



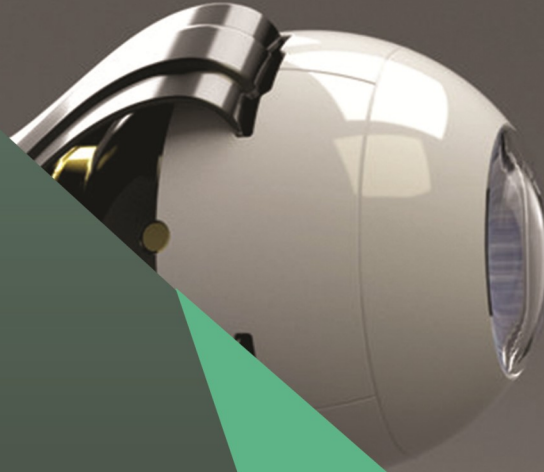
Kongu

Engineering College
Perundurai Erode 638052



IEEE Student Chapter - 29741

INSTITUTE OF
ELECTRICAL &
ELECTRONICS
ENGINEERS



RESONANCE

Volume - IV
Issue - 1



THE STRENGTH OF THE TEAM IS EACH
INDIVIDUAL MEMBER,
THE STRENGTH OF EACH MEMBER IS
THE TEAM
-PHIL JACKSON



Transform Yourself



FROM EDITOR'S DESK

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We, the office bearers of IEEE Student Branch and WIE (an affinity group of IEEE) successfully conducted various functions in the academic year 2014-2015. Through IEEE (Institute of Electrical and Electronics Engineers), we have organized many technical activities like seminars, symposiums, etc.. Through WIE (Women In Engineering), we have reached out to many schools and orphanages and conducted social awareness programme. In addition, many non-technical activities were organized for the members.

We consider this as a great opportunity to share our work with you. We had organized 27 functions in this academic year. We really thankful for all the members and the management for their cooperation towards our success.

Happy Reading!!

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All actions depend on our thoughts

FROM PRINCIPAL'S DESK

Prof. S. Kuppaswami
Principal & Branch Counsellor of IEEE
Kongu Engineering College



As the Branch Counsellor of IEEE Student Branch (29741) of Kongu Engineering College, it's my pleasure to mention that the performance of our IEEE Branch continued to be excellent during this year also in all spheres of its activities. In appreciation of its activities, our Student Branch received "BEST STUDENT BRANCH ACTIVITY AWARD" consecutively for last five years.

The Branch concentrated its activities for student members whereas WIE, an affinity group of IEEE concentrated more on society based activities. Technical symposiums, Seminars and workshops in the state of art of technology were conducted by IEEE, while WIE conducted many programmes to give a different view about technology and education to the downtrodden children of the society in this region.

I am proud of the IEEE Student Branch of Kongu Engineering College for its technological and social activities.

I congratulate the office bearers and members of IEEE and WIE of Kongu Engineering College for their coordinated and enthusiastic involvement in organizing each and every programme which always resulted in a grand success.

Always do your best. What you plant now, you will harvest later

FROM FACULTY'S DESK

Prof. K. Narayanan
Branch Co-ordinator of IEEE
Kongu Engineering College



It gives me great pleasure to write a few words for the News Letter of the IEEE student branch of Kongu Engineering College for the academic year 2014-2015.

Our IEEE student branch continues to perform quite actively. The branch continues to conduct number of programs, thanks to the generous encouragement by the college management and also due to the great enthusiasm being exhibited by the student volunteers. In this academic year, 21 programmes of different types have been conducted. This requires great commitment from the student branch office bearers and members.

The KEC IEEE student branch has been receiving appreciation from IEEE Madras section year after year not only for its steady membership but also as a one of the most active branches of the section. This is a great situation; however unless we raise our target bar to the next level, complacency will set in; we will be grinding the same axe again and again. This is the challenge to the office bearers and members who must now think of innovative activities by the branch so that we will continue to be the forerunners. We need to think innovatively to conduct different types of activities.

We also need to create a format for the documentation of our IEEE activities; we may be now able to access the information of the last two /three years. By creating a format, there will be a method by which the records are updated and the documentation will be up to date.

These are all some of the thoughts which have come to my mind. I request the members to come forward with their suggestions as well as with willingness to take up the responsibility you may like to assume to make our activities more vibrant.

Best wishes for your examination

In order to succeed, we must first believe that we can

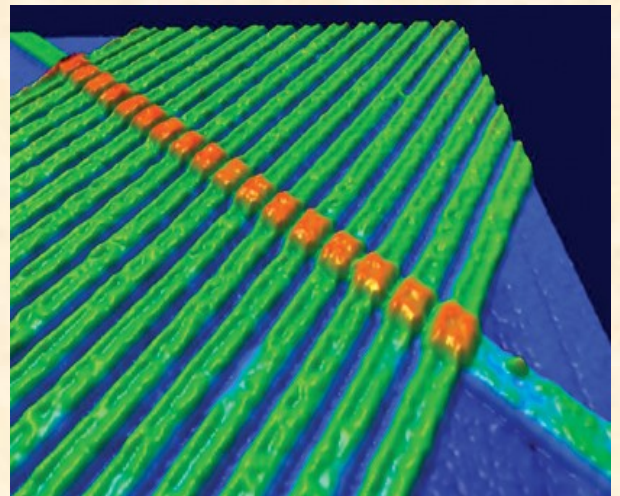
MEMRISTOR

A GROUNDBREAKING NEW CIRCUIT

A simple memristor circuit could soon transform all electronic devices. Since the dawn of electronics, there were three types of circuit components--resistors, inductors, and capacitors. In 1971, UC Berkeley researcher Leon Chua theorized the possibility of a fourth type of component, one that would be able to measure the flow of electric current, the memristor. Now, just 37 years later, Hewlett-Packard has built one.

What is it?

As the name implies, the memristor can remember how much current has passed through it, and by alternating the amount of current that passes through it, a memristor can also become a one-element circuit component with unique properties. Most notably, it can save its electronic state even when the power supply is turned off, making it a great candidate to replace today's flash memory.



Memristor will theoretically be cheaper and far faster than flash memory, and allow far greater memory densities. It could also replace RAM chips as after shut down of computer, it will remember exactly what it was doing when the computer is turned on back, it returns to work instantly. The memristor may lead to affordable, solid-state computers that fit in the pocket and run many times faster than today's PCs. Someday the memristor could spawn a whole new type of computer through its ability to remember a range of electrical states rather than the simplistic ON and OFF states that today's digital processors recognize. By working with a dynamic range of data states in an analog mode, memristor-based computers could be capable of far more complex tasks than just shuttling ones and zeroes around.

When is it Launching?

Researchers say that there are no real barrier prevents implementing the memristor in circuitry immediately. It lies in the hands of the business side to push products through to commercial reality.

