MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE

(UGC AUTONOMOUS)

Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu
(An ISO 9001:2008 Certified Institution)
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POSITRON 2K17

The +ve Charge

DEPARTMENT
OF
ELECTRONICS & COMMUNICATION ENGINEERING

ACCREDITED BY NBA

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Dr. A. R. Reddy, Professor

Dr. Thamarai, Professor & HOD

Dr. S. A. K. Jilani, Professor

Dr. D. Rajaveerappa, Professor

HIGHLIGHTS OF THE CURRENT EDITION:

* Perspectives from the Department
* Faculty publications
* Chief Editor's Page
* Article by Dean
* Illuminatus
* Alumni Interaction
* University Innovation Fellows
* Student articles
* Student participations
* Placement updates

MESSAGE:

Dr. N. Vijaya Bhaskar Choudary, M.Com, Ph.D.
Secretary & Correspondent

Technology places a vital role in shaping a student's career. ECE Department provides excellent opportunities for the students to discover their potentials. If students are able to go out of college with flying colors, it's no exaggeration to say that it's only because of the supportive environment that is provided in the college. POSITRON provides a glimpse of the activities and achievements in ECE Department. Students must make use of the opportunities provided to them in order to excel in their career. They must aim high. Students should consider technology as a treasure box and make proper use of it to achieve their goals. It gives me an immense pleasure looking at the efforts put by the ECE department, in coming up with creatives ideas to design a newsletter every year.

MESSAGE:

Sri. N. Krishna Kumar, M.S (U.S.A)
Chairman

The Electronics & Communication Engineering Department has produced many phenomenal students who are at very good positions. Students graduated from our college, come back here and support the institution to the best of their abilities. I advise the students to have a clear vision about what they want to become and plan accordingly at the earliest possible stage. They must gain practical knowledge rather than mere bookish knowledge to reach greater heights in their career. They must convert their ideas into reality and must not refrain from trying out new things. I hope the Department continues to achieve success in every aspect and publish the achievements in this incredible magazine every year.

MESSAGE:

Dr. C. Yuvaraj, Ph.D.
Principal

The technological information dissemination to public is the key factor in bringing concerned people/Department together. The Department of Electronics and Communication Engineering contributing best of its efforts in development of technical temper by publishing newsletter "POSITRON". The documentation of different activities and bringing it to relevant technical community is the excellent towards service of society. These activities will help in making the science and technology much stronger towards knowledge bank. I am congratulating all the ECE department staff and students on this occasion.

MESSAGE:

Dr. K. R. Kashwan, Ph.D.
Sr. Professor & Dean,
Department of Electronics and Communication Engineering

I feel immensely privileged and prideful to congratulate the team ECE for bringing out POSITRON 2K17 edition. There is no second thought that a team work adds enormous value for any creative outcome. The newsletter is an opportunity for all of the team members of ECE family to demonstrate their competency and creativeness. I am sure there must have happened a lot of learning experience during the process of compilation of newsletter.

The faculty of ECE are extremely and critically important for the success of the students, not only in the examinations and job markets but also in entirety of successful citizenship throughout their life. The mentorship goes much beyond classroom boundaries and program tenures. I am sure the teachers must have done justification of their purpose being for the students. I wish every teacher an inner strength to serve the very noble cause of mentoring students for the best. We wish to take the newsletter concept in a much higher level in the years to come. We also desire to encourage our teachers to cope up

with newer technologies by learning at faster rates. The teachers are lifelong students and thus can understand the significance of updating their knowledge by way of research, publications and patents. It is imperative on the part of each teacher to involve in active research for value addition. Our faculty and students are doing well in the field of teaching learning process which is evident in form of various awards and appreciations. We only wish further improvements.

The students are the most important visitors to our campus. We exist due entirely to them. We must make teaching very interesting so that students enjoy learning with passion. Only our sincere and consistent efforts will make teaching a very interesting phenomena. This can only happen if teachers are innovative and creative in classrooms. The biggest challenge of teachers is that how to cope up with fast changing and emerging technologies. Again, the answer lies in the research. A good teacher is a good researcher and a good researcher is a good teacher. The research activities will help us in learning newer trends and creativeness will help us delivering the knowledge in classrooms with effectiveness. There are serious plans for upgrading laboratory equipment, software and other infrastructural facilities. The management is generous for providing facilities, training and any other help to faculty and students for improving teaching-learning process.

I sincerely appreciate collective efforts of entire team ECE for putting in hard work in past few weeks. I express my thankfulness to all coordinators and conveners of the program. I, on the behalf of the entire team ECE, express sincere and heartfelt thanks to principal and management of MITS for giving an opportunity.

I wish a very successful symposium for the students and faculty where a lot of learning experience should be taking place. All the best.

PERSPECTIVES FROM THE DEPARTMENT:

Every year of Positron edition brings you brief transcripts of the talk with the entire faculty team of ECE department. The following questionnaire presents a few of the highlights of salient features of day to happening in the department. It also includes our vision for the future planning and expected course of journey we intend to take up.

Q. What are the department targets for the year 2017-18?

Department targets the following:

- Improving teaching learning processes and curriculum under outcome based education system.
- Bringing out high quality research publications, patents and technology transfer for product development.
- Establishing Center of Excellence in R&D in the frontier areas of research and development such as IOT, embedded systems, wireless communication and intelligent technologies.
- Achieving high placement record of at least 90% of enrolled students
- Improving R&D consultancy work and funded projects and revenue generation by way of continuing education programs.

Q. What are main objectives of setting up of center of excellence in R&D and how is this going to be helpful?

Setting up of center of excellence in R&D in the current technological trends as mentioned above will provide opportunities to students and faculty to undertake research in these areas. The center will be equipped with latest equipment and software. The department faculty will be able to publish quality papers and industry standard technology transfer for commercialization. It serves individual faculty's and institutional benefits simultaneously. Students can do their projects in the center.

