# RONIX 2k18

## Annual Magazine

## Department of Electronics and Communication Engineering

**Rohini College of Engineering and Technology**

**Palkulam, Kanyakumari – 629 401.**

# RONIX 2K18

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## Messages

# From the Desk of the Chairman, RCET

"Learning gives creativity, creativity leads to thinking, thinking provides knowledge, knowledge makes you great" - Dr.A.P.J.Abdul Kalam.

These words by - Dr.A.P.J.Abdul Kalam perfectly describe our aim at Rohini College of Engineering and Technology. Beyond providing a sound education, we wish to provide our students a holistic learning experience for life. Our aim is to teach students to LEARN, not just STUDY. Hence, we strive to travel beyond the boundaries of mere books. We have realized that the future is abstract and unknown but the youth in our hands are real and can be Molded.

Engineers play the most vital and important role in nation building. They create new inventions using best engineered technologies to make human life more comfortable, secure and productive. In modern times, nations which have rich engineering and experienced technological domains are flourishing economically and are providing better lives to their people We have excellent potential to grow in diversified areas and excel in Engineering and technological fields. We need enormous number of engineers and managers to write next story of success.

We have identified the needs of modern engineering, technology for modern age students, with a vision and mission accompanying transparency, accountability and accessibility which keeps us abreast.

I can proudly say that Rohini College of Engineering and Technology is the most modern and sophisticated multidisciplinary institution, imparting quality education and providing a wide and varied arena for the staff and students to showcase their academic and extracurricular talents. With relentless efforts, the college aspires to orchestrate the students' potential for the enrichment and progress of society by equipping them with technical expertise and soft skills. Students are encouraged to build their character through well-disciplined training along with sports, physical and spiritual development activities. Students are also given ample opportunities to broaden their horizons academically. Teachers play a key role in the education and also in student's life. Our well qualified and experienced Teaching faculties guide the students to hone their talents to excel in this competitive world.

I am proud to say that once our students step in, they step out with self- confidence and knowledge to face all future endeavors with full conviction. Fly in the plane of Ambition, Land in the Airport of Success, The luck is yours the wish is mine. May your future always shine. Good Luck.

**Cordially,**
**Shri.K.NEELA MARTHANDAN**
**Chairman Rohini Groups.**

# Principal's Message

Dear All,

Service to Human being is Service to God. Education does not happen just within the four walls of a classroom, but without too-in the corridors, the playgrounds and every corner of the campus.

Now our special emphasis is on Outcome Based Education and Experiential Learning. The main focus of our college is to empower students with sound knowledge, wisdom, experience and training both at the academic level of Engineering and in the highly competitive global industrial market.

Another year draws to a close, and our students are ready with 'RONIX 2k18', Annual magazine for the Department of Electronics and Communication Engineering for the academic year 2017-'18.

I congratulate all the students who have contributed to this precious keepsake of the year that is passing by, and all the members of the editorial team on this well planned and executed project. Let me also express my appreciation towards the tireless staff who work unfailingly behind the scenes and who offer their time and expertise to make the students believe in themselves and to bring out the hero in each one of them.

All the best!

**Best Wishes,**

**Dr. R. RAJESH, M.E., Ph.D.**
**Principal**
**Rohini College of Engineering & Technology, Palkulam, Kanyakumari.**

# From the Department of ECE

Dear all,

I take the privilege to welcome you all to the Dept. of Electronics and Communication at RCET. It is a matter of immense pleasure and pride that Electronics Communication Engineering Department have shown consistent progress, in academic and co-curricular activities with the help of highly motivated and dedicated faculty. Overall development of the students is the main goal of ECE department.

Electronics and Communication Engineering (ECE) is a swiftly advancing field, with new ideas emerging every other second. With technology becoming all pervasive in everyday life, opportunities for electronic engineers are endless. The Department is wide open to innovative ideas, methodologies to establish itself as the most sought excellent learning center in this part of the state.

Our students are inspired to apply the classroom learning in the laboratories through experiments which helps them to become skilled engineers. I hope our students will prove to be an invaluable asset to the society & organization where they render their services.

Also I would like to add **"The road to success comes through Hard work and self-imposed discipline"**

**Best Wishes,**
**Dr.E.SREE DEVI, M.E., Ph.D.**
**HOD / Electronics and Communication Engineering,**
**Rohini College of Engineering & Technology Palkulam,**
**Kanyakumari.**

# EDITOR'S NOTE

**Dear readers,**

It gives us great pleasure to bring you the Ronix 2k18, the ECE department magazine of Rohini College of Engineering and Technology, Kanyakumari. This magazine is a platform to exhibit the literary skills and innovative ideas of teachers and students Ronix 2k18 presents the skills and innovative thinking of students and contributions of teachers. I would like to thank to the management and all those who have supported the RONIX 2k18 initiative and for having trust in the editorial board by giving us full freedom to choose the contents and design to make this effort a success. I hope who have sent their articles. We truly hope that the pages that follow will make an interesting read.

**Best Wishes,**
**Prof. Soban S, M.E.,**
**Associate Editor.**

# ABOUT COLLEGE

Rohini College of Engineering and Technology (RCET) is an ISO certified institute was founded by the great industrialist and philanthropist, Shri.K.Neela Marthandan. The main objective of our college is to advance the knowledge base of the engineering professions and to influence the future directions of engineering education and practice.