Problems are not stop signs, they are guidelines

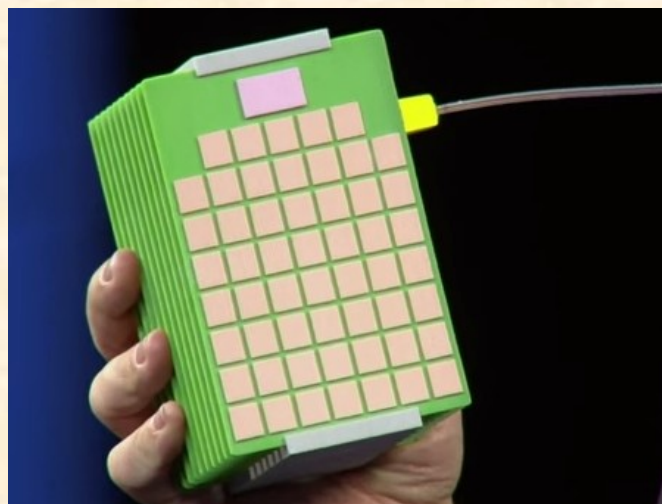
Memristors made to replace flash memory (at a lower cost and lower power consumption) will likely to appear first. HP's goal was to offer them by 2012. Beyond that, Memristor will likely replace both DRAM and hard disks in the 2014-to-2016 time frame. As for Memristor-based analog computers, that step may take 20-plus years to come to the market.

hp invention

In 2008, scientists at HP invented a fourth fundamental component to join the resistor, capacitor, and inductor: the memristor. Theorized back in 1971, Memristors showed promise in computing as they can be used to build logic gates, the building blocks of processors, and also act as long-term storage. At its HP Discover conference in Las Vegas today, HP announced an ambitious plan to use memristors to build a system, called simply "The Machine", shipping as soon as the end of the decade. By 2016, the company plans to have Memristor-based DIMMs, which will combine the high performance of traditional DRAM. John Sontag, Vice President of HP Systems Research, said that The Machine would use "electrons for processing, photons for communication, and ions for storage." The electrons are found in conventional silicon processors, and the ions are found in the memristors. The photons are built using silicon photonics technology because the company wants to use optical interconnects in the system. With silicon photonics, photons are generated on, and travel through circuits etched onto silicon chips, enabling conventional chip manufacturing to construct optical parts. This allows the parts of the system using photons to be tightly integrated with the parts using electrons. If HP can build such a computer, it may prove revolutionary.

BY G.R NIVEDHA

III-CSE

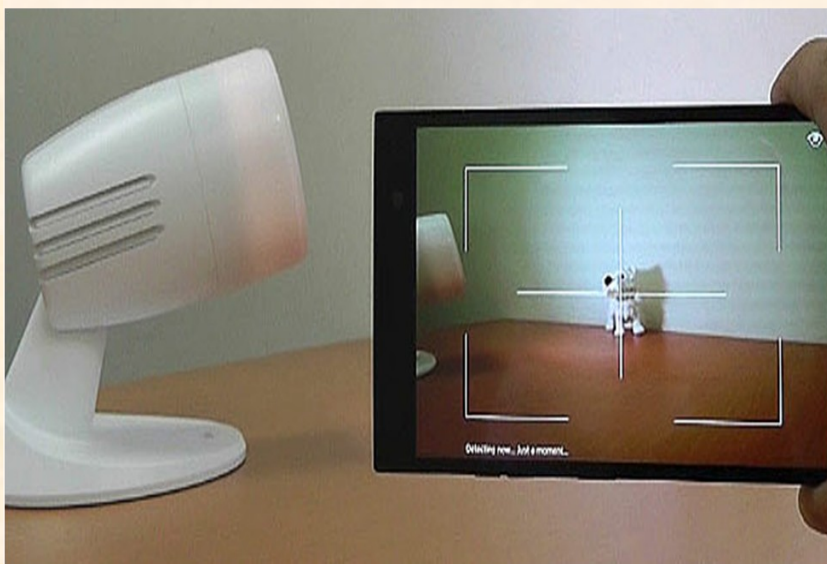


Memory can be very fast but very small, such as the cache on a processor, or very slow but very large, such as spinning hard disks. RAM (fast, small) and flash (slower but larger than RAM, faster but smaller than hard disk) fall somewhere in between. Shuffling data between these different kinds of memory, and ensuring that the right data is in the right place for optimal performance, is a significant bottleneck. High-speed optical interconnects combined with Memristor memory could shake all that up by alleviating, if not removing entirely, that size/performance trade-off. At Discover, HP said that this could enable, for an example, databases that can handle hundreds of billions of updates per second.

Whoever is happy will make others happy too

Fujitsu Forges Li-Fi like QR Replacement

Fujitsu researchers are working on a way to embed identification information into LEDs, so that data can be transferred by projecting light onto an object rather than a QR code. Fujitsu Laboratories, in Tokyo, has come up with a much brighter idea. Its researchers have developed a way to embed identification data in LED lighting that can be projected on any object. With a QR code, you would point your smart phone camera to the object to get more information about it. Instead, in case of the Fujitsu system, it doesn't require anything to be physically printed or attached to the object being queried, which can be distracting, costly or otherwise far something's appearance. The idea is that a departmental store,



for an instance, can illuminate a particular product with an LED lamp so that customers within 2 meter range can point their smart phone cameras at the object and automatically get detailed product information without the store staff being involved. Like a kind of limited, one-way version of Li-Fi technology, the embedded ID data is transmitted by the light and received by the camera at a slow rate of 10 bits per second and is invisible to the naked eye. Data transmission is achieved by

modulating the intensity of the light emitted by the lamp's red, green and blue (RGB) LED lights. A Fujitsu app installed on a smart phone pre-processes the reflected LED light to compensate for any light absorbed by the object. The software then extracts the ID data, which is used to call up a webpage with the appropriate information, just like with a QR code except that in this case the code is invisible. According to Akira Nakagawa, Director of the Image Systems Lab at Fujitsu Laboratories, any kind of light source that enables red, green and blue to be modulated can be used and Fujitsu has achieved the same results using projector light.

By

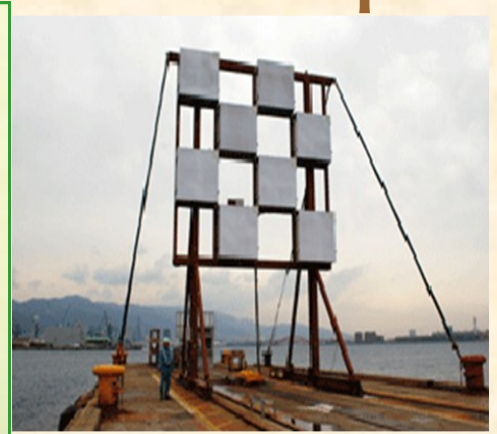
B.PREETHI

III-CSE

You cannot have a positive life and a negative mind

JAPAN DEMOS TO TRANSMIT POWER WIRELESSLY FROM SPACE

Japan Aerospace Exploration Agency (JAXA) has been working on a research to transmit 1GW of Space based solar power to earth. The most difficult part of the system is the wireless power transmission over a long distance. According to JAXA researchers, the best solution is to transmit power as microwaves. In the second week of March 2015, JAXA was able to deliver 1.8 kilowatts “with pinpoint accuracy” to a receiving antenna (rectenna) 55 meters away using carefully directed microwaves. On the same week, Mitsubishi Heavy Industries (in partnership with JAXA) managed to send 10 kilowatts of power over a distance of 500 meters, using larger antennas with more of an emphasis on power over precision. JAXA is planning on testing the technology in space by 2018, with a small satellite transmitting several kilowatts from low Earth orbit to a microwave receiver on the ground.



