisations. He was called the father of Indian navy. In his kingdom, there were strict punishments for crimes against women.



Department of Computer Science and Engineering

1. PAL NESTO (The New Social Networking)

Project Guide: Ms. B.Malathi; Jyoti Mayeekar- 13841A0521

Rishabh Hrushan -1381A05K0

Creating a social networking site is about mapping and measuring relationships and flows between people groups, organization, computers, URLs and other connected information/knowledge entities. PAL NESTO with its balanced merge between adopting the existing system with new functionality has an answer for all these pointers and would truly utilize the potential of socializing via net to what it should have been in first place . The PAL-NESTO is social networking platform program powered by web we aim to achieve clearer, environment where users can unique in its way, starting from the engineering standards, it connects site. The existing sites serve as a their existing social functionalities that encouraged a expand his social networks. Even if Facebook) it would be based on connecting acquaintance from known friends, which led to the further conclusions: The probability of having sync with the new suggested person is quite less, simply because there is higher chance of having more differences than similarities among two people. The attempts to suggest the people about total strangers, neither of the existing systems have a mechanism to filter this sync rate between two people. PAL-NESTO has been powered by an arsenal of new functionality to help encourage socializing, recreating real scenario as functionality, improving understanding online personality, Suggesting truly only your pals.

You never know
how **STRONG** you are
until being **STRONG**
is the only
choice you have

technology. Through PAL- NESTO searchable and user friendly explore socializing. PAL-NESTO is functionality to the social people in it as a social networking great way to connect a person to community/group .There were no user to explore and try, meet and there were any such, (Eg:

2. IOT Based Robot Car with Live Video Surveillance and Temperature Humidity

Project Guide: Ms. A. Durga Pavani; 13841A0505 Anirban 13841A0531 Srikar 13841A0543 Sajeed Hussain

This project is an attempt to build a prototype of a mini surveillance system that can be remotely operated by the user which can be implemented later on a larger scale. A HD 720P Logitech camera has been mounted on a robot car which is responsible for streaming live video surveillance of its surroundings on devices such as laptops and phones present on the same wireless local area network. The camera is connected to the Raspberry Pi 3 system on chip which is the brain of the project. A DHT11 sensor that gives the latest temperature and humidity of the robot's surrounding environment with help of a open source cloud service website 'Thingspeak' this is thus an added functionality to our project. The Robot is powered with a 2600mah power bank. The Robot Car can perform five operations i.e. to move forward, reverse, right, left and stop. The camera which is mounted on a servo motor can also perform five operations i.e. turn right, left, straight and stop moving. The robot and camera are operated by the user using a web page user interface with help of robot controls and camera controls respectively. The web page will also display the video surveillance and temperature, humidity values. The final end product of our project can be used in the military applications, mining activities and by security agencies.



Cyber Bullying Detection based on Semantic Enhanced Marginalised Denoising Auto-Encoder

Project Guide: Ms. S. Jhansi; B.Pravallika(13841A05K7); A.Saikiran(13841A05L5); Y.Pranav(13841A05M1)

This is a Social Networking Website. The main idea behind the application is to prevent the users from sending/receiving bullying messages. Social Media is a group of Internet based applications that build on the ideological and technological foundations of Web 2.0, and that allow the creation and exchange of user-generated content. Via social media, people can enjoy enormous information, convenient communication experience and so on. Social media may have some side effects such as cyberbullying, which may have negative impacts on the life of people, especially children and teenagers. Cyberbullying can be defined as aggressive, intentional actions performed by an individual or a group of people via digital communication methods such as sending messages and posting comments against a victim. In order to prevent Cyberbullying, We can make use of this application and by this we can decrease the cyberbullying problem. In this application, using semantics we will detect bullying words/messages and compare with some pre-defined words. If the words are detected as abusive and bullying words as per the user settings, then message will be encoded using encryption algorithms and message will not be posted to others.



Realtime Weather based Smart Sprinkler System

Project Guide: Ms. A. Durga Pavani; V. Madhurima(13841A0544); D. Gayatri(13841A0557); S. Venkat Vinay(566)

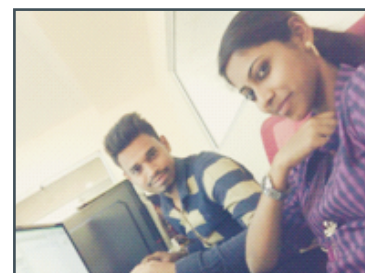


This project completely focuses on water management and water wastage reduction in agricultural fields, lawns and golf courses. Based on the weather conditions such as temperature, humidity of the surroundings and moisture content in the soil the motor starts rotating and waters the plants automatically. These values are calculated using various sensors such as DHT 11 sensor and moisture sensor. This process doesn't need any human intervention. Once the system is ON it works automatically based on the weather conditions. All the values such as temperature, humidity, moisture values are stored in a cloud platform called 'thing speak' where the values are represented in the form of graphs.

Supporting Privacy Protection in Personalised Web Search

Project Guide: Ms. G.Varalakshmi; K..Ramesh (13841A0594); I.Lahari (13841A05B7); K.Santhi Priya (13841A05D5)

We propose a PWS framework called UPS that can adaptively generalize profiles by queries while respecting user-specified privacy requirements. Our runtime generalization aims at striking a balance between two predictive metrics that evaluate the utility of personalization and the privacy risk of exposing the generalized profile. We present two greedy algorithms, namely GreedyDP and GreedyIL, for runtime generalization. We also provide an online prediction mechanism for deciding whether personalizing a query is beneficial. The solutions to PWS can generally be categorized into two types, namely click-log-based methods and profile-based ones. The click-log based methods are straight forward they simply impose bias to clicked pages in the user's query history. Although this strategy has been demonstrated to perform consistently and considerably well it can only work on repeated queries from the same user, which is a strong limitation confining its applicability. In contrast, profile-based methods improve the search experience with complicated user-interest models generated from user profiling techniques. Profile-based methods can be potentially effective for almost all sorts of queries, but are reported to be unstable under some circumstances. Although there are pros and cons for both types of PWS techniques, the profile-based PWS has demonstrated more effectiveness in improving the quality of web search.



Department of Electronics and Communication Engineering



ZIGBEE Based Trolley Cart Access System using RFID in Shopping

Project Guide: Ms.K.Supriya; 13841A04F7 P Samuel Joseph; 13841A04H7R. Udaya Sri; 13841A04J6 V. Sree Sailasya

The main objective of this project is to reduce and eliminate time taken at billing counters in super markets by designing an Intelligent Shopping Basket which uses Barcode scanners to allow users to self checkout and increase productivity time. In the modern world, every supermarket and hypermarket employs shopping baskets and shopping trolleys in order to aid customers to select and store the products which they intend to purchase. In the basket itself, scanning of purchased goods can be done and billing also can be performed by the customer itself. All purchased goods information is passed to system as well as exit door section. Those goods which are purchased at shopping section are allowed to be taken away from exit doors. Else, can be alerted and doors will be closed. RFID readers are used to read the goods information and RF technology is used to send the information to exit section.

IOT for Smart Cities

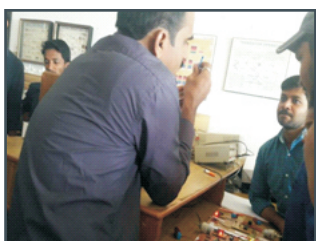
Project Guide: Ms.T.Jyothsna; 13841A0407 B.Gowthami; 13841A0409 B. Vikas Reddy; 13841A0420G. Nishanth Reddy

The main objective of this project is to design a smart city for development applications using Internet of Things. Smart City is the product of accelerated development of the new generation information technology and knowledge-based economy. Some regular and manual issues can be operated automatically using embedded system and IOT. Automatic street light ON/OFF controller is done based on sunlight. If sun light exists, automatically street lights will be on, otherwise street lights will be off. Automatic dustbin filling is also automated by using ultrasonic sensor. Automatically message will be sent to Municipal Corporation, if dust bin is full. Greenery also plays a vital role in smart city management system. If any plant is deficient with water; water sprinkler motor will on to sprinkle the water. If sufficient water is available with plant, no water sprinkling done. Visitors guidance is very much interesting and good thing for smart city management system. If any pilgrim or visitor wants to know the directions of the particular place, our kit shows the directions of required place along with distance.



An Efficient And Automatic System For Railway Stations

Project Guide: Mr.K.Harikrishna; 13841A0438 M. Sahithi; 13841A0404 A.Sai Teja; 13841A0442R. Keerthi Bhavan
Railways comprise of a large infrastructure and are an important mode of transportation in many countries. Railways are the lifelines of a country. The poor maintenance of the railways can lead to accidents. New technologies for railways and better



safety measures are introduced time to time but still accidents do occur. This project includes two modules. First module is implemented at railway stations and Second module is implemented at train side. First module is implemented with RF receiver, gate opening, closing and opening, virtual platform designing. Second module is designed with IR setup, RF transmitter and motor which shows train engine section. Train arriving information is known by RF wireless communication. Gate will be automatically open, if train arrives to station. Gate will be open, if it leaves railway station. Mean while in between gate opening and closing system, virtual platform will disappears. By default path is established between platform 1 and platform 2. If any train arrives, path will be automatically gone. Train side kit is used to monitor the track connectivity and damages. Train is attached with IR set up. If any fault occurs at track, warning message will be forwarded to station and train will stop.