RCET is the best Engineering Colleges in Kanyakumari District believes not only in educating the students, but in also grooming characters, with moral and ethical values, thus building the nation. Since the beginning, the college has been providing world-class facilities & infrastructure in education and learning. The aim is to establish new trends, introduce innovative training methodologies, and thus guide students towards the road to success.

| *Vision* | *Mission* |
|---|---|
| To be an academic institute of continuous excellence towards education, research in rural regime, and provide service to nation in terms of nurturing potentially higher social, ethical and engineering companion graduands. | • To faster and promote technically competent graduands by imparting the state of art engineering education in rural regime.<br>• To enunciate research assisted scientific learning by dissemination of knowledge towards science, agriculture, industry and national security. |

# ABOUT Department

The primary objective of the department is to impart quality education and to deepen the knowledge and skills of the students in the basic concepts and theories in various areas of Electronics and Communication Engineering.

## *SCOPE*

Electronics is now part of our everyday life, from the mobile phones to televisions, computers and even the high-end advanced satellites that are helping us to lead a smooth life. Ever since the evolution of technology, Electronics and Communication has become an essential discipline which is required by all the industries. Hence, Electronics and Communication engineering is one of the most sought after branches by students. Electronics and Communication Engineering has also penetrated into other areas like healthcare, instrumentation, automation, remote sensing, signal processing etc.

So students pursuing electronics and communication engineering have a lot of scope in varied industries. Taking the educational scope and career choices into consideration, here are the popular areas of study in the field of Electronics and Communication.

- Internet of Things
- Robotics
- Mechatronics
- Embedded System
- Digital Image Processing

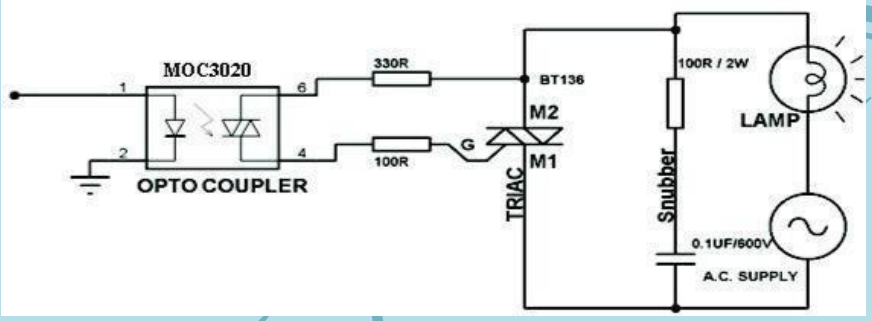
| *Vision* | *Mission* |
|---|---|
| To promote Ethical and Innovative Electronics and communication Engineers through excellence in teaching, training and research so as to contribute to the advancement of the rural society and mankind. | • To impart high quality technical education and exposure to recent trends in the industry, to ensure that the students are moulded into competent Electronics and communication engineers.<br>•To inculcate research capabilities and exemplary professional conduct to lead and to use technology in agriculture, industry and national security for the progress of our country. |

| | |
|---|---|
| *PEO-1* | **Lead a successful career by applying the scientific and engineering fundamentals to formulate and solve the real life problems.** |
| *PEO-2* | **Practice the ethics of their profession, consistent with a sense of social responsibility and aptitude for innovations as they work individually and in multi-disciplinary teams.** |
| *PEO-3* | **Be receptive to recent technologies so as to excel in industry and accomplish professional competence through lifelong learning such as advanced degrees and other professional activities.** |

# When Signal Matters

## MOC3020 Opto-Coupler:

Many electronic equipments these days are using opto-coupler in the circuit. An opto-coupler or opto-isolator allows two circuits to exchange signals yet remain electrically isolated. The standard opto-coupler circuit configuration utilizes an LED and a photo-transistor; usually it is an NPN transistor.




Opto-couplers are also fabricated in few modules like SCRs, photodiodes, TRIACs and other semiconductor switches as an incandescent lamp or other light source. This article briefs about an opto-coupler MOC3020.

## Working principle of MOC3020:

The MOC3020 is designed for interfacing electronic controls and power TRIAC to control resistive and inductive loads for $V_{ac}$ operations. The principle used in opto-coupler is, MOC's are promptly available in integrated circuit form and don't require very complex circuitry to make them work. Simply give a small pulse at the right time to the LED in the package. The light produced by the LED activates the light sensitive properties of the DIAC and the power is switched isolation between the low power and high power circuits in these optically connected devices is typically few thousand volts.

When power is on, at positive cycle the current flows through lamp, resistors, DIAC, and gate and reaches the supply and the lamp glows for that half cycle directly through the M2 and M1 terminal of the TRIAC. In negative half cycle the process repeats. Thus the lamp glows in both the cycles in a controlled manner depending upon the triggering pulses at the opto isolator. If this is applied to a motor instead of lamp, the power controls the speed of the motor.

SCIENCE

## Say Goodbye to Pills. Nano Robots Can Cure

Nano robots will be able to repair damaged or diseased tissues. The circulatory system is the natural path for these devices and the nano robots will pass through the blood stream to the area of defect. They attach themselves to specific cells, such as cancer cells and report the position and structure of these tissues. A creative methodology in the use of these devices to fight cancer involves using silicon nano machines with a thin coating of gold and light inthe near infrared spectrum.

Light in the 700-1000 nanometer range will pass through the tissue and reaches the defective cell. When this infrared light strikes the particular type of nano robot, the device gets hot due to the oscillation of the metal's electrons in response to the light. Using an MRI, the nano robot is specifically placed in the cancerous region, and then the light causes the devices to heat to 131 degrees Fahrenheit which destroys the cancerous cells but doesn't damage surrounding tissues.

This is the new technology, without any draw-backs. These nano robots can cure any disease without affecting any other cells or tissues. The future vision: Imagine going to the doctor to get treatment for a fever, instead of giving you a tablet the doctor implants a tiny robot into your bloodstream.

The robot detects the cause of your fever, travels to the appropriate system and provides a dose of medicine directly to the infected area. This is going to happen in a few years of time from now. Each person is going to have a nano robot in his body which is going to monitor human body system. So the time arrives to enjoy with the robot within our self.