Locked on Target: In a test of space-based solar power, Mitsubishi Heavy Industries and JAXA sent 10 kilowatts 500 meters by microwave

By
S.PAVITHRA
III-EEE



This image shows the landing of Solar Impulse 2 aircraft after testing

By
R.VIGNESH KUMAR
IV-EIE

The Solar Flight- SOLAR IMPULSE 2

- Solar Impulse 2 is the Round- The World solar airplane, able to fly day and night on solar power, without a drop of fuel
- Its first test flight occurred on 2nd June 2014
- It is powered by 17000 solar cells, build on wingspan of 72m
- It is designed to clock 35000 km around the world in 500 hours
- It features a larger, non-pressurized cockpit and advanced avionics, including an autopilot to allow for multi-day trans-continental and trans-oceanic flights
- The energy density of lithium battery is 4x260 W/Kg which allow the aircraft to fly at night
- The cost of developing the aircraft is about \$150 million contributed by 80 companies around the world, including the key partner of the project, Bangalore based ABB India
- The future plan is to use this type of aircraft as communication satellite and for supplying power to the grids

Everyday is a new beginning

Annual Report of 2014-2015

1. **INAUGURAL** of IEEE & WIE for 2014-2015 th Batch - 27th June 2014
2. **WIESHUIS** - Awareness Programme for Orphanage Children - 05th July, 22nd August, 6th September, 28th December, 31st December 2014
3. **STAR** - Student Technology Awareness Programme for School Students - 26th July 2014
4. **MEMBERSHIP ORIENTATION PROGRAMME** - 26th July 2014
5. **SEMINAR** on “**Web Designing**” - 2nd August 2014
6. **FERRET’14** - Inter Department Non-Technical Event - 8th August 2014
7. **STALLO TECHNICO’14**- Technical Stall- 22nd & 23rd August 2014
8. **PROJECT EXPO’14**- Inter Department Project Expo - 23rd & 24th August 2014
9. **FEITEN** - Inter Department Technical Event - 6th September 2014.
10. **SPACE 2k14**- Inter Department Technical Symposium - 25th September 2014
11. **GUEST LECTURE** on the topic “**Shipping and Logistics**” - 27th September 2014
12. **TAP** -Technology Awareness Programme for School Students - 18th November 2014
13. **STEP’14**-Alumni Interaction Programme & ARDUINO workshop - 19th & 20th December 2014
14. **CANOPUS’14**- Inter Department Technical Symposium - 27th December 2014
15. **INTUIT**- Inter Departmental Non Technical Event - 27th December, 2014
16. **SEMINAR** on the topic “**Basic Electronics and Its Practical Applications**” - 30th December 2014
17. **GUEST LECTURE** on the topic “**Future Trends In Electronics**” - 31st December 2014

Successful people never worry about what others are doing.

Hall of fame



Mr. N. Kumarappan, Secretary of IEEE Madras Section presenting the “Best Student Branch Activity Award” to our office bearers Mr. S. Venkatesh, Chairman and Mr. V. Vetriyvel, Treasurer

**The IEEE Student Branch (29741) of Kongu Engineering College
has been receiving**

“Best Student Branch Activity Award”

consecutively for five years.

Dreams don't work unless you do

STEP

STUDENT TRANSITION AND ELEVATION PARTNERSHIP PROGRAMME

11th JANUARY 2014

The IEEE Student Branch (KEC), in association with IEEE GOLD Affinity Group organized the Student Transition and Elevation Partnership (STEP) program on 11th January, 2014 at Kongu Engineering College, Perundurai. The purpose of this event was to promote and encourage the graduating students to continue their involvement with IEEE upon graduation as professional members. The event had an excellent response and had a turnout of 35 student members from various colleges and 18 GOLD members (alumni and Ex-IEEE office bearers of Kongu Engineering College). Prof. K. Narayanan, Branch Co-ordinator of IEEE, felicitated the occasion.



video conference with Mr.K.Angu Sundaresh

He also mentioned about the recent technologies like pawl powered flashlight, load powered electric vehicle, disease alert tattoo, Google glass, deep sea internet, EEG reading headsets, tungsten optical disc, and many more. A video conference was arranged for the students with our Ex-IEEE Secretary Mr. K. Angu Sundaresh, who is currently the special Project Chairman at Houston University, Texas, U.S.A. Then, students from various colleges who attended the function shared their experience as an IEEE member and events conducted in their colleges.



Er. Barnabas Muthu delivering lecture

Chief Guest Er. Barnabas Muthu, Executive committee member, IEEE Madras GOLD Affinity Group gave a lecture on the vision and mission of STEP Programme and encouraged the students to do research in specific areas and come up with new solutions for the society.



Student Branch office bearers and recent graduates

We cannot learn without pain

TAP

TECHNOLOGY AWARENESS PROGRAMME

7th FEBRUARY 2014

TAP, a technology awareness programme for school students was organized by WIE, an affinity group of IEEE Student Branch of Kongu Engineering College on 7th February 2014 at Government Boys Higher Secondary School, Perundurai. It was conducted for the students of 9th standard with a total of 40. The main motive of this programme was to create awareness among the students about engineering in their day to day life.



on spot event—photographed

In the afternoon session, the office bearers gave lectures regarding engineering and its future scope. This was followed by “Drawing and Poetry Competition” in which the students projected their talents in both the domains. Finally, the students were asked to give a feedback about the programme and the day ended successfully after distributing the prizes for the winners.



photo clocked on Quiz time

In the morning session, the program started with a brief introduction about IEEE & WIE and its objectives towards society. The students were asked to introduce themselves in English and we helped them in improving their communication skills which is really needed in the present scenario. After that, the “Quiz” competition was conducted to the students in which they were asked questions related to their subjects and basic scientific facts.



office bearers with students

Excellence is not a skill. It is an attitude

APOYAR

AN AWARENESS PROGRAMME

15th FEBRUARY 2014

APOYAR, a society concerned awareness programme for orphanage children was organized by WIE, an affinity group of IEEE Student Branch of Kongu Engineering College on 15th February 2014 at Sri Venkateshwara Welfare Society, Erode. It was conducted for a total of 47 children belonging to the orphanage. The aim of the program was to create awareness about education, and to help the children to improve their communication skills and knowledge through various activities.



participants in quiz event

In the afternoon session, we gave tips for improving their personality skills. This program would really help them to rise up as good human beings in the society. This was followed by “Drawing Competition” in which the children exhibited their hidden talents in art works. Finally, the students were asked to give a feedback about the programme and the day ended successfully after distributing the compliments to motivate them.



students' activity with newspaper

The morning session started with a brief introduction about IEEE & WIE and its contribution towards society. Then we gave a brief lecture about further studies after finishing their board examinations and explained the various branches in engineering and gave a clear idea of how to reach their goals by choosing their right stream. The event “Quiz” was conducted in which the children were asked questions related to their subjects.



Office bearers with students

Your attitude determines your direction

GYANDYAN'14

AN INTER-DEPARTMENT TECHNICAL SYMPOSIUM

21st FEBRUARY 2014

GYANDYAN'14, an inter department technical symposium was organized by IEEE Student Branch of Kongu Engineering College on 21st February 2014. The programme began with a prayer song at 9.30 a.m. This was followed by the felicitation address by Prof. K. Narayanan, IEEE Branch Co-ordinator. The function was inaugurated by our beloved Correspondent Thiru.V.K.Muthusamy.