Accelerometer based Hand Gesture Controlled Robot

Project Guide:Ms.K.Aparna; 13841A04B4 Vamshidhar Reddy; 13841A04A3 P. Prashanth Reddy; 13841A04B6 Y.Raju

A Gesture Controlled Robot is a unit that can be controlled by one's hand gestures not by hold buttons. We just need to wear a small transmitting device in our hand which includes an acceleration meter. This will transmit an appropriate command to the robot so that it can do whatever we want. The transmitting device includes a comparator IC for analog to digital conversion and a zigbee wireless transceiver. An Accelerometer is a kind of sensor which gives an analog data while moving in X,Y,Z direction or may be X,Y direction only depends on the type of the sensor. Here is a small image of an Accelerometer shown. We can see in the image that there are arrows showing if we tilt these sensors in that direction then the data at that corresponding pin will change in the analog form.

Rigging Less Multiway Voting System with Security

Project Guide:Mr.K.Harikrishna; 13841A04G S. Ruchi Manoj; 13841A04H1 .G. Anurag Bhargav; 13841A04J7 Y.Ajay Archana

The objective of this project is to improve the security performance in the voting machine as well as to provide easy access to cast the vote by using IOT and GSM. This project is useful to improve the security performance in the voting machine. Aadhar card, GSM and IOT are used to cast the vote of the citizen. All these medians are designed with more security and rigging less mechanism. Now a days some people cast vote using duplicate voter ID card. But in this project RFID tag and password are used cast vote. So this project improves the security performance and helps in avoiding forgery vote. Internet plays vital and significant role in all communication ,hence this medium can be utilized by citizens for secure and reliable voting.

MICR Location for IOT Equipped with Smart Building Project Guide:Ms.M.Sumathi Jyothi

13841A0496 P. Nikhila Bharadwaj; 13841A0474 G. Santhosh; 13841A0495 N. Upendra Gupta

The main objective of this project is to design an enhanced and efficient smart building using embedded systems. Only authorised person's entry can be made possible using RFID technology. Total number of entry and exit count of people is displayed on LCD. Based on this count, appliances will switch on by checking with LDR sensor. Morning or night intimations can be done by using LDR. If it is morning, only fan will get switched on. If it is night, both light and fan will get switched on. Along with the above application, parking vacancy checking and intimation is done using IR sensors. Infrared sensors are used to know the vacant positions. The whole information is updated to IOT using GPRS based module.

Department of Civil Engineering

Construction of Porous Drain Asphalt Pavement Project Guide: Mr. V.Manikanta

Md. Abed Hussain, 13841A0172;Md. Nadeem, 13841A0198;T Madhavachary, 13841A0185

The objective of this project was to study the performance, durability, maintenance requirements, hydrologic benefits, and environmental considerations of a full-depth porous asphalt pavement in any climate. In order to meet this objective, two porous asphalt test cells were constructed on the Main road, low-volume road (LVR) test loop. One porous asphalt cell was constructed over a sand sub grade and one over a clay sub grade. In addition, a sealed/impervious, dense graded hot mix asphalt (DGHMA) control section was constructed directly adjacent to the porous sections, for comparison of water runoff, pavement performance and pavement durability.

Analysis of Quality Parameters and Microbial Grouping in Water

Project Guide: Ms. L. Aparna; Ch Sai Vignesh, 13841A0153; G Sandya Rani, 13841A0156: M Dinesh Kumar 13841A0166

Water quality refers to the chemical, physical, biological, and radiological characteristics of water. It is a measure of the condition of water relative to the requirements of one or more biotic species and or to any human need or purpose.

Microbiological analysis of the sample was carried out for almost 20 days which gave us an idea that many pathogenic organisms are present in that area. The analysis includes the isolation and detection of the harmful microorganisms present in that area. The sample was first serially diluted from 10⁻¹ to 10⁻⁹ dilutions, then the dilutions were placed on the nutrient agar medium and all the possible respective selective media available in the lab like [Macconkey, Mannitol, EMB, Cetrimide agar], growth of the organisms was found on all the above media. After this the second step is the biochemical analysis of the obtained cultures but first gram staining of the cultures from all the plates. The biochemical test included the IMVIC along with the sugar fermentation test and urease test. This gave the further confirmation of the organisms obtained or found from the water. The groups of organisms obtained are Pseudomonas, Staphylococcus, Bacillus, Klebsiella and Enterobacter species.

Analysis and Design of G+5 Residential Building by STAAD PRO

Project Guide: Mr. N. Kranthi Kumar; B. Divya, 13841A0149; Ch Apoorva, 13841A0151; G. Vinod Kumar, 13841A0159

Analysis and Design of G+5 Residential building was done by Limit state method. The plan consists of 1st, 2nd and 3rd floors being normal; 4th and 5th being duplex. The analysis and design is done through manual and software methods. The purpose of the standards is to ensure the safe keeping and careful balance between economy and safety. In the present study G+5 Building at Karmanghat, RR District, India was designed by using STAAD PRO and AUTOCAD Softwares.

Levelling and Land Base Survey of Jehanabad (With Integration)

Project Guide: Ms M. Haritha; K Vinay kumar Raju, 13841A0161; R Prakash, 13841A0181; P Nagaraj, 13841A0178

Levelling is a branch of surveying, the object of which is to find the elevation of a given point and establish it with respect to the given or assumed datum. Every municipality will have benchmark which shows the elevation of that particular area from mean-sea level. With the help of latitudes and longitudes, height of a point is established and integrated on maps using ARC GIS Software. Basically Bihar is a backward state land base survey is must for the future development of the city.

Experimental Study on Translucent Concrete by Using Optical Fibre and Glass

Project Guide: Mr. A. Karthik; B Karunakar 13841A0105, B Dhanraj 13841A0139, B Sampath 13841A0103

The transparent concrete has good light guiding property and the ratio of optical fiber volume to concrete is proportional to transmission. The transparent concrete will increase the strength parameter when compared to regular concrete and also it has very vital property for the aesthetical point of view. It can be used for the best architectural appearance of the building. It can also be used in areas, where the natural light cannot reach with appropriate intensity. This new kind of building material can integrate the concept of green energy saving with the usage self sensing properties of functional materials. The utilization of glass aggregates in a range of architectural concretes and their properties tests. The performance test results conducted in this project confirm that the properties of those special mixed concretes are satisfactory. The properties tested include workability and compressive strength. Ultimately, glass is found to be an ideal material as a decorative aggregate in architectural concrete with its satisfactory performance and aesthetic property improvement.

Experimental Research on Garbage affected Soil Project Guide: Ms. K. Madhavi Reddy

N Dinesh 13841A0192, I Dinesh 13841A0155, K Rajeshwari 13841A0162, B Vijay Kumar 13841A01A2

Any type of soil affected by garbage is neither treated as a construction material nor is the site chosen for construction. The reason being that harmful acids or toxic gases release from the dump seep into layers of the soil. The effect is more if the soils are permeable. This project aims to research on the area affected by the dumping and suggesting measures for improvement.

Department of Mechanical Engineering

Design And Development of a Compressed Air Engine Guide:Mr. B. Anil Kumar
 Zakeer Hussain Khan (13841A0347); Pankaj Kumar Pradhan (13841A0352); Shubham Kumar
 (13841A0356)

Internal combustion engines pollute the environment and consume the enormous non renewable energy. An effort has been made to design an IC engine that runs on air and does not need any fossil fuels. The compressed air engine is a modified 100cc internal combustion engine. The engine is modified from a 4 stroke to a 2 stroke engine (suction and exhaust) by modification of cam-gear system. The maximum pressure used is 8 bar. The project was successfully carried out and tested. This technology is cheaper in cost and maintenance and it doesn't cause any kind of harm to the environment. Thus the compressed air engine will play a vital role in reducing air pollution. It uses air as fuel which is available abundantly in atmosphere.



Design and Manufacture of a Quad Bike Project Guide:Dr. Dilip Maha
 D.Rajashekhar Reddy, G.Yeshwanth, K.Aravind Kumar, Mohd Asif Ali, P.Manoj Kumar, J.Pavan Kumar, M.Ramesh, Bala
 Manoj, K.Ramreddy, K.Sai Krishna, Nagella Chandra Babu, P.M Praneeth Bhargav, P.Sai Shiva, R.Vijay, M.Venkatesh

A small off-road four-wheeled powered vehicle, especially of a design derived from a motorcycle, usually used for recreation or farm work. A working model of a quad bike was fabricated by the students, the necessary training and guidance was provided by FMAE by organizing a workshop and educating the students in the knowhow of how to design and manufacture a working model.

Design and Manufacture of an Eco Kart

Project Guide: Dr. T. Srinivas; Ashwin Karunanidhi, B.Indrasena, Ch.Sai Krishna, Ch Madhu, D.Sridhar, G.Preetham, Penjerla
 Ananth, P. Vijay, P.Shiva Sai Kumar, S.Ajay Sai, U.Mohan, C.Sachin Kumar, K.Adithya Srinivas, V.S.S.N Ravi Kiran kapia, Vishnu V
 Nair.