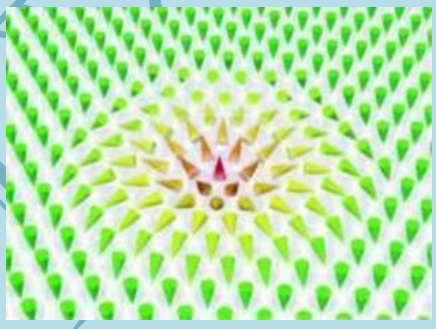
SCIENCE

# "Skyrmions" For Data Storage

Researchers in Germany have used skyrmion tiny magnetic vortices that can be imagined as two dimensional knots in which the magnetic moment rotates about 3600 degrees within a plane for the first time to store data. This technology could be used to create hard disk with higher densities and faster data transfer speeds.

## What Are Skyrmions?

Skyrmions that consist of a small number of atoms were first identified about 80 years ago and have been the object of intensive research in recent years. They are named after a British particle Physicist, Tony Skyrme. This meant the existence or non-existence of a skyrmion could be assigned the digital bit states "1" and "0", the basis for information technology.



## In a Gist:

In their experiment, the researchers used a two atomic layer thick film of palladium and iron on an iridium crystal. They observed the skyrmions, with a diameter of a few nanometers, with a scanning tunneling microscope.

The skyrmions were then manipulated with a small spin polarized current from the tip of the microscope. The research team has demonstrated the feasibility of skyrmions in data storage. This new technology can also be introduced in computers, tablets and smart phones.

SCIENCE

# No Defense Without Talon

TALON is a powerful, lightweight, versatile robot designed for missions ranging from reconnaissance to weapons delivery. Its large, quick release cargo bay accommodates a variety of sensor payloads. Built with all weather, day/night and amphibious capabilities standard TALON can operate under the most adverse conditions to overcome almost any terrain.

The suitcase portable robot is controlled through a two-way RF/F/O line from a portable or Wearable Operator Control Unit (OCU) that provides continuous data and video feed-back for precise vehicle positioning.

TALON payload and sensor include multiple cameras, a two stage arm, NBC sensors, radiation sensors, communication equipment. The TALON robot is used for bomb disposal. It is operated by radio frequency and equipped with four video cameras.

The TALON began helping with military operations in Bosnia in 2000. TALON robots had been used in about 20,000 missions in Iran and Iraq. Soldiers operate the swords by remote control from up to 1,000 meters away.

# Participations

| Sl. No. | Name of Student | Name of Organizer | Symposium/ Workshop/Conference | Level | Event |
|---|---|---|---|---|---|
| 1. | Nivaseney | Annai vailankanni College of Engineering | Hands on Workshop on Big data technologies, Hadoop, Hive and Elasticsearch | National | Workshop |
| 2. | Anushiya Devi P | Rajas Engineering College | REC TECH-FEST'17/ Symposium | National | Paper Presentation |
| 3. | Sreeja M | Rajas Engineering College | REC TECH-FEST'17/ Symposium | National | Paper Presentation |
| 4. | Jobin jose | Hindusthan Institute of Technology | Barnstromz'2k17/ Symposium | National | Paper Presentation / Technical quiz |
| 5. | Siva ganaga selvi G | Rajas Engineering College | REC TECH-FEST'17/ Symposium | National | Paper Presentaion |
| 6. | Vasanthi M | Rajas Engineering College | REC TECH-FEST'17/ Symposium | National | Paper Presentaion |
| 7. | Sridevi G | Tamilnadu Skill Development Corporation | Tamil Nadu Skill Development | State Level | Skill Development |
| 8. | Rahul John | Tamilnadu Skill Development Corporation | Tamil Nadu Skill Development | State Level | Skill Development |
| 9. | Jobin jose | Tamilnadu Skill Development Corporation | Tamil Nadu Skill Development | State Level | Skill Development |
| 10. | Magi Sahulin C | Tamilnadu Skill Development Corporation | Tamil Nadu Skill Development | State Level | Skill Development |
| 11. | Nisha S | Tamilnadu Skill Development Corporation | Tamil Nadu Skill Development | State Level | Skill Development |
| 12. | Uma S | Tamilnadu Skill Development Corporation | Tamil Nadu Skill Development | State Level | Skill Development |
| 13. | Priya Hassini B | Tamilnadu Skill Development Corporation | Tamil Nadu Skill Development | State Level | Skill Development |
| 14. | Bhagavathi S | Tamilnadu Skill Development Corporation | Tamil Nadu Skill Development | State Level | Skill Development |
| 15. | Vasanthi M | Scott Christian College | Quasquicentennial Exhibition 2017 | National | Exhibition |
| 16. | Sridevi G | Scott Christian College | Quasquicentennial Exhibition 2017 | National | Exhibition |
| 17. | Nisha S | Scott Christian College | Quasquicentennial Exhibition 2017 | National | Exhibition |
| 18. | Priya Hassini B | Scott Christian College | Quasquicentennial Exhibition 2017 | National | Exhibition |
| 19. | Bhagavathi S | Scott Christian College | Quasquicentennial Exhibition 2017 | National | Exhibition |
| 20. | Uma S | Scott Christian College | Quasquicentennial Exhibition 2017 | National | Exhibition |
| 21. | Magi Sahulin C | Scott Christian College | Quasquicentennial Exhibition 2017 | National | Exhibition |