GYANDYAN'14 inaugural function

The students were short listed for the finals after the preliminary rounds for various events. Morning session started with “Paper Presentation” in which students expressed their innovative ideas and projected their views under various disciplines. Simultaneously, “Project Presentation” was also conducted in which the students converted their innovative ideas into work and implemented them practically. The afternoon session began with “Technical Quiz” for the participants to prove their technical knowledge on their core sector.



innovative project displayed by the participant

This was followed by the event “Fact Fanta”, in which participants were questioned about some basic engineering facts they come across in their daily life and also questions were asked by displaying a video in which some scientific principles were hidden. The next event was “Code Debugging” which makes the participants to leash their knowledge in programming sector. The final event of GYANDYAN was “Connections” in which the students were asked to identify the technical meaning that was imparted in the displayed picture. Prof. K. Narayanan, Branch Co-ordinator of IEEE distributed the prizes and certificates for the prize winners of various events.



photographic view of participants

Always desire to learn something useful

AVANZARE'14

A NATIONAL LEVEL TECHNICAL SYMPOSIUM

11th & 12th MARCH 2014

CHIEF GUEST

**MR.S. BALA SUNDAR,
SENIOR SCIENTIFIC OFFICER,
INDRA GANDHI CENTRE FOR ATOMIC RESEARCH,
KALPAKKAM.**

A national level technical symposium AVANZARE'14 was organized by IEEE Student Branch of Kongu Engineering College, Perundurai on 11th & 12th March 2014. Students from various institutions had participated and the total was 90. This two day technical symposium included various events to evoke the technical talents of the budding engineers.



Seminar by Mr.S. Bala Sundar



AVANZARE'14 inaugural function

Day one started gloriously with a presentation on the topic “Recent Trends And Employment In Nuclear Power Plant” by Mr. S. Bala Sundar, Senior Scientific Officer, Indra Gandhi Centre for Atomic Research, Kalpakkam.

The afternoon session of day one started with “Paper Presentation” and “Project Presentation” for participants from various colleges. The “Paper Presentation”, explored many technological ideas of young minds in various streams. The event “Project Presentation”, detailed the ideas practically and they proved the importance of it in future for better and an advanced living. In the mean while, short listed candidates for various events such as Circuit Debugging, Robo Soccer were asked to attend their respective events.

Team means Together Everyone Achieve More!



Delicate team presenting their paper

The initial events were “Circuit and C debugging” where participants from circuit and software branches were given typical problems in their respective domains and they were focused on solving the issues that could reveal their technical skills. This was followed by events related to robotics sector. Events such as “Robo Soccer”, “Line Follower” and “Mine Sweeper” were conducted. These challenging events focused mainly on the automation technology and took us to a new era of future automation. This would pave the way for the first step in industrial automation. The first day of AVANZARE'14 ended successfully as scheduled.



robots playing soccer



Zeal to crack quiz

On the second day, we conducted events related to management skills and some technical events to unleash the talents of upcoming engineers. Session started with “Quiz” where general scientific questions related to engineering were thrown and the participants actively answered those questions by recollecting the basics. The next event was “Best Manager” where they were asked to market a product with certain criteria and this event surely kindled the managerial skills of emerging engineers. After all these events, certificates were provided for the participants by Ms. V.R. Saraswathy, Staff Co-ordinator of IEEE. Finally, the symposium ended patriotically by singing the National Anthem.



prizes distributed to participants

In the middle of the difficulty lies opportunity

INAUGURAL

2014th BATCH

27th JUNE 2014

The inaugural function of IEEE Student Branch along with the WIE affinity group of Kongu Engineering College was conducted on 27th June 2014. The function started with the prayer song and lighting of traditional Kuthuvilakku.



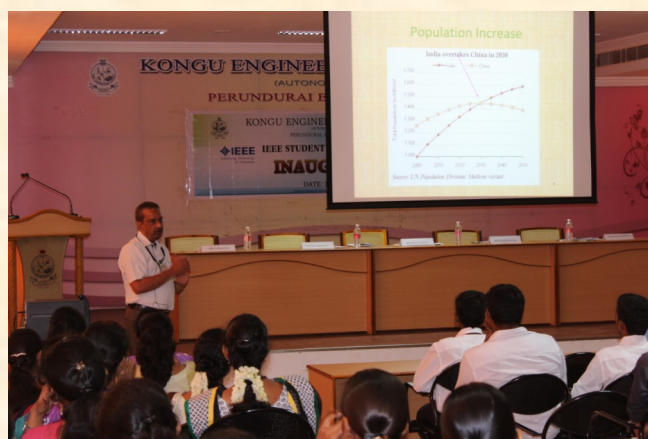
IEEE office bearers

Prof. K. Narayanan, Branch co-ordinator of IEEE gave a warm welcome to the gathering. Then, he spoke about the IEEE membership and shared good comments of IEEE from the management of our College. He also advised the office bearers to bring out new ideas and social relevant activities in this year. Prof. S. Kuppuswami, Branch counselor of IEEE extended his appreciation for their work in the previous year and encouraged the new office bearers to follow the same and bring out some innovative ideas. Ms. V.R. Saraswathy, Staff co-ordinator introduced the office bearers for the year 2014-2015. The year plan for IEEE was proposed by Mr. S. Venkatesh, Chairman – IEEE and the year plan for WIE was proposed by Ms. R. Suba Keerthana, Chairperson – WIE.



WIE office bearers

This was followed by the guest lecture by Mr. S. Bala Sundar on the topic “Nuclear Power Perceptions and Realities” in which he mentioned the status of power production and necessity of Nuclear Power Plants in India. The function got concluded after the formal vote of thanks proposed by the treasurer of the IEEE Student Branch Mr. V. Vetriyvel and finally the function ended after extension of gratitude to our motherland through the National Anthem.



lecture by Mr.S. Bala Sundar

There is no elevator to success. You have to take the stairs

STAR

STUDENT TEACHER AWARENESS AND RESEARCH

26th JULY 2014

The WIE affinity group of IEEE Student Branch of Kongu Engineering College conducted a STAR Programme for a group of students belonging to 11th standard grade of Sri Vigneshwara Vidhyalaya Higher Secondary School, Perumanallur on 26th July 2014.



students were explained about Kongu FM

The squad of 46 students were accompanied by three teachers. The aim of the programme was to expose a word of awareness about the latest technologies and the various career opportunities opened up for them once they complete their schooling. The session was started with a career guidance presentation to the students by the office bearers of IEEE. This was followed by a field visit, in which the students were given an exposure to the laboratories in the college and were exposed to the infrastructure of the college as well. Lunch was then provided to the students. A lot of team building and brain training activities were conducted in the afternoon.



photo flashing informative quiz competition

The programme also included Personality identification, general knowledge quiz and other team events to improve concentration and performance of the students. Each and every student was given a chance to come to the stage boldly and face the audience. The students thoroughly enjoyed the programme and participated with enthusiasm. P. Vejai krishnaa, Additional Treasurer, interacted with the students regarding their future career options and guided them. Finally, valuable feedback was obtained from the students.



Additional Treasurer Vejai delivering a motivational speech

The weakest person is the one who has no self control

SEMINAR

WEB DESIGNING SEMINAR

2nd AUGUST 2014

A Seminar was conducted on “Web Designing” by IEEE Student Branch of Kongu Engineering College, Perundurai on 2nd August, 2014. This seminar helped to gain knowledge regarding the basic ideas of web designing and web page creating methods. At first, the session started with a brief idea about Hyper Text Market Language (HTML) and its basic coding. It is the standard mark-up language used to create Web pages.



Entire computer center with participants



Instructor explaining the basic HTML

A web browser can read HTML files and compose them into visible or audible Web pages. HTML allows images and objects to be embedded and can be used to create interactive forms. This was followed by Cascading Style Sheet (CSS) in which various sheets were designed. Cascading Style Sheets is a style sheet language used for describing the look and formatting of a document written in a mark up language. In next session,, java script was taught to the students in which html scripts were written though java.