Q. What are the areas of research that the department is currently focusing on?

Presently the department is focused in active research in the field of IOT, big data, wireless communications, microstrip and patch antenna, embedded systems, smart sensor technology, image processing, cognitive radio, VLSI design and cryptography.

Q. What were the major outcomes of the workshop on Smart Antenna Design and Analysis of MIMO wireless systems conducted in September 2016?

Major outcomes of the workshop are as follows:

- Participants got benefited by gaining know-how on design of MIMO antennas and real time applications of MIMO systems.
- The program disseminated well documented knowledge on the smart antennas design for MIMO environment and other applications.
- It created an opportunity for networking and mutual interaction among faculty and student participants

Q. Were there any changes made in the teaching learning process to benefit the students?

- Students are encouraged to take MOOCS online course in each semester. This is helpful for students to learn via online platform. It is also an opportunity for learning by novel method compared to the conventional class room teaching.
- The students are encouraged to undertake multi-disciplinary projects in latest fields of technology within the campus.
- Students are encouraged to take summer internships for practical exposure.
- A full semester industry internship projects are optionally available for the students of IV Year II Semester, if they desire or they get opportunity
- The internship is essential for students to learn what is happening in industries. The students also design real time application solutions for engineering solutions.

Q. What is going on in the present electronics industry and how is MITS preparing its students for that?

Electronics industry is all set to rapid changes and newer technology is invented frequently. Coping with this fast change is really big challenge for students. MITS is, however, well prepared to handle the fast changing technology. Our faculty undertakes various courses and training on new trends in the industry. Our focus is on IOT, embedded system, VLSI design and communication systems. This helps students for better placement opportunities. Apart from that, placement training sessions are conducted for students to improve their aptitude and reasoning skills. All faculty member of ECE provide technical training to students to improve fundamental and core subject knowledge.

Q. Where is the department heading for and what are its current strengths?

- The ECE department has well experienced faculty with 14 of them having doctorate degrees in various specialization and another 13 faculty members are pursuing PhD.
- Faculty members have currently funded research projects of worth Rs. 34.90 lakhs from funding agencies such as DST and UGC etc.
- The department has taken up interdisciplinary research in collaboration with other department for meaningful and real time projects.
- The department has well-equipped laboratories and software facilities available for the students and faculty for research and teaching learning process.

Q. What innovative and creative work can be expected from the department in the current academic year?

Actually, a lot can be expected from the department in the current academic year as faculty are actively involved in research and development. There is a plan to start in-house practice school training for students. This training will improve student's practical knowledge in real time application system design capability. Also, the faculty are encouraged to teach using multi-media techniques. Also in-house mentoring and guidance is provided to the students by the department faculty for improving placement efforts.

ECE DEPARTMENT FACULTY

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Sr. Professor

Dr. A. R. Reddy, Ph.D.
Professor

Dr. K. R. Kashwan, Ph.D.
Sr. Professor & Dean

Dr. Thamarai, Ph.D.
Professor & Head

Dr. S A K Jilani, Ph.D.
Professor

Dr. D. Rajaveerappa, Ph.D.
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Assoc. Professor

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Sr. Asst. Professor

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Mishra, M.Tech.
Asst. Professor

FACULTY PUBLICATIONS:

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CHIEF EDITOR'S PAGE:

CONGRATULATIONS OF BECOMING AN ECE ENGINEER. WHAT NEXT?

The parents of our students bear all the hardships at their level (like loans, failed rains, failed economy of Agriculture or Business, etc.) to let their son or daughter to have a better life after B.Tech ECE at MITS.

Fortunately our students are getting good placements (this year 142 students of our department got placements in good companies). Many bright students are also going for higher studies abroad.

But what (in the future) if you do not get a job or you loose the job after an year or two? How will you make a better life than your parents in this condition? How will you repay the loan taken for your B.Tech study? How will you form your own future family with kids?

I will suggest a permanent solution, namely to direct your energies to become an entrepreneur. Let us put it this way. Your parents invest Rs.4 lacs to pay fees for you at MITS for 4 years and you pick up a job at the campus with a salary of say Rs.20000 p.m.

Why not invest another Rs.5 lacs and you start a business and try to earn at least Rs.1 lac per month with you as the boss?

But your parents will find that as a risky venture, particularly if the B.Tech loan is not yet repaid. Also the B.Tech curriculum does not teach you how to become a successful business person.

We at MITS are working for a solution in this direction. Our PM is also dreaming of "make in India", Skill Development and Startups.

We all must feel proud to know that MITS has been short listed by NITI AAYOG (the new avtar of previous Planning Commission of Central Govt) to give a grant of about Rs.9 Crores to establish an ATAL

INCUBATION CENTRE at MITS Madanapalle. Two core faculties from ECE Department are involved in the ATAL INCUBATION CENTRE establishment namely Dr. G. Soundra Pandian as a projected CEO and Dr. S. A. K. Jilani as a member.

"Business incubation is a unique and highly flexible combination of business development processes, infrastructure and people designed to nurture new and small businesses by helping them to survive and grow through the difficult and vulnerable early stages of development."

Also MITS has approached the DST with a proposal to set up TBI (Technology Business Incubation Centre) with a funding of Rs.17.5 Crores and one faculty of ECE department (Dr. G. Soundra Pandian) is the Project Coordinator/CEO for such an activity.

If MITS gets the funding either from AIC or TBI, we will open up in this year itself a new dimension in MITS to create a Business Incubation Centre that will allow our B.Tech students not just to dream of the Rs.20000 pm IT/BPO job but to dream of earning a bigger money say Rs.1 Crore to 100 Crores of Rupees of Business per year after getting "incubated" in the MITS Incubation centre.