In today's world where pollution due to automobiles is a huge concern to the welfare of the environment, eco friendly cars are considered to be the way forward to a safer and cleaner future. Keeping that in mind an eco friendly four wheeler kart was designed and manufactured by the students.

Manufacture of Treadmill Driven Bicycle

Project Guide:Mr. Naveen Kumar
 Usually a cycle is driven by means of a chain or a rack and pinion arrangement. An alternative mode of power transmission to the wheels by the means of a treadmill was tested out in this particular project work. The students were able to successfully design and fabricate a working model of such a concept.

Optimization of the Process Parameters in the Turning of Titanium Alloys

Project Guide:Mr. Pranav Raveendran Nair

Titanium is one of the hardest metals that are available for machining in today's industry. In this project work optimization of the machining process of Titanium with respect to turning was attempted. Both experimental and statistical means were applied in order to determine an optimum configuration of input parameters that help optimize the machining of Titanium with respect to the required output parameters. The students were also able to predict an empirical relation which can be used for further research.

Department of Electrical and Electronics Engineering

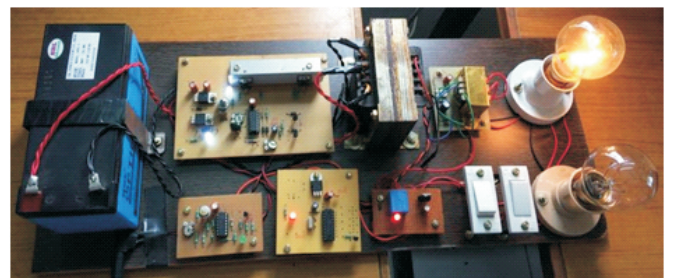
Coordination of Protective Devices for Temporary Faults: Project Guide: Mr. Devdas
13841A0239-P. Dharani Kumar; 13841A0223-R. Rambhupal Reddy; 13841A0233- B. karthik Reddy

Faults occurring in electrical transmission and distribution systems are generally due to natural causes like t wind, storms , tree branch falling on a line and bats stuck between live wires. Unnatural cause may be an accident of vehicles hitting the poles carrying the live wires and breaking and making them to fall. This can be tackled if we automatically ensure outages only in the faulty section and restore power to the healthy sections. Time consuming Manual operations unnecessarily delay repowering the healthy sections.

The project is thus aimed at isolating the faulty section. It is achieved by appropriate selection of protective devices to be placed in sections one after another from the substation to the last point of distribution. These protective devices are generally fuse, circuit breakers and autoreclosers. Ratings of these devices are chosen in a manner to achieve the desired sequence of of operations. Substation Autoreclosers are devices which go 'off' when it senses abnormal fault current and come 'on' after a preset time.If it senses the abnormal fault current it goes 'off' again. For three times these breaking and making of circuit continues till the fault is cleared by blowing of a fuse or breaking of a breaker down the line and thus isolating the faulty section. If on the fourth time if the autorecloser senses the abnormal fault current. It locks down and shuts off power from the substation. The entire operation is based on coordination of protective devices. The advantages of coordination of protective devices are the automatic restoration of power to non -faulty sections of electrically distribution systems which gives power companies the cutting edge on their financial health.

Automation of Solar Power Generator Coupled with Grid Project Guide: G. VijayKrishna
14845A0201- Md. Khaja Azharuddin; 13841A0255- V. Mahesh Reddy; 13841A0254- G. Swaraj

The conventional energy supplied by the electricity department is not able to meet the demand and due to power deficiency people are accepting power cuts. To avoid this problem alternative source is essential. In this regard this project work is taken up, which is aimed to utilize solar energy for driving the basic domestic loads. The solar power system designed here is intended to divert the power to the grid automatically during no load condition. Means if the power system is connected with rated local load, the grid link will be disconnected, when this local load is switched off, the energy produced by the power system will be rerouted to the grid and hence other load connected to the grid will be energized automatically. The solar panel used to charge the battery is rated for 1amp, means if the Sun is bright battery will be charged with continuous current of 1amp. The battery used here is rated for 7.5AH & from the source of this 12V DC battery 230V ac will be generated through inverter designed with PWM chip. This power system is designed to generate a maximum power of 70-80Watts, when a lamp load of 60w is connected at the output of power system, the coupling link to the grid connected through relay will be disconnected. With the help of a line voltage sensing circuit designed with PT and connected across the output of inverter load, the source to the load is detected and accordingly changing over relay will be controlled. The control circuit is designed with 89S2051 microcontroller chip and according to the signal obtained from the PT, either local load or Grid load will be energized or de-energized automatically. Thermal protection system is incorporated such that whenever the power system drive stage temperature increases more than the set value, immediately shut-down signal will be generated and hence power system will be switched off automatically.



Transformer Efficiency Measuring Meter Project Guide: P. Vishnu
14845A0206- K Srinivasulu; 14845A0210-M Subhash ; 14845A0216-L. Bhupathi

With the advancement of technology there has been a rapid growth in almost each and every field, particularly in the field of instrumentation, design of a crucial instrument that contains fuzzy algorithms is possible with microcontroller chips. The system designed here falls under the subject of electrical instrumentation, in this field we have different instruments for measuring the electrical parameters such as voltage, current, frequency, etc. But there is no such instrument that can measure the efficiency of a power transformer directly. Hence a system is designed with micro controller that measures the efficiency of a power transformer and displays the same in percentage. So here a system is designed, which does all the above calculations internally through an embedded system and will be displayed through the LCD. This proto-type module is constructed with 1:1 ratio single phase power transformer that generates 220V at secondary and is able to deliver a maximum output power of 110 Watts. With the help of two CT's and two PT's, currents and voltages of both windings of the transformer are measured & converted into digital by the ADC. Based on this digital information, the controller program is prepared to calculate the efficiency internally and displays it in the LCD.

Mitigation of Fault levels in Multilevel Converter by using STATCOMs Project Guide: P. Vishnu
14845A0217- A. Vinay; 14845A0210-K Jagadish; 14845A0208-Ganesh Chauhan; 14845A0219-K. Anil

The static synchronous compensator (STATCOM) has been well accepted as a power system controller for improving voltage regulation and reactive compensation. Many static synchronous compensators (STATCOMs) utilize multilevel converters for performance due to the Lower harmonics injection into the power system, Decreased stress on the electronic components due to decreased voltages and Lower switching losses. One disadvantage, however, is the increased likelihood of a switch failure due to the increased number of switches in a multilevel converter, does not necessarily force an $(2n+1)$ level STATCOM offline. The following advantages are no additional sensing requirements, additional hardware is limited to two by-pass switches per module, is consistent with the modular approach of cascaded multi- level converters and the dynamic performance and THD of the STATCOM is not significantly impacted. This project introduces an approach to detect the existence of the faulted switch, identify which switch is faulty, and reconfigure the STATCOM. . If a fault is detected, the module in which the fault occurred is then isolated and removed from service. This approach is consistent with the modular design of cascaded converters in which the cells are designed to be interchangeable, rapidly removable and replaceable. Even with a reduced number of switches, a STATCOM can still provide a significant range of control by removing the module of the faulted switch and the continuing with $(2n-1)$ levels. It is introduces an approach to detect the existence of the faulted switch and reconfigure the STATCOM.

Wireless Scrutinizer for Detecting the Fault in Power System Project Guide: G. VijayKrishna
13841A0235-D. Pradeep Raj; 13841A0225-P. Ajay kumar Reddy; 13841A0210-M. Bhupathi Reddy

Many electricity transmission companies across the world and Ghana in particular are continuously looking for ways to utilise modern technologies, in order to improve reliability of power supply to consumers. This transmission company manly relies on circuit indicators to assist within their transmission lines where power fault had occurred. In this paper, a smart RF based fault detection system was used to adequatly and accurately indicates fault had occurred. This will ensure a shorter response time for technical crew to rectify these faults and thus help save transformers from damage. The system uses a Microcontroller at 89S52, and a RF module. The system automatically detects faults, analyses and classifies these faults Finally the fault information is transmitted to the control room. In conclusion, the time required to locate a fault is drastically reduced, as the system automatically and accurately provides accurate fault information.

“AVYAYA 2K17”- Annual Day Celebrations

Aurora's Technological and Research Institute (ATRI) celebrated its annual day “Avyaya” of the academic year 2016-17 on the 12th of April 2017. The year 2K17 is remarkable in many ways for Aurorians. All the initiatives, activities and achievements were celebrated with gusto during “Avyaya 2K17 at Telugu Lalita Kala Thoranam, Public Gardens, Nampally, Hyderabad. The function started with a traditional welcome dance at around 6pm.

The evening was a witness to the happiness of young technocrats and their parents. Their enthusiasm made the star studded night more beautiful. The guests for the evening were eminent personalities from various fields. Sri.Gampa Nageshwar Rao, famous motivational speaker and psychologist, Sri.Ramachari Komanduri, Playback Singer, Music Director and Founder- LMA, Dr.C.Veerender, Sports Psychologist, Sri.Tarun Aellaboina, Founder & CEO, LeoZues DineSmart Technologies Pvt. Ltd, and Alumnus Sri.PVNS Rohit, Indian Idol 2017 Finalist were invited as the guests for the evening. All the dignitaries were welcomed onto the dais by the Director Sri.Srikant Jatla.