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|---|---|---|---|---|---|
| 22. | Rahul John | Scott Christian College | Quasquicentennial Exhibition 2017 | National | Exhibition |
| 23. | Sajitha T | Scott Christian College | Quasquicentennial Exhibition 2017 | National | Exhibition |
| 24. | Santhiya B | Scott Christian College | Quasquicentennial Exhibition 2017 | National | Exhibition |
| 25. | Nanthini C | Scott Christian College | Quasquicentennial Exhibition 2017 | National | Exhibition |
| 26. | Rama Selitha R | Scott Christian College | Quasquicentennial Exhibition 2017 | National | Exhibition |
| 27. | Anitha E | Scott Christian College | Quasquicentennial Exhibition 2017 | National | Exhibition |
| 28. | Shiny Priya D | Scott Christian College | Quasquicentennial Exhibition 2017 | National | Exhibition |
| 29. | Anusuya Devi P | Scott Christian College | Quasquicentennial Exhibition 2017 | National | Exhibition |
| 30. | Archana V | Scott Christian College | Quasquicentennial Exhibition 2017 | National | Exhibition |
| 31. | Kingsly j | Scott Christian College | Quasquicentennial Exhibition 2017 | National | Exhibition |
| 32. | Jobin jose | Scott Christian College | Quasquicentennial Exhibition 2017 | National | Exhibition |
| 33. | Akshaya Reji S | Scott Christian College | Quasquicentennial Exhibition 2017 | National | Exhibition |
| 34. | Sountharya S | Scott Christian College | Quasquicentennial Exhibition 2017 | National | Exhibition |
| 35. | vishnu Priya C | Annai vailankanni College of Engineering | YANTHRIKA 2K18/ Symposium | National | Paper Presentation |
| 36. | Salini M | Annai vailankanni College of Engineering | YANTHRIKA 2K18/ Symposium | National | Paper Presentation |
| 37. | Anusha V | Annai vailankanni College of Engineering | ASPIRE 2K18/ Symposium | National | Paper Presentation |
| 38. | Kanaga Raj | Annai vailankanni College of Engineering | ASPIRE 2K18/ Symposium | National | Paper Presentation |
| 39. | Nishmitha K | Annai vailankanni College of Engineering | ASPIRE 2K18/ Symposium | National | Paper Presentation |
| 40. | Jinu Monika P | Annai vailankanni College of Engineering | ASPIRE 2K18/ Symposium | National | Paper Presentation |
| 41. | Bala Brintha | Annai vailankanni College of Engineering | ASPIRE 2K18/ Symposium | National | Paper Presentation |
| 42. | Ashisha H jiji Sam | Annai vailankanni College of Engineering | ASPIRE 2K18/ Symposium | National | Paper Presentation |
| 43. | Kalpana | Annai vailankanni College of Engineering | ASPIRE 2K18/ Symposium | National | Paper Presentation |
| 44. | Jenifa R | Annai vailankanni College of Engineering | ASPIRE 2K18/ Symposium | National | Paper Presentation |
| 45. | Ajith kumar | Annai vailankanni College of Engineering | ASPIRE 2K18/ Symposium | National | Paper Presentation |
| 46. | Jinu krishnan | Annai vailankanni College of Engineering | ASPIRE 2K18/ Symposium | National | Paper Presentation |
| 47. | Karolin Angel K | Annai vailankanni College of | ASPIRE 2K18/ Symposium | National | Paper Presentation |

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|---|---|---|---|---|---|
| | | Engineering | | | |
| 48. | Anusha A | Annai vailankanni College of Engineering | ASPIRE 2K18/ Symposium | National | Paper Presentation |
| 49. | Brintha Devi N | Annai vailankanni College of Engineering | ASPIRE 2K18/ Symposium | National | Paper Presentation |
| 50. | Roselin Southri | Annai vailankanni College of Engineering | ASPIRE 2K18/ Symposium | National | Paper Presentation |
| 51. | Divyashri P | Annai vailankanni College of Engineering | ASPIRE 2K18/ Symposium | National | Paper Presentation |
| 52. | Sridevi G | Annai vailankanni College of Engineering | ASPIRE 2K18/ Symposium | National | Paper Presentation |
| 53. | Priya Hassini B | Annai vailankanni College of Engineering | ASPIRE 2K18/ Symposium | National | Paper Presentation |
| 54. | Magi Sahulin C | Annai vailankanni College of Engineering | ASPIRE 2K18/ Symposium | National | Paper Presentation |
| 55. | Arockia Uma M | Annai vailankanni College of Engineering | ASPIRE 2K18/ Symposium | National | Paper Presentation |
| 56. | Jinu Monika P | Annai vailankanni College of Engineering | ASPIRE 2K18/ Symposium | National | Paper Presentation |
| 57. | Melben Raj | Noorul Islam Centre For Higher Education | TECHLIGA-18/ Symposium | National | Quiz |
| 58. | Divyashri | Lourdes Mount College of Engineering And Technology | INTRIGUE2K18/ Symposium | National | Paper Presentation |
| 59. | Ajith kumar | Lourdes Mount College of Engineering And Technology | INTRIGUE2K18/ Symposium | National | Paper Presentation |
| 60. | Jinu krishnan | Lourdes Mount College of Engineering And Technology | INTRIGUE2K18/ Symposium | National | Paper Presentation |
| 61. | Nanthini | Lourdes Mount College of Engineering And Technology | INTRIGUE2K18/ Symposium | National | Paper Presentation |
| 62. | Ashisha H jiji Sam | Lourdes Mount College of Engineering And Technology | INTRIGUE2K18/ Symposium | National | Paper Presentation |
| 63. | Ramalakshmi | Lourdes Mount College of Engineering And Technology | INTRIGUE2K18/ Symposium | National | Paper Presentation |
| 64. | Roselin Southri | Lourdes Mount College of Engineering And Technology | INTRIGUE2K18/ Symposium | National | Paper Presentation |
| 65. | Kumaravel P | Lourdes Mount College of Engineering And Technology | INTRIGUE2K18/ Symposium | National | Paper Presentation |
| 66. | Gnanajibinson M | Lourdes Mount College of | INTRIGUE2K18/ Symposium | National | Paper Presentation |