JavaScript is a dynamic computer programming language. It is the most commonly used as part of web browsers, whose implementations allow client-side scripts to interact with the user, control the browser, communicate asynchronously, and alter the document content that would be displayed. In addition to all these, a server scripting language called PHP (hypertext pre-processor) was taught to the students which helped them to write the scripts online. PHP is a server-side scripting language designed for web development but also used as a general-purpose programming language. Finally, the function ended with the distribution of certificates to the students.

If opportunity doesn't knock, build a door

WIESHUIS

AN AWARENESS PROGRAMME

2nd AUGUST 2014

WIESHUIS, a society concerned awareness program for the orphanage children was organized by WIE, an affinity group of IEEE Student Branch of Kongu Engineering College on 2nd August 2014 at New Life Home, Perundurai, Erode. The aim of the programme was to create awareness about education, and to help the children, improving their communication skills and knowledge through various activities.



active participation of students in quiz event

It was conducted for a total of 15 students belonging to the orphanage. The session started with a brief introduction about IEEE & WIE and its contribution towards society. In order to refresh everyone we conducted a gaming event and then we gave a brief lecture about further studies after finishing their board examinations and explained the various branches in engineering and gave a clear idea of how to reach their goals by choosing the right stream. The event “Quiz” was conducted in which the children were asked questions related to their subjects.



students' competing each other on their drawing talents

In the afternoon session, we gave some inputs for improving their personality skills. A “Memory Event” kindled their memory skills by allocating the tasks. This was followed by “Drawing Competition” in which the children showed their hidden talents in art works. Finally, the students were asked to give a feedback about the program and the day ended successfully after distributing gifts purchased for the children.



office bearers with students

Success always depends on the second letter

STALLO TECHNICO

A TECHNICAL STALL

22nd -23rd AUGUST 2014

The Open House Exhibition (OHE) for the year 2014 was conducted on 22nd August and lasted till 24th August. The function STALLO TECHNICO commenced on 22nd August and lasted till forenoon of 23rd August. In this function, there were many events conducted such as Puzzle Solving, Contraption, Game hub, about IEEE. Both IEEE and non IEEE members of our college eagerly participated in the function.



Contraption by volunteers

In the puzzle solving event, the students eagerly participated. This event kindled their brains to solve the puzzles. Many students took part in puzzle solving and won compliments. In contraption, the students used mobile phones and wooden logs to display IEEE in a chart. This event attracted the viewers and was appreciated by many. The other non technical events include the game hub. This turned out to be the event of technico, as it created a keenness for everyone to win. At a point, there were both tears and laughter in stallo tecnico, as it broke the hearts of some, while it cheered the hearts of some others.



Puzzle solving game

We displayed the previous editions of IEEE spectrum magazines and explained the usage of those magazines. In addition, we the IEEE office bearers and volunteers explained in detail about IEEE, the nature in which it was functioning in our college and benefits of being an IEEE member to the public. It helped the public to have an awareness about IEEE. Thus the stallo tecnico was made both a technical and a fun filled event, one which would be cherished in the hearts of IEEE members forever.



An explanation about spectrum

Surround yourself with positive successful people

PROJECT EXPO

AN INTER DEPARTMENT PROJECT EXPO

23rd -24th AUGUST 2014

The event, PROJECT EXPO was conducted by IEEE Student Branch of Kongu Engineering College on 23rd August afternoon and it lasted till 24th August 2014. This event paved way for the students to expose their practical knowledge through their project ideas.



student explaining the project

There were around 10 innovative projects displayed in the exhibition. The projects from various branches such as automation, computer technology and renewable energy were exhibited by the IEEE members of our student branch. The project displayed were entitled such as password based circuit breaker, smart helmet which ensures the safety of labors in the industry.



a team explaining their project to juries

Automation based projects reassured that the students are becoming more and more enthralled about automating the things around them. The best two projects in the exhibition were selected by the juries based on their innovation, presentation skills and technical background of the ideas. The chief guest congratulated the core team for their sincere efforts which made this as one of the most successful events in the open house exhibition.



a view of project expo gallery

Don't let the opinion of others consume you

FERRET'14

A NON-TECHNICAL EVENT

9th AUGUST 2014

FERRET'14, a non technical event was organized by IEEE & WIE Student Branch of Kongu Engineering College on 9th August, 2014. The function started at 9:30a.m. with prayer song. Mr. S. Bathusha, IEEE student branch secretary delivered the Welcome Address. Then the session was led by Ms. N. Nithyavathy, Staff Co-ordinator, with an informative speech addressing the students. She highlighted the importance of participation in the events, which develop their skills and knowledge.



inaugural oration by Ms. N. Nithyavathy

The first event was “Babaa” in which a member from a team was asked to find the hidden word from the action of another member belonging the same thing. “Dare To Stand” was the next event in which six teams had participated through which they exhibited their creativity and talents. Following that, “Word War” a debate on the current affairs was held. This surely unleashed and improved the communicative skills of students.



the event “Word War”

The next event was “Only English” in which difficult words were given and students were asked to pronounce it without any flaw. This event also comprised of framing anagram which enhanced the vocabulary of the students which has utmost importance in present era. The final event was “If you are a CEO” in which we revealed the students’ management skills by allocating situations. This event helped the students to improve their marketing ability and logical thinking. Finally the day ended after distributing prizes to the winners.



the event “Only English”

If it doesn't challenge you it doesn't change you

FEITEN

A TECHNICAL EVENT

6th SEPTEMBER 2014

FEITEN, a technical event was organized by IEEE & WIE Student Branch of Kongu Engineering College on 6th September, 2014. It was a half a day event. The function started with a prayer song. Mr. V. Vetriyvel, treasurer delivered the Welcome Address.



zeal to find amazanico facts

The first event was “Amazonico” in which the students were asked various questions related to amazing scientific facts in day to day life and this became an interactive session while discussing the facts. The facts were from various fields such as engineering, hydrology, biology, human habituals, etc., The next event was “3D Logo Quiz” in which six teams had participated. In this event, each team was provided a laptop and they were asked to play the windows app 3D logo quiz.



playing 3D logo quiz

This event helped the students to know the logos of various popular companies worldwide and knowledge on some real corporate were impinged. The final event was “Spiel Fakten” in which the students were questioned related to current sports facts. This event helped the students to improve their knowledge on sports. The students who participated in these events really enjoyed. Finally the day ended after getting feedback from the students about the events conducted.



FEITEN participants

Success is falling nine times and getting up ten

SPACE 2K14

AN INTER DEPARTMENT TECHNICAL SYMPOSIUM

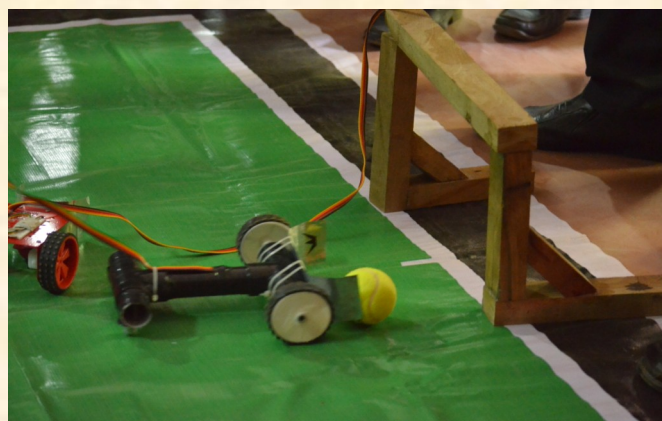
20th SEPTEMBER 2014

SPACE 2K14, an inter department technical function was organized by IEEE Student Branch of Kongu Engineering College on 20th September, 2014. The function started with prayer song. The Welcome Address was proposed by Mr.P. Vejai Krishnaa, Additional treasurer of IEEE student branch, KEC. This was followed by the Presidential Address by Ms. V.R. Saraswathy, IEEE staff Co-ordinator.