The programme started with the lighting of lamp ceremony and invocation song. After the welcome address, the detailed annual report for the academic year 2016-17 was presented by the Director. The innumerable activities and achievements taken up during the year, etched in the report, were appreciated with thunderous applause by all the dignitaries, invitees, guests, parents, students, staff and media.

Sri.Rajababu Nimmatoori, Chairman, Aurora Group of Institutions, delivered his presidential address. He applauded the efforts of the director, faculty, staff and students for maintaining standard and upgrading the very same every year. He assured to extend support with all possible means in all endeavours.

The novel concept of “Star of ATRI” is constituted from the academic year 2016-17. This award is presented to the student of IV year based on academic excellence and best aggregate. After the report of the director, Ms.Pravallika, “Star of ATRI 2017” expressed her deep sense of satisfaction to the management, director, faculty and staff for providing the motivation and necessary support that lead to the realization of her dreams.



Don't Judge each day by the harvest you reap, but by the seeds that you plant

Later the dignitaries on the dais addressed and expressed their satisfaction for being a part of the august gathering. Sri.Gampa Nageshwara Rao expressed pleasant surprise to have witnessed so grand and exquisitely organised Annual Day without compromising on quality and grace. He, especially, appreciated the students on their extraordinary performance in Co-curricular and Extra-curricular activities. Sri. G. Nageshwara Rao presented the prizes and certificates to all the Academic Category toppers along with the Chairman and the Director.

Sri.Ramachari Komanduri in his address emphasised the overall development of professionals. He expressed his concern for the parents who are letting their wards, at times, go overboard. He congratulated the management and the director for the excellent performance of Aurorians at ATRI. Along with Chairman and Director, he gave away prizes to all the Cultural Prize winners.

Sri.Veerender expressed his deep sense of appreciation for the academic toppers, cultural and sports prize winners at all categories. He attributed the success to parents and institute, apart from the efforts of the students. He gave away the prizes to all the Sports category winners.

PVNS Rohit, Indian Idol 2017 finalist, an alumnus of ATRI, reminisced his college days with fondness. He expressed his happiness for having had a great time at ATRI where he received all the support to hone his singing talent. He also expressed that the emotional support of the staff and director is unforgettable. Mr.A.Tarun, a young entrepreneur was very happy to be a part of the Avyaya 2017. He shared his experiences with all the students. After the vote of thanks the cultural performances were put up by the students till 10.30pm.

The most awaited cultural fiesta commenced after the academic programme with a welcome song followed by a dazzling classical group dance performance. To rejuvenate the lost essence of folk dance, regional folk dances of Assam, Gujarat and Maharashtra were performed with zeal. There was an enthralling performance of Dasavathar Dance Drama followed by a humorous skit of MBA students. An amazing fashion show with the theme 'Indian Ethnic Wear' attracted the audience. At the end of the show Mr. Avyaya and Miss Avyaya have been crowned. There were a variety of dances starting from classical, folk, Salsa, Jazz etc. The cultural extravaganza concluded with a patriotic dance exhibiting the National Integrity showcasing 'Incredible India'. Dr. K. Nagajyothi, professor, Chemistry coordinated the events of the cultural extravaganza. The winners of the cultural events were given prizes and certificates.

Awards for Annual Day

BEST NSS VOLUNTEER AWARD (Male) is presented to **Mr. N Kiran Bhargav** of B.Tech IV year CE for his extraordinary contribution in Social Service Activities as a NSS Volunteer for the academic year 2016-17

BEST NSS VOLUNTEER AWARD (Female) is presented to **Ms. P Nikhila Bharadwaj** of B.Tech IV year ECE for her extraordinary contribution in Social Service Activities as a NSS Volunteer for the academic year 2016-17

BEST CLUB AWARD is presented to **KREEDA (Sports Club)** for the extraordinary contribution of the club in training, motivating and inspiring students about sports and conducting many events on campus, for the academic year 2016-17

OUTSTANDING ACHIEVEMENT AWARD (Alumni) is presented to **Mr. P V N S Rohit** alumnus of Department of CSE, for his exemplary performance as a singer in Indian Idol 9 and for Winning top 3rd position in the finals, for the academic year 2016-17

OUTSTANDING CONTRIBUTION AWARD (Alumni) is presented to **Mr. Rohit** alumnus of Department of ECE, for his outstanding contribution to Sports by Sponsoring Uniforms for all Sports Teams in memory of Mr. Anil Kumar, for the academic year 2016-17

OUTSTANDING CONTRIBUTION AWARD (Committee) is presented to **Student Activity Committee** for taking up various initiatives, organising many student co-curricular and extra-curricular activities, and greatly helping the college in its academic administration, for the academic year 2016-17

OUTSTANDING ACHIEVEMENT AWARD is presented to **Ms. M Sai Chandana Reddy** of B.Tech I Year, CSE, for winning State-Level Second Prize in Classical Dance during the academic year 2016-17

OUTSTANDING ACHIEVEMENT AWARD is presented to **Mr. Rishab H Hurshan** of B.Tech IV Year, CSE, for his outstanding achievement by presenting a paper at an International Conference and publishing his paper in IEEE Conference Proceedings and also for getting 11 Lakh funding from industry for their project "Pal Nesto", for the academic year 2016-17

OUTSTANDING ACHIEVEMENT AWARD is presented to **Ms. Jyoti Mayeekar** of B.Tech IV Year, CSE, for her outstanding achievement by presenting a paper at an International Conference and publishing her paper in IEEE Conference Proceedings and also for getting 11 Lakh funding from industry for their project "Pal Nesto", for the academic year 2016-17

Cultural Prizes

Solo Dance : Winner - Amitesh I CSE, Runner - Yagnashree I CSE

Solo Song : Winner - Ch Sathish CSE-I A, Runner - Lakshmi Pooja CSE- IC

Group Dance :

Winner - Rahim & Group

Rahim, EEE-III

Sudha, CSE-III

Harish, CE-III

Akshaya, CSE-III

Srikanth, CE-III

Yagnasree, CSE-I

Saikumar, CE-III

Anjali, CSE-III

Suchitra, CSE-I

Hruday, EEE-III

Amitesh, IT-I

Bhargavi, ECE-I

Runner-Devils Group

Aishwarya, CSE-II

Akshita, CSE-II

Anjali, CSE-II

Sowmya, CSE-II

Ankita, CSE-II

Revathi, CSE-II

Kavya, CSE-II

Mani, CSE-II

Manaswini, CSE-II

Education is the
most powerful
weapon which
you can use to
change the world

Group Song : Winner - Ch Sathish & Sinduja, Runner - S. Mehdi & Lakshmi Pooja

Duet Dance : Winner - Hareesh & Saikumar, CE-III, Runner- Pravallika & Raveli, MBA-II

Fashion Show - Show Toppers

Harish & Group

- | | | | | | |
|-------------------------|-------------------|--------------------|----------------------|--------------------------|---------------------|
| 1. Harish, CE-III A | 2. Pooja, CSE-I C | 3. Harsha, ECE-I C | 4. Yochana, CSE-I B | 5. Rahul, CSE-I B | 6. Swarupa, CSE-I B |
| 7. Raghavendra, CSE-I C | 8. Supraja, IT-I | 9. Suraj, CSE-I B | 10. Rithika, ECE-I C | 11. Pavan Kumar, CSE-I B | 12. Jyothi, CSE-I C |

Variety Show

Dashavatharam Group

- | | | | | | |
|---------------------|--------------------|---------------------------|---------------------|---------------------|---------------------|
| 1. Rahim, EEE-III | 2. Sudha, CSE-III | 3. Harish, CE-III | 4. Akshaya, CSE-III | 5. Srikanth, CE-III | 6. Yagnasree, CSE-I |
| 7. Saikumar, CE-III | 8. Anjali, CSE-III | 9. Suchitra, CSE-I | 10. Hruday, EEE-III | 11. Amitesh, IT-I | 12. Bhargavi, ECE-I |
| 13. Suchitra, CSE-I | 14. Yasasvi, ECE-I | 15. Sudha Manasa, CSE-III | | | |

List of Students – Academic Excellence Awards 2016-17

No	Name of the Student	Department
1.	Vijayan Jessy Vijaya Rani	CE 1year
2.	Randhir Rabha	CE 2year
3.	Gopi Sai Reddy	CE 3year
4.	Mude Kalyani	CE 4year
5.	Sushmita	CSE 1year
6.	A Sowmya Sri	CSE 2year
7.	Dorepally Snigdha	CSE 3year
8.	Bukkaraya Pravallika	CSE 4year
9.	B.S. Ramya	ECE 1year
10.	Aare Manikantaswami	ECE 2year
11.	Pittampally Vinay Biksha	ECE 3year
12.	Kasturi Sneha Gupta	ECE 4year
13.	Dodla Naga Lakshmi	EEE 1year
14.	Bhukya Samuel Naik	EEE 3year
15.	Kasani Anil Kumar	EEE 4year
16.	Peri Diwakar	IT 1year
17.	Jakhotia Akshay	IT 2year
18.	Patel Priyal Prakashchandra	IT 3year
19.	Goud Saiteja Badrinath	ME 1year
20.	Guggilla Ramu	ME 2year
21.	Mangalagiri Vamshi	ME 3year
22.	Nagella Chandra Babu	ME 4year