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| | | Engineering And Technology | | | |
| 67. | Janifa R | Lourdes Mount College of Engineering And Technology | INTRIGUE2K18/ Symposium | National | Paper Presentation |
| 68. | Asok T A | Lourdes Mount College of Engineering And Technology | INTRIGUE2K18/ Symposium | National | Paper Presentation |
| 69. | Lijin Joy | Lourdes Mount College of Engineering And Technology | INTRIGUE2K18/ Symposium | National | Paper Presentation |
| 70. | Sornalatha | Lourdes Mount College of Engineering And Technology | INTRIGUE2K18/ Symposium | National | Paper Presentation |
| 71. | Nishmitha K | Lourdes Mount College of Engineering And Technology | INTRIGUE2K18/ Symposium | National | Paper Presentation |
| 72. | vishnu Priya C | Lourdes Mount College of Engineering And Technology | INTRIGUE2K18/ Symposium | National | Paper Presentation |
| 73. | Jaya Kumar | Lourdes Mount College of Engineering And Technology | INTRIGUE2K18/ Symposium | National | Paper Presentation |
| 74. | Priya Hassini B | Lourdes Mount College of Engineering And Technology | INTRIGUE2K18/ Symposium | National | Paper Presentation |
| 75. | Pradeepan | Lourdes Mount College of Engineering And Technology | INTRIGUE2K18/ Symposium | National | Paper Presentation |
| 76. | Ramaselitha | Lourdes Mount College of Engineering And Technology | INTRIGUE2K18/ Symposium | National | Paper Presentation |
| 77. | Sridevi G | Lourdes Mount College of Engineering And Technology | INTRIGUE2K18/ Symposium | National | Paper Presentation |
| 78. | Melben Raj | Lourdes Mount College of Engineering And Technology | INTRIGUE2K18/ Symposium | National | Paper Presentation |
| 79. | Raja Priya Dharshini | Lourdes Mount College of Engineering And Technology | INTRIGUE2K18/ Symposium | National | Paper Presentation |
| 80. | Abisha Darshini R | Lourdes Mount College of Engineering And Technology | INTRIGUE2K18/ Symposium | National | Paper Presentation |
| 81. | Salini M | Lourdes Mount College of Engineering And Technology | INTRIGUE2K18/ Symposium | National | Paper Presentation |
| 82. | Rexlin | Lourdes Mount College of | INTRIGUE2K18/ Symposium | National | Paper Presentation |

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|---|---|---|---|---|---|
| | | Engineering And Technology | | | |
| 83. | Subashiri S | Lourdes Mount College of Engineering And Technology | INTRIGUE2K18/ Symposium | National | Paper Presentation |
| 84. | Devi Kumari | Lourdes Mount College of Engineering And Technology | INTRIGUE2K18/ Symposium | National | Paper Presentation |
| 85. | Karthick | Lourdes Mount College of Engineering And Technology | INTRIGUE2K18/ Symposium | National | Paper Presentation |
| 86. | Bala Brintha | Lourdes Mount College of Engineering And Technology | INTRIGUE2K18/ Symposium | National | Paper Presentation |
| 87. | Magi Sahulin C | Annai vailankanni College of Engineering | ASPIRE-2K18/ Symposium | National | Project Presentation |
| 88. | Nisha S | Annai vailankanni College of Engineering | ASPIRE-2K18/ Symposium | National | Project Presentation |
| 89. | Jobin jose | Noorul Islam Centre For Higher Education | ESPAU-2K18/ Workshop | National | Workshop |
| 90. | Abisha Darshini R | Noorul Islam Centre For Higher Education | TECHLIGA-18/ Symposium | National | Quiz |
| 91. | Bala Brintha | Noorul Islam Centre For Higher Education | TECHLIGA-18/ Symposium | National | Quiz |
| 92. | Bala Brintha | Noorul Islam Centre For Higher Education | TECHLIGA-18/ Symposium | National | Paper presentation |
| 93. | Abisha Darshini R | Noorul Islam Centre For Higher Education | TECHLIGA-18/ Symposium | National | Paper presentation |
| 94. | Raja Priya Dharshini | Noorul Islam Centre For Higher Education | TECHLIGA-18/ Symposium | National | Paper presentation |
| 95. | Salini M | Noorul Islam Centre For Higher Education | TECHLIGA-18/ Symposium | National | Paper presentation |
| 96. | Salini M | Noorul Islam Centre For Higher Education | ESPAU-2K18/ Symposium | National | Quiz |
| 97. | Divyashri | Noorul Islam Centre For Higher Education | TECHLIGA-18/ Symposium | National | Quiz |
| 98. | Divyashri | Noorul Islam Centre For Higher Education | TECHLIGA-18/ Symposium | National | Paper presentation |
| 99. | Magi Sahulin C | Noorul Islam Centre For Higher Education | TECHLIGA-18/ Symposium | National | Quiz |
| 100. | Magi Sahulin C | Noorul Islam Centre For Higher Education | TECHLIGA-18/ Symposium | National | Paper presentation |
| 101. | Janifa R | Noorul Islam Centre For Higher Education | INVICTA 2K18/ Symposium | National | Paper presentation |
| 102. | Selin Deena A R | Noorul Islam Centre For Higher Education | INVICTA 2K18/ Symposium | National | Paper presentation |
| 103. | Kalpana | Noorul Islam Centre For Higher Education | INVICTA 2K18/ Symposium | National | Paper presentation |
| 104. | Nismitha K | Noorul Islam Centre For Higher Education | INVICTA 2K18/ Symposium | National | Paper presentation |