Students presenting papers

The students were short listed for the finals after the preliminary rounds for various events. Morning session started with the “Paper Presentation” in which the students expressed their innovative ideas and projected their views under various disciplines. Simultaneously, “Project Presentation” was also conducted in which the students converted their innovative ideas into practical work. The next event “Find the Bug” that was conducted for the participants to leash their knowledge in programming sector.



Soccer robo making a goal

The afternoon session started with the event, “Scratch Your Mind” which evaluate the technical knowledge of the students in their core fields. This was followed by the event “Connectronics”, in which the students were supposed to find the technical word that was imparted in the pictures. Collaterally, the events “Robo Soccer” and “Line Follower” were conducted to take us to a new era of future automation. The students from various departments eagerly participated in the events. Prof. K. Narayanan, Branch Co-ordinator of IEEE student branch distributed the prizes for the winners in various events. Finally, vote of thanks was proposed by Ms. S. Vinodha, Additional treasurer of WIE, KEC. The function ended with the “National Anthem”.

Mistakes are proof that you are trying

GUEST LECTURE

25th SEPTEMBER 2014

CHIEF GUESTS

MR.J. SENTHIL KUMARAN, MANAGING DIRECTOR

&

MR. SANTHANA JEYAKRISHNAN, DOCUMENTATION MANAGER

THIRUVEE LOGISTICS, TUTICORIN.

The IEEE Student Branch of Kongu Engineering College organized a guest lecture on 25th September 2014 on the topic "SHIPPING AND LOGISTICS". Ms. T. Suriya, Vice Chairperson of WIE-KEC welcomed the gathering.



lecture by Mr.Senthil Kumaran

In the first session, Mr. J. Senthil Kumaran started his lecture on the topic "SHIPPING". He explained the layout of V.O. Chidambaranar port and modern container handling equipments in the shipping process. After that, he explained about the inland connectivity of the Tuticorin Container Terminal (TCT), known for efficiency, reliability and swiftness. He also detailed the process involved in the Container Freight Stations (CFS) and Inland Container Depots (ICD) such as transportation, warehousing, stuffing, tallying, yard management, repair and maintenance.



lecture by Mr.Santhana Jeyakrishnan

The next session was taken by Mr.Santhana Jeyakrishnan on the topic "LOGISTICS". He told the procedure involved in import and export process of goods in shipping. Then he briefly explained about Custom House Agent (CHA) and Freight Forwarder (FF) who are the most important persons in import & export functioning. After that, he detailed the various testing methods on goods, container standards and marine insurance which covers the loss or damage of ships. The students those who attended the session gained some knowledge on "Shipping and Logistics" and the students doubts on the lecture topic were clarified keenly and instantly by the guests.

Success occurs when opportunities meets preparation

SAY I AM YOU

I am the dust in the ocean of sunlight.
I travel to far away lands,
Not knowing where I rightfully belong.
I see, I feel and sense the life around me,
But I don't play a part,
Never have I asked the question why?

All I do is ponder,
Knowing that I'll keep myself imprisoned in loneliness.
My friends and kin may ask why endear on this dangerous
journey? Never giving an answer,
I face the question only with a provocative intention.

I'm lost, truly lost
How do I know?
Never can I say!
But being bothered, never ain't I

Unbiased taking what life has to offer I walk a
path not very many know.
Sometimes even had my face down the "Muk".
Stillness in tranquility is one legacy I have never left, and never
hope too.

My journey has imposed and intruded me with only a question,
A question with choice; is something that I hoped and longed for.
But that moment of self-reawakening and realization I understood
What more am I?
Than a spec of dust, that wanders and wanders till the end of time.

Ignorance has taught me bliss,
Desire has made me selfless,
Pain showed me reality.
Endurance has blessed me with peace.

Action is the fundamental key to success

I will still continue to wander lonely as a spec of
dust, Not finding what I need,
Not knowing what I want,
Being exactly where I don't belong.

Intoxicated and consumed by all around me;
Only at the point of the lowest despair,
Where even light disintegrates and dissipates.
I found hope.
Resurrection was not an option,
But rather the only choice;

Understanding the real silence is the only created, When I
silence myself.
Now and not anymore,
My hopes and dreams mattered to me.
Redemption turned out to be my only salvation.

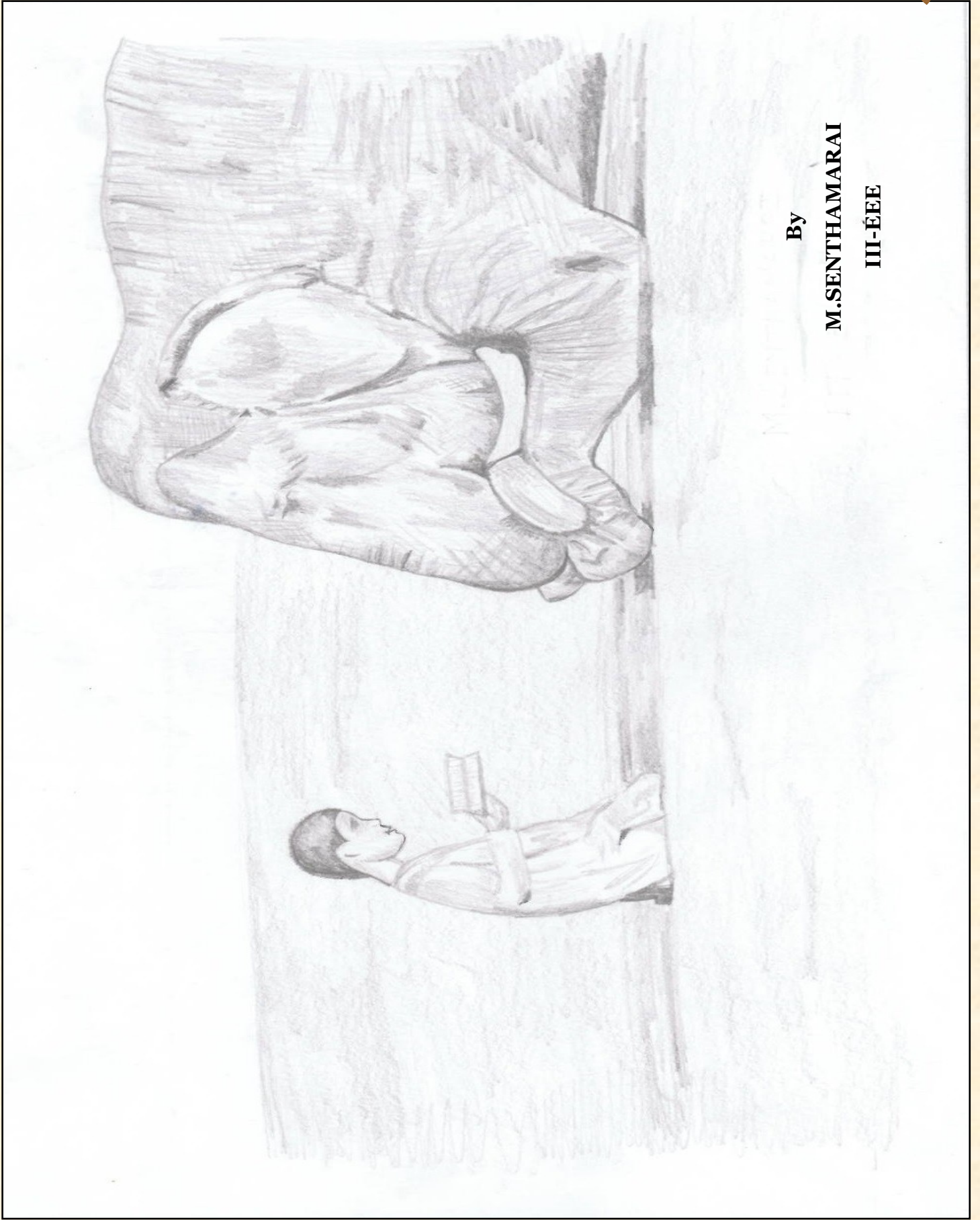
I never worried about anything anymore.
I wandered continuously to the furthest corners of space and time.
Never having to ask myself another question.
That's when I understood I was already at peace.