List of Students – Best Student Awards

S.No	Name of the Student	Department
1.	Maddula Yamini	CE 1 year
2.	N. Preethi	CE 2 year
3.	Gopi Sai Reddy	CE 3 year
4.	Mude Kalyani	CE 4 year
5.	Sushmita	CSE 1 year
6.	A. Sowmya	CSE 2 year
7.	Nuthalapati Sampath Babu	CSE 3 year
8.	Bukkaraya Pravallika	CSE 4 year
9.	M Vishnu Vandana	ECE 1 year
10.	Aare Manikantaswami	ECE 2 year
11.	Pittampally Vinay Biksha	ECE 3 year
12.	Padakanti Udaya Bhanu	ECE 4 year
13.	Kudamala Radhesh	EEE 1 year
14.	Bodige Manikanth	EEE 3 year
15.	Kasani Anil Kumar	EEE 4 year
16.	Abadi Supraja	IT 1 year
17.	Jakhotia Akshay	IT 2 year
18.	Priyal Prakashchandra	IT 3 year
19.	Balendra Patel	ME 1 year
20.	Praneeth Sai Polimera	ME 2 year
21.	Thiyam Herojit Meitei	ME 3 year
22.	Palabindala Sai Shiva	ME 4 year

Gender Sensitization (Poster Presentation - Prizes)

S.No	Name of the Student	Department	Prize
1	Y. Prathyusha, K. Mithika, S. Krishna Priya	CSE II D	1 st prize
2	Nandajit Rabha, M. Rahul, V. Pavan	ME II	1 st Prize
3	V. Varun, P. Koushik, M. Mani Kumar	CSE IID	2 nd Prize
4	Niranjan Kumar, J. Praveen, M. Sai Kiran, G. Nageswar, G. Ramu	ME II	3 rd Prize
5	V. Rushika, V. Sowmya, S. Maheswari	CSE IID	Consolation

Event	WinnerName	RunnerName
200mtr	G.Ramu, ME-II	P.Jeevan, ECE-IV
400mtr	G.VenkataRamana , ECE-IV	G.Praveen ME-II
Shotput	Ch.Bhagath, ECE-II	D.Vishal CSE 2
Discuss	D.Vishal, CSE-II	ChChaitanya, CSE-II

Results of Indoor Games

Event Name	Winners	Runners
Chess(Boys)	A.DileepVerma(CSE-II)	D.Shiva Chand (CSE-III)
Carroms (Boys-Singles)	S. Ajay Sai, (ME-IV)	Aravind, (ME-IV)
Carroms (Girls-Singles)	E.SaiNidhi (CSE-III)	A.Naga Manasa(CSE-III)
Carroms (Boys-Doubles)	1) Hari Prasad(CSE-IV) 2)Narender(CSE-IV)	1)S. Ajay Sai(ME-IV) 2)Sugun Paul(ME-IV)
Carroms (Girls-Doubles)	1)A.NagaManasa(CSE-III) 2)E.SaiNidhi(CSE-III)	1)Aishwarya(CSE-II) 2)Ankitha(CSE-II)
Carroms (Mixed)	1)A. GyaneshwarCSE-III 2)A. Naga ManasaCSE-III	1)D. Shiva Chand(CSE-III) 2)E.SaiNidhi(CSE-III)
Badminton (Boys-Singles)	(CSE-III) A.Gyaneshwar	Shravan Reddy(Mech-4)
Badminton (Girls-Singles)	(ECE-III)LaxmiShwetha	(CSE-III)Sravani
Badminton (Boys-Doubles)	1)Subba Reddy(ECE-IV) 2)Laxmi Narayan(ECE-IV)	1)K.Sonam Kumar(CSE-II) 2)Adarsh(CSE-II)
Badminton (Girls-Doubles)	1)Nikhila Reddy(ECE-I) 2)Ramya(ECE-I)	1)A.NagaManasa(CSE-III) 2)Y.Navya Devi (CSE-III)
Badminton (Mixed)	1)A. Gyaneshwar(CSE-III) 2)A. Naga Manasa(CSE-III)	1)K.Sonam Kumar(CSE-II) 2)Y.Navya Devi (CSE-II)
Table Tennis(Boys -Singles)	A.Gyaneshwar(CSE-III)	N.Rohit(CSE-III)
Table Tennis(Girls-Singles)	Deeksha(CSE-II)	Mounica
Table Tennis (Boys-Doubles)	1)K.Sonam Kumar(CSE-II) 2)Uday(CSE-II)	1)D.Shiva Chand(CSE-III) 2)A. Gyaneshwar(CSE-III)
Table Tennis (Girls-Doubles)	1)Mounica(CSE-III) 2)A.NagaManasa(CSE-III)	1)Navya(CSE-III) 2)Bhargavi(CSE-III)
Table Tennis (Mixed)	1)A. Gyaneshwar(CSE-III) 2)A.NagaManasa(CSE-III)	1)D.Shiva Chand(CSE-III) 2)Akshadha(CSE-III)

World Heritage Day

April 18 was identified as the World Heritage Day in the year 1982 by International Council for Monuments and Sites (ICOMOS). It was suggested that a special day should be marked and celebrated all through the world in the name of "International Day for Monuments and Sites". This special day offers an opportunity to raise the public awareness about the diversity of cultural heritage and the efforts that are required to protect and conserve it, as well as draw attention to its vulnerability. Each year, there's a different theme that's selected to mark this day - this year it's sustainable tourism. It's been chosen to align with the UN's International Year of Sustainable Tourism for Development. It is celebrated with an aim to educate people about protection, preservation and propagation of world heritage sites as these are invaluable assets for humankind.



Adzap**Winner**

Venkatesh & Group
Venkatesh, I Cse C
Rahul, I Cse C
Saikrishna, I Cse B
Jyothi, I Cse C
Yamini, I Civil

Runner

Sai Chandana & Group
Ananya, ECE-I B
Ramya Sri, ECE-I C
Sanjana, ECE-I C
Keerthi, ECE-I B
Saichandana, IT-I

Skit Winners

Vikas, Pavan, Akhila, Sri Lekha, Janaki, Praveen,
Santosh, Swathi, Nagesh, Puli, Purushotham, Naresh,
Pravallika, Naveen, Kranthi, Showrya, Harish, Srinivas.

Best Cultural Co-Ordinator(Boy) - **Rahim**

Best Cultural Co-Ordinator(Girl) - **Sai Chandana**

Best Classical Dance (Solo) - **Divya Sree, I CSE B**

Best Classical Dance - Group

Ananya, ECE-I B

Ramya Sri, ECE-I C

Sanjana, ECE-I C

Keerthi, ECE-I B

Saichandana, IT-I

Best Regional Folk Dance (Solo) - **Nandhajit Rabha, ME-II**

Best Regional Folk Dance - Group

Sagarika & Anushrutha, CSE-IB

Results of Outdoor Games

Event Name	Winners	Runners
Cricket (Boys)	Mech 1)S. Ajay Sai 2)M. Durga Prasad 3)V. Teja 4)C. Sachin Kumar 5)R. Vijay 6)K.Sugun Paul 7)P. Sravan Reddy 8)P. Praveen Kumar 9)K. Sai Krishna 10)Akshay 11)Arvind 12)Shiva 13) Ch. Madhu 14)Amer Ahmed 15)L. Narendar	CE 1)T.Bhargav 2)D.Kalyan Kumar 3)Shashi Vardhan 4)Adil 5)P.Sai Kiran 6)V.Vinod 7)K.Sai Kumar 8)A.Kranthi 9)D.Harish Nayak 10)Y.Dhikshit 11)Rajeev Verma 12)G.Adhitya 13)P.Srikanth 14)N.Tukaram 15)G.Karthik Reddy
Cricket (Girls)	CSE 1)A. Nagamanasa 2)P. Divya Reddy 3)Saritha 4)Appurva 5)Supriya 6)Anusha 7)Sravani 8)Akshadha 9)Navya 10)Bhargavi 11)Akhila 12)Prathiba 13)Snigdha 14)Aishwarya 15)Anusha	CSE & ECE 1)S.Nidhi 2)Savitha 3)Nandhini 4)Rachana 5)Sravani Nidhi 6)Sindhuja 7)Nivedhitha 8)Sravani 9)Chandhana 10)Swetha 11)Manaswini 12)Akhila 13)Divya 14)Mounica 15)E.Sai Nidhi
Volleyball (Boys)	ECE 1)Rahul Reddy 2)Sandeep 3)Naveen 4)Harsha 5)Mani 6)Madhu 7)Harsha Rao 8)Sainath 9)Sampath 10)Pradeep	Mech 1)M. Durga Prasad 2)V. Teja 3)K. Sugun Paul 4)R. Vijay 5)C. Sachin Kumar 6)S. Ajay Sai 7)L. Narendar 8)V. Prasad