My sincere advise to our students is to face the realities of life and get started as an entrepreneur if there is a failure on the job front. Do not hesitate to involve in your parent's profession to help them and even take over and build up their business in the future. You and our country will become stronger, if you as a B.Tech ECE becomes multifaceted and start your own Business.

The fourth year B.Tech students are advised to take Internship in the areas where they may want to start business, and if they do not get a job after B.Tech, can incubate themselves at MITS to emerge as successful business personalities.
With all the best Wishes

Dr. G. Soundra Pandian
Sr. Professor
Department of Electronics and Communication Engineering

ARTICLE:

How to Improve English Communication?

All of us are faced with a challenge of speaking good and effective English in a day to day life in general and specifically at educational institutions. The inherent requirement arises from the facts that engineering educational contents and literature are available only in English. This is also a mandatory requirement for delivery of contents in classrooms, knowledge transfer and placement efforts.

For the teachers, there is a twofold challenge, first understanding contents of standard text books authored by world class experts and second to transfer the contents from these books to the students' community in an effective manner. The second part is an essential requirement if teachers want to be successful at all. The knowledge transfer is the sole objective of any given classroom environment. A quality educational institution is always concerned about how much knowledge transfer takes place in a given classroom combination of teacher-students at any time. Fortunately, or unfortunately, the medium of instructions for transferring knowledge is only and only English. Done well everything else but for the want of English, knowledge transfer will adversely be affected. The very purpose of classroom is defeated even before it starts. One can assume how critical is the English for a teacher in classroom. We, the teachers, have no other option but to make our English improved.

For the students, there are two essential need of English as well. The first is indeed the same as of teachers' requirement of learning from text books and to comprehend the same in the class during a teacher's lecture. The second one is related to how to express what has been learnt. This is the most critical as it makes to job market or ruins the hopes of students' getting job in dream companies. Many companies have expressed, during feedback sessions, that student aren't able to communicate effectively, though they may have reasonably good subject knowledge. The English communication has again, in the case of students, done in.

The teacher and students must realize that English speaking is something indispensable for any of the two. We like it or not, we have to live with it, use it and keep improving it. That's the only option we are left with. Now, therefore, comes a question of how to improve English speaking. Unfortunately, there aren't any magic bands which can do wonders for us at once. It's all about long patience and perseverance with focused attention all the times that one should start speaking right now and continue for the rest of the life. The biggest

hurdle of teacher-student community for speaking English in day to day life comes from peer-pressure. I have come across students saying that if they speak English with classmates, the very first thing is that they lose friendship and next comments such as “English girl” or “English boy”. How to handle this is really a big hurdle. The most of the eager students loose on the first hurdle and they stop speaking English with their classmates, except when it is formally required, such as during interviews, viva and may be to answer a question in classroom. This is not sufficient. If one wants to master English communication then, there is only one way of speaking all the times with everyone else who understand and follow English.

Dear students, it is not at all an issue when your friends call you with oblique comments to make fun of it. If you react to it, then there is a hurdle for you. And, if you ignore it, then there is hurdle for your friends making fun of you. Believe it, if you ignore your friends’ adverse comments for some time consistently, your friends will get discouraged quickly and finally give up. This is because, they feel that there is no reaction from you and hence they are probably wasting their time. They feel that there is a hurdle for them and the hurdle is worth not crossing if you show up repeated no interest or no reaction to their comments. This will work in your favor. By now, you have crossed hurdle for yourself and created a hurdle for commenters. You are sure to improve your English. Not only this, a few other students will also follow your path to join you by realizing that this is ultimately good for them. You, have now friends on your side with you to make mass movement. In a way you have shown leadership quality amongst your classmates.

To sum up the theme of how to improve English communication, there is only one way to speak in English all the time with everyone else who follows English. There is a good opportunity for the students during their college years where all can reasonably follow English. Only hurdle lies in psychological thinking and breaking the ice to start speaking English. If you overcome this, it will definitely be helpful. Dear students, right now take a pledge of MITS, that you will speak only and only English during college hours no matter how bad or good it may be.

Dr. K. R. Kashwan
Sr. Professor & Dean
Department of Electronics and Communication Engineering

ILLUMINATUS:

Under the ILLUMINATUS banner, Team Illuminatus (14 members) of ECE II & III year organized many events for enhancing student's technical and soft skills on every Wednesday.

Team Illuminatus:
O.V. Leela - III ECE
T. Dhatri - III ECE
G. Sreelatha - III ECE
P. Krishna Veni - III ECE
B. Lalitha Rani - III ECE
V. Vamsidhar Reddy - III ECE
C. Gowtham Naidu - III ECE
P. Charan Sai - III ECE
C. Pavan Kumar - III ECE
P. Rakesh Varma - III ECE
Y. Keerthi Sharan - II ECE
D. Jayasree - II ECE
T. Navya - II ECE
Sai Sharanya - II ECE

Team Illuminatus identified a problem with the II year students, that they are not fully aware of the technical buzzes going around in the current world scenario. So, we planned to conduct an awareness program by inviting senior faculty of ECE Department with a student gathering of around 180 from three sections namely B, E & F from II ECE in the Main Seminar Hall. First and foremost, Dr. A. R. Reddy, Professor & Dean RRC, ECE, started the program with his admiring speech with all his experiences. He talked about the Project Expo and publishing papers in reputed journals. In continuation with this, Mrs. S. Usha Rani, Assistant Professor, ECE, gave tips for writing technical papers, presenting them and also etiquettes of starting projects, getting internships, summer Schools, etc. In addition to this, she also specified some websites where students can apply for internships, scholarships/funds provided for the projects.