I closed my eyes and said good bye very sound,
And dissolved myself in complete eternal peace.

S.N ARJUN

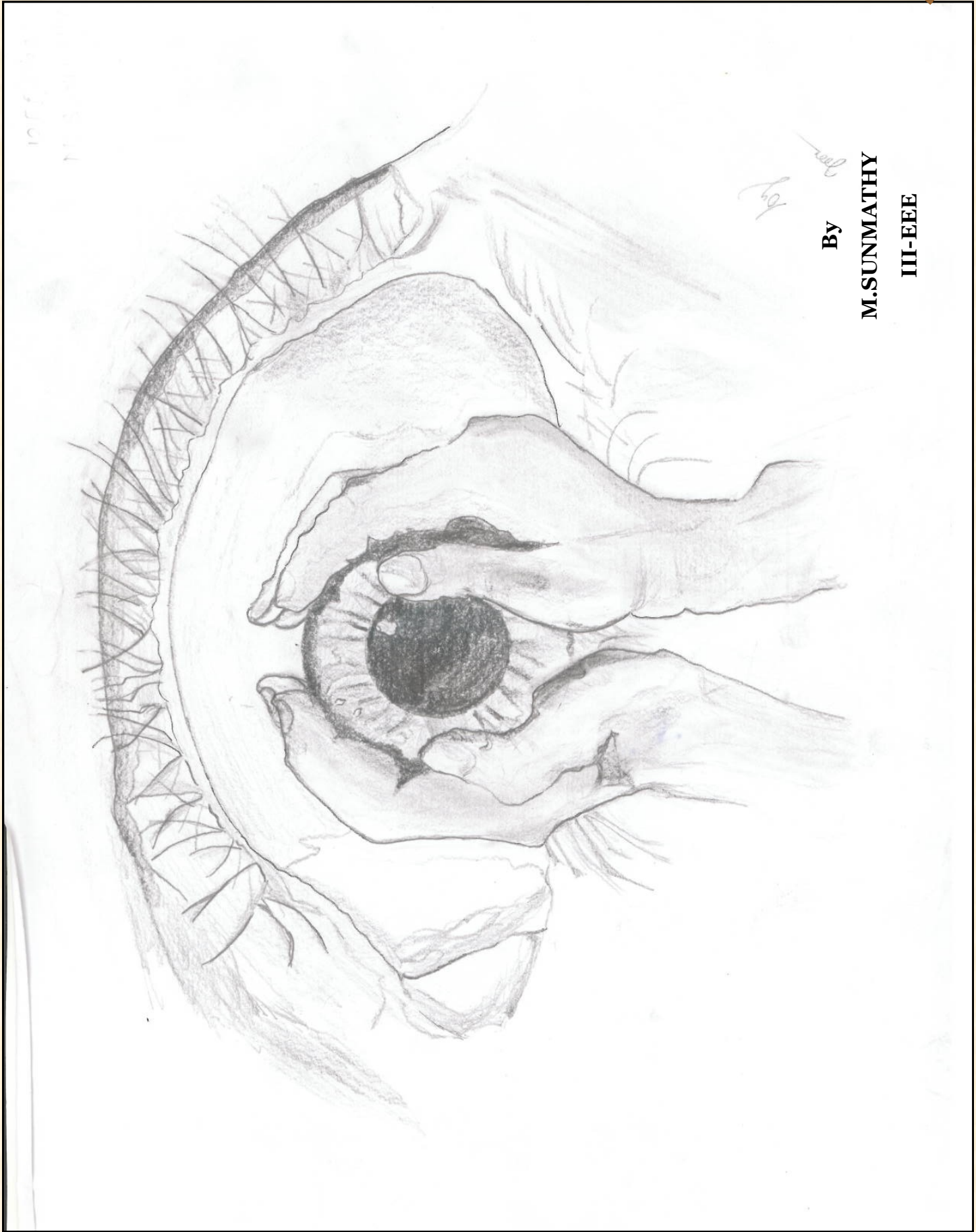
III-MTS

You learn something every day if you pay attention



By
M.SENTHAMARAI
III-EEE

The real failure is the one from which we learn nothing



By
M.SUNMATHY
III-EEE

The expert in anything was once a beginner

NATURE'S ENVIRONMENT

**Beauty of nature, we all love to see,
From tiny insect to exotic tree.
So much life and diversity,
You can learn more, at university.**