Event Name	Winners	Runners
Football (Boys)	CSE 1)A. Gyaneshwar 2)Rakesh 3)Sravan 4)Sampath 5)G.Harish 6)D.Shiva Chand 7)M.Ram Raju 8)E.Gokul 9)K.Sonam 10)Uday 11)Sharath 12)Srikanth 13)Nikhil 14)Nithish	ECE 1)V.Harsha 2)Manoj Kumar.K 3)Sagar Reddy 4)Gananadh 5)Venkata Ramana 6)Sammul 7)Andrew 8)Abhishek 9)Nikhil 10)Vikas 11)L.Akhil 12)Devender 13)Jeevan 14)Anirudh
Throw Ball (Girls)	CSE & ECE 1)S.Nidhi 2)Savitha 3)Sravani Nidhi 4)Divya 5)Sindhuja 6)A.Naga Manasa 7)Nandhini 8)Rachana 9)Seema	CSE 1)Vaishnavi 2)Aishwarya 3)Anusha 4)Priyal 5)Supriya 6)Apoorva 7)Pragna 8)Harshitha 9)Sowmya
Basket Ball (Boys)	ECE 1)K. Manoj 2)K.Sagar Reddy 3)V.Harsha 4)Venkata Ramana 5)Harsha 6)Andrew 7)Jeevan 8)P.Venkateshwara 9)Anirudh	Mech 1)K.Sugunpaul 2)R.Vijay 3)Yeshwanth 4)V.Teja 5)Praneeth 6)Sai 7)Durga Prasad 8)Sai Shiva
Kabaddi (Boys)	Mech 4 1)R. Vijay 2)G.Yeshwanth 3)V.Teja 4)G.Shiva Kumar 5)N.Kishor Rathod 6)K.Akhil Kumar 7)B.Lokeshwar 8)K.Raju 9)T.Madhu 10)T.Shravan	EEE 4 1)K. Ravi Kumar 2)P.Raghavendar 3)G.Surendhar 4)P.Praveen 5)K.Sai Kumar 6)K.Jagadeesh 7)T.Venkatesh 8)B.Mahender 9)A.Vinay 10)M.Subhash

Farewell – Vigama

College Farewell parties are always an exciting affair and bring alive a lot of happy memories, as students travel down their memory lane and recollect their association and friendship with their friends, classmates, juniors and teachers. The saddest part of this is the feeling of melancholy.

The department of ECE conducted farewell on 11th April 2017 where students of B.Tech 3rd year bid farewell to the outgoing students of B.Tech final year with great warmth. It began with a welcome address by the host. Later Head of the dept and few faculty members addressed the gathering through audio visual presentation, recorded by juniors as a surprise to their seniors. Some exciting games were also arranged for the students like flower dedication, spontaneous acts etc and enjoyed by all. Students of B.tech 3rd year presented very entertaining group dance, solo dance and solo song performances. Final year Students participated in 'Fashion Parade'. Juniors took the hand prints of all seniors in colour on a banner for their memory and as a token of love and appreciation. Post refreshments the programme ended with a DJ. Students part ways only to make a challenging and successful career and meet their friends achieving something in life.

11th April 2017 was the time to bid adieu to the final year Civil Engineering students (2013-2017). III-II students arranged lunch for the faculty and their seniors. The party was followed by fun games (musical chairs, flower dedication, ramp walk). Dance performances by Mr. A. Balakrishna (IV-II A) on Prabhudeva's Chill maar was a highlight. Then the group performances by Harish, D. Manoj, Sai Kumar were exciting. Faculty was requested to speak on this moment. They gave their best wishes to the senior students. The party ended with students hopping to the DJ music show.

The farewell for the final year Mechanical Engineering students was conducted on 11/4/2017 within the college premises. The event was organized by the third year students. The event started off with lunch and processed to a gathering where the students and the faculty interacted with one another. Cultural programmes were also a part of the agenda apart from the faculty giving speeches reminiscing over the stay of the students at this college and wishing them best for their future.

Third year students of EEE organized a Farewell Party to the outgoing students of 2013-2017 batch on 11th April 2017. The IIIrd year students started the party by welcoming the final year students of EEE, as the girl students were adorned in traditional dresses, the boys complemented them in formals. The function started with welcome address by students and speeches of HoD and faculty. The event comprised of several dance and song performances. The seniors shared their experiences during the stay in the College. The main attraction of the event was the dance performance by Ramesh IVth year and Raheem IIIrd year.



Finally the event closed with presenting the gifts to each student of outgoing batch as a token of love and wishing them bright career and happy life ahead. It was followed by vote of thanks. Farewell is hard. It makes friends to part ways, BYE is Beginning Yet Not the End of relationships.



Good friends never say 'Good Bye'
They simply say 'See You Soon'

DEPARTMENT ACTIVITIES

Department of Civil Engineering

INTERNSHIP

Name of the Company : ADITYA GEO-INFORMATICS
 Place : JAHANABAD MUNICIPALITY AREA, BIHAR
 Duration : 2 months
 Work are : Surveying
 Auto level, Total Station, DGPS, Land Base Survey
 Students : 4/2 B Section

1. K. Vinay Kumar Raju 13841a0161
2. P. Nagaraj 13841a0178
3. R.Prakash 13841a0181
4. C.Naresh 13841a0190
5. B.Rakesh 13841a0189
6. D.Bharath 13841a0194



Workshop

A workshop was conducted on April 20th and 21st of 2017 for IV-II students on Advances in Surveying Using Total Station and GPS. Resource Person: Mr. G.Venkata Ratnam, Retired Superintending Engineer, WALAMTARI.

Training was conducted by Mr. M. Ramulu and his team of young and energetic four trainers

1. T. Anitha
2. P. Supriya
3. K. Lavanya
4. S. Swetha

Day-I

The session began with a theoretical exposure to TOTAL STATION followed by a practical session on Total Station survey. Students learnt the following things on the workshop:

- | | |
|---|-----------------------------------|
| 1. Temporary adjustments of Total Station | 2. Setting up North using Compass |
| 3. Stake out using Total Station | 4. Use of GPS in Total Station |

Day-II

The session started with field work and then the batches dispersed for lunch. Post lunch session was a Question-Answer part. The speaker gave tips on how to attend interviews and interview skills. He stressed upon being strong at basics of subject. The workshop ended with the best wishes and being congratulated by the Director Srikanth Jatla and felicitating our Guest and trainers.

Department of Chemistry

World Earth Day Celebrations

The Department of Chemistry, celebrated World Earth Day on 22nd April 2017 to increase awareness among students on Environment and Climate changes. Dr K. Nagaratna, Director, Indian Meteorological Dept, Hyderabad and the Chief Guest, has officially launched the logo of the water testing centre of Aurora Research Labs. Dr K Nagaratna delivered a guest lecture on Climate Change predictions and meteorology. Dr K Nagajyothi, Professor, Dept of Chemistry, and the brain behind the setting up of water testing centre of Aurora Research Labs welcomed the gathering. Speaking on the significance of the Earth day as



Birthday of Earth, Mr. Srikanth, Director, expressed deep appreciation and announced that the water testing centre will soon offer pure and clean water testing services not only to College but also test domestic, irrigational and industrial water in Hyderabad. As a part of World Earth Day celebrations various competitions like model display, waste craft and pot painting were held in which students actively participated.

Department of Electrical and Electronics Engineering

Report on MATLAB EXPO 2017, Organised by Mathworks In HICC,Hyderabad

A one Day Workshop “ MATLAB EXPO 2017” was organized by Mathworks in HICC, Hyderabad on 27th April 2017. V. Prasanna Laxmi, Asst. Prof. and S. LaxmiPrasanna, Assoc.Prof. from EEE Department has attended the workshop. The workshop started with Welcome and Introduction by Kishore Rao,Mathworks and later the parallel sessions were conducted in different halls. The topics discussed were: Simulink as your Enterprise simulation Platform was addressed by Naga Pemmaraju and Prasanna Deshpande Mathworks . Effective Teaching Techniques using MATLAB and Simulink part-1 and part-2 was addressed by Dr. Arun K Tangirala.



Dept of Chemical Engg. IIT Madras

Leveraging MATLAB and Simulink for Higher Education was given by Laxminarayan Ravichandran from Mathworks. The exposure to parallel simulation concepts has given us the capabilities of effective technology transfer to students by imparting various applications of the concepts.

Training programme:

A two day training programme on “MATLAB & Its Applications was conducted on 24th and 25th April ,2017.This workshop is intended for the broader academic community who seeks to explore the impact of MATLAB in the industry and Academics. Workshop provides students with a personalized experience that is rich with technical knowledge. This workshop covers basic concepts of MATLAB and its Applications in various areas. Mr.J.Prem Kumar is a Product Manager for MathWorks Products in Capricot Technologies was the speaker for the MATLAB workshop

Department of Computer Science and Engineering

HACKATHON -Kochi

Our team becoming a part of World's Biggest Hackathon was an unforgettable event. It was for the first time that we were exposed to such sheer competitive world. It was an awe inspiring and an enlightening experience. Teams from all over the country selected for the grand finale competed against each other proving their mettle.