# Achievements

| Sl. No . | Name of Student | Name of Organizer | Symposium/ Workshop/Conference | Level | Event | Prize |
|---|---|---|---|---|---|---|
| 1. | Sridevi G | Tamilnadu Skill Development Corporation | Tamil Nadu Skill Development | State Level | Skill Development | First |
| 2. | Magi Sahulin C | Tamilnadu Skill Development Corporation | Tamil Nadu Skill Development | State Level | Skill Development | First |
| 3. | Nisha S | Tamilnadu Skill Development Corporation | Tamil Nadu Skill Development | State Level | Skill Development | First |
| 4. | Uma S | Tamilnadu Skill Development Corporation | Tamil Nadu Skill Development | State Level | Skill Development | First |
| 5. | Priya Hassini B | Tamilnadu Skill Development Corporation | Tamil Nadu Skill Development | State Level | Skill Development | First |
| 6. | Bhagavathi S | Tmailnadu Skill Development Corporation | Tamil Nadu Skill Development | State Level | Skill Development | First |
| 7. | Ashisha H jiji Sam | Annai vailankanni College of Engineering | ASPIRE 2K18/ Symposium | National | Project Cometition | Second |
| 8. | Abisha Darshini R | Annai vailankanni College of Engineering | ASPIRE 2K18/ Symposium | National | Project Presentation | Second |
| 9. | Melben Raj | James College of Engineering and Technology | SYNERGIX 2K18/ Symposium | National | Photography | Second |
| 10. | Melben Raj | Noorul Islam Centre For Higher Education | TECHLIGA-18/ Symposium | National | Photography | First |
| 11. | Melben Raj | Lourdes Mount College of Engineering And Technology | INTRIGUE2K18/ Symposium | National | Photography | Second |
| 12. | Kanagaraj | Lourdes Mount College of Engineering And Technology | INTRIGUE2K18/ Symposium | National | Project Presentation | Second |
| 13. | Kalpana | Lourdes Mount College of Engineering And Technology | INTRIGUE2K18/ Symposium | National | Paper Presentation | Second |
| 14. | Jenifer | Lourdes Mount College of Engineering And | INTRIGUE2K18/ Symposium | National | Paper Presentation | Second |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | Technology | | | | |
| 15. | Kannan V | Lourdes Mount College of Engineering And Technology | INTRIGUE2K18/ Symposium | National | Project Presentation | Second |
| 16. | Magi Sahulin C | Lourdes Mount College of Engineering And Technology | INTRIGUE2K18/ Symposium | National | Paper Presentation | First |
| 17. | Nishmitha | Lourdes Mount College of Engineering And Technology | INTRIGUE2K18/ Symposium | National | Paper Presentation | Second |
| 18. | Vasanthi M | Scott Christian College | Quasquicentennial Exhibition 2017 | National | Exhibition | Second |
| 19. | Ajay S | Scott Christian College | Quasquicentennial Exhibition 2017 | National | Exhibition | Second |

FACTS

# INTERESTING FACTS ABOUT SATURN

- Many astronomers consider Saturn the most beautiful planet in the solar system be-cause of its stunning rings. In fact, Saturn's nickname is 2the jewel of the solar system.
- Saturn is the second-largest planet in our solar system after Jupiter, which is about 20% larger than Saturn. Earth is the fifth-largest planet in our solar system.
- Saturn is not the only planet with rings. Jupiter, Uranus, and Neptune also have rings, although they are much fainter and less spectacular than Saturn's.
- Saturn is the least dense planet in the solar system, and if there were a body of water large enough to hold Saturn, the planet would float. In contrast, Earth and Mercury would sink the fastest.
- Approximately 750 Earths could fit into Saturn
- Saturn is 74,898 miles (120,537 km.) wide, nearly 10 times wider than Earth
- Nearly 1,600 Saturn could fit inside the Sun. A year on Earth is 365.256 days. A year on Saturn is 10,759.22 days.

## A TO R ADVICE TO MY DEAREST FRIENDS

| | | |
|---|---|---|
| Amplitude | – | Always be honest |
| Bias | – | Be there when they need you |
| Cathode | – | Cheer them and give them encouragement |
| Diode | – | Don't look for their mistakes, go ahead |
| Electronics | – | Encourage their dreams, what would be without them? |
| Field | – | Forgive them though they are wrong sometimes |
| Gate | – | Get together to make any discussion |
| Harmonic | – | Have faith in them |
| Inductance | – | Ignore all their mistakes |
| JFET | – | Join together and give support |
| K - map | – | Keep in touch till they live |
| Latch | – | Love them always |
| Microprocessor | – | Make them feel special |
| Nyquist | – | Never forget them |
| Op - amp | – | Open free to offer help |
| Potentiometer | – | Praise them honestly and openly |
| Q - point | – | Quietly discharge when they are angry |
| Resistor | – | Really listen to their words; make your ears free to them |

## Things to Do for Self Improvement

- To improve yourself you have to be courageous.
- Self-improvement is when you change yourself to the better. Nobody is perfect. Every individual has to change from time to time accordingly in order to improve themselves from their origin.
- We can improve our skills such as, leadership skills, goals, organizational skills, communication skills and all our values within ourselves to make us a better person. It is bogus that everybody is successful. But in order to be successful we need to improve ourselves or else we will be stuck inside the same zone.

## THOUGHTS

Self – improvement deals with inner change, throwing away our negative habits and absorbing all the positive ones.

- Self- improvement is a generic label and can be applied in various phases of life. This is also otherwise referred to as personal development.

## A Sibling.....

"Thicker than water" is the term used to describe the relationship of a sibling. A sibling relationship is potentially one of life's most significant connections. The relationship between two siblings, which begins with the birth of the younger

and can continue until a sibling dies, is often the longest lasting relationship that a person can experience. I am always baffled when I hear my friends call their sib-lings as brats, pests and suck-ups. In my opinion, having a sibling for your own is the best way your life can ever be designed.