Lastly, Dr. Thamarai, Professor & HOD, ECE, gave a brief introduction on project expo, summer schools, etc. and advised all the students to start their mini projects which can be included in their resume to gear up for placements. Team Illuminatus organised 15+ events during 2016-17.

ALUMNI INTERACTION:

Team Illuminatus organized an interaction session with an Alumnus of MITS, who is an expert in EDA (Electronic Devices Automation), for III B. Tech ECE and CSE departments students on 3rd April 2017. He is **Mr. Praveen Kumar Nukala ,** Sr. Chief Engineer at DXCorr accompanied by his colleague **Mr. Srikanth Reddy,** Sr. Chief Engineer at DXCorr.

OBJECTIVES OF THE SESSION:

- To create awareness among the students no how to use C and Verilog HDL for industry based projects.
- To gain knowledge on design, layouts and fabrication process to develop gadgets based on semiconductors, finfets, etc.
- To get awareness on job opportunities in core electronic industries and the skillset needed to become an expert in the field.

PROGRAM GIST:

To start with, we the coordinators of Illuminatus thought of conducting an interactive session with an expert from an electronics industry. We then found that one of our alumnus who is giving his best for the past eleven years in the domain of EDA (Electronic Devices and automation). He is Mr. Praveen Kumar Nukala who was a student of CSE Department, MITS, graduated in the year 2006. By the request of Illuminatus coordinators to interact with the pre-final year students, he agreed to share his experiences and knowledge on the domain mentioned above. The coordinators divided the day into two sessions. In the morning session we gathered three sections, ECE - A, B & C in the main seminar hall and the session started at 11.00 A.M and went till 12.30 P.M. The afternoon session started at 2.00 P.M and continued for an hour. The target audience during this session were III year CSE and ECE students.

The expert started by telling how he got into the electronics field as a CSE student and how he adapted to the electronic industry. With his expertise in C, he got a grip on VHDL. He also told about the software tools that he used to design the layout of a product like the students currently use Multisim to design to electronic circuits.

He then spoke more about the semiconductors like MOSFETs. He also told about the difference between just reading textbooks and practically learning the subjects. He concluded the session by telling about the ease of getting into core companies and the necessary skillset required by the students to become experts in this field. Coordinators concluded the program by conveying the vote of thanks for the resource persons, staff in-charges and for the students who attended the program.

UNIVERSITY INNOVATION FELLOWS (UIF):

UIF is a fellowship program offered by the d. School of Stanford University. The program aims at bringing a change in the education system. Various concepts like design thinking, lean startup are taught during the course. 6 students from ECE department have successfully completed the course and are officially called as University Innovation Fellows. Three students Sai Kiran Kumar Reddy Y, Sameer Ahmed M N, Charan Sai P visited Stanford University & Google Head Quarters as a part of this program. Below mentioned list of students from ECE got selected for the program:

* Sai Kiran Kumar Reddy Y
* Nishkala K
* Manasa K
* Suchitra N
* Charan Sai P
* Sameer Ahmed M N

STUDENT ARTICLES:

MYO Gesture:

The MYO armband is a gesture recognition device worn on the forearm and manufactured by thalamic Labs in Canada. The MYO is a gesture controlled armband that reads forearm muscle movement to interpret a wide range of intentions. It uses a set of electromyography (EMG) sensors that sense electrical activity in the forearm muscles. It uses our forearm motion and controls the devices. It has a micro USB charging port, status led. It uses the three-gyroscope, three axis-accelerometer, electric and three axis-magnetometer sensors to recognize gestures. It differs from the leap motion device as it is worn rather than a 3D array of cameras that sense motion in the environment or body.

With its matte-black rubber covering are like contact and sensor modules. This band need some warm whenever you wear the band it take little time to warm it work best when they're warmed up. It vibrates when you connected with a device. It uses the Bluetooth version 4.0. You can pair this device to your laptop or mobile through an app. It automatically detects when it is removed from the arm. The MYO can be used to control video games, drones, presentations, music and visual entertainment. It is presently used on medical and military. The main advantages of this device are easy to set up, highly extensible, control onscreen apps and movable objects and consume less power. The drawbacks it is little expensive and not suit for all applications.

- M. V. Sai Sandeep, II Year

Nanobot:

Nanobot is a nanoscale machine indigenously designed and developed to perform a specific task with higher precision. It has inherited the ideology of Nanotechnology and Robotics for emerging applications. Though it has been widely recommended for many applications, the major and important one is medical applications. In the present paper, application of nanobot as a medical robot is discussed with respect to recent engineering techniques.

A nanorobot (also called as Nanobot or Nanoid) is a tiny machine designed to perform a specific task or tasks repeatedly and with precision in nanoscale that is, dimensions of a few nanometers (1 to 100nm) or less and a diameter about 0.5 to 3 microns.

The principles of Nanotechnology and Robotics are used in Nanobot. They can directly interact with cell's surface, nucleus and perform manipulations in cellular level, which are beyond the human hand.

- V. Sravani , II Year

Smart Antennas:

Antenna is also known as an aerial, a transducer designed to transmit or receive electromagnetic waves. It is an electrical device which converts electrical power to radio waves. A smart antenna is a device which combines multiple antenna elements with a signal processing capability to optimize is radiation and automatically in response to signal environment. Generally smart antenna systems are co-located with a base station, a smart antenna system combines an antenna array with a digital signal processing capability to transmit and receive in an adaptive and sensitive manner. Smart antenna's work on the principle of electronically steered antenna and adaptive signal processing. For a normal antenna we need to steer the antenna manually to get maximum gain in a particular direction for the desired signal but for a smart antenna steered by an electronic control unit made up of antennas, processors, etc.