Our director sir's words of encouragement about the Hackathon inspired us us to take up a problem statement from the Ministry of Tourism. Fortunately, our team got selected for the grand finale event in Cochin. We feel honoured to be a part of this amazing event.

The Smart India Hackathon 2017 was supposed to be an uninterrupted coding event for 40 straight hours, but we were awake for 46 hours because of such encouraging environment provided at the MBITS(Mar Baselios Institute of Technology and Science) and it was not at all tiring. The host of the events at MBITS made sure we were all comfortable at work. It was rewarding when we were connected on a live feed with none other than Our Prime Minister Shri Narendra Modiji. PM interacted with all the participants all over the country and encouraged each and everyone. His astounding words escalated our efforts.



There were three rounds of evaluation where the judges came across each and every table to see the progress. Every team was judged on all kinds of required parameters. During the third round of evaluation our team was judged by a panel of three and the panel had additional Director General of Tourism of India: Meenakshi Sharma and two others in it. We are happy that we could convince and pitch our idea to her. To sum it up, we have earned a treasurable asset in our lives, it was an amazing opportunity to learn. We would like to thank our director sir, our mentor Kavitha ma'am for supporting us and encouraging us to do more.

HACKATHON - Chennai

We, Marine world team consisting of two mentors M. Kidiyappa, N. Nirmal jyothi and six students Rishab, Jyothi, Shashank, Aravind, Srividya and Anusha from Aurora's Technological and Research Institute went to SSN College of Engineering, Chennai for a Grand Finale of Smart India Hackathon-2017, AICTE, organized by Ministry of Earth Sciences scheduled on April 1st and 2nd.



Hackathon-2017 was inaugurated by Guest of Honour Mr. Lakshmi Narayan, vice-chairman, Cognizant. Chief Guest Hon'ble Justice Dr. Anitha Sumanth, Madras high court, and Hon'ble special Guest K. P. Anbalagan, Hon'ble Minister for Higher education, Govt. of Tamilnadu graced the programme.

Grand Finale of Smart India Hackathon was telecast live at 8:30AM in all 26 cities in India. It's a 36 hour continuous program for Coding. Our objective was to develop a web based mobile application for marine species. In this 36 hr program of hackathon team of 3 mentors from Earth Sciences department trained the students and a team of 3 judges evaluated the work done by us..

Thanks to ATRI and the Ministry for giving this opportunity to participate in Hackathon-2017 on 30th and 31st April
NSS Activities

NSS ACTIVITIES

State Level Entrepreneurship Development Training Programme

The State Level Entrepreneurship development training programme was organized on 23 April by the NSS Cell, Osmania University in association with Aurora's Technological and Research Institute NSS unit as a part of the Osmania university centenary celebrations. LAB (Life after B.Tech) was the knowledge partner for this training programme. Dr. P. Vishnudev, NSS Coordinator Osmania University, Dr. Raviteja, NSS Motivator and initiator, Osmania University, K. Umashankarsharma, Student Co-ordinator & IG Awardee and Mr. Jawaharlal, Incharge Director were welcomed with a memento after the formal inauguration. Hundred students from various universities of Telangana participated in the programme. The motto of the programme was to develop entrepreneur skills in an individual to promote Startup India in a wide range. The students were divided into groups and their thoughts on various business ideologies were discussed. An MoU was signed between knowledge partner LAB and Mayur and his team for rupees 5000. ATRI NSS Volunteers made all the arrangements for this training programme under the guidance of NSS programme officer D. Venugopal Reddy. Director Srikanth Jatla appreciated the ATRI NSS Unit for organising a state level training programme for career development of the students. Certificates were given to all the participants at the end of the programme.



AIDS Awareness Campaign :

ATRI NSS unit in coordination with Red Ribbon Club organised Awareness Programme on prevention of HIV/AIDS on 10th April at college and on 15th April at L.B. NAGAR cross roads. ATRI NSS unit organised various competitions for the students 1. Poster presentation 2. Essay Writing 3. Power point presentation 4. Debate on aids awareness, students actively participated in these competitions .

The list of winners : **Poster presentation:** Chandana-ECE IB- First prize, Bhavani –ECE IB- Second prize, A.kavya- CSE IIA-Third Prize. **Essay writing:** N. Anusha reddy-ECE IIB-First prize, O.Sravanthi -ECE IIB-second prize, Priyanka Lachoriya- CSE-2C-Third prize. **Power point presentation:** Manikanta and Akanksha-IT First year-First prize, sadashiv tej and rohit sreekar-IT first year-second prize. **Debate:** Rahul team-IT-First prize, K.Chandana team –ECE IB- Second prize. ATRI NSS Volunteers with the support of L.B Nagar traffic police conducted AIDS awareness programme at L.B Nagar cross roads .This event was conducted to create awareness about HIV/AIDS, its causes as well as to make people know , how it can be prevented. This campaign also intended to break various myths about the spreading of this disease .The Volunteers carried posters and yelled out slogans. The public had some queries regarding AIDS and HIV eg. “mosquito bite can cause HIV ”,“Sharing clothes can spread HIV” etc to which the volunteers heeded to and cleared all the doubts with patience and understanding. ATRI NSS Volunteers also distributed the water to the public at the L.B Nagar traffic signals .Telangana State AIDS Awareness incharge Dr. Rahul also took part in this program . He congratulated the volunteers for conducting the campaign for a social cause.

University Level NSS Adventure Camp

The University level NSS adventure camp was organised by NSS cell, Jawaharlal Nehru Technological University in association with Vignan Institute of Technology & Science from 10- 15 April 2017. On the first day there was a huge gathering of students from 50 Engineering Colleges from Telangana. The programme was inaugurated by Gokul krishnan, NSS Regional Directorate, Government of India, Dr. M. Satyanarayana Reddy, state NSS officer, Government of Telangana, Dr P. Sammulal, NSS Programme coordinator, JNTUH, Balaiah, NSS Program officer, Vignan college. Three Volunteers P. Venkateswara Reddy - ECE, K.Rahul-Mechanical & Ch.Mounica-ECE from ATRI NSS unit participated in this camp. The entire camp was headed by Dr. Ravi teja, NSS motivator, Osmania Universty. Volunteers had wonderful time camping and enjoying the beauty of nature. They learnt how to do some basic exercises along with some advanced techniques like rappelling, monkey crawling, climbing the mountains and hills, long jump etc. The students liked and enjoyed the scenic beauty around them and learned team spirit at the camp. The motto of NSS “Not Me But You” was maintained and followed by the students as it reflects the essence of democratic living and upholds the need for selfless service. All the dignitaries conveyed compliments to all the NSS Volunteers attending the camp.



STREET CAUSE ACTIVITIES

Street Cause Activities

Task 1:

Date : 2nd April 2017

Place : Necklace Road

Social Impact Department

It is general human nature to go against the flow of the tide; to oppose anything that they presume is not normal. The periphery of our acceptance levels in times as progressive as

ours is appallingly small. So, we decided to push the limitations a bit and do something a lot of people wouldn't be very appreciative off. We walked and did a free hug campaign for LGBTQ acceptance. Along with us, two young kids joint as volunteers. The response we received was a potpourri of acceptance, empathy and joy. Acceptance is the key word here. Let us all take it upon ourselves to empathize with other people's way of being. Let us all take it upon ourselves to not pull fun and throw stones at people who choose to be their own individuals. Let us, above and beyond everything else, be kind and embrace one another for good and for bad. Amount spent: 500.



Task 2:

Date : 5th April 2017

Old Age Home Department

All it takes is one act of kindness; a little display of effort and support. This is exactly what the entire STREET CAUSE ATRI team did for an old man in Omni Old Age home. This oldman is suffering from a kidney disorder. So, we decided to collect as much money as possible to help ease his monetary situation. All members together collected Rs. 7000. We hope he gets well and comes back healthy with a glowing smile. Lots of love to him. Total Amount spent : 7000/-



ACHIEVEMENTS

Faculty Achievements:

Mr. K. Satish Babu, Assoc.Prof. and Mr. K. Harikrishna, Sr. Asst. Prof. have attended MATLAB EXPO on 27th April, 2017 conducted by Capricot Technologies Pvt. Ltd. Hyderabad.

Ms. Sumathi Jyothi, Asst Prof, ECE has presented a paper on "Impact On Gate Oxide Material Of Inverted T Junctionless FinFET at 22nm Technology Node at IEMENTECH 2017 (First International Conference On Electronics ,Materials Engineering & Nano -Technology) Organised by IEEE at Science City ,Kolkata on 28th -29th April,2017.

Mr. Md. Nizamuddin Salman, Sr. Asst Prof of ECE Dept has attended Hands on workshop on 4th April 2017 at JNTU college of Engineering , Jagital on "Overview of Raspberry Pi, Arduino Microcontroller Boards, Programming and Applications".

Dr. Gurnam Singh Chug, Physical Director was the Examiner for Ph.D Viva-Voce at Pondichery University on 3rd April 2017.

Ms. V. PrasannaLaxmi, Asst. Prof. and S.Laxmi Prasanna Assoc.Prof. EEE department attended a one Day Workshop " MATLAB EXPO 2017 organized by Mathworks in HICC, Hyderabad on 27th April 2017.