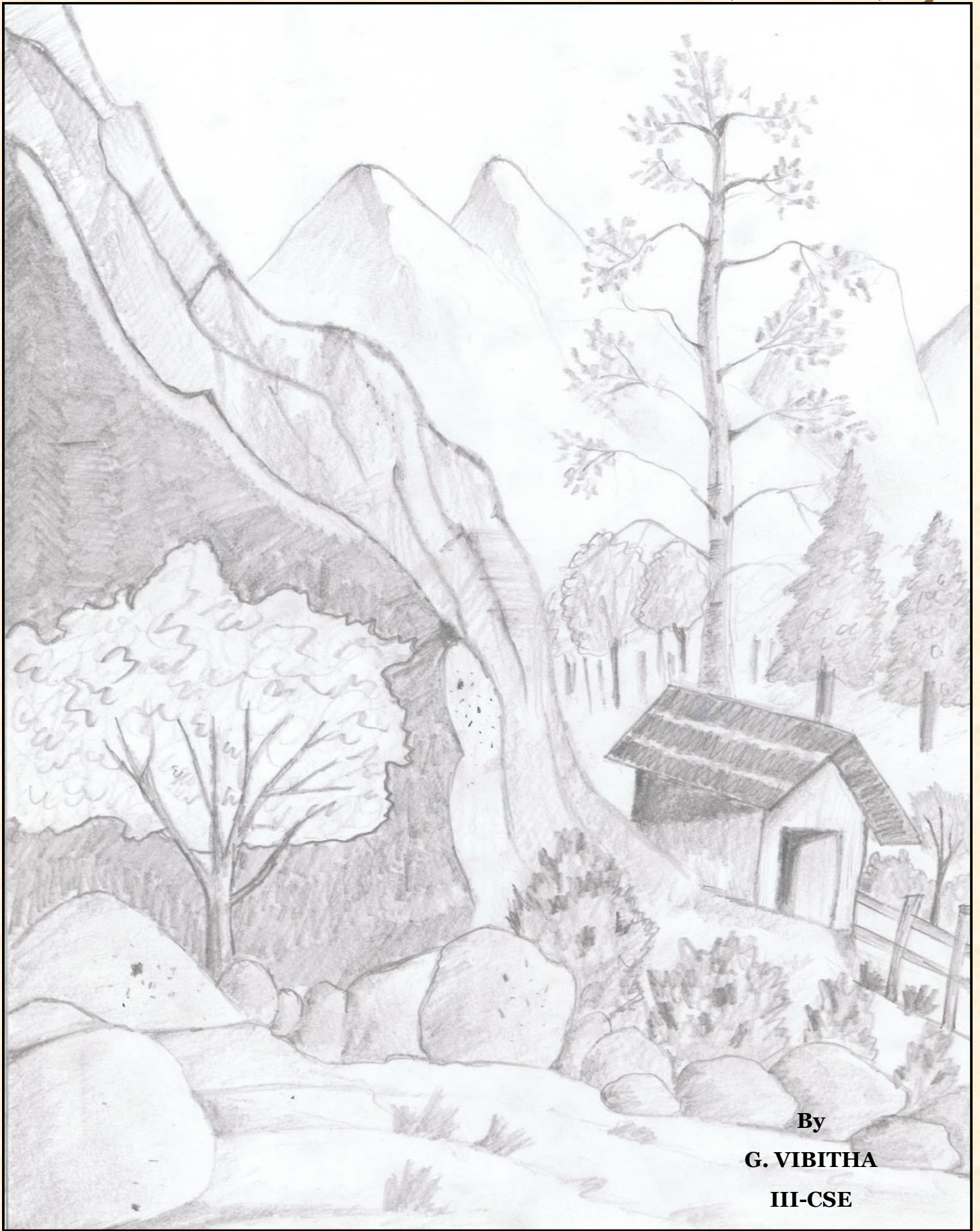
**Our environment, keeps us alive,
We must protect it, for society to thrive.
Creates oxygen, that we all consume,
What's more prettier, than a flower bloom?**

**We must combat, deforestation,
It is the duty of every single nation.
Let's begin, by fighting pollution,
Think together, to find a solution.**

**Climate change, we need to control,
What about that ozone hole?
We must remember, to respect and cherish,
If we don't, nature shall perish.**

By
P.DIVYA
IV-ECE

The harder you work, the luckier you get



By
G. VIBITHA
III-CSE

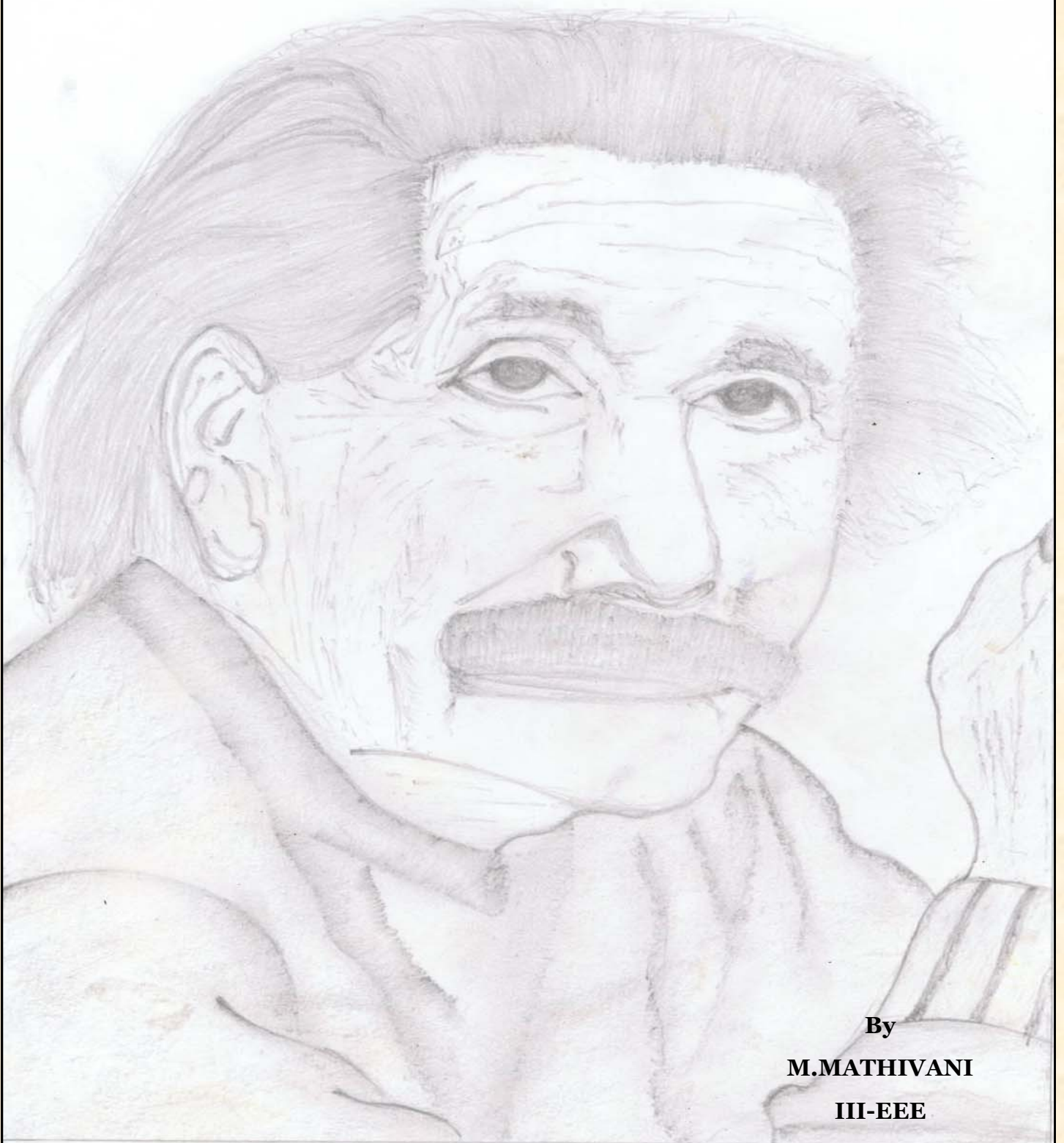
Stay focused and never give up



By
G. VIBITHA
III-CSE

There is no substitute for hard work

ALBERT EINSTEIN



By
M.MATHIVANI
III-EEE

The important thing is to never stop questioning

Benefits of being an IEEE member



Notifications about International/National conferences via mails

Job opportunities in leading companies

Get a chance to work as Technical volunteer at IEEE madras section

Participate in Online events like Website designing contest, Extreme C Coding, etc

IEEE KEC conducts 20+ Functions every academic year (Technical, Non-Technical, Guest lecture, & workshop)

Financial support to your project (2 lakh & above)

10% Fees concession for High studies in Top Universities

Entry Fee reduction for IEEE Member in Conference

Get Videos (IEEE.TV) & presentations related to IEEE projects

Project council, expose and optimise your project ideas

Online technical doubt clarification

Only IEEE intimates about conferences @ NASA, CALTECH, RUSSIAN FEDERAL SPACE AGENCY

More than 70 Journals for your Paperwork

Online Technical English program, Student development program

Be an active Voluteer and get a chance to organise Events

Internationally valid Membership card

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Individual Awards
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