There are two types of smart antennas:

- Switched Beam
- Adaptive Beam

Switched Beam: A finite number of fixed, pre-defined patterns or combining strategies.

Adaptive Beam: An infinite number of patterns that are adjusted in real time.

A simple antenna works for simple RF environment. Smart antenna solutions are required as the number of user's interference and propagation. Their smart reside in there digital signal processing. Smart antenna technology can significantly improve wireless system performance and economics for a range of potential user's. It enables operators of PCS, cellular, and wireless local loop (WILL) networks to realize significance increases in signal quality, capacity and coverage. Operators often require different combinations of these advantages at different times. The dual purpose of smart antennas is to augment the signal quality of radio based systems through more focused transmissions of radio signals while enhancing capacity through increased frequency reuse.

- P. Asraar , III Year

Intelligence Braking System:

A system is a way of working organizing or doing one or doing one or many tasks according to a fixed plan, program or set of rules. A system is also an arrangement in which all its units assemble and work together according to the plan or program. The efficient way to design an automatic car braking system is using Fuzzy Logic. The system could avoid accidents caused by the delays in driver reaction times at critical situations. The proposed Fuzzy Logic Controller is able to brake a car when the car approaches for an obstacle in the very near range. Collision avoidance is achieved by steering the car if the obstacle is in the tolerable range and hence there is no necessity to apply the brakes. Another FLC (which is cascaded with the first FLC for collision avoidance) implements the Anti-lock Braking capability during heavy braking condition. Thus the system is made intelligent since it could

take decisions automatically depending upon the inputs from ultrasonic sensors

- R. Jaswanth Raju , III Year

Dilution of Precision Estimation Using Single Frequency Global Positioning System Receiver:

Global positioning system is a satellite based radio navigation system intended to improve highly accurate three dimensional positions and precise time on a continuous global basis. Usually, GPS accuracy is limited by several factors such as ionospheric, receiver and satellite based errors among them dilution of precession and multiple path errors are very important to investigate the error for improving positional accuracy.

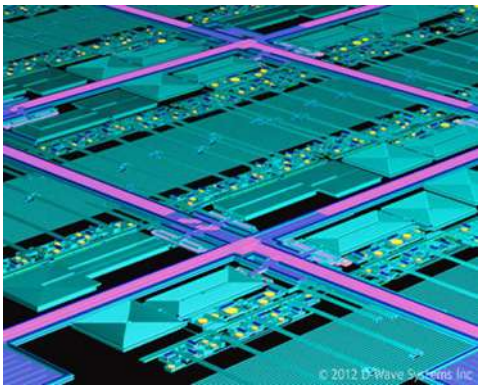
GPS Aided Geo Augmented Navigation (GAGAN) provides an improvement in accuracy and integrity to Global Navigation Satellite System (GNSS) signals for navigation and positioning applications in India. GAGAN system expected to meet near Category I Precision Approach (PA) requirements (Horizontal positional accuracy: 7.9m (95%) and Vertical positional accuracy: 4.3m (95%)) for aircraft landings. Ionospheric differential corrections are needed to be estimated using GNSS satellite signals since it varies random and least predictable in low latitude ionospheric regions. Ionospheric irregularities cause changes in amplitude and phase of GPS signal, thus introducing range errors. The calculation of protection levels is important in evaluation of accuracy and integrity requirements.

- O. Amar Simha Reddy , II Year

Quantum Computing:

With the advancement of technology and advent of computers man's work has become very easy. It is very difficult to even imagine our life without computers and the basic component of these computers is a microprocessor. Moore's law states that the number of transistors in a dense integrated circuit doubles approximately every two years. This

means that by 2020 or 2030,the size of the transistors becomes very small and it indeed is not exaggerating to say that their size can approximately be equated to the size of an atom. At this level, things behave very differently the science dealing with the atoms of such a smaller size objects is quantum mechanics.



The concepts of quantum computing comes into the picture only due to the concept of quantum mechanics. Quantum mechanics is quite different from classical mechanics that we generally make use of. the basic building blocks of microprocessors are 0's and 1's.All the electronic devices work only on the basis of 0's and 1's.Quantum computers make use of qubits, at the same time qubits can hold two different values which is not possible in the normal digital circuits. This special feature of qubits arises from the fact that the electrons can have 2 spins at the same time. The laws of quantum mechanics are very strange and may appear awkward. Hence quantum computers are the next future generation's technological achievements.

If there are n number of qubits, the number combinations can be 2 power n. For example if 500 qubits are present on a device there can be 2 power 500 combinations possible. This number is greater than the number of atoms discovered so far in the entire universe. Quantum computers need to be handled very carefully, even a small change can bring a drastic change in the desired output. The stability of these computers need to be maintained very carefully, for this the computers are placed in a magnetic field generated by the ions. The advantages of quantum computers is that they make use of the power of atoms and electrons in order to perform calculations. And the behavior of the electrons is very strange due to the properties that they exhibit like quantum entanglement which Einstein named as spooky action at a distance.

Since the laws of quantum mechanics are so different, quantum

computers are the most advanced devices that man has invented and became most revolutionary products that the world has seen and will ever see.

- Y. Sai Kiran Kumar Reddy , III Year

Wireless Electricity:

Wireless Electricity is based on strong coupling between electromagnetic resonant objects to transfer energy wirelessly between them. This differs from other methods like simple induction, microwaves, or air ionization. The system consists of transmitters and receivers that contain magnetic loop antennas critically tuned to the same frequency. Due to operating in the electromagnetic near field, the receiving devices must be no more than about a quarter wavelengths from the transmitter. Unlike the far field wireless power transmission systems based on traveling electro-magnetic waves.