Student Achievement:

Mr. A. Eswar Abhiram (14841A0461) and Mr.B.Santhosh (14841A0463) of 3rd year,ECE presented a paper at National Level Technical Symposium " EMBLAZON" conducted by JNTU College Of Engineering ,Jagityal on 3rd April,2017

ATRI in Media

పర్యావరణ మార్పులకు కారణం మానవుడే



అలత్రీ లోగోను ఆవిష్కరిస్తున్న పరిశోధకురాలు డాక్టర్ కే.నాగరత్న

మేడిపల్లి: పర్యావరణంలో జరిగే విపత్కర మార్పులకు మానవులే కారణమని, మన భూమిని రక్షించుకునే బాధ్యత ప్రతి ఒక్కరిపై ఉందని ఇండియన్ మెట్రోలాజికల్ డిపార్ట్మెంట్ పరిశోధకురాలు డాక్టర్ కే.నాగరత్న అన్నారు. మంగళవారం పర్యవేక్షణలోని అరోరా టెక్నాలజీ

కల్ అండ్ రీసెర్చ్ ఇన్స్టిట్యూట్లో వరల్డ్ ఎర్త్ డే కార్యక్రమం నిర్వహించారు. కార్యక్రమానికి ఆమె ముఖ్య అతిథిగా హాజరై కళాశాలలో నేచర్ క్లబ్, అలత్రీ, వాటర్ టెస్టింగ్, ల్యాబ్ గంగ్ ట్రీ లోగోలను ఆవిష్కరించారు. కార్యక్రమంలో కళాశాల డైరెక్టర్ శ్రీకాంత్, అధ్యాపకులు, విద్యార్థులు పాల్గొన్నారు.

వార్షికోత్సవం

మేడిపల్లి: ప్రస్తుతం ప్రపంచాభివృద్ధి కేవలం ఇంజనీర్లపై ఉందని అందుకే విద్యార్థులు బాధ్యతాయుతంగా ప్రవర్తించాలని జేఎన్టీయూ ప్రిన్సిపాల్ డాక్టర్ కె.ఈశ్వరప్రసాద్ అన్నారు. పర్యవేక్షణలోని అరోరా టెక్నాలజీ కల్ అండ్ రీసెర్చ్ ఇన్స్టిట్యూట్లో ఆవ్యయా-2 వార్షికోత్సవ వేడుకలను నిర్వహించారు. ఈ వేడుకలకు డాక్టర్ కె.ఈశ్వరప్రసాద్ ముఖ్యఅతిథిగా హాజరై జ్యోతి ప్రజ్వలణ చేసి వేడుకలను ప్రారంభించారు. అనంతరం ప్రముఖ సంగీత దర్శకులు రామాచారి కందూరి పాడిన పాటలు ఎంతగానో ఆకట్టుకున్నాయి. విద్యార్థులు ప్రదర్శించిన సాంస్కృతిక ప్రదర్శనలు ఆహుతులను ఆకట్టుకున్నాయి. కార్యక్రమంలో గంపా నాగేశ్వర్ రావు, వీరేందర్, కళాశాల చైర్మన్ ఎన్.రాజబాబు, రమేష్ బాబు, శ్రీకాంత్, విద్యార్థులు పాల్గొన్నారు.



ఘనంగా అరోరా ఇంజనీరింగ్ కళాశాల వార్షికోత్సవం

మేడిపల్లి: ప్రస్తుతం ప్రపంచాభివృద్ధి కేవలం ఇంజనీర్లపై ఉందని అందుకే విద్యార్థులు బాధ్యతాయుతంగా ప్రవర్తించాలని జేఎన్టీయూ ప్రిన్సిపాల్ డాక్టర్ కె.ఈశ్వరప్రసాద్ అన్నారు. పర్యవేక్షణలోని అరోరా టెక్నాలజీ కల్ అండ్ రీసెర్చ్ ఇన్స్టిట్యూట్లో ఆవ్యయా-2 వేదికపై శుక్రవారం వార్షికోత్సవ వేడుకలను ఘనంగా నిర్వహించారు. ఈ కార్యక్రమానికి ఆయన ముఖ్య అతిథిగా పాల్గొని జ్యోతి ప్రజ్వలన చేసి ప్రారంభించారు. విద్యార్థుల చేసిన జానపద, సాంస్కృతిక కార్యక్రమాలు ఆహుతులను ఆకట్టుకున్నాయి. కార్యక్రమంలో గంపా నాగేశ్వర్ రావు, డా.వీరేందర్, కళాశాల చైర్మన్ ఎన్.రాజబాబు, డా. రమేష్ బాబు, డైరెక్టర్ శ్రీకాంత్, కళాశాల విద్యార్థిసీవిద్యార్థులు పాల్గొన్నారు.

'ఇంజనీర్ల చేతుల్లోనే దేశ ప్రగతి'

పర్యవేక్షణలో (పోడుపల్లి), న్యూనీటుడే: మారుతున్న శాస్త్ర సాంకేతిక అంశాలను ఆకలింపు చేసుకొని అభివృద్ధి వైపుకు ఇంజనీర్లు అడుగులు వేయాలని అరోరా విద్యా సంస్థల చైర్మన్



విద్యార్థుల సాంస్కృతిక కార్యక్రమాలు

రాజాబాబు పేర్కొన్నారు. దేశ ప్రగతికి ఇంజనీర్లు కొలమానంగా నిలువాలని కోరారు. ఇంజనీర్లవైపుకే యావత్ దేశం చూస్తోందని ఆయన గుర్తు చేశారు. కళాశాల డైరెక్టరు జట్ల శ్రీకాంత్ మాట్లాడుతూ.. ప్రతి విద్యార్థి నిర్దిష్టమైన ప్రణాళికలతో ముందుకు వెళ్లాలన్నారు. కార్యక్రమంలో గంపా నాగేశ్వర్ రావు, రామాచారి, తరిండ్ తదితరులు మాట్లాడారు. విద్యార్థులు ప్రదర్శించిన సాంస్కృతిక కార్యక్రమాలు అలరించాయి.


అలరించిన అరోరా వార్షికోత్సవం

వేదవేదాంతం-బోడుపల్లి: విద్యార్థులకు ప్రపంచాభివృద్ధి కేవలం ఇంజనీర్లపై ఉందని అందుకే విద్యార్థులు బాధ్యతాయుతంగా ప్రవర్తించాలని జేఎన్టీయూ ప్రిన్సిపాల్ డాక్టర్ కె.ఈశ్వరప్రసాద్ అన్నారు. పర్యవేక్షణలోని అరోరా టెక్నాలజీ

కల్ అండ్ రీసెర్చ్ ఇన్స్టిట్యూట్లో ఆవ్యయా-2 వార్షికోత్సవ వేడుకలను నిర్వహించారు. ఈ వేడుకలకు డాక్టర్ కె.ఈశ్వరప్రసాద్ ముఖ్యఅతిథిగా హాజరై జ్యోతి ప్రజ్వలణ చేసి వేడుకలను ప్రారంభించారు. అనంతరం ప్రముఖ సంగీత దర్శకులు రామాచారి కందూరి పాడిన పాటలు ఎంతగానో ఆకట్టుకున్నాయి. విద్యార్థులు ప్రదర్శించిన సాంస్కృతిక ప్రదర్శనలు ఆహుతులను ఆకట్టుకున్నాయి. కార్యక్రమంలో గంపా నాగేశ్వర్ రావు, వీరేందర్, కళాశాల చైర్మన్ ఎన్.రాజబాబు, రమేష్ బాబు, శ్రీకాంత్, విద్యార్థులు పాల్గొన్నారు.



సాంస్కృతిక కార్యక్రమాల ప్రదర్శనలు



Do you have issues of water purity?

The water testing centre of Aurora Research Laboratories is just a click away to conduct water analysis of all types of water from the ground water to industrial effluents with particular focus on clean & safe water.

Types of Water we Test
Effluent water / Sewage Water / Swimming Pool Water / Boiler Feed Water / Food-processed Water / Irrigation Water / Construction Water / Potable-Drinking Water

Types of Parameters we Test
pH / Copper / Iron / Chlorides / Sulphates / Nitrate / Fluoride / Alkalinity / Calcium / Turbidity / Absorbance / Phosphate Residue / Dissolved Oxygen / Magnesium / Manganese / Conductivity / Total Hardness / Residual Free Chlorine / Detergent Residue / Dissolved Ammonia / Total Dissolved Solids / more...

Quick and Accurate Clean Water Testing Services @ Nominal Cost by a Team of Trained and Experienced Researchers and Faculty

Quick Service
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Mobile: 910001072
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AURORA RESEARCH LABORATORIES
Water Testing Centre
Aurora's Technological & Research Institute
Parvathipur, Uppal, Hyderabad - 500 088
www.atri.edu.in

GALLERY



Contact Us

Aurora's Technological and Research Institute
Parvathapur, Uppal, Hyderabad, Telangana - 500098
Email : director@atri.edu.in, admin@atri.edu.in
Ph : 9100999999, 9100000070

Website
www.atri.edu.in

Facebook Group
Find us on - [atri84@groups.facebook.com](https://www.facebook.com/atri84@groups.facebook.com)