As far as my life is concerned, it has been designed for me to be a solo artist, so in many cases I conflict to their comments. Strong bonds between siblings can develop remarkably early in life.


The emotional importance of the sibling relationship can motivate even very small children to understand their siblings extremely well. Bound by blood, but not always by love, a sibling can be a friend or rival, defender or detractor sometimes simultaneously.

A sibling is the only relationship that accompanies, protects, secures, offends, defends, prosecutes for, and of-course loves you the way you are. Yes! For all the relation-ships you possess, parents, friends, relations, partners, a sibling is the only person who accepts and protects for who you really are!

Siblings who grow up together accumulate a store of shared memories and experiences that can shape each sib-ling individually and establish a foundation for their life-long relationships with each other. My innermost concerns to people who are by whatever reason, a single child in the family. Not being offensive but I'm sure we missed and is still missing the warm company of a sibling. They can most of the times be annoying but when they find you in some kind of grieve they will be the first to help you get out of it. In many ways a sibling assures to secure you from all your misfortunes, your failures and your worries.

POEM

## FRIENDSHIP

BIRTH IS THE START OF LIFE
BEAUTY IS THE ART OF LIFE
EDUCATION IS THE PART OF LIFE - BUT
FRIENDSHIP IS THE HEART OF LIFE

*By*
BHAGAVATHI
II Year ECE 'A'

## My Love (Mathematics)

MY LOVE IS INFINITY LOVE HAS ALL THE PLUS POINTS
AND SO MY LOVE IS MODULUS IF THE WORLD IS A CIRCLE
HE IS A POINT ON THE CIRCUMFERENCE
I AM A TANGENT
THE TANGENT WILL TOUCH THE CIRCLE
AT THAT POINT IF I AM A STRSIGHT LINE.
HE IS ALSO THE SAME. IF WE ARE NOT PERPENDICULAR
WE ALWAYS COINCIDE
OUR LIFE IS A DIFFICULT THEOREM
ONLY GOD CAN PROVE IT!!

*By,*
D. Shiny Priya
II Year ECE 'B'

## "IMPOSSIBLE " SAYIAM " POSSIBLE

SOME OF THE BEST MUSIC WAS COMPOSED BY BEETHOVEN
BUT HE WAS DEAF SOME OF THE BEST POETRY ABOUT GOD WAS WRITTEN BY
MILTON BUT HE WAS BLIND ONE OF THE GREATEST LEADERS WAS FRANKLIN
ROOSEVERLT BUT HE SERVED FROM A WHEEL CHAIR TURN SCARS STARS
POSSIBLE IS INSIDE IMPOSSIBLE.

## QUOTES

Be Careful With Your Words. Once They Are Said, They Can Be Only Forgiven, Not Forgotten.

***By,***

**C. Magi Sahulin**

**II Year ECE 'A'**

## SUCCESS IS IN YOUR HAND

Take up an idea Make that idea in your life Think of it, dream of it Like that idea Let the brain, muscles, nerves Every part of your body be Full of that idea, and Just leave every other idea alone Concentrate your mind on that Then success is your's.

## COLLEGE

Best Gift LIFE

Best Time HAPPY

Best Feeling LOVE

Best Relation MOTHER

Best Friend all for you ROHINI

***By,***

**S. BHAGAVATHI**

**II Year ECE 'A'**

## LIFE IS MATHEMATICS

Life is mathematics Add your neighbours. Substract your enemies Divide your sorrows.
Multiply your joys Increase your friends,
Decrease your unwanted people Chase your life in happy mood
And die without any bad habits……

*by,*

**ROSELIN SOUTHRI .P**
**II Year ECE 'B'**

## *FRIENDS*

**Birth is from MOTHER; Advice is from FATHER; Knowledge is from TEACHER; Life is from PARTNER;**

**But……**

**JOY, FUN, JOKES & lifelong Smiles only from, FRIENDS**

*by,*

**G.BABITHA**
**IV Year ECE**

# College Campus

1st year New entry

Respecting professors Waiting in the class Students Introductions Innocent faces Silent tables Getting arrears

2nd year Forming gang

Last bench rockers Window Sightings Giggling in the middle Outstanding students

Donating fine for ID cards Group study

Clearing arrears

3rd year

Often absent in the class Frequent presence in canteen Mocking with friends Getting suspense for vacation Outing with friends Sleeping in exam hall Speaking in class hours Show off among juniors Ever rocking Pre-final years

Waiting for final year Thanks we the terrific Third Years

*by,*

**MURUGESH SIVA**

**III Year ECE**

# Examination

Nearing is oUR examination MUST STUDY with concentration English with its proNUNCiation Signals with its classification Maths with its transformation

Electronic circUITS with its derivation Digital electronics with its simplification OOP with its virTUAl fUNCtion

Thereby increases oUR stress and tension And there is no time for relaxation.....