Wireless Electricity employs near field inductive coupling through magnetic fields similar to those found in transformers except that the primary coil and secondary winding are physically separated, and tuned to resonate to increase their magnetic coupling. These tuned magnetic fields generated by the primary coil can be arranged to interact vigorously with matched secondary windings in distant equipment but far more weakly with any surrounding objects or materials such as radio signals or biological tissue.

- M. N. Sameer Ahmed , III Year

STUDENT PARTICIPATIONS:

"*Don't let the fear of failure triumph over the joy of participating*"

- A workshop was conducted by Adhiyamaan College of Engineering & Spring Fest IIT Kharagpur, on "Mobile Hacking & Mobile Making" during 24th and 25th January. The following students attended the workshop:

*	D. Anjaneyalu	*	Inamul Hussin C
*	Surya Durga Kousik	*	Hemanth Kumar B
*	Nagendra Babu S	*	Lavanya B
*	Sindhuja D	*	Kuleti Harikumar A
*	Nazeer Ahmed K	*	Adinarayana Naresh K
*	Harshini D	*	Jhansi Lakshmi C
*	Manaswini A	*	Bhakta Nandareddy P
*	Mounika Gowri Y	*	Dileep B
*	Mukula S	*	Surendra K
*	Nagaraju B	*	Kusuma A
*	Manoj Kumar Reddy T	*	Venkata Krishna D
*	Nagendra C	*	Mahitha K
*	Kailash Preetham N	*	Karunakar Reddy K
*	Naga Rammohan B	*	Mohammed Shakir D
*	Tarun Kumar R	*	Dinesh B
*	Kavya P	*	Gnanendra J
*	Avinash A	*	Guna Sekhar B
*	Mani M	*	Chandrakanth G
*	Dharani M	*	Bhaskara P
*	Niha Shareen G	*	Govardhan Sahil N
*	Meghana K	*	Gowtham Naidu C
*	Likith Kumar P	*	Dhatri T
*	Hima Bindu D	*	Yuva Rani A
*	Nava Kishore D	*	Vema Jyothi T

- A workshop was conducted by MITS, in association with StarCom Information Technology Ltd. and Texas Instruments University Program on "Microcontroller Programming using MSP-430" on 4th March. The following students attended the workshop:

* Chandan B	* Guna Sekhar B
* Aamina N	* Gnanendra J
* Aamena Salma K	* Dinesh B
* Hemanth A	* Jhansi Lakshmi C
* Nagendra Babu S	* Chandra Kanth G
* Sindhuja D	* Tarun Kumar R
* Nazeer Ahmed K	* Venkata Krishna D
* Harshini D	* Hari Kumar A
* Rakesh Varma A	* Rangeswara Reddy C R
* Mahendra Naidu U	* Manideep G
* Afroz Basha S K	* Inamul Hussain
* Jaswanth Raju R	* Hemanth Kumar B
* Lokesh K	* Lavanya B
* Kesava Reddy P	* Mamatha K
* Manaswini A	* Hima Bindu B
* Manoj Kumar Reddy T	* Kusuma A

- A technical symposium cum workshop was conducted by JNTUA-Kalikiri. The following students attended different events:

Event Name	Participants
Raspberry Pi	Chaitanya M, Devi Prasanna
Wireless Communication	Ayesha Banu
Stratellites	Almas B, Gnana Prasuna V, Manaswini A, Harshini D, Guna Sekhar, Chandrakanth G
Robotics	Almas S, Chandana Reddy G, Guna Sekhar B
Poster Presentation	Almas B, Aiesha Banu K, Chaithanya M, Gnana Prasuna V, Devi Prasana M
Paper presentation	Vaishnavi S K

- A technical symposium was conducted by JNTUA- Kalikiri. The following students participated in paper presentation on the eve of ECLATECS 2K17:

  * Lokesh K
  * Mahendra Naidu U
  * Gowtham Naidu C

- Niha Shareen participated in paper presentation on thermal power plant, conducted at JNTUA- Pulivendula.

- Jhansi Lakshmi C participated in poster presentation held as a part of 'Engineer's Day' at MITS.

- Chandana Reddy G participated in a workshop on CISCO-Networking conducted at MITS on 22nd & 23rd February 2017.

- Indu Kathya R participated in workshop on System Design using Raspberry Pi, conducted at Pondicherry Engineering College, Puducherry.

- Pavan Kumar C, Sai Kumar K, Pavani C, Sai Poojitha K participated in paper presentation on the eve of ECLATECS 2K17 held at JNTUA-Kalikiri between March 16-17th .

- Sameer Ahmed M N got 1st Prize in paper presentation on the topic WITRICITY at MOHANA MANTRA organized by Sree Vidhyanikethan engineering college, Tirupati during 6th, 7th & 8th October.

- Sai Kiran and Sai Charan got 1st prize in paper presentation on the topic Quantum Computing at Perumal Manimekalai, Husur.

- Sai Kiran and Charan Sai got 2nd prize in paper presentation on the topic Advancements in Quantum Computing at SVCET.

- Aamina N got 1st Prize in paper presentation on the topic ROBOTICS at JNTUA, Kalikiri between 15-16th March.

