



# BETHLAHEM

INSTITUTE OF ENGINEERING, KARUNGAL - 629157

APPROVED BY AICTE, NEW DELHI & AFFILIATED TO ANNA UNIVERSITY, CHENNAI

# RESONANCES 2020



# Our Campus



To transform the Institution into a world renowned centre of learning with global competency with regard to educational research and development, and employability, and continually strive to uplift the under privileged masses of this region.



To provide students with quality education that kindles creativity, encourages innovation and inculcates ethical practices thereby enabling them to compete in the Global Technical arena successfully. To help them gain an edge over others in the employment market and to make a difference in their career.



*R*

ESONANCE  
2020



**COUNSELLING CODE  
4992**

## **COURSES OFFERED**

**B.E**

AUTOMOBILE ENGINEERING  
CIVIL ENGINEERING  
COMPUTER SCIENCE AND ENGINEERING  
ELECTRICAL AND ELECTRONICS ENGINEERING  
ELECTRONICS AND COMMUNICATION ENGINEERING  
MECHANICAL ENGINEERING

INFORMATION TECHNOLOGY

**B.Tech**

**M.E**

APPLIED ELECTRONICS  
COMMUNICATION SYSTEMS  
COMPUTER SCIENCE AND ENGINEERING  
MANUFACTURING ENGINEERING  
POWER ELECTRONICS AND DRIVES  
STRUCTURAL ENGINEERING

**THE GATEWAY TO  
PROFESSIONAL EXCELLENCE...**





ABOUT MAGAZINE

# RESONANCE 2020

*"Coming together is a beginning  
Working together is a success  
Staying together is an achievement"*

“RESONANCE 2020” is the exposure of creative articles exposed by the hidden talents of the young and vibrant budding technocrats with the continuous encouragement and motivation of management and faculty members in various forums to create world class leaders and entrepreneurs who are empowered to serve the society.

The entire year witnessed an array of curricular, co-curricular and extra-curricular activities through which every student unearths his/her hidden self. This magazine is the mirror of the way that everyone in the Institution walked in this year and stands for the unique resonance that continues to echo within the premises of the Institute. It blends together the impressions and expressions, and has promoted the inborn talents, creative skills and achievements of students. The magazine “RESONANCE 2020” brings back memories of the year gone by and gives a deep sense of pride and accomplishment.

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# MESSAGE FROM CHAIRMAN



“Arise, shine, for your light has come,  
And the glory of the LORD rises upon you.”

Isaiah 60:1

First and foremost, I wish to thank the God Almighty, for showering His most abundant grace and blessings on us throughout the efforts taken in bringing out various activities for the betterment of the society and providing us the strength to accomplish everything successfully.

“Creativity is seeing what everyone else has seen, and thinking what no one else has thought”

Its heartening to witness Bethlahem Institute of Engineering has come out with a literary and creative document of the innovations of our staff and students in the form of a wonderful magazine “RESONANCE 2020”. It unleashes an eclectic gamut and a panoramic view of the academic, cultural, sports and other achievements of our Institution.

No doubt, this endeavor harnesses a colourful recapitulation of the creative energies of the scholastic community and distils the essence of their incredible imagination in the most luminous way possible.

My message to the students is that, you should mould yourselves to be better human beings, while foraying in the competitive life, realizing your dreams. I would like to add that, every great dream begins with a dreamer, always remember, you have within you the strength, the patience and the passion to attain the vision you dreamt of: “To achieve something you have never achieved before, you must do something you have never done before.”

I also take this opportunity to congratulate the Editor-in-Chief of this magazine and his entire team for their laudable efforts put in, to bring out this wonderful Edition.

GERALD SELVARAJA





## MESSAGE FROM DIRECTOR

Education brings wisdom and knowledge

Education trains the mind to think

Education imparts hope and peace

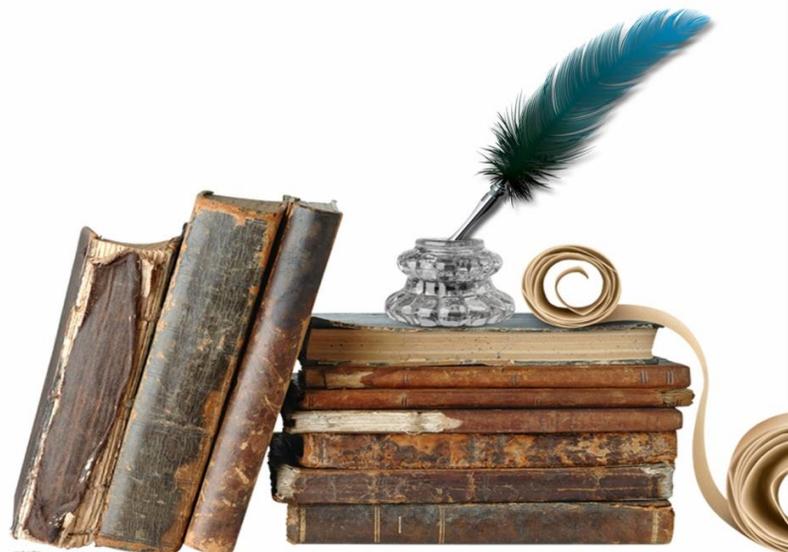
Education brings moral values

Moral discipline is born in Bethlahem. Morality and discipline are symbols of Bethlahem Institute of Engineering. This reputed academic center for technical education was founded by Shri.Gerald Selvaraja with a great vision of giving quality education to the young generation especially in and around Karungal, a naturally blessed village that is now known after Bethlahem Group of Institutions.

I congratulate and acknowledge my gratitude to the Founder cum Chairman of the Institute for his wonderful effort and generous accomplishments. I appreciate all the employees who have contributed their honest labor for the name and fame of the Institute so far. I appreciate the Director (Academics), Principal, HoDs, teaching and non-teaching staff for their hard work in elevating the image of this Institute. I congratulate all the parents for choosing Bethlahem as their wards' academic destination, all pass-out engineers who have been well placed in reputed firms and the current batch of budding technocrats.

I record my sincere appreciation to the Magazine committee for their persistent determination in releasing the debut Magazine of the Institute "RESONANCE 2020".

Er.T.ISAN



# MESSAGE FROM DIRECTOR (ACADEMICS) / EDITOR-IN-CHIEF



“Together we can, we will”

“Technology is evolving at a mind boggling rate and mere class room teaching may not be able to pace it”

Nurturing creativity and inspiring innovation are the two key elements of a successful education system and a college magazine is a fine blend of both. We need to provide ample opportunities in engineering education for our students.

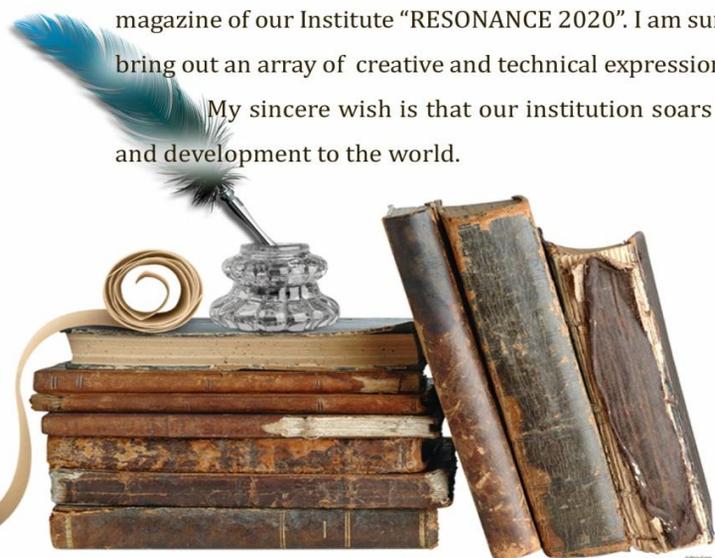
The main objective of publishing the magazine is to motivate the students to disseminate the useful and innovative thoughts. This is a very welcome move and it would give rise to new studies and enhancement of knowledge. I am sure that this venture will go a long way in shaping the young minds and sharpening their creative talents and an opportunity has been provided to harness the genuine talent amongst the students.

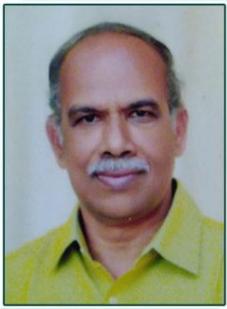
We focus on our students by providing them with a world-class outcome based education and hands-on experience through research, training and student forum activities etc. The Institution is a melting pot of different cultures and hence they experience the unity in diversity in the college environment and so I take pride to say that they enjoy their time here and have a great learning experience. We work, learn and grow together and take the Institution to the highest peak in the academic field and maintain the highest standards with diverse cultural heritage.

I am honored along with the Editorial Committee for bringing out the first magazine of our Institute “RESONANCE 2020”. I am sure that this creative endeavor will bring out an array of creative and technical expression with distinct individual flavors.

My sincere wish is that our institution soars high in the sky and brings glory and development to the world.

Dr.R.I.RAJIDAP NESHTAR





## MESSAGE FROM PRINCIPAL

The prime goal of Bethlahem Institute of Engineering is to change the world through education, the fountain of future. It may sound idealistic, but this is precisely our long term goal. I am sure we all have had our share of past mistakes and slip-ups, but remember that an error doesn't become a mistake until one refuses to correct it and now it is the time to start.

The first step toward making any change is by first realizing that it starts with YOU. Your character is the key element to your future – what type of person you are, how you treat others, and your attitude about life in general. It is what that motivates the work of everyone at the Bethlahem Institute of Engineering and fuels the technocrats to excel.

It gives me immense pleasure to know that “RESONANCE 2020”, is ready for publication. The magazine contributes an insight into the range and scope of the imagination and creativity of our students and faculty members.

I congratulate the staff and students who used various mediums to present their ideas. I acknowledge the hard work and dedication they have invested in realizing this goal, and wish my dear students a great success in all their future endeavors.

Dr.N.SELVARAJ



# MESSAGE FROM ASSOCIATE EDITOR



“A thing of beauty is a joy forever”- John Keats

It is really a joy to bring out a beautiful artistic creation in the form of a Magazine entitled “RESONANCE 2020”. The articles in this volume mirror the creative talents of our students.

The pleasure and pain borne by our staff and students for this publication is appreciable and is a laudable achievement indeed. This excellent creation of the students is sweet to the heart and delicious to the mind. The management has been very active in organizing a lot of meaningful programs, promoting a healthy academic ethos on the campus.

I thank our bounteous and gracious Lord Whose grace has been with us throughout the progress of this innovative creation. I also extend my extreme gratitude to the generous Management, Directors, Principal, beloved Staff and Students for their matchless efforts in bringing out this Magazine.

This is yet another pearl on the crown of Bethlahem Institute of Engineering which promotes human values like Love, Peace and Harmony.

Prof.M.SARAVANAN





## MESSAGE FROM ASSOCIATE EDITOR

“The price of success is hard work, dedication to the job at hand, and the determination that whether we win or lose, we have applied the best of ourselves to the task at hand”

With the boundless grace of the Lord Almighty and the wonderful platform provided by the management a grand endeavor has been turned to reality. The annual college magazine “RESONANCE 2020” endeavors to reflect the matchless spirits, dreams, untiring efforts and the value of our Institution.

Students are the most passionate budding creative expressionists who just need a platform to exhibit their ideas and emotions. This magazine is a milestone that marks our growth which showcases all those expressions of the students to the readers and recognizes all the achievers in the academic and extra-curricular activities. It unfolds our imaginations, and gives life to our thoughts and aspirations.

The bedrock of success in bringing out this magazine in an innovative way lies in the team effort of Bethlahem family. I extend my deep gratitude to our Chairman, Director, Director (Academics) and Principal for their constant overwhelming support and encouragement. I express my heartfelt gratitude to all the staff and students who have contributed their source of experience to make this endeavor a success. I appreciate the painstaking preparation of the entire editorial team led by the meticulous planning of Editor-in-Chief.

I wish all the readers a memorable reading experience.

Dr.S.A.PRAYLIN SELVA BLESSY



# EDITORIAL BOARD

## EDITOR-IN-CHIEF



Dr. R. I. RAJIDAP NESHTAR  
DIRECTOR (ACADEMICS)

## ASSOCIATE EDITORS



PROF. M. SARAVANAN  
HoD/S&H



Dr. S. A. PRAYLIN SELVA BLESSY  
Asso. Prof/ECE

## EDITORIAL TEAM (STAFF)



PROF. M. ROGER LIBIN  
AP/AUTOMOBILE



PROF. S. SHIBU JAIN  
AP/CIVIL



PROF. G. MARLY  
AP/CSE



PROF. J. SOPHIA JONE  
AP/ECE



PROF. A. P. HERLIN ROSE  
AP/EEE



PROF. R. P. SHYNI VINSE  
AP/IT



PROF. T. YABESH  
AP/MECH



PROF. R. DIANA  
AP/S&H

## EDITORIAL TEAM (STUDENTS)



M. ALDAS  
IV AUTOMOBILE



A. ALBERT RAJ  
III CSE



D. LANI MISBA  
III CIVIL



R. NEWJIN  
II ECE



M. SHINY  
IV EEE



J. ABINA JILNA  
IV IT



R. AJIN MON  
III MECHANICAL

## DESIGN EDITORS



PROF. L. ALEESHA LIVINGSTON  
AP/ECE



MR. S. PRAKASH  
EXECUTIVE DESIGNER



# BETHLAHEM

## INSTITUTE OF ENGINEERING

Bethlahem Institute of Engineering was established in the year 2008 by the Nesamony Memorial Trust. Shri.Gerald Selvaraja is the founder cum Managing Trustee of this Institution. The other five being: Bethlahem Matric and Higher Secondary School, Bethlahem College of Education which was accredited with 'A' Grade by NAAC, Bethlahem College of Arts and Science, Bethlahem Hillside International School and Bethlahem New CBSE School.