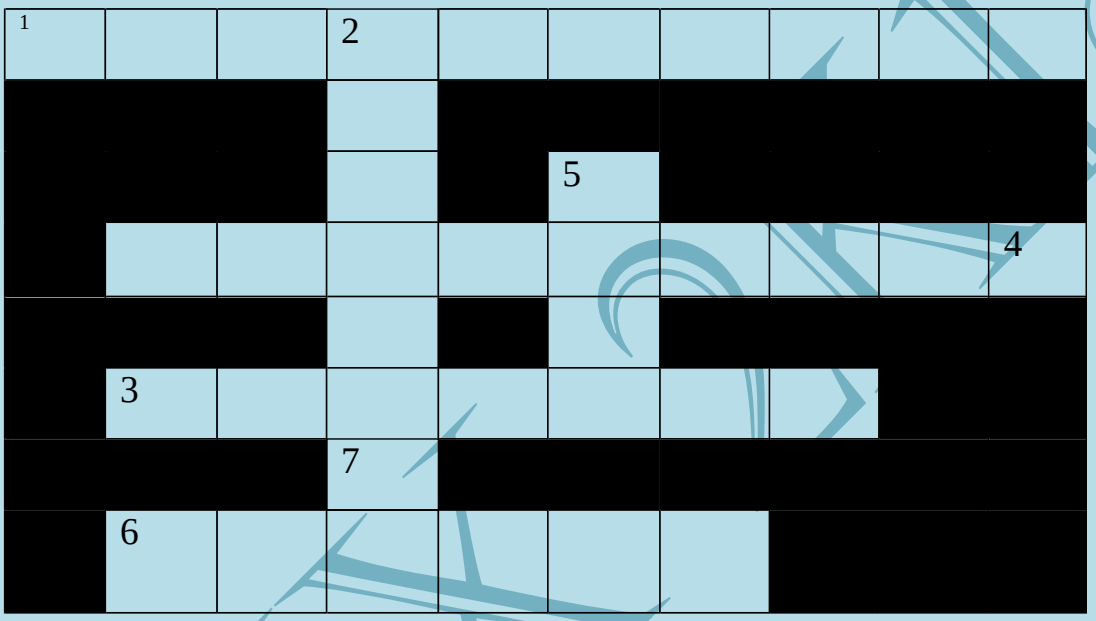
*by,*

**BELSIYA**

**IV Year ECE**

# PUZZLE

## CROSS WORD PUZZLE




Left to right

1. Which resistive component is temperature sensitive

3.Which voltage source converts chemical to electrical energy

6.Which material may also be considered as semiconductor element

Right to left

4. An electronic device is used to boost the power or voltage of an applied signal.

Top to bottom

2. An electronic component that opposes an electric current. 5.Resitors are identified as to wattage by

7.Boolean expression Y=A+B is logically equivalent to what signal gate.

ANSWER
1.Thermistor
2.Resistor
3.Battery
4.Amplifier
5.Size
6.Carbon
7.OR

*by,*

**AROKIA UMA.M**

**II Year ECE 'A'**

# Interesting Calculation

**45 - 45 = 45; is it possible??**

**9+8+7+6+5+4+3+2+1 = 45 → I**

**1+2+3+4+5+6+7+8+9 = 45 → II**

**I - II**

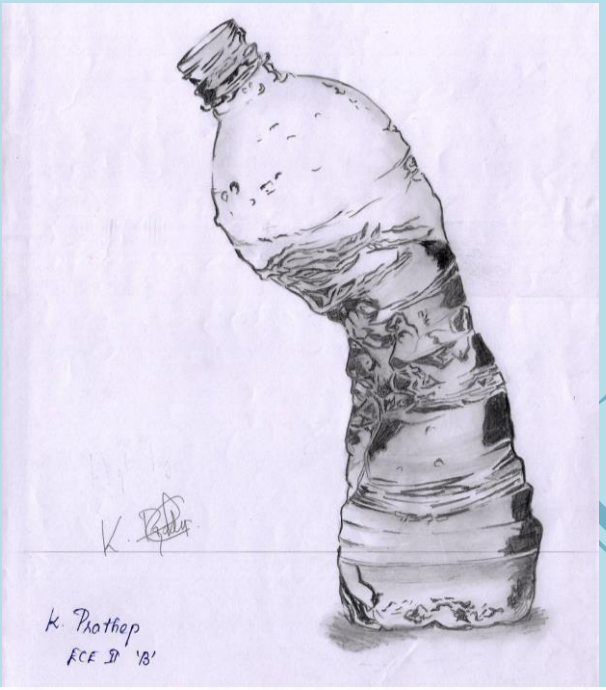
**9+8+7+6+5+4+3 +2+1 = 45**
**-1 -2 -3 -4 -5 -6 -7 -8 -9 = -45**
**———————————————**

**8+6+4+1+9+7+5+3+2 = 45 - 45**

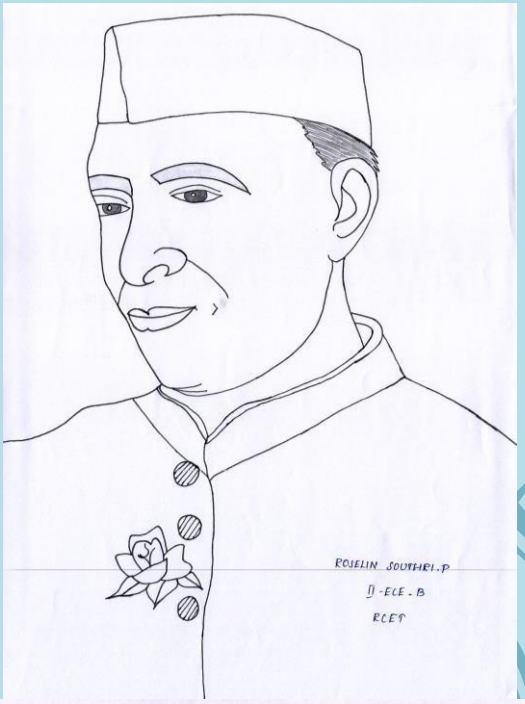
**45 = 45 - 45**

**so, 45- 45 = 45 is possible.**

Visual Treat


K. Prathap
ECE II 'B'


R. REGU NANTHINI
Final Yr ECE


ROJELIN SOUTHRI.P
II-ECE-B
RCET


R. Shinye
ECE-B, II Year


Sreeja . N. G.
B- ECE - II


Vasanthi.M
II - ECE 'B
RCET

# Gallary


**National Conference on Advanced Communication and Electronic Systems**


**RONIX 2k18 Symposium**

**NPCIL Visit**

**Workshop at IIT**


**Pongal Celebration**

**IEEE Awareness Program**

**Spectra ‘17**