- A workshop on assorted topics was conducted by Sree Vidhyanikethan, Tirupathi during 6th to 8th October. The following students attended the workshop:

Workshop Topic	Gesture Based Robotics	Sixth Sense Technology	Home Automation
Participants	Nayab Aamina	Mukula S	Niha Shareen G
	Almas S		Meghana Prakash k
	Afreen Taj S		
	Ameena Salma K		

PLACEMENT UPDATES:

CAPGEMINI

Roll No.	STUDENT NAME	DESIGNATION
13691A0424	Nalagonda Chakradhar	Software Engineer
13691A0429	Changa Divyateja	Software Engineer
13691A0439	B.Geethanjali	Software Engineer
13691A0440	Geethika V	Software Engineer
13691A0445	Godlaveeti Guru Narayana	Software Engineer
13691A0456	Harsha Vardhan Katakm	Software Engineer
13691A0457	Varada.Harsha	Software Engineer
13691A0495	R Manideep	Software Engineer
13691A04A6	G Muneer Basha	Software Engineer
13691A04B3	Mallemputi Navya Sree	Software Engineer
13691A04C3	R Pallavi	Software Engineer
13691A04D5	J.V.D.Pujitha	Software Engineer
13691A04F4	Rupesh Purum	Software Engineer
13691A04F7	S.Sai Harika	Software Engineer
13691A04G0	P. Sai Krishna	Software Engineer
13691A04G7	S Sandeep	Software Engineer
13691A04H1	S.A.Shabaz	Software Engineer
13691A04H3	Thummala Shanmukh	Software Engineer
13691A04J6	Dasetty Sreenivasa Teja	Software Engineer
13691A04J8	Srinivasulu Pullaginti	Software Engineer
14695A0402	N.Dinesh Prasad Reddy	Software Engineer
14695A0410	Surendra Reddy	Software Engineer

NTT DATA

ROLL NO.	STUDENT NAME	DESIGNATION
13691A0470	Jaya Shankar Gattu	Software Engineer
13691A0474	Kaustubha AV	Software Engineer
13691A04A5	Mounisha Koguru	Software Engineer
13691A04E5	Ravula Ramya	Software Engineer
13691A04E9	Elisetty Reddy Naga Prasanna	Software Engineer
13691A04F2	Rohitha Kodur Hanumanthu	Software Engineer
13691A04H4	Shireesha Kappala	Software Engineer
13691A04N2	M.vinay Kumar Reddy	Software Engineer

SLK SOFTWARE

ROLL NO.	STUDENT NAME	DESIGNATION
13691A0413	Avinash Kancharla	Trainee Software Engineer
13691A0417	M.Bhargav Harshith	Trainee Software Engineer
13691A0461	Hima Bindu Ganapathineni	Trainee Software Engineer
13691A0486	Madhan Mohan	Trainee Software Engineer
13691A0494	Maneesha Peddireddy	Trainee Software Engineer
13691A0498	Masthan.S	Trainee Software Engineer
13691A04A3	MOHAN CHANDRA.V	Trainee Software Engineer
13691A04A9	Chirrayyagari Nandini	Trainee Software Engineer
13691A04B5	Syed Nazvan Taj	Trainee Software Engineer
13691A04E3	Ramani Narra	Trainee Software Engineer
13691A04E6	Jayam Ramya sree	Trainee Software Engineer
13691A04J2	Sreekanth.Y	Trainee Software Engineer
13691A04L3	Teja Samulapalli	Trainee Software Engineer
14695A0431	Soad Manoj Kumar	Trainee Software Engineer

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ROLL NO.	STUDENT NAME	DESIGNATION
13691A0498	Masthan. S	Software Engineer Trainee
13691A04E4	Reddymasi Ramprakash	Software Engineer Trainee
13691A04G8	Govindu Santhi	Software Engineer Trainee
13691A04J2	Y Sreekanth	Software Engineer Trainee

TECH MAHINDRA

Tech Mahindra

ROLL NO.	STUDENT NAME	DESIGNATION
13691A0404	Anitha Jwala	Software Engineer
13691A0428	Peravali Dinesh Kumar	Software Engineer
13691A0438	Geetha Pulivarthi	Software Engineer
13691A0490	Mallikarjuna Gundagalla	Software Engineer
13691A04C5	Kurra Pavani Priya	Software Engineer
13691A04D3	Priyanka Penikalapati	Software Engineer
13691A04I8	Sree Harsha.Tallam	Software Engineer
14695A0420	P.Saranya	Software Engineer

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ROLL NO.	STUDENT NAME	DESIGNATION
13691A0452	Y. Harika	Developer
13691A0455	P. Harish	Developer
13691A04B1	K B Naveen	Developer
13691A04N2	M. Vinay Kumar	Developer

ENCHANTER CORPORATION

ROLL NO.	STUDENT NAME	DESIGNATION
13691A04B6	S. Nireesha Gayathri	Business Analyst
14695A0408	Saikavya. K	Business Analyst

ARUNA GREEN

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ROLL NO.	STUDENT NAME	DESIGNATION
13691A0422	Bramhini Kuruba	Marketing Executive
13691A0458	C. Hemalatha	Marketing Executive

NETSKILLS WIRELESS SOLUTIONS PVT. LTD

ROLL NO.	STUDENT NAME	DESIGNATION
13691A0407	Anusha Kattamanchi	RF Engineer
13691A0408	M N Apeksha	RF Engineer
13691A0412	G.Aswini	RF Engineer
13691A0415	Balaji N	RF Engineer
13691A0427	P.Dharma Theja	RF Engineer
13691A0431	S.Firoz Basha	RF Engineer
13691A0436	K.Gangadhar	RF Engineer
13691A0441	Nallavadla Gireesh	RF Engineer
13691A0444	Gowthami.R	RF Engineer
13691A0454	Harish Poolasetty	RF Engineer
13691A0465	S Jakeer Hussain	RF Engineer
13691A0471	Jeevitha	RF Engineer
13691A0481	V. Lakshmi Supraja	RF Engineer
13691A04A0	Shaik Md. Muqtar Hussain	RF Engineer
13691A04C0	Deveneni Pallavi	RF Engineer
13691A04C8	Prathap Kothakota	RF Engineer
13691A04D1	Vanaparthi Prathyusha	RF Engineer
13691A04E0	M. Rajasekhar	RF Engineer
13691A04G6	C. K. Sampoorna	RF Engineer
13691A04G9	Kotireddi Sasidhar Reddy	RF Engineer
13691A04I1	Siva kumar	RF Engineer
13691A04I6	P. Sravani	RF Engineer
13691A04J3	Sreelatha Kayala	RF Engineer