Bethlahem Institute of Engineering is an ISO 9001:2015 certified Institution affiliated to Anna University, Chennai and approved by AICTE, New Delhi. It is located at Karungal (near Marthandam) in Kanyakumari District, on the adjoining Karungal-Colachel road and 45 km from Trivandrum and 25 km from Nagercoil. This Institution is housed in a sprawling campus spread over 15 acres of picturesque landscape.

The Institution intends to provide focused technical education to empower budding engineers with technical and entrepreneurial skills so as to mould them to become globally competitive. The college is well known for its technical excellence, modern facilities and eco-friendly environment which is conducive to the all-round development of the students. The campus provides an ideal ambience for young minds to explore new ideas, stimulate creativity and independent thinking. It's adherence to high academic standards, strict internal evaluation, state-of-the-art infrastructure, technically qualified faculty and the exciting opportunities offered, make it a favoured destination for aspiring technocrats.

The Institution was started with 4 UG courses each headed by experienced faculty. Under the able guidance and adept administration, the college has developed excellent facilities and resources such as spacious classrooms, seminar halls, excellent sporting facilities and so on. Currently the college, offers 7 undergraduate (B.E. & B.Tech.) and 6 postgraduate (M.E.) courses of study.

The Institution is also known for the English Language Lab for developing communication skills and improving British/ American accent, well stocked library with Internet, DELNET centre which provides online access to various journals, articles and periodicals in Science and Technology,

24x7 high speed internet and Wi-fi inside the campus, cultural and technical festivals to ensure overall development of students, gymnasium with extensive facilities for physical exercise, separate hostel facility for men and women and much more. The college has a well-furnished and hygienic canteen which provides timely nutritious food to the students, staff and visitors. A transport department functions in the college with a fleet of buses to provide transport facility to students and faculty, in and around Kanyakumari District and Trivandrum.

To enhance the practical knowledge, students undergo internship during the vacation in between the semesters. Each department periodically organizes Seminars, Symposia, Conferences and Workshops to expose the students to vast changes and advancement in Science and Technology. The Institution is a member of Professional Bodies through which the students and faculty members gain knowledge sharing.

The mission of this Institution is to provide value based technical education through intensive coaching coupled with academic partnership with premier Institutions like IIT and in Europe and USA through which the students would be able to upgrade their skills and competence to their fullest potential.

Bethlahem Institute of Engineering has a good track record for placement right from the beginning and has been able to keep the momentum in spite of the adverse employment climate. The Career Guidance and Placement Cell (CGPC) of the Institution provides world class training and employment opportunities in leading organizations.

The Research and Development Cell aims to nurture research in the Institution by encouraging the students and faculty to undertake the research in newly emerging frontier areas of Engineering and Technology including multidisciplinary fields. Entrepreneurship Development Program helps in developing the entrepreneurial abilities of students to run business successfully.

Bethlahem Institute of Engineering has produced industrialists, leaders, engineers and managers who collectively have a wealth of knowledge and experience. The Alumni Association brings all these outstanding people together on a single platform. This temple of learning provides ample opportunity to the technocrats to exhibit their latent talents. Students have proved their skills in different ways and brought laurels to the Institute.



# ANNUAL REPORT 2019-2020

I am delighted to present the Annual Report of Bethlahem Institute of Engineering for the academic year 2019-2020. The Institution was established in 2008 by the Nesamony Memorial Trust, with the noble objective of imparting technical education to the aspiring students of K.K. District and the southern parts of Kerala as a favoured destination among the other reputed institutions in South India.

The college has seven UG programs and six PG programs approved by AICTE and is affiliated to Anna University, Chennai.

- B.E - Automobile Engineering
- B.E - Civil Engineering
- B.E - Computer Science and Engineering
- B.E - Electrical and Electronics Engineering
- B.E - Electronics and Communication Engineering
- B.E - Mechanical Engineering
- B.Tech - Information Technology
- M.E - Applied Electronics
- M.E - Communication Systems
- M.E - Computer Science and Engineering
- M.E - Manufacturing Engineering
- M.E - Power Electronics and Drives
- M.E - Structural Engineering

Under the direct guidance and motivation of the Chairman **Shri.Gerald Selvaraja**, Director **Er.T.Isan** and Director (Academics) **Dr.R.I.Rajidap Neshtar** the last academic year witnessed remarkable achievements of the teachers and students of Bethlahem both in curricular, co-curricular and extra-curricular activities.

## STUDENT ENROLLMENT

The Academic activities of the II, III and IV years began on 24th June, 2019. The Freshers orientation program was conducted on 7th August, 2019. The PG classes began on 18<sup>th</sup> September, 2019. I wish to place on record the sincere and dedicated services rendered by the teaching and non-teaching staff to uphold the high standards of education imparted in our Institution.

## UNIVERSITY RESULTS

Our students excelled in the Anna University Examinations with four University Ranks.

Name	Department	Position	CGPA
D.V.Sherly	ME - Applied Electronics	4	9.01
J.D.Sreeja	ME - Power Electronics and Drives	8	8.79
C.S.Ancy	ME - Applied Electronics	10	8.76
B.Babitha	ME - Applied Electronics	12	8.73

Congratulations and appreciations to all the Rank holders.

## SPONSORED NATIONAL LEVEL SEMINARS

The Science and Humanities Department in collaboration with the Tamil Nadu State Council for Science and Technology proudly organized a National Level Seminar “Spreading of Environmental Issues: Causes and Consequences of Climatic Changes” on 20th September, 2019. Dr.C.Justin Dhanaraj, HoD of Chemistry, University College of Engineering, Nagercoil served as the Chief Guest.

A National Level Seminar on “Internet of Things (IoT) in Electrical Power Industry” sponsored by Tamilnadu State Council for Science and Technology, Chennai was conducted on 7th and 8th of November, 2019. The Guest speakers Er.S.Emmel Jeba Singh, Assistant Executive Engineer, TANGEDCO and Er.P.Rejish Jose, Assistant Executive Engineer, TANGEDCO explained the importance of IoT in Electrical industries and its applications in various fields.

## ENTREPRENEURSHIP DEVELOPMENT TRAINING PROGRAMME

A three day Entrepreneurship Development Training Program on “Entrepreneurship Development through Low Cost Home Solar System-Assembling, Testing, Implementing and Maintenance” sponsored by Tamilnadu State Council of Science and Technology, Chennai was organized by the Department of Electrical and Electronics Engineering(EEE) from 21st to 23rd February, 2019 with Mr.V.Vijayamoorthy, Managing Director, Expertz Engineerings, Tirunelveli as the Resource Person.

The department also conducted an Entrepreneurship Awareness Camp in collaboration with Entrepreneurship Development Institute of India, Ahmedabad from 16th to 21st of September, 2019 to promote Entrepreneurship awareness among the students. The Resource Persons Mr.A.S.Harish, Managing Director, Sarangam Greens Pvt Ltd, Thiruvananthapuram and Mr.K.Hari Krishnan, Formerly Assistant General Manager (HR) HUDCO engaged the sessions effectively.

## MOTIVATIONAL PROGRAM

Indian Society for Technical Education (ISTE) of Bethlahem Institute of Engineering proudly organized a Motivational Program on 27th August, 2019. In this program Chief Guest Shri.Kumari Athan (Tamil Writer cum Poet), who is working as Mathematics Teacher in St.Mary’s Goretty H.S.S., Manalikai, emphasized the students about successful goal setting and achievement.

The Department of Science and Humanities organized a Motivational Program on “Traits for Triumph” led by the Resource person Prof.M.Sebastian, Formerly HoD of English Department, Scott Christian College, Nagercoil on the 29th of August, 2019. The Department also organized a special program on “Impacts of Mobile Phone on Modern Youth” on 31st January,2020. The Resource Person Dr.A.D.Abel Bensam made the students understand how smart phones could potentially create hazards in the life of modern youth.

The Department of Computer Science and Engineering (CSE) and Information Technology (IT) organized a Motivational Program to motivate the students on the topic “Life and its significance” on 30th July, 2019 for which Dr. R. Edwin Raj from St. Xavier’s Catholic College of Engineering was the Chief Guest.

## NATIONAL LEVEL TECHNICAL SYMPOSIUM

The Department of Electrical and Electronics Engineering organized a National level technical symposium FENESTRA 2K19 to gain innovative ideas on the current trends in Electrical

and Electronics arena. Er.C.Rajasekhar, Executive Engineer, TANGEDCO, Nagercoil was invited as the Chief Guest. The Department of Electronics and Communication Engineering (ECE) organized ESTONIEA'19 on 22th August, 2019, in which Dr.P.Nagarajan, Professor and Vice Principal, DMI Engineering College, Aralvaimozhy served as the Chief Guest. The Department of Mechanical Engineering successfully organized MECHANIZE 2K19, on 20th February, 2019 where Er.A.David Dason, DGM, ESTEG was invited as the Chief Guest. The CSE and IT Department conducted their technical symposium TAKNIA 2019 on 09th August, 2019 in which the students had an inspiring session with the Chief Guest Dr.R.P.Anto Kumar, Professor, St. Xavier's Catholic College of Engineering, Chunkankadai. The Civil Engineering Department organized LASTRA 2K19 on 8th February, 2019 where the Chief Guest Er.P.Justin Paul, Founder Chairman, Builders Association of India, Kanyakumari Centre encouraged the students in all aspects. The Department of Civil Engineering also conducted a one day Seminar Cum Workshop on "Analysis and Design of Framed Structures" on 19th July, 2019 in which budding technocrats gained technical ideas from Dr.M.Murugan, Professor, Government Engineering College, Theni District.

### INVITED TALK

On 29th July, 2019, the Department of Mechanical Engineering organized a one day Invited Talk on "Recent Trends and Technology in Mechanical Engineering" in which Dr.G.R.Jinu, University College of Engineering Nagercoil was invited as the Chief Guest. The Department of Automobile Engineering organized the Invited Talk on "Recent Trends and Technology in Automobiles" with Dr.J. Edwin Raja Dhas, Head, Department of Automobile Engineering, NICHE as the Resource person on 26th July, 2019. EEE Department invited Er.E. David Jeba Singh, Superintending Engineer, TANGEDCO, Nagercoil as the Chief Guest for their Invited Talk program "Recent Trends on Power Systems" on 17th July, 2019.

### BRIDGE COURSE

The Department of Science and Humanities conducted a one-week Bridge Course Program from 24th July to 01st August, 2019 for the newly admitted batch of 2019-2020.

### FACULTY DEVELOPMENT PROGRAM

Updating the knowledge of the faculty by exposing them to the latest developments in their respective fields is a continuing necessity of any Technical Institution.

A Faculty Development Program was organized on 6th December, 2019 in which the Resource Person Mr.Jayaraman Umashankar, Trainer and Consultant inspired the faculty members to march forward with greater academic traits.

**Prof.M.Roger Libin**, Department of Automobile Engineering and **Prof.I.Living Prephet** from the Department of Mechanical Engineering attended a six-day Faculty Development Training Program on "ME 8692 - Finite Element Analysis" from 02nd December, 2019 to 07th December, 2019, organized by the Department of Mechanical Engineering, University College of Engineering, Nagercoil.

**Prof.D.Shine Rajesh** of IT attended a two-day Faculty Development Program on MATLAB at Arunachala College of Engineering for Women.

**Prof.R.Jegana** of IT attended a two-day Faculty Development Program on Team Building conducted by ICT Academy at DMI Engineering College, Kanyakumari.

## REFRESHER COURSES

**Dr.C.Emmy Prema** completed two NPTEL online courses on Digital Circuits and Basic Electric Circuits.

**Dr.S.A.Praylin Selva Blessy** and **Prof.K.Sindhu** completed an online course on LaTeX101x: LaTeX for Students, Engineers, and Scientists conducted from 24th September, 2019 to 02nd December, 2019 by IIT Bombay.

## GUEST LECTURES

It is a great privilege to note the following faculty members have been invited by various institutions for special talks on various disciplines:

**Prof.M.Saravanan** of English department was invited as the Resource person for a motivational talk on “Communication Skills” at White Memorial College of Arts and Science for Women and also for a Guest Lecture at L.M.S.H.S.S, Palliyadi in October 2019.

**Dr.L.Femila** gave a Guest Lecture on “Aperture and Special Antennas” at Cape Institute of Technology, Levingipuram, February 2019.

**Prof.A.Arul Edwin Raj** gave a Motivational Talk on “How to manage the Students” at St.Joseph College of Education, Appicode, July 2019.

## RESEARCH ACTIVITIES

It is a matter of great pride to record that a large number of our faculty members actively participated in various Research activities such as seminars, conferences, workshop, symposia and so on.

**Dr.D.P.Abhilash** of Chemistry Department attended a two-day National Seminar on “Group Theory and its Applications in Chemistry” on 1st and 2nd August, 2019 sponsored by UGC. He also published a paper titled “Seasonal Changes in the Physico-Chemical Parameters and Nutrient Load of River Neyyar Kerala” in the Journal of Research in Science (Aug 2019).

**Dr.S.A.Praylin Selva Blessy** published a paper in an International Journal, “Computer Methods in Biometrics & Biomedical Engineering Imaging and Visualization” titled “Enhanced Homomorphic Unsharp Masking method for Intensity Inhomogeneity Correction in Brain MR Images”, January 2020 and published a book chapter titled “Intensity Inhomogeneity Correction in Brain MR Images Based on Filtering Method” in the book “Handbook of Research on Applications and Implementations of Machine Learning Techniques”, in July 2019. She also participated in a 'One day Workshop on eSim, a First Course in the IoT Series for Teachers' held at St. Xaviers Catholic College of Engineering, Chukankadai, Kanyakumari on 21st September, 2019 organized by the Teaching Learning Centre ICT at IIT Bombay.

**Prof.A.Joel Dickson** participated in a nine-day Workshop on Research Methodology at Noorul Islam Centre for Higher Education from 27th May, 2019 to 04th June, 2019 and a 6-day Workshop on Image processing using Matlab and Python at Mar Ephraem College of Engineering and Technology from 25th to 30th November 2019. He presented a paper titled “Detection of Plant Disease using Optimised Clustering Algorithm” in Cape Institute of Technology on 6th March, 2019.

**Prof.G.Marly** presented a paper titled “Multi-source Content Based Image Retrieval in Cloud Computing with Privacy Preservation” in Rohini College of Engineering and Technology on 29th March, 2019. She also presented a paper on “Liveness Detection and Recognition Using ECG and Finger Print” in

PET Engineering College, Valliyur on 13th March, 2019.

**Prof.L.Febin Rani** presented a paper on “Research of Multi Pattern Matching Algorithm Based on Characteristic Value” in PET Engineering College, Valliyur on 13th March, 2019 and a paper on “Effective Data Sharing in Multiple Groups using Dynamic Broadcast Encryption and Group Signature” in Rohini College of Engineering and Technology, Anjugramam on 29th March, 2019.

**Prof.S.Biron Gifty** presented a paper on “ Robust Hashing Based image Search and Retrieval” at Rajas Engineering College, Vadakkangulam.

**Prof.A.Mary Jeya Shiniha** presented a paper titled “Effective Handover Scheme for Control User Plane Split Network in High Speed Railway Communication System” in an International Conference at Cape Institute of Technology on 6th March, 2019.

**Prof.M.Saravanan** attended a one day workshop organised by NPTEL in collaboration with IIT Bombay and Manonmaniam Sundaranar University, Tirunelveli on 19th July, 2019 and presented a paper on an International Conference on “Voice of the Violently Silenced in Mahesh Dattani’s Thirty Days in September” at White Memorial College of Arts and Science for Women on 24th January, 2020.

**Prof.S.Austin Sweety** attended a one day workshop organised by NPTEL at Manonmaniam Sundaranar University, Tirunelveli on 19th July, 2019 and participated in an International Conference organised by White Memorial College of Arts and Science for Women on 24th January, 2020.

It is praiseworthy to acknowledge that eight of our staff members have successfully completed their Doctoral Programme (Ph.D) during their tenure at Bethlehem Institute of Engineering.

1. Dr.C.Emmy Prema, ECE
2. Dr.S.A.Praylin Selva Blessy, ECE
3. Dr.L.Femila, ECE
4. Dr.M.R.Kavitha, ECE
5. Dr.D.P.Abhilash, Chemistry
6. Dr.S.Priscilla Jane, Mathematics
7. Dr.T.S.Ida Helen, Mathematics
8. Dr.N.Jemima Christabel, Mathematics

## SPORTS AND GAMES

In the 38th Tamil Nadu State Masters Athletic Championship-2019 organized by Trichy District Masters Athletic Association held at Anna stadium, Khajamalai, Trichy, **Ms.M.Minimole**, Physical Director won III Place in 800 mts Running Race and 4 x 100 mts Relay Race.

## INDUSTRIAL VISIT AND TRAINING

The Institution arranged Industrial Visits, Inplant Training and Certified Software Training Programs to let the students know things practically through interaction, working methods and employment practices.

The Civil Engineering Department successfully organised a Certified Software training program, ETABS (Extended Three Dimensional Analysis of Building Systems) for the M.E. Structural Engineering students. This Value added Course from 23rd September, 2019 to 24th January, 2020 helped the students to complete the Analysis Software course along with their regular curriculum. All the registered students

actively participated and completed the course successfully. The Department also conducted a Survey Camp for the Third year students at Courtallam, Tenkasi District from 31st May, 2019 to 09th June, 2019 (A ten day program). Moreover the students underwent a site visit along with staff members to L&T Construction site, four way lane road work project near Thovalai and prefabricate concrete yard. It's an honor to the Department of Civil Engineering for having officially signed the MOU with the CADD centre.

The students of Mechanical Engineering Department attended the workshops at TNSTC, KSRTC, Kerala automobile, IIT Madras, HMT, CIRAT India and GCT Coimbatore. As a part of training program, IT students visited Nyeste Venture Technologies, Paladin Software and BSNL. The Students of CSE had their trainings at Nyeste Venture Technologies, Guardian India Private Limited, Seaview System Private Limited and Kashiv Infotech. The students of EEE department undertook trainings at Keltron, BSNL, Kerala State Electricity Board and Substations of Tamilnadu Electricity Board. ECE students visited BSNL and Keltron. Civil Engineering students had their training in Kerala Public Work Department, Kerala Irrigation Department and in various construction sites. Automobile Engineering Department students had their training at Rehobath Motors (Swaraj Mazda), Tata Motors Ltd, Tirunelveli, Volvo Service Center, Bangalore, National Small Industries Corporation, Chennai and KSRTC Tiruvella.

The visits provided the students good opportunity to gain full awareness about industrial practices.

### **EDUCATIONAL TOUR**

The Institution arranged Educational Tours to provide situations for the students to learn and get acquainted with the process of organizing a field trip and understand the environment around.

### **CELEBRATIONS**

Celebrations make the academic journey more enjoyable and fun. With the laughter that sounds the air and the excitement and joy in everyone's face is what marks the day a memorable one.

#### **INTERNATIONAL WOMEN'S DAY**

International Women's Day was celebrated in its true colors on 8th March, 2019 for which Dr.Sumithra Raghuvaran served as the Chief Guest.

#### **GRADUATION DAY**

The 7th Graduation Day was celebrated on 30th March, 2019. The Chief Guest Dr.A.Albert Rajan, Deputy Registrar, Karunya University shared words of encouragement with the graduates and distributed the Graduate degree certificates.

#### **INDEPENDENCE DAY CELEBRATION**

The 73rd Independence Day was celebrated in the College premise with the staff and students to re-experience the spirit of patriotism and to honor the glorious past of our country.

#### **ONAM CELEBRATION**

The staff and students celebrated Onam on 7th September, 2019 with great cheer and enthusiasm. An inter-departmental Athapookalam competition was hosted in the college premises which witnessed exciting response of participants. The First and Second prizes were won by the Department of Electronics and Communication Engineering and Mechanical Engineering respectively.

### **CHRISTMAS CAROL COMPETITION**

An inter-departmental Christmas carol competition was held on 20th December, 2019. The participants from various departments put forth their enthralling performance. The Department of ECE and EEE won the First and Second prizes respectively.

### **CHRISTMAS DAY**

Soaking in the spirit of Christmas, staffs and students celebrated the Christmas festival on 21st December, 2019 with the gracious presence of Pastor Rev.Robert and Pastor Rev.Reginald Samuel.

### **AWARENESS DRIVE**

#### **ANTI-RAGGING AWARENESS PROGRAM**

Anti-Ragging Awareness Program was conducted on 19th September, 2019 to create an awareness about Anti Ragging among the students in which the Chief Guest Mrs.K.Pon Devi, Inspector of Police share valuable thoughts with the students.

#### **DRUG AWARENESS PROGRAM**

Drug Awareness Program was conducted on 17th September, 2019 to create awareness about the harmful effects of drug usage. The resource persons Shri.K.Hari Krishnan (Formerly Asst.Gen.Manager, HR, Housing and Urban Development Co-operation) and Shri.A.S.Harrish (Managing Director, Sarangam Green Pvt. Lt.) instilled awareness on the ill-effects of drug and alcohol consumption, in a comprehensive manner.

#### **ROAD SAFETY AWARENESS PROGRAM**

Road Safety Awareness Program was conducted on 11th July, 2019 in collaboration with the Kanyakumari Police Department to promote road safety awareness among the students. The Chief Guest Shri.E.Karthik IPS, Assistant Superintendent of Police, Colachel emphasized on the traffic rules and regulations which are commonly neglected by citizens that lead to major accidents. The Chief Guest was accompanied by the Police officials Ms.Maheswari (Inspector of Police), Mr.G.E.Elango (Sub-Inspector of Police) and Ms.T.Hema Latha (Sub-Inspector of Police).

### **ALUMNI ASSOCIATION**

Alumni Association is actively functioning in our Institution. The association succeeded in bringing the Alumni from various places under the same umbrella to conduct its first meeting on 8th June, 2019 with Dr.James R. Daniel as the Chief Guest. Periodical get together is also planned to make the relation stronger.

### **CAREER GUIDANCE AND PLACEMENT CELL**

Our Institution has a good track record for placement right from the beginning and has been able to keep the momentum inspite of the adverse employment climate. The Career Guidance and Placement Cell (CGPC) provides world class training and employment opportunities in leading organizations.

### **RESEARCH AND DEVELOPMENT (R&D) CELL**

The Research and Development Cell aims to nurture research in the Institution by encouraging the staff and students to undertake the research in newly emerging frontier areas of Engineering and Technology including multidisciplinary fields.

## IIT BOMBAY REMOTE CENTRE

Our Institution serves as a Remote centre to IIT Bombay to enhance the technical skills of students as well as the teaching skills of faculty.

## PRODUCT DEVELOPMENT CELL (PDC)

The Product Development Cell initiates innovative student project each year for innovative product development. PDC has been conducting various programs to inculcate product development skills in the minds of students.

## NATIONAL SERVICE SCHEME (NSS)

NSS unit of the Institution organized a special camp from 13th January, 2020 to 20th January, 2020 and rendered various social service activities. As a part of this service, the staff and students visited an orphanage and celebrated Pongal along with the inmates. Moreover, they planted 50 saplings in the Government School, Melmidalam. The unit is vibrant in all cores, conducting awareness programs in different location. They conducted a Dengue awareness program. As a part of plastic awareness, the NSS students removed the plastic materials present along the shores of Melmidalam beach. In the valedictory function, the Chief Guest Dr.Jayanthi, NSS Coordinator, Anna University Tirunelveli addressed the gathering.

## YOUTH RED CROSS (YRC)

YRC unit of the Institution provides opportunities to the students to inculcate healthy living habits and to contribute their values for the upliftment of the society. YRC conducted a blood donation camp on 28th January, 2020. More than 100 students voluntarily donated their blood to GH, Headquarters Blood Bank, Padmanabhapuram.

## STUDENTS ACHIEVEMENTS

Our students proved their mettle in various competitions and brought laurels to the Institute. They have participated in technical programs organized by other institutions and bagged prizes.

**G.Jebinth, M.Aldas** and **R.Ratheesh** of IV Year Automobile Engineering participated on a two-day workshop on “Recent Trends in Automobile Engineering” held at Madras Institute of Technology, Chennai. **G.Jebinth** of IV year was certified for a 15-day Inplant Training at Rehoboth Motors (Swaraj Mazda).

**R.Agesh** and **M.Aldas** of IV year Automobile Engineering presented a paper on “Smart Hybrid Technology in Diesel Engines” at Rajas Engineering College, Vadakkangulam.

**R.Sripa** of IV Year Civil Engineering won I prize in paper presentation, conducted by Rajas Engineering College, Vadakkangulam and also bagged II prize for Technical Quiz competition organized by Rajas International Institute of Technology for Women, Nagercoil. Adding to her credit, she was honoured with the ISTE Best Student Award.

**D.L.Julian Hanza** of IV Year Civil Engineering won II prize in paper presentation, conducted by Rajas International Institute of Technology for Women, Nagercoil.

**S.S.Siva Lekshmi** of IV Year Civil Engineering won I prize in Poster Presentation competition held at Arunachala College of Engineering for Women, Vellichanthai.

**R.Sripa** and **S.S.Siva Lekshmi** of IV Year Civil Engineering won second prize in Technical quiz competition held at Mar Ephraem College of Engineering and Technology, Elavuvilai.

**R.L.Lekha** of Civil Engineering achieved a special prize for Tamil Essay writing competition conducted by Maha Cement Pvt Ltd, Chennai, on Engineers' Day.

**V.Asha Jincy, J.Jerlin** and **RN.Ahisha Blessy** of II CSE won second prize and **B.Bebisha Sharon, R.Jenitha** of II CSE won third prize in the intra-collegiate quiz competition conducted by ISTE Students' Chapter. **A.V.Berby** and **R.Chandralekha** of III CSE won second prize for paper presentation in a one-day National Level Technical Symposium at Arunachala College of Engineering for Women, Velichanthai.

**M.Makesh, A.Albert Raj** and **E.Mohana Nirmals Raj** of III CSE won second prize in the mime competition in the National Level Technical Symposium conducted by the Department of CSE in Mar Ephraem College of Engineering, Elavuvilai.

**D.Gifta** and **R.Abin Jilna** of IV year IT, presented a paper "Fingerprint Based E-voting System Using Aadhar Database" at the National Level Technical Symposium organised by Arunachala College of Engineering for Women, Velichanthai and won III prize.

**R.Lenin Royal**, II year IT attended a two-day workshop on "World Biggest International Hands on IoT and Ethical Hacking", organised by World Record Holder Wikitechy and Microsoft Research Community Group, Chennai.

**A.P.Rachelin Thomas**, III year IT attended a Youth Talk at St.Xavier's Catholic College of Engineering, Nagercoil organised by ICT Academy and was selected for the Regional level.

Students actively participated in various competitions organized by St.Judes College of Polytechnic, Tholayavattam in connection with SVEEP activity during the 10th National Voters Day Celebrations 2020 and bagged prizes. **V.Asha Jincy** of II CSE got I prize in Elocution competition, **R.L.Lekha** of III Civil Engineering secured I prize in Essay writing, **S.Nishanthini** of IV CSE and **D.Aslin Derik** of III ECE secured II position in Essay writing and **C.Prabin** of IV Civil Engineering got II prize in Elocution competition.

## SPORTS AND GAMES

Students have also participated in various other inter-collegiate sports events and topped in the University level. A few are listed below:

Sports & Games	Participant	Class	Venue	Position
Table Tennis	A.Prenola Gipson	IV ECE	Anna University Zonal Tournament held at	III
	R.S.Abinaya	III ECE		
	Abiah P Sunny	III ECE	Stella Mary's College of Engineering.	
	A.M.Arya	III EEE		
Badminton	D.Aslin Derik	III ECE	Anna University Zonal Tournament held at	III
	Aadarsh	III Auto		
	K.V.Abhiram	III Auto	St. Xavier's Catholic College of Engineering.	
	M.Tom Thomas	III Civil		

Table tennis	Aravind Viyayan	IV EEE	Anna University Zonal Tournament held at Stella Mary's College of Engineering	II
Cricket	R.Jino V.V.Vishal	II CSE	Anna University Zonal Tournament held at Ponjesly College of Engineering	I
Chess	U.Pavithra	III CSE	Anna University Zonal Tournament held at Stella Mary's College of Engineering	III
Badminton	N.Siffo	II ME SE	Anna University Zonal Tournament held at St. Xavier's Catholic College of Engineering	I
Discuss Throw	R.Maria Jenisha	II ME SE	Anna University Zonal Tournament held at Loyola Institute of Science & Technology	II
Shot-put	R.Maria Jenisha	II ME SE	Anna University Zonal Tournament held at Loyola Institute of Science & Technology	I
Triple Jump	K.Mugesh Kumar	III Civil	Kanyakumari District Athletic Association held at Anna Stadium Nagercoil	III
Ball Badminton	R.Jebin Raj J.Belix	III Auto	Anna University Zonal Tournament held at Scott Christian College Nagercoil	II

I am personally indebted to the Chairman and the Directors for strengthening the hands of students and faculty members for their sagacious counsel and guidance all these twelve years. Let us continue to work as a team to make Bethlahem stand tall among other institutions in our District and State.

Let me conclude this report by thanking Lord Almighty for all His bounteous blessings on the Bethlahem family all these years.

Trusting in God, I sincerely hope that the Institution would continue the onward march towards transforming this Institute into a world renowned Centre of Learning with global competency.

-Principal

## DEPARTMENT OF AUTOMOBILE ENGINEERING

The Department of Automobile Engineering was established in 2014. The department facilitates a good learning environment with newly updated labs which provokes the students to pursue their degree in a practical manner. The students have been placed in reputed companies and a few of them are undergoing higher studies.

During this academic year, the students participated in workshops, conferences and inter-collegiate competitions, and won many prizes. The students are also motivated for doing research projects. The department conducted Invited Talk and Symposium, and organized Educational Tour and Industrial Visits.

A one day Invited talk was organized for the students on “Recent Trends & Technology in Automobiles”. Apart from academics, the department also gives importance to stress management, Field trip and so on to make the students feel relaxed. The Second and Third year students had their visit to Mysore, Chikmagalur and Coorg for three days. The Final year students visited Punjab, Shimla, Manali and Agra.

Students excelled themselves in sport activities too. Aadarsh, K.V.Abhiram, R.Jebin Raj and J.Belix of Third Year won prizes in the Anna University Zonal Level Tournament.

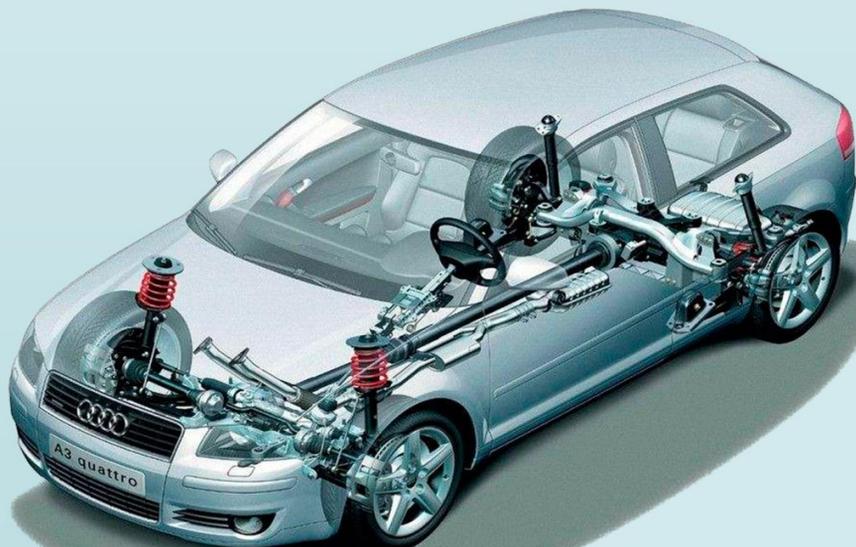
The students of Automobile Engineering actively contributed consumables and non-consumables for the basic need of flood relocated people in camps in Wayanad and other districts of Kerala. Prof.M.Roger Libin, Assistant professor, Department of Automobile Engineering has attended a Six-Day FDTP, “Finite Element Analysis” at University College of Engineering, Nagercoil sponsored by Anna University, Chennai.

G.Jebinth, M.Aldas and R.Ratheesh of Final Year have attended a two day workshop on “Recent Trends in Automobile Engineering” held at Madras Institute of Technology, Chennai. Jebinth.G of Final year has attended a 15 Day Inplant Training at Rehoboth Motors (Swaraj Mazda). R.Agesh and M.Aldas of Final year have presented a paper on “Smart Hybrid Technology in Diesel Engines” at Rajas Institute of Technology, Vadakangulam.

One of the primary goals over the next few years is to increase subject-specific placements. The department has started to race for NBA accreditation and also aspire to increase the percent of placement. Thus by being a center of excellence, the department wishes to produce dignified and expertised graduates.



PROF.S.SIGA SELVIN  
HoD/AUTOMOBILE



## DEPARTMENT OF CIVIL ENGINEERING



The Department of Civil Engineering has been in Bethlahem Institute of Engineering since 2010 and has grown into a full-fledged department over the past nine years. The departmental activities embrace Planning, Design, Construction and Management. It provides practical and theoretical education through various labs and pays special attention to impart technical education.

The department successfully conducted a National level technical symposium LASTRA 2K19 and a one Day Seminar cum Workshop on “Analysis and Design of Framed Structure”. Certain short term courses are provided for the benefit of the students.

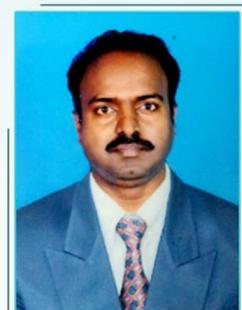
Certified training programs on “Advanced Surveying Using Total Station Equipment” was conducted for the Third year students which is inevitable for the present construction scenario to enhance their technical knowledge. The department provides several Auto-Desk softwares for the students of each year. Memorandum of understanding (MoU) had been signed with CADD centre for conducting value added courses, which helps students to have a good knowledge of the latest software.

Apart from academic activities, the department gives emphasis on stress management. To make the students feel relaxed, in each academic year they are taken to certain places as a part of curriculum.

All the students of the department had undergone a site visit to L&T construction Site, four way lane road work project near Thoivalai and prefabricate concrete yard. The Third year students had undergone a 10-day Survey Camp in Courtallam. Students rendered their voluntary service to help the people of flood affected areas in Wayanad District of Kerala.

The students have proved their skills in activities like sports, cultural program and technical events. The department of Civil Engineering was the overall champion for the inter-departmental cultural competition. The Final year student R.Sripa was crowned with ISTE Best Student Award. The student R.L.Lekha bagged a special prize for Tamil Essay writing competition conducted by Maha Cement Pvt Ltd, Chennai, for Engineers’ Day. The Final year students R.Sripa, D.L Julian Hanza and S.S. Siva Lekshmi won prizes in various competitions such as Paper Presentation, Technical Quiz and Poster Presentation held in other colleges. The students N.Siffo of Second year M.E-Structural Engineering, R.Maria Jenisha of First year M.E -Structural Engineering, M.Tom Moses of Third year B.E., and K.Mugesh Kumar of Third year B.E. won prizes in the Anna University Zonal Level Tournament.

The department with its multifaceted faculty continues to maintain and cultivate its strong links with the building and construction industry, and academic and research institution. Besides high quality teaching and instruction at both UG and PG level, the department is actively involved in basic and applied research and consultancy, and provides high quality technical and advisory support to various organizations.



PROF. M. JEGANLAL  
HOD/CIVIL

## DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

“A strong, positive self-image is the best possible preparation for success in life”-Dr. Joyce Brothers.

With the spirit of the above said quote, the Department of Computer Science and Engineering started to function during the academic year 2008-2009 and was granted with the PG program during the academic year 2014-2015. The department provides students ideas about the recent happenings beyond their syllabus through symposium and provides aptitude training, seminars, soft-skill training and other activities for the students to develop their technical skills. The department staffs are very eager in providing updated knowledge to the students.

There was a tremendous increase in the pass percentage of the students in the recent Anna University Examinations. The students of the department attended various placement training programs and several Final year students of the academic year 2018-2019 got placed in companies like Infosys, Wipro, UST Global, TCS, Tech Mahendra, Infoview, Mobius etc.

V.Asha Jincy, J.Jerlin, R.N.Ahisha Blessy, B.Bebisha Sharon and R.Jenitha of Second year won prizes in the intra-collegiate quiz competition conducted by ISTE Students' Chapter. M.Makesh, A.Albert Raj and E.Mohana Nirmals Raj of Third year won second prize in the mime competition in the National Level Technical Symposium conducted by Mar Ephraem College of Engineering. A.V.Berby and R.Chandralekha of Third year won second prize for paper presentation in a one-day National Level Technical Symposium at Arunachala College of Engineering for Women. Many students attended Internship in organizations such as Webking Technology, WABCO, Kashiv infotech, Kudankulam Power Plant and the second year students went to BSNL as a part of Inplant training. The department students are encouraged to get hands-on experience in the corporate world through internship projects with reputed organization.

Three faculty members of the department are enrolling for Ph.D in the upcoming semester. The faculty members Prof.S.Biron Gifty, Prof.G.Marly and Prof.L.Febin Rani have presented papers in National Conference.

The department fulfills its dream of inculcating human values and employable skills in the students by conducting various programs. The department organized a Motivational Program on the topic “Life and its significance”. The department also organized a National Level Technical Symposium “TAQNIA 2K19”. The department arranged industrial visit for the Second, Third and Fourth year students to get themselves relieved from their mental stress.

The Second year students R.Jino,V.V.Vishal and the Third year student U.Pavithra won prizes in the Anna University Zonal Level tournament.

The Computer Science and Engineering Department is preparing its students to attain gradual success by adopting various innovative strategies with positive spiraling effect.



PROF.G.MARLY  
HoD/CSE



## DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING



The Department of Electrical and Electronics Engineering of Bethlahem Institute of Engineering was established in the academic year 2008-2009 and it was added with the PG course Power Electronics and Drives in 2012-2013. The department intends to provide an accessible, high quality Engineering Education in Electrical and Electronics Engineering field.

Electrical and Electronics Department has the unique advantage of being a combination of both Electrical Engineering and Electronics Engineering and thus providing the students of this branch double benefit to study broader subjects which provide them double advantage for placements in reputed companies related to both the fields. The Department has a number of well-equipped laboratories and provides excellent facilities for learning.

The department has its Association named BEATZ (Bethlahem Electrical Association for Techie Zealots). The department organized an Invited talk and a National level technical symposium (FENESTRA 2K19) to gain innovative ideas on the current trends in Electrical and Electronics for the students.

The department organized educational excursion to visit various places to enrich the students and to take learning beyond the four walls of the classroom.

Students were trained in quantitative aptitude, verbal aptitude and reasoning aptitude, group discussion, hands-on training on electrical wiring and soft skills as their career development. The students guided by the faculty have proved their talents and skills in numerous ways and have brought laurels to the institution. The students actively participated in various inter-collegiate cultural events held at national level. Three faculty members are decided to register for their Ph.D program.

Students actively participated in sport events held at various colleges. The Final year student Aravind Viyayan and Third year student A.M.Arya won prizes in table tennis held at Stella Mary's College of Engineering.

The department prepares students for productive careers, postgraduate study and lifelong learning which are useful to the society and the nation.



PROF. K. CHRISTAL SAJI  
HoD/EEE



# DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

The Department of Electronics and Communication Engineering was established in the year 2008 with an undergraduate program and later added two postgraduate programs.

The department has been consistently maintaining an exemplary academic record. There is a remarkable increase in the percentage of pass by the students in the Anna University examinations. The M.E Applied Electronics students D.V.Sherly, C.S.Ancy and P.Babitha secured Top ranks in the M.E. Degree Exam conducted by Anna University, Chennai.

Electronics and Communication Engineering Department has good and consistent placement record with students placed in many Core and IT companies and is associated with professional bodies like ISTE for faculty and students to enhance their research activities. The students have participated in various placement programs and the Final year students of the academic year 2018-2019 were placed in various companies such as Infosys, Wipro, UST Global, TCS, Tech Mahendra, Infoview, Mobius etc.

Pavanya J.Kumar and A.B.Alisha Alen of Final year won first prize in the intra-collegiate quiz competition conducted by ISTE Students' Chapter. All the students of the department attended various internship programs.

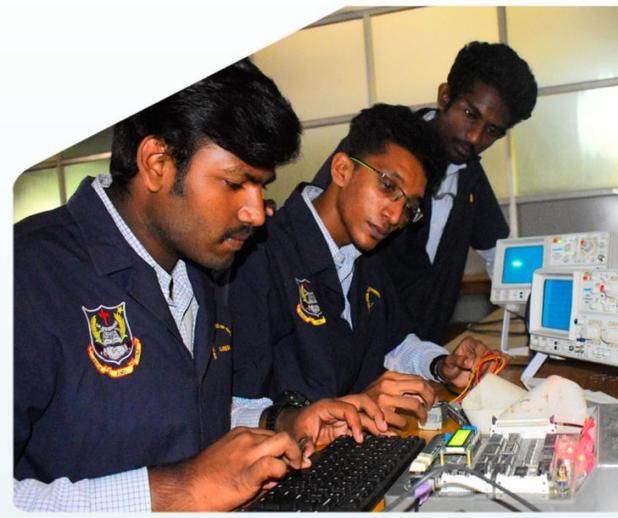
The academic journey of the departmental activities started with the formation of the association EAST-Electronic Association of Stalwart Technocrats. A National Level Symposium 'ESTONIEA 19' was organized as an attempt to explore the technical world and encourage students to improve their ideas.

An educational tour to Mysore, Bangalore and Hogenakkal was organized for UG and PG students. The students gathered more knowledge about the traditions and technologies. The Second year M.E. Communication Systems and Final year UG students visited the Kudankulam Nuclear Power Plant.

The faculty members are eager to acquire more knowledge with a view to keep pace with the latest developments in their disciplines and make use of every opportunity to improve their skills. They attended many number of sponsored workshops to update their knowledge. Three faculty members had completed Ph.D and three faculty members are pursuing Ph.D and many of their papers have been published in various reputed journals. Dr.L.Femila delivered a Guest Lecture at Cape Institute of Technology, Levingipuram and Prof.A.Arul Edwin Raj presented a Motivational Talk at St.Joseph College of Education, Appicode. Dr.C.Emmy

Prema completed two NPTEL online courses. Dr.S.A.Praylin Selva Blessy published a paper in International Journal and attended a workshop at St.Xavier's Catholic College of Engineering, Chunkankadai.

The department is now meeting the requirement of technological challenges and the technical man power requirement through its updated course curriculum, experienced faculty members, skilled supporting staff and with the help of sophisticated laboratories.



Dr.L.FEMILA  
HoD/ECE



## DEPARTMENT OF INFORMATION TECHNOLOGY



The Department of Information Technology has produced a batch of professionals. They have consistently excelled in the high competitive industrial environment. The department attribute this success to the winning combination of a dedicated faculty that works hard at imparting quality education.

The department is adorned with highly qualified and experienced staff. The laboratories are well equipped with the updated licensed software. The department has always been on a high growth path and has given highest placement. The students are encouraged to get hands-on experience in the corporate world

through internship projects in reputed organization. As a part of that, the Second year students went to BSNL, the Third year and Final year students went to Nyeste Venture Technologies and Paladin Software. The department produced 100% participation in internship. Students are encouraged to take up mini-projects to supplement theoretical knowledge with practical experience. The department is also having ISTE membership. Various training programs have been organized to acquaint the student and faculty with the practical tools required in the curriculum.

One hour placement training was added with the regular schedule for the students to make them efficient in this current scenario. The Second year students were given technical training like computer system assembling and disassembling, various operating system installations, and various software installations and given training on flash, photoshop. The Third year students were being trained with softwares that were related to their curricular as well as co-curricular activities. The Final year students were given with the training programs to prepare for interview and how to get through the expectations of a company. Aptitude training is also given to the students to prepare for GATE exams and to clear industry based written exams.

The department has its student association SINTONIA and organized a Motivational Program and a Technical Symposium TAKNIA 2019.

Three senior faculty members are registering for Doctorate. Prof.D.Shine Rajesh has attended a two day faculty development program on Matlab.

One of the Second year students R.Lenin Royal attended two days IoT HACKATHON under the theme “World’s Biggest International Hands-On IoT and Ethical Hacking Workshop” by World Record Holder Wikitechy and Microsoft Research Community Group at Chennai. Also the students have attended symposia organized by other colleges. During this year the Second, Third and Final year students went to Cochin and Bangalore as a part of their Industrial Visit.

To improve the students’ performances and to solve their psychological related problems, one faculty is assigned to provide counseling regularly. Weaker students are continuously motivated by the faculty and arranged special classes for them to achieve good results.

The department of Information Technology has much more to record about the achievement of staff and students.



PROF.D.SHINE RAJESH  
HoD/IT



# DEPARTMENT OF MECHANICAL ENGINEERING

The Department of Mechanical Engineering started to function during the academic year 2010-2011 with a UG Program and during the academic year 2013-2014 the department was granted with Manufacturing Engineering as PG Programme. The journey of the departmental activities commenced with the formation of the Association Bethlahem Mechanical Warriors-BMW in 2012. BMW has served as the launch pad for every innovative and creative mind, catapulting their talents to unassailable heights.

The UG results are increasing considerably when compared with the previous years. Ten students have participated in conferences at various colleges and won prizes. Many students have undergone value added courses like Piping Courses, NDE, Advanced Welding Courses etc.

The students have participated in various on and off campus placement programs and more than 70% of the students got placed in various companies in and outside India, while others preferred higher education. In order to fulfill the requirements of the university curriculum and to give an exposure to industrial environment, industrial visits are arranged every year for all students. The students attended in-plant trainings and workshops conducted at TNSIC, KSRTC, IIT Madras, HMT, CIRAT India, GCT Coimbatore etc. The Final year students visited Kerala Automobiles as a part of industrial visit.

Mechanical Engineering staff members are eager to acquire more knowledge with a view to keep pace with the latest research, developments and innovations in their disciplines. The staff have participated in various workshops, conferences and Faculty Development Program. Few of the faculty members are pursuing Ph.D and published papers in various reputed national and international journals with high impact factor. Prof.I.Living Prephet, Assistant professor, Department of Mechanical Engineering attended Six-Day FFTP on Finite Element Analysis organized by the Department of Mechanical Engineering, University College of Engineering, Nagercoil sponsored by Anna University Chennai.

The department conducted a National Conference and a National Symposium during this Academic Year.



Dr. N. SELVARAJ  
HoD/MECHANICAL



## DEPARTMENT OF SCIENCE & HUMANITIES



The Department of Science and Humanities intends to create a love for acquiring higher traits of learning. The activities for the academic year 2019-2020 commenced in the month of July with a one week Bridge Course program. It was followed by the Introductory meeting for the freshers in which all the newly admitted students and their parents joyfully participated. Their words of gratitude and appreciation towards the institution made the day meaningful.

A Motivational Program 'Traits for Triumph' organized by the department enabled the students to fix their foot firm on the ladder of success. The department in collaboration with the Tamilnadu State Council for Science and Technology proudly organized a National Level Seminar "Spreading of Environmental Issues: Causes and Consequences of Climatic Changes". The Motivational Program on "The Impacts of Mobile phone on Modern Youth" made the students realize the ways to safely handle the e-gadgets, mobile phone in particular.

The department gives special focus on sports events too. M.Monisha of ECE, V.Femi of CSE and K.Saranya of CSE participated in the Anna University Zonal Level Tournament.

Moreover the achievements of the staff in various fields are really praise worthy. Dr.D.P.Abhilash of Chemistry Department published a paper in a reputed Journal. Prof.M.Saravanan, HoD of Science and Humanities and Prof.S.Austin Sweety participated in an NPTEL Workshop and in a two day International Conference. The HoD was invited as the Resource person for a Guest Lecture at White Memorial College of Arts and Science, Panichamoodu and for a Motivational Talk at LMS Higher Secondary School, Palliyadi. Prof.M.Saravanan and Prof.S.Austin Sweety of English Department, Prof.R.Diana of Mathematics Department and Prof.P.S.Abitha of Physics Department are pursuing their Doctoral programs.

The department focuses on the all-round professional personality of the graduates by offering a perfect platform for curricular, co-curricular and extra-curricular activities.



PROF. M. SARAVANAN  
HoD/S&H

## CO-CURRICULAR AND EXTRA-CURRICULAR ACTIVITIES

Apart from academic curriculum a wide range of extra-curricular and co-curricular activities are held throughout the year under the guidance of our Chairman Shri.Gerald Selvaraja and leadership of Director Er.T.Isan, Director(Academics) Dr.R.I.Rajidap Neshtar and Principal Dr.N.Selvaraj to enable holistic development of students and help them become responsible members of society. Some major highlights of these activities are mentioned here.

**08<sup>th</sup> February,2019**



### SYMPOSIUM(CIVIL)

The Department of Civil Engineering organized a National Level Technical Symposium LASTRA 2K19 on 8th February, 2019. The Chief Guest Er.P.Justin Paul, Founder Chairman, Builders Association of India, Kanyakumari Centre, explored generic ideas among student communities and inspired the developing engineers with better exposure. The Head of the Department Prof.M.Jeganlal along with the Program Coordinators Prof.G.Prabin Raja, Prof.J.Mercury Udhayam and the staff members successfully organized the event.

### CULTURAL FEST

A three day Cultural fest was organized on 14th, 15th and 18th of February, 2019 with the objective to provide platform for the students to showcase their talents. Students actively participated in all the events and exhibited their skills. The three day event moving from one to other showed the inherent talents of the students. The cultural team along with Convener Prof.M.Saravanan, Co-Convener Prof. R.Jeen Retna Kumar, Coordinators Prof.S.Belfin Raj and Prof.D.Ginu successfully organized the event.

**14<sup>th</sup> February,2019**



**22<sup>nd</sup> February,2019**



### SYMPOSIUM(MECHANICAL)

The Department of Mechanical Engineering organized a National Level Technical Symposium on 22nd February, 2019. The Chief Guest Er.A.David Dason, DGM, ESTEG emphasized the students to stimulate their talents and encouraged them to possess innovative ideas. The Head of the Department Prof.R.Jeya Raj and Program Coordinator Prof.I.Living Prephet were ably assisted by the staff members to organize the event successfully.

## SPORTS DAY

The Sports Day was held on 27th February, 2019 with great zeal on the sprawling grounds of the College. The ceremonial torch was lit followed by the impressive March Past by all the four Houses. Mrs.K.Pon Devi, Inspector of Police, Karungal was the Chief Guest on this occasion. Students and staffs participated in various games and athletics and won prizes. The Program Coordinator Mr.J.Aslin Sujan along with the other staff members coordinated the program.

**27<sup>th</sup> February,2019**



**01<sup>st</sup> March,2019**



## ANNUAL DAY

The Annual Day was celebrated on 1st March, 2019 in the college campus. The Chief Guest of the day, Orator Nellai Kannan spoke on needs of spirituality in today's era. The meritorious students and winners of various competitions were honored at this moment. It was a day filled with fervor amidst thrills and cheers. Various cultural events were staged by students and the audience enjoyed every item of the program with great fun.

## WOMEN'S DAY CELEBRATION

International Women's Day was celebrated in the college campus on 8th March,2019 to enhance the self-esteem and self-confidence of women students and staff. The Chief Guest of the day Dr.Sumithra Raghuvaran advised women to empower themselves and also lauded the modern women as they are prospering equally well along with men in all fields. The women students presented dynamic performances emphasizing the importance of gender equality for a healthy society.

**08<sup>th</sup> March,2019**



**30<sup>th</sup> March,2019**



## GRADUATION DAY

The 7th Graduation Day was celebrated on 30th March, 2019. The Graduation Day celebrations started with the academic procession in which the dignitaries, the Chief Guest, Director, Director (Academics), Principal and Heads of various Departments were ushered to the venue of the function. The Chief Guest Dr.A.Albert Rajan, Deputy Registrar, Karunya University shared words of encouragement with the graduands and distributed degrees.

## SURVEY CAMP (CIVIL)

The Department of Civil Engineering successfully conducted a Survey Camp for the Third year students in Courtallam, Tenkasi District from 31st May, 2019 to 09th June, 2019 (A ten-day program). The field experiment location was showed to the students using conventional and advanced equipment. Certificate Training Program was conducted by Survey Consultant, Ladder Survey Institute and Technology, Chennai. The survey camp was a great success and the students enjoyed a lot.

31<sup>st</sup> May - 09<sup>th</sup> June, 2019



08<sup>th</sup> June, 2019



## ALUMNI MEET

The first Alumni meet was held on 8th June, 2019. It was an incredible reunion of 2008, 2009 and 2010 batches. The Chief Guest Dr. James R. Daniel (Formerly Principal, Scott Christian College) emphasized the role of Alumni and importance of Alumni meet. The charming, spectacular and awesome day ended with memories to cherish with new hopes. Prof. M. Saravanan, Secretary and Dr. C. Emmy Prema, Treasurer of Alumni Association together with a team of staff members arranged all the necessities of the program.

## ROAD SAFETY AWARENESS PROGRAM

Road Safety Awareness Program was conducted on 11th July, 2019 in collaboration with the Kanyakumari Police Department to promote road safety awareness among the students. The Chief Guest Shri. E. Karthik IPS, Assistant Superintendent of Police, Colachel emphasized on the traffic rules and regulations which are commonly neglected by citizens that caused major accidents. Prof. C. M. Edwin Thurai and Prof. M. Merlin successfully coordinated the event.

11<sup>th</sup> July, 2019



17<sup>th</sup> July, 2019



## INVITED TALK (EEE)

The Department of Electrical and Electronics Engineering organized an Invited Talk to enlighten the students' academic, personal, and social growth on 17th July, 2019. The Guest Speaker Er. E. David Jeba Singh Superintending Engineer, TANGEDCO, Nagercoil delivered a motivational talk insisting Hard Work, Time Management and Character Building. The Head of Department Prof. K. Christal Saji along with Program Coordinator Prof. N. R. Belston Raja and staff members successfully organized the event.

## SEMINAR CUM WORKSHOP(CIVIL)

The Department of Civil Engineering organized a Seminar cum Workshop on 19th July, 2019 to provide a broad idea about "Analysis and Design of a Framed Structure". The Guest Speaker Dr.M.Murugan, Professor, Government Engineering College, Theni District, in his speech highlighted the Present Trends in Civil Engineering and the latest methods of designs. The event was successfully organized by a team of staff members headed by Prof.M.Jeganlal, HoD and Prof.S.Shibu Jain, Program Coordinator.

19<sup>th</sup> July,2019



24<sup>th</sup> July,2019



## BRIDGE COURSE(SCIENCE & HUMANITIES)

The Department of Science and Humanities conducted the inaugural session of the Bridge course on 24th July, 2019. The session started with invocation following which the Director (Academics) Dr.R.I.Rajidap Neshtar delivered the inaugural address and interacted with the students. A few ice breaking activities were conducted and students were honoured with mementos. The Head of Science and Humanities Prof.M.Saravanan along with the Program Coordinator Prof.A.Little Mary and the staff members arranged the program.

## INVITED TALK(AUTOMOBILE)

The Department of Automobile Engineering organized an Invited Talk to impart a broad idea about Recent Technologies on 26th July, 2019. The Guest Speaker Dr.J.Edwin Raja Dhas, Professor & Head, Department of Automobile Engineering, NICHE, Kumaracoil, spoke about the Recent Technologies in Automobile Engineering. The Head of the Department Prof.S.Siga Selvin along with the Program Coordinator Prof.D.Gladson and the staff members successfully organized the event.

26<sup>th</sup> July,2019



29<sup>th</sup> July,2019



## INVITED TALK(MECHANICAL)

The Department of Mechanical Engineering organized an Invited Talk on 29th July, 2019. The Guest Speaker Dr.G.R.Jinu, Professor, University College of Engineering, Konam, Nagercoil emphasized on Hard Work, Time Management and Scope of Mechatronics. The Head of Department Prof.R.Jeya Raj and the Program Coordinator Prof.I.Living Prephet were ably assisted by the staff members to organize the event.

## MOTIVATIONAL PROGRAM(CSE)

The Department of Computer Science and Engineering organized a Motivational Program on the topic "Life and its Significance" on 30th July, 2019. The Chief Guest Dr.R.Edwin Raj, Professor, St.Xavier's Catholic College of Engineering, Chunkankadai, shared the difficulties in human life and the possible ways to overcome the hurdles. The event was well organized by the Head of Department Prof.D.Amutha along with the Program Coordinator Prof.S.Biron Gifty and other staff members.

30<sup>th</sup> July,2019



30<sup>th</sup> July,2019



## MOTIVATIONAL PROGRAM(IT)

The Department of Information Technology organized a Motivational Program on 30th July, 2019 to motivate the students. The Chief Guest Dr.R.Edwin Raj, Professor, St.Xavier's Catholic College of Engineering, Chunkankadai, spoke about the difficulties in human life and the ways to overcome the barriers. The Head of Department Prof.D.Shine Rajesh along with the Program Coordinator Prof.P.Abitha Rose and the staff members arranged all the necessities of the program.

## INDUSTRIAL VISIT(MECHANICAL)

An industrial visit was organized for the Final year Mechanical Engineering students on 01st August, 2019. The students were taken to Kerala automobiles, a well-known manufacturing company for Automobiles (both electrical and conventional) in Neyyattinkara. The industrial visit served the students to learn the functioning of the automobile components.

01<sup>st</sup> August,2019



04<sup>th</sup>-8<sup>th</sup> August,2019



## EDUCATIONAL TOUR(EEE)

The Final year Electrical and Electronics Engineering students had an educational excursion from 04th to 08th August, 2019. They visited Mottakkunnu, Pine Forest, Kurushumala, Munnar, Idukki Dam, Echo point at Munnar, Wonderla (Kochi), Lullu Mall and Alappuzha. They had fun and enthusiasm during these days.

## INTRODUCTORY MEETING(S&H)

Introductory Meeting for the First year students was organized on 7th August, 2019. The day began on a very auspicious note with the invocation of God's blessing by Pastor Rev.Robert and Pastor Rev.Reginald Samuel. Followed by the Welcome Address of Principal, the Director conveyed Presidential Address. The Director (Academics) briefed the academic activities of the institution and motivated the students. The event was well organized by the Head of Science and Humanities Prof.M.Saravanan along with the staff members.

07<sup>th</sup> August,2019



07<sup>th</sup> - 11<sup>th</sup> August,2019



## EDUCATIONAL TOUR(ECE)

An educational tour to Mysore, Bangalore and Hogenakkal was organized by the Electronics and Communication Engineering Department from 7th to 11th August, 2019 for UG and PG students. The students gained more knowledge about the traditions and technologies.

## EDUCATIONAL TOUR(EEE)

The Department of Electrical and Electronics Engineering organized an educational trip to various places to enrich the students and to take learning beyond the four walls of the classroom. On 09th August, 2019 the Second and Third year EEE students had an educational trip to Neyyar Dam, Happy Land and Kovalam Beach. They enjoyed very much and had a nice time on that day.

09<sup>th</sup> August,2019



09<sup>th</sup> August,2019



## NATIONAL LEVEL SYMPOSIUM(CSE)

The Department of Computer Science and Engineering organized a National Level Technical Symposium TAQNIA 2K19 on 9th August, 2019 to gain innovative ideas on the current trends in the field of Computer Science. The Chief Guest Dr.R.P Anto Kumar, Professor, St. Xavier's Catholic College of Engineering, Chunkankadai highlighted the Industrial Revolution. The event was well organized by the organizing committee headed by Prof.D.Amutha, HoD and the Program Coordinator Prof.G.Marly.

## NATIONAL LEVEL SYMPOSIUM(IT)

The Department of Information Technology organized a National Level Technical Symposium TAQNTIA 2K19 on 9th August, 2019. The Chief Guest Dr.R.P Anto Kumar, Professor, St. Xavier's Catholic College of Engineering, Chunkankadai highlighted the Industrial Revolution and gave ideas for the students to gain practical Knowledge. The Head of Department Prof.D.Shine Rajesh along with Program Coordinator Prof.S.Sajitha Kumari and staff members arranged all the necessities of the program.

09<sup>th</sup> August,2019



15<sup>th</sup> August,2019



## INDEPENDENCE DAY

The 73<sup>rd</sup> Independence Day was celebrated with great enthusiasm and patriotic fervor on 15th August, 2019 in the College premise with the staff and students to re-experience the spirit of patriotism. The Director unfurled the tricolor following the Tamilthai Vazhthu. Then the event moved on with the cultural activities of the students which exhibited their spirit of freedom and nationalism. The Program Coordinators Mr.J.Aslin Sujan and Ms.M.Minimole together with the staff members coordinated the program.

## EDUCATIONAL TOUR(III IT & CSE)

The Department of Computer Science and Engineering and Information Technology organized an Educational Tour for Third year students to Mysore and Bangalore from 19th to 23rd August, 2019 to get relieved from their mental stress. Students experienced the life style and technological developments in these areas.

19<sup>th</sup> - 23<sup>rd</sup> August,2019



20<sup>th</sup> - 24<sup>th</sup> August,2019



## EDUCATIONAL TOUR(CIVIL)

The Department of Civil Engineering organized an educational trip to various places to enrich the students and to take learning beyond the four walls of the classroom. The Second year students had an educational trip to Munnar and Wonderla Kochi from 20th to 23rd August, 2019. The Third year students visited Ooty, Bangalore and Coorg from 20th to 24th August, 2019 and the Final year students went to Delhi, Agra, Manali and Punjab from 20th to 24th August, 2019.

## NATIONAL LEVEL SYMPOSIUM (ECE)

The Department of Electronics and Communication Engineering organized a National Level Technical Symposium ESTONIEA19 on 22nd August, 2019. The Chief Guest Dr.P.Nagarajan, Professor & Vice Principal, DMI Engineering College, Aralvaimozhy explored ideas about the Global Industrial Scenario. The Head of Department Dr.L.Femila along with the Program Coordinator Dr.C.Emmy Prema and staff members successfully organized this event

22<sup>nd</sup> August, 2019



27<sup>th</sup> - 31<sup>st</sup> August, 2019



## EDUCATIONAL TOUR(AUTOMOBILE)

An educational tour to Mysore, Chikmangalore, and Coorg was organized by the Automobile Engineering from 27th to 31st August, 2019 for the Second and Third year students. This helped the students to interact, learn and understand the traditional cultures and lifestyle of South India especially the ancient temples and churches.

## MOTIVATIONAL PROGRAM(ISTE)

Indian Society for Technical Education (ISTE) of Bethlahem Institute of Engineering organized a Motivational Program on 27th August, 2019. In this program Chief Guest Shri.Kumari Athan (Tamil Writer cum Poet), St.Mary's Goretty H.S.S., Manalikai emphasized the students about successful goal setting and achievement. Prof.A.Arul Edwin Raj, Coordinator of ISTE Chapter along with the team of staff members arranged all the necessities to make the event a grand success.

27<sup>th</sup> August, 2019



28<sup>th</sup> - 31<sup>st</sup> August, 2019



## EDUCATIONAL TOUR(CSE & IT)

The Department of Computer Science and Engineering and Information Technology organized an Educational Tour for Final year students from 28th to 31st August, 2019. The students travelled to Mysore and Bangalore. Students experienced the lifestyle, culture, tradition, food habits and technological developments in these areas.

## EDUCATIONAL TOUR(CSE)

The Department of Computer Science and Engineering organized an Educational Tour for Second year students to Munnar and Wonderla Kochi from 29th to 31st August, 2019 to get relieved from their mental stress.

29<sup>th</sup> - 31<sup>st</sup> August,2019



29<sup>th</sup> August,2019



## MOTIVATIONAL PROGRAM(S&H)

The Department of Science of Humanities arranged a Motivational Talk for the First year students on “Traits for Triumph” on 29th August,2019.Prof.M.Sebastian (Retd.), Formerly HoD of English, Scott Christian College was the Resource person for the program. The session was highly inspirational for the budding graduates. The Head of Science and Humanities Prof.M.Saravanan together with the Program Coordinator Prof. C.Ahino and the staff members arranged all the necessities of the program.

## SYMPOSIUM(EEE)

The Department of Electrical and Electronics Engineering organized a National Level Technical Symposium FENESTRA 2K19 on 30th August, 2019 to gain innovative ideas on the current trends in Electrical and Electronics.The Chief Guest Er.C.Rajasekher, Executive Engineer, TANGEDCO, Nagercoil, spoke on the current scenario of power generation. This event was well organized by the Head of Department Prof.K.Christal Saji along with the Program Coordinator Prof.B.Sugad Singh and staff members.

30<sup>th</sup> August,2019



07<sup>th</sup> September,2019



## ONAM CELEBRATION

Onam is a time to show off the vast cultural heritage with much vigor. Onam Celebrations were held on 7th September, 2019 amidst great cheer with participation of students and staff of the college. An inter-departmental Athapookalam competition was hosted in the college premises which witnessed exciting response of participants. The Head of Science and Humanities Prof.M.Saravanan and Dr.D.P.Abhilash of Chemistry Department along with a team of staff members successfully organized this event.

## INDUSTRIAL VISIT (ECE)

The Department of Electronics and Communication Engineering organized an industrial visit to Kudankulam Nuclear Power Plant on 13th September, 2019 for the Second year M.E. Communication Systems students and Final year UG students. This visit provided more information about the types of nuclear reactor and types of generator used for generating electricity.

13<sup>th</sup> September, 2019



16<sup>th</sup> - 21<sup>st</sup> September, 2019



## ENTREPRENEURSHIP AWARENESS

Entrepreneurship Awareness Camp was conducted in collaboration with Entrepreneurship Development Institute of India, Ahmedabad from 16th to 21st September, 2019. The Resource Persons Mr. A.S.Harish, Managing Director, Sarangam Greens Pvt Ltd, Thiruvananthapuram and Mr.K.Hari Krishnan, Formerly Asst. General Manager (HR) HUDCO explained about the strategies to start entrepreneurship journey. The Program Coordinator Dr.L.Femila along with Coordinators Prof.G. Prabin Raja and Prof.P.Libin Jacob organized this event.

## DRUG AWARENESS PROGRAM

Drug Awareness Program was conducted to create awareness about the harmful effects of drug usage on 17th September, 2019. The Resource persons Mr.K.Hari Krishnan (Formerly Asst.Gen.Manager, HR, HUDCO) and Mr.A.S.Harish (Managing Director, Sarangam Green Pvt. Ltd.) created awareness on the ill-effects of drug consumption. The Program Coordinators Prof.S.Japdrew and Prof.D.Gladson of Mechanical Department together with a team of staff members arranged all the necessities of the program.

17<sup>th</sup> September, 2019



18<sup>th</sup> September, 2019



## SYMPOSIUM (MECHANICAL)

The Department of Mechanical Engineering organized a National Level Technical Symposium MECHANIZE 2K19 on 18th September, 2019. The Chief Guest Er. Jeyakumar Thomas, Group Head of RQA, Group of LPSC, ISRO motivated the students to learn the fundamentals and establish an inter-disciplinary collaboration among them. The Head of Department Prof.R.Jeya Raj along with the Program Coordinator Prof.I.Living Prephet and staff members organized this event.

## PG INAUGURATION

The Inauguration of First year PG Classes was held on 18th September, 2019. The program started with the invocation by Pastor Rev.Reginald Samuel. The Principal welcomed the gathering following which the Director delivered the Presidential address. The Director (Academics) gave a brief Introduction about the Academic activities. The Program Coordinator Prof.X.Roshan Xavier along with the organizing committee successfully organized the event.

18<sup>th</sup> September,2019



19<sup>th</sup> September,2019



## ANTI RAGGING AWARENESS

Anti-Ragging Awareness Program was conducted on 19th September, 2019 to promote Anti Ragging awareness among the students. The Chief Guest Mrs.K.Pon Devi talked about ragging and how important it is to be aware of the amendments and rules for living life in a better fashion. The Program Convenor Prof.M.Saravanan along with the Program Coordinator Prof.S.Biron Gifty and a team of staff members arranged all the necessities of the program.

## NATIONAL LEVEL SEMINAR(S&H)

The Department of Science and Humanities organized a National Level Seminar sponsored by Tamilnadu State Council for Science and Technology on 20th September, 2019. The Chief Guest Dr.C.Justin Dhana Raj(HoD of Chemistry Department, University College of Engineering, Nagercoil) briefed about the global environmental issues and its consequences. The Program Coordinator Dr.L.Femila, Convenor Prof.M.Saravanan and Coordinator Prof.A.Edwin Bright Singh together with the staff members organized the event.

20<sup>th</sup> September,2019



07<sup>th</sup> & 08<sup>th</sup> November,2019



## NATIONAL SEMINAR(EEE)

A National Level Seminar on Internet of Things (IOT) in Electrical Power Industry sponsored by Tamilnadu State Council for Science and Technology, Chennai was conducted on 7th and 8th of November, 2019. The Guest speakers Er.S.Emmel Jeba Singh, Assistant Executive Engineer, TANGEDCO and Er.P.Rejish Jose, Assistant Executive Engineer, TANGEDCO explained the importance of IoT in Electrical industries and its applications in various fields. The Program Coordinator Dr.L.Femila, HoD/ECE along with Co-Coordinator K.Christal Saji, HoD/EEE successfully organized this event.

## FACULTY DEVELOPMENT PROGRAM

Faculty Development Program for the faculty members was organized on 06th December, 2019. The Resource Person Mr.Jayaraman Umashankar, Trainer and Consultant explained the various professional challenges of the faculty. He also added how to analyze the present generation students, how to identify and evaluate them. The Program Coordinator Prof.M.Jegan Lal, HoD/Civil arranged all the necessities for the program.

06<sup>th</sup> December,2019



20<sup>th</sup> December,2019



## CHRISTMAS CAROL CONTEST

To spread the happiness and spirit of Christmas, an Inter-Departmental Christmas Carol Contest was held on 20th December, 2019. The participants from various departments put forth their enthralling performance. The competitors came up with such melodious voices which appealed the audience and judges. Teams vied with each other in presenting their carols, each one ushering in the Christmas spirit with gaiety and joy.

## CHRISTMAS DAY CELEBRATION

Soaking in the spirit of Christmas staffs and students celebrated the Christmas festival with enthusiasm on 21st December, 2019. The program began with the thanks giving and prayer to Lord Almighty by Pastor Rev.Robert and Pastor Rev.Reginald Samuel. The celebrations included a variety performance of the students. The Program Coordinators Prof.B.Sugad Singh of EEE Department and Prof.S.Austin Sweety of English Department along with a team of staff members successfully organized the event.

21<sup>st</sup> December,2019



13<sup>th</sup> - 20<sup>th</sup> January,2020



## NATIONAL SERVICE SCHEME

NSS unit of Bethlahem Institute of Engineering organized a special camp from 13th to 20th January, 2020. In this camp various activities such as Pongal celebration with orphanage inmates, planting trees, dengue awareness and plastic awareness took place. In the valedictory function, the Chief Guest Dr.Jayanthi, NSS Coordinator, Anna University Tirunelveli addressed the gathering. The Program Coordinator Prof.C.M.Edwin Thurai successfully organized the event.

## SOFTWARE TRAINING PROGRAM (CIVIL)

23<sup>rd</sup> Sept,2019 - 24<sup>th</sup> Jan,2020

The Civil Department successfully organized a Certified Software Training Program, ETABS (Extended Three Dimensional Analysis of Building Systems) for the M.E. Structural Engineering students. This value added Course from 23<sup>rd</sup> September, 2019 to 24<sup>th</sup> January, 2020 helped the students to complete the Analysis Software course along with their regular curriculum. All the registered students actively participated and completed the course successfully.



13<sup>th</sup>-24<sup>th</sup> January,2020



## EDUCATIONAL TOUR(MECH)

The Department of Mechanical Engineering organized an educational tour to Agra, Delhi, Amritsar and Manali from 13<sup>th</sup> to 24<sup>th</sup> January 2020 for the Final year students. The students experienced the Indian cultural richness and historical places.

## EDUCATIONAL TOUR(IV AUTOMOBILE)

An educational tour to Amritsar, Manali, Shimla and Agra was organized by the department of Automobile Engineering from 22<sup>nd</sup> to 31<sup>st</sup> January, 2020 for Final year students. The students learnt the traditional cultures and lifestyle of North India especially the ancient temples, wonders of India, historical places and India-Pakistan borders.

22<sup>nd</sup> - 31<sup>st</sup> January,2020



28<sup>th</sup> January,2020



## BLOOD DONATION CAMP

Youth Red Cross (YRC) of Bethlahem Institute of Engineering provides opportunities to the students to inculcate healthy living habits and to contribute their values for the upliftment of the society. YRC conducted a blood donation camp on 28<sup>th</sup> January, 2020. More than 100 students voluntarily donated their blood to GH, Headquarters Blood Bank, Padmanabhapuram.

## INDUSTRIAL VISIT(CSE & IT)

An industrial visit to Voxc Solutions and Priyadarshini Planetarium was organized by the Departments of Computer Science and Engineering and Information Technology on 31st January, 2020 for UG students. The visit inculcated the sense of inquiry and scientific temperament in the minds of the young Engineers.

31<sup>st</sup> January, 2020



31<sup>st</sup> January, 2020



## MOTIVATIONAL TALK (SCIENCE & HUMANITIES)

The Department of Science and Humanities organized a Motivational Talk under the title "Impact of Mobile Phone on Modern Youth" on 31st January, 2020. The Chief Guest Dr.A.D.Abel Bensam (Director-Neo Brain) spoke about the ill effects of mobile phone among the students. The Head of Science and Humanities Prof.M.Saravanan and Program Coordinator Prof.P.S.Abitha along with the staff members successfully organized the event.

## INDUSTRIAL VISIT(ECE)

An industrial visit to KELTRON was organized on 7th February, 2020 for II and III year students of ECE Department. This visit was very informative and innovative. Students learned a lot of information about circuit designing, assembling, controlling and testing. This was a good experience and enabled the students to understand more about the electronic circuits used in various applications.

07<sup>th</sup> February, 2020



## HIGHLIGHTS



Memorandum of Understanding  
with CADD Center



# University Rank Holders



D.V.SHERLY  
M.E. APPLIED ELECTRONICS



J.D.SREEJA  
M.E. POWER ELECTRONICS & DRIVES



C.S.ANCY  
M.E. APPLIED ELECTRONICS



P.BABITHA  
M.E. APPLIED ELECTRONICS

# ACHIEVERS IN DEPARTMENT

## B.E - AUTOMOBILE ENGINEERING

IV  
Y  
E  
A  
R



M.ALDAS



R.AGESH



G.JEBINTH

III  
Y  
E  
A  
R



C.ANTO RAJ



AADARSH



ANANDHU S KUMAR

II  
Y  
E  
A  
R



A.V.BERBIN



DANIEL OOMMEN



VIMAL ROSHAN WILFRED

Never stop fighting until you arrive at your destined place - that is, the unique you. Have an aim in life, continuously acquire knowledge, work hard, and have perseverance to realise the great life.

-A.P.J. Abdul Kalam

## B.E - CIVIL ENGINEERING

IV  
Y  
E  
A  
R  
A



D.AKILA



A.BUBBY JOY SHARON



T.DHANSHIYA

IV  
Y  
E  
A  
R  
B



S.MARY ASHA



REENU GEORGE



P.SUBI

III  
Y  
E  
A  
R  
A



S.ASHBIN JINI



P.S.BINISHA



V.S.ADERSH

III  
Y  
E  
A  
R  
B



S.HIMA



R.L.LEKHA



Y.S.JOSLIN SOWMI

II  
Y  
E  
A  
R



A.AJEERA



S.CARMEL SYRUS



S.SABANA FATHIMA



J.AJIMAL

Success is not final; failure is not fatal: It is the courage to continue that counts.

- Winston S. Churchill

## B.E - COMPUTER SCIENCE & ENGINEERING

IV  
Y  
E  
A  
R



A.ANCY



A.S.ABU THAHIR



J.ANSALIN FLOWER

III  
Y  
E  
A  
R



B.R.NIJU



S.K.ABILASH



A.V.BERBY

II  
Y  
E  
A  
R



V.ASHA JINCY



D.BEBISHA SHARON



B.ANUPAMA



RACHEL P SUNIL

Optimism is the faith that leads to achievement. Nothing can be done without hope and confidence.

- Helen Keller

## B.E - ELECTRONICS AND COMMUNICATION ENGINEERING

IV  
Y  
E  
A  
R



K.AFINA



PAVANYA J KUMAR



V.RAJAKUMARI

III  
Y  
E  
A  
R



S.FARZIAH FATHIMA



V.M.ABITHA



J.SHERLY

II  
Y  
E  
A  
R



C.EMI BENISHYA



J.LEVIN JENSON



M.MAKISHA

Our greatest weakness lies in giving up. The most certain way to succeed is always to try just one more time.

- Thomas A. Edison

## B.E - ELECTRICAL AND ELECTRONICS & ENGINEERING

IV  
Y  
E  
A  
R



C.MAYA



M.RAHUL



M.VIJAYA SALVU

III  
Y  
E  
A  
R



M.SHINY



J.BENO



D.JESTIN DHAYANANDHAN

II  
Y  
E  
A  
R



P.J.AMAL



A.ANTO SHERVIN



M.JENNU PRIYA

Everyone has inside of him a piece of good news. The good news is that you don't know how great you can be! How much you can love! What you can accomplish! And what your potential is!

- Anne Frank

## B.TECH - INFORMATION TECHNOLOGY

IV  
Y  
E  
A  
R



J.ANCILIN SHARMIYA



D.R.SONIYA RAJ



J.ABIN JILNA

III  
Y  
E  
A  
R



M.MANI MUTHARASI



M.ANGEL



R.ARIYA

II  
Y  
E  
A  
R



E.JISHA JINI



A.S.MONISHA



R.LENIN ROYAL

Cherish your visions and your dreams as they are the children of your soul, the blueprints of your ultimate achievements.

- Napoleon Hill

## B.E - MECHANICAL ENGINEERING

IV  
Y  
E  
A  
R  
A



B.ABINASH



GODWIN Y JACOB



J.JAYANTHU

IV  
Y  
E  
A  
R  
B



P.SHAJI



K.JOEL JEBIN



S.R.SUJIN

III  
Y  
E  
A  
R  
A



ASHISH VARGHESE



M.AJITH



M.S.ANISH

III  
Y  
E  
A  
R  
B



M.REANEYUS



A.P.PRASANTH



SANTO SAJI

II  
Y  
E  
A  
R



R.ANUSHANTH



W.BERGIN



J.JOBIN

The difference between what we do and what we are capable of doing would suffice to solve most of the world's problems.

- Mahatma Gandhi

## SCIENCE & HUMANITIES (FIRST YEAR)

C  
S  
E



R.S.ASHMI



E.SUBISHA



J.ANNLIN PRATHISHA

C  
I  
V  
I  
L



M.MINILA



NAVIN MATHEW M



S.ABINSHA

E  
C  
E



R.G.DEEPIKA



S.S.PRAYLIN JAGA



D.R.JERISHA



V.ABIMITHA

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E  
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A.ASHLIN



C.V.SHABITHA



G.JOHN ANIS MON

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S.SHEBIN PRABHA



N.SHINI MOL



A.BEENA JOHNICY

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ALAN TOM ASHOK



V.VIJO



B.NITHIN FERNANDO

## M.E - APPLIED ELECTRONICS

I  
I  
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C.V.ASHIKA JENY



K.P.SHIJI

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C.S.JENISHA



M.SHINY

Keep away from people who try to belittle your ambitions. Small people always do that, but the really great make you feel that you, too, can become great.

- Mark Twain

## M.E - COMMUNICATION SYSTEMS

I  
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A.JULIA STERLIN



N.L.NESALIN HEAVENLIA



V.K.ANCU



P.S.ABISHA



M.P.ARUNA

I  
Y  
E  
A  
R



J.BRISLIN



D.SAJITHA

## M.E - COMPUTER SCIENCE

II  
Y  
E  
A  
R



P.PRASEETHA



A.NINNYMOL

I  
Y  
E  
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R



V.AGNALIN



D.J.SHAJEEVA

Try not to become a man of success. Rather become a man of value.

- Albert Einstein

## M.E - MANUFACTURING ENGINEERING

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D.B.AJU



S.J.ABILASH



S.S.BRIFIN SANTHOSH

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I.S.SEFORAJ

We learn more by looking for the answer to a question and not finding it than we do from learning the answer itself.

- Lloyd Alexander

## M.E - POWER ELECTRONICS

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A.STEPHANO MARY



T.M.AJISHA JENIFER



J.M.BABISHA



J.S.BHARATHI PANDIYAN



M.ABISHA BASLIN

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J.JEKSHA



L.ASSIS LEO

## M.E - STRUCTURAL ENGINEERING

II  
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R



SHARMI G LIJI



S.K.ATHIRA



V.S.BERJESH

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Y  
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S.R.ANILA



R.SHAJILA

Success usually comes to those who are too busy to be looking for it.

- Henry David Thoreau

## ISTE CHAPTER BEST STUDENT AWARD



R.SRIPHA(IV CIVIL)





## ACCOLADES IN SPORTS AND GAMES

The college provides students with a range of opportunities to embrace challenges and learn from experience. Among the many curricular and co-curricular activities, sports and games develop sportive spirit and lay the foundation for the future. Students have excelled in sports and games held periodically. Students and staff brought laurels to the college by winning in various inter-collegiate tournaments. Here is a list of achievements made by the students and staff in sports.

In the Anna University Zonal Level Table Tennis Tournament held at Stella Mary's College of Engineering, Azhikkal, the Girls team secured III place and the Boys team won the runner up position.

In the Anna University Zonal Level Chess competition held at CSI Institute of Technology, Thovalai, the Girls team won III position.



Students actively participated in the Discuss throw organized by Anna University Zonal Level Tournament at Loyala Institute of Science and Technology, Thovalai and bagged II prize.



The Boys team secured III Place in the Anna University Zonal Level Badminton held at St.Xaviers Catholic College of Engineering, Chunkankadai.

In the Anna University Zonal Level Ball Badminton held at Scott Christian College, Nagercoil, the Boys team won II prize.



“IT’S NOT WHETHER YOU GET KNOCKED DOWN;  
IT’S WHETHER YOU GET UP.”

In the Anna University Zonal Level Athletic Meet held at Cape Institute of Engineering, Levingipuram, students participated in various athletic events and won II place in 110 Huddles and III place in 400mts Huddles .



Students participated in various athletic events conducted by Kanyakumari District Athletic Association held at Anna Stadium Nagercoil and won III Place in Triple Jump. In the Tamil Nadu College Premier League, the Boys team became the League Stage winners in the District.

The Boys team won quarter-final against Government Medical College, Tirunelveli in the Tamilnadu College Premier League. In the Tamilnadu College Premier League, the Boys team is qualified for semi-final held at Namakkal.



The Girls team unveiled their amazing performance in the Anna University Zonal Level Basket Ball held at Lord Jegannath College of Engineering, Kumarapuramthoppur. The Girls team also participated in the Anna University Zonal Level Badminton held at St.Xavier's College of Engineering, Chunkankadai. They also represented in the Anna University Zonal Level Volley Ball held at Rohini College of Engineering and Technology, Anjugramam.

In the 38th Tamil Nadu State Masters Athletic Championship-2019 Organized by Trichy District Masters Athletic Association held at Anna stadium, Khajamalai, Trichy Ms.M.Minimole, Physical Director won III Place in 800 mts Running Race and 4 x 100 mts Relay Race, and IV Place in 1500 mts Running and Triple Jump.



Bethlahem Institute of Engineering has witnessed tremendous feat in the field of sports. The college strives to bring in the top achievements and assure to earn more and more laurels in the years to come.



## அன்னை

கண்ணே மணியே என்று  
கண்ணின் மணிபோல் காத்து  
பொன்னே பொருளே என்று  
போற்றி போற்றி வளர்த்து  
எட்டிக்காயாய் நீ கசந்தாலும்  
கட்டுக் கரும்பென நினைத்து  
தொட்டுத் தழுவி தாலாட்டி  
பட்டு மேனியை சீராட்டி  
மொட்டுப் சிரிப்பில் தனை மறந்து  
ஊனும் உறக்கமும் தினம்  
மறந்து  
நம்மை காக்கும் தெய்வமடா  
அந்த தெய்வம் அன்னையடா , , ,



T. Aneesh  
IV EEE(2016-2020)

## എന്റെ അമ്മ

എന്റെ നാവിൽ നിന്നും ആദ്യമായി  
ഉരിവിട്ടരണ്ടക്ഷരമാണമ്മ  
അതു കേട്ട സന്തോഷത്താൽ  
മാറോടണച്ചെന്നെയമ്മ  
കഷ്ടങ്ങളെല്ലാം സഹിച്ചീടിലും  
വാത്സല്യപൂർവ്വം കൊണ്ടുമമ്മ  
എൻ രോഗത്താൽ വേദനകളെറീടിലും  
മനം നൊന്നുരുകിടുമെന്റെയമ്മ  
ഞാനൊന്നുറങ്ങുന്നനേരം വരെ  
കാവലിരുന്നീടുമെന്റെയമ്മ  
എന്നു വളർന്നീടുമെന്റെ കുഞ്ഞേ നീ  
എന്നെന്നോടു ചോദിക്കുമെന്റെയമ്മ



A.J. Annie  
IV IT(2016-2020)

## அன்னை

இறைக்கே இணையாகி வானிற்கு நிகராகி  
பேரன்பிற்கு இலக்கணமானவள் இவள்  
இரு ஐந்திங்கள் வலிதாங்கி  
மறுபிறவி கையில் எந்தி ஓர்  
உயிரை ஈன்றெடுக்கும்  
சுமை தாங்கி இவள்  
பெற்ற பிள்ளைக்குப் பெயர்ச்சூட்டி  
தாலாட்டி சோறூட்டி  
முடிசூட்டப் போராடும்  
மணிமகுடம் அணியா அரகி அவள்  
ஆம் அவள் தான் நம் அன்னை. . . .



S.A. Deepak  
IV ECE(2016-2020)



## GENERAL KNOWLEDGE

- Which bill is passed by the parliament to set up a unified authority to regulate all financial services in India?  
International financial services centre authority bill 2019
- Who becomes the youngest TIME's person of the year for 2019?  
Greta Thunberg
- Who won the (FICCI) Indian sports award 2019?  
Rani Rampal and Saurabh Chaudhary
- Who introduced the bill that seeks to grant citizenship to non-Muslim immigrant from neighbouring nations?  
Home Minister Amit Shah
- Which country has recently become the 6th biggest oil supplier to India surpassing Kuwait?  
United States
- Who will head the 3 members inquiry commission constituted by supreme court to inquire into the encounter killing of the four accused involved in the Hyderabad (Telegana) gang raped and murder case of a Veterinarian?  
V.S.Sirpurkar
- Who was appointed as the brand ambassador for food and Beverage Company, PepsiCo on December 11, 2019?  
Salmon Khan – Actor
- Who was crowned with Miss Universe 2019 during the 68th edition of the Miss Universe Pageant held in Atlanta, Georgia?  
Zozibini Tunzi
- Who was honoured with the Gangadhar National award 2019?  
Viswanath Prasad Tiwari
- Where did India launch Repay Card and 3 fish processing plants recently?  
Maldives



S.Sabana Fathima  
II Civil(2018-2022)



A.V.Berby  
III CSE(2017-2021)

### Q U O T E S

#### Friends

Best friends are like  
Mirrors and shadows  
Mirrors never lie  
Shadows never leave

#### Motivation

Accept your past without regret  
Handle your present with confidence  
Face your future without fear

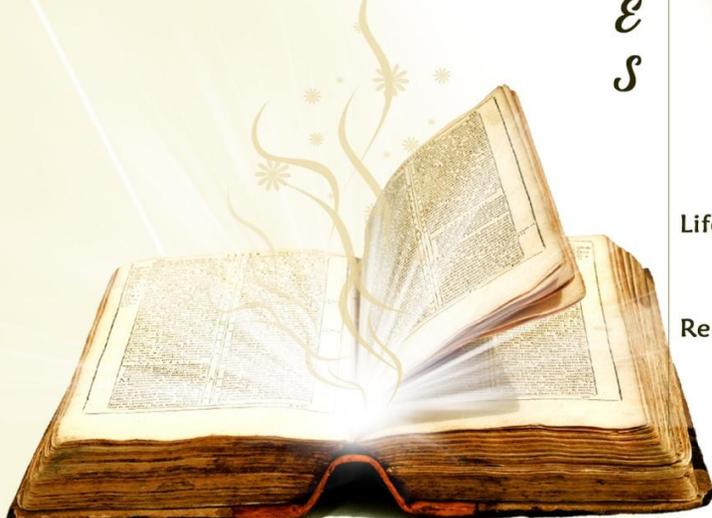
“Imagine your dream  
Create your happiness  
Live your life”

#### Life

When a life gives hundred reasons to cry  
The same life gives thousand reasons to smile

#### Relationship

The honest relationship is like a water,  
No color, No Shape  
but very important for life



# MONEY PAD FUTURE WALLET

Money in the 21st century will surely prove to be as different from the money of the current century as our money is from that of the previous century. Just as fiat replaced specie-backed paper currencies, electronically initiated debits and credits will become the dominant payment modes, creating the potential for private money to compete with government-issued currencies. Just as everything is getting under the shadow of “e” today we have paper currency being replaced by electronic money or e-cash.



A.Prenola Gipson  
IV ECE (2016-2020)

Hardly a day goes by without some mention in the financial press of new development in the “electronic money”. In the emerging field of electronic commerce, novel buzzwords like smartcards, online banking, digital cash and electronics checks are being used to discuss money. But how are these brand-new forms of payment secure? And most importantly, which of these emerging secure electronic money technologies will survive to next century?

These are some of the tough questions to answer but here’s a solution which provides a form of security of these modes of currency exchange using the “Biometrics Technology”. The Money Pad introduced here uses the biometrics technology for finger print recognition. Money Pad is a form of credit card or smart card, which we name so every time the user wants to access the Money Pad he has to make an impression of his fingers which will be scanned and matched with the one in the hard disk of data based server. If the finger print matches with the user he will be allowed to access and use the Money Pad otherwise it is not accessible. Thus providing a form of security to the ever-lasting transaction currency of the future “e-cash”.

Money Pad is a form of credit card or smart card similar to floppy disk, which is introduced to provide, secure e-cash transaction.



I have enhanced my leadership, interpersonal and communication skills in BloE. The faculty in BloE are well experienced, knowledgeable, friendly and supportive. What I have enjoyed most was the college library and canteen.

Well, my overall experience as an ECE student in BloE has literally been a life-changing experience, with growth in terms of academics and personal. I thank all the faculty who encouraged me for what I am now.

(2008 - 2012)

S.R.Sherly Mol  
Procurement Head (LPIE-Dept)  
Concorde-Corodex Group (CCG)

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# *New Year's Day A Holiday of New Beginnings*

New Year's Day officially begins as soon as people yell "Happy New Year" at midnight. Most people continue partying well after midnight into the wee hours of the first day of the new year. In fact, many New Year's parties include breakfast or brunch. Sometimes at the stroke of midnight there will be fireworks. One of the most famous New Year's celebrations takes place in New York City's Time Square, where a huge cut crystal ball drops at midnight in front of millions of people standing in the cold. Many more millions watch on television. Some groups, called Polar Bear Clubs, jump into the cold ocean water on New Year's Day as a literal way to start the new year fresh.

New Year's Day, January 1, is a national holiday in the United States. This means that schools, banks, government offices, and post offices are closed. Given how much people tend to drink alcohol on New Year's Eve, many people wake up on New Year's Day with a hangover. The national holiday is a good day to recover.

Many people go out partying with their friends on New Year's Eve; many people use New Year's Day to visit family members. New Year's Day is also when many people start on their New Year's resolutions. A resolution is a promise to change a lifestyle habit. The most common resolution is to lose weight. Many people also join gyms as part of their resolutions.



S.P.Aneesha  
IV ECE(2016-2020)

On New Year's Day there are also parades such as the famous Tournament of Roses Parade in Pasadena, California, where all the floats are made of different colored roses and they compete for awards. Many people also watch college and professional football games, including the Rose Bowl, which is also held in Pasadena, California.

## Easy vs Difficult

- Easy is to judge the mistake of others,  
Difficult is to recognize our own mistake.
- Easy is to hurt someone who loves you,  
Difficult is to heal the wound.
- Easy is to set rules,  
Difficult is to follow them.
- Easy is to dream every night,  
Difficult is to fight for a dream.
- Easy is to say we love,  
Difficult is to show it every day.
- Easy is to make mistake,  
Difficult is to learn from them.



J.Ebison Rose  
I CIVIL(2019-2023)



## JOKES

Pupil : "Would you punish me for something I didn't do?"

Teacher : " Of course not."

Pupil : "Good, because I haven't done my homework

Son : Mom, I want ten rupees to give to the poor.

Mother : Where is the poor?

Son : He is selling ice cream outside in scorching heat.

Teacher : The child who answers my question,I will let him go home.

One student immediately threw his bag outside the window.

Teacher : Who threw this bag?

Student : I did, and now I am going home.

Teacher : Give me a sentence starting with 'I'.

Student : I is.

Teacher : No, you must always say 'I am'.

Student : I am the ninth letter of the alphabet.

Friend 1 : Why was the stadium so cool?

Friend 2 : It was filled with fans.



R.Jasbin Vinisha

IV ECE(2016-2020)



C.Srikanth

III AUTO(2017-2021)



V.A.Domijiflin

III Auto(2017-2021)

## QUOTES

No one is perfect here – that's why pencils have eraser

It does not matter how slowly you go as long as you do not stop

Sometimes trying to prove yourself best is a great insult

Earn to live but never live to earn

A smart idiot is better however than a stupid genius

## விடாமுயற்சி

இந்த உலகில் பிறந்த அனைவரும் நாங்கள் ஈடுபடும் செயல்களில் வெற்றியைக் காணவேண்டும் என்று நினைப்பார்கள். ஆனால் அதற்காக முயற்சி செய்பவர்கள் ஒரு சிலரே. அதிலும் சிலபேர் ஒருசில தோல்வியை கண்டவுடன் தங்கள் முயற்சியை கைவிடுவார்கள். ஆனால் வெற்றி பெற்றசாதனையாளர்களின் வரலாற்றைப் பார்த்தால் அவர்களின் விடாமுயற்சியும் தன்னம்பிக்கையுமே அவர்களை சாதனையாளர்களாக மாற்றியது. பல சாதனையாளர்கள் பலரால் பயனில்லை என்று தூக்கியெறியப்பட்டவர்கள் ஆனால் அவர்களின் விடாமுயற்சியும் தன்னம்பிக்கையையும் அவர்களை கைவிடவில்லை. இந்த உலகில் அனைத்தையும் தெரிந்தவர்கள் யாருமில்லை. தங்களுக்கு பிடித்த ஆர்வமுள்ள துறைகளில் கவனம் செலுத்தி அதில் கடின முயற்சி செய்து சாதித்தார்கள். எனவே நமக்கு பிடித்த துறைகளில் கவனம் செலுத்தி விடாமுயற்சி மற்றும் தன்னம்பிக்கையுடன் செயல்பட்டால் அனைவரும் சாதனையாளர்களாக மாறலாம்.





D. Aslin Derik  
III ECE(2017-2021)



## Think Positively

Don't expect the best to happen every time  
But accept whatever happens as the best at the moment!  
Don't think you are nothing (or) everything  
But think confidently that you have the capability  
To achieve anything!  
Don't ask, why you are born  
But think that God is expecting  
Something from you which is not possible by  
Millions in the world  
Don't waste your time in worrying!  
Nobody can go back and start a new beginning  
But anyone can start today and achieve a new ending!  
Don't think you are fallen and impossible to rise  
But just see your goal, understand the obstacles  
In your way and create away for you  
Don't think you have to be great to start the one  
But think you have to start to be great,  
So think different, Stay on your tract to  
Show the world, who you are.....!

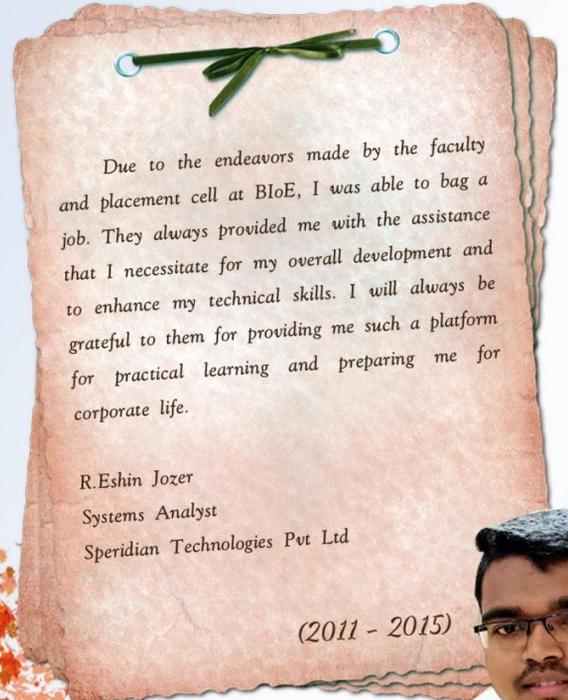


F.B. Alwin Berjis  
III CSE(2017-2021)

ARISE & SHINE