13691A04J9	Chamarthi Sruthi	RF Engineer
13691A04K5	L Sunilkumar	RF Engineer
13691A04L5	Tharun	RF Engineer
13691A04M2	O. Vamsidhar Reddy	RF Engineer
14695A0415	Eddula Malleswari	RF Engineer
14695A0427	P Dileep Naidu	RF Engineer
14695A0432	Tathireddy Sai Ram	RF Engineer
14695A0433	P Siva	RF Engineer

AXA BUSINESS SERVICES PVT. LTD

ROLL NO.	STUDENT NAME	DESIGNATION
13691A0406	B. R. Anusha	TRANIEE
13691A04B7	G. Nirmala	TRANIEE
13691A04B9	M. Padmanabha Reddy	TRANIEE
13691A04I0	B. Sindhuja	TRANIEE
13691A04K8	C. Sushmitha	TRANIEE
13691A04L8	G Thejaswini	TRANIEE

CSS CORP

ROLL NO.	STUDENT NAME	DESIGNATION
13691A0492	S. Manal Khaja	Network Engineer

JUSTDIAL

ROLL NO.	STUDENT NAME	DESIGNATION
13691A0414	M. Balaji	Business Development Executive
13691A0418	U. Bhargav	Business Development Executive
13691A0425	N. Charan Kumar	Business Development Executive
13691A0454	Harish Poolasetty	Business Development Executive
13691A0480	P. Lakshmi Prasad	Business Development Executive
13691A04G4	Saisharan Rangsubhe	Business Development Executive
13691A04G9	Kotireddi Sasidhar Reddy	Business Development Executive
13691A04N4	K Vinod Kumar	Business Development Executive
14695A0401	Peyyala Chaithanya	Business Development Executive
14695A0435	Y Subhash Chandra Bose Reddy	Business Development Executive

KNOWLEDGE LENS

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ROLL NO.	STUDENT NAME	DESIGNATION
13691A0413	Avinash Kancharla	Big Data Product Engineer
13691A0494	Peddireddy Maneesha	Big Data Product Engineer

VDART SOFTWARE SERVICES PVT. LTD

ROLL NO.	STUDENT NAME	DESIGNATION
12691A0463	Madhuri. B	Data Centre Operations Engineer
13691A0474	A. V. Kaustubha	Data Centre Operations Engineer
13691A04F2	Kodur Hanumanthu Rohitha	Data Centre Operations Engineer
13691A04H5	Shireesha P	Data Centre Operations Engineer
13691A04H7	D. Shuneza Arjuman	Data Centre Operations Engineer

ENROCO TECHNOLOGIES

ROLL NO.	STUDENT NAME	DESIGNATION
13691A0413	Avinash Kancharla	Full Stack Developers
13691A0494	Peddireddy Maneesha	Full Stack Developers
13691A04A4	Guntur Mohan	Full Stack Developers

L&T TECHNOLOGY SERVICES

ROLL NO.	STUDENT NAME	DESIGNATION
13691A0415	Balaji N	Software Trainee
13691A0425	N. Charan Kumar	Software Trainee
13691A0451	Bommisetty Harika	Software Trainee
13691A0485	Kota Lokesh Kumar	Software Trainee
13691A04C7	K. Pavan Kumar Reddy	Software Trainee
13691A04I2	D. Sivarama Krishna Reddy	Software Trainee
13691A04K4	Patnam Sumiya	Software Trainee
13691A04L8	G Thejaswini	Software Trainee
13691A04M2	Obulreddy Vamsidhar Reddy	Software Trainee
14695A0404	Pichali Reddykishore Reddy	Software Trainee

CANCER AID SOCIETY INDIA

ROLL NO.	STUDENT NAME	DESIGNATION
13691A0420	Bhargavi Rallabandi	Executive
13691A0437	Gayathri. S	Executive
13691A0467	R M Janmisha Sai Keerthi	Executive

13691A04H0	S. Sasidhar	Executive
13691A04I4	Satrasala Soundarya	Executive
13691A04K3	Sumasree. M. S	Executive
13691A04L7	Thejaswi. C	Executive
13691A04M0	Gundupalli Thulasi	Executive
13691A04M7	N Vidya	Executive
14695A0423	Bhargavi. Mallela	Executive
14695A0448	K. Sravani	Executive

INTERNSHIPS:

ROBERT BOSCH

ROLL NO.	STUDENT NAME	DESIGNATION
13691A04F4	Purum Rupesh	Intern
13691A04E3	Narra Ramani	Intern
13691A04E6	Ramyasree Jayam	Intern
13691A04G0	P Sai Krishna	Intern
13691A04H3	Shanmukh Thummala	Intern

QSPIDERS

ROLL NO.	STUDENT NAME	DESIGNATION
13691A0427	P. Dharma Teja	Intern
13691A0442	J. Gnaneswara Reddy	Intern
13691A0479	V. Kundana Sree	Intern
13691A04A5	K. Mounisha	Intern
13691A04C0	D. Pallavi	Intern
13691A04E7	C. Ranjith Kumar	Intern
13691A04G3	Y. Sailaja	Intern
13691A04H9	P. Simran Taj	Intern
13691A04I0	B. Sindhuja	Intern
13691A04I1	R. Siva Kumar	Intern
13691A04J0	P. Sreekanth Reddy	Intern
13691A04J4	T. Sreelatha	Intern
13691A04K2	D. Sumanth	Intern
13691A04M5	M. Veera Siva Reddy	Intern
13691A04M9	G. Vijayalakshmi	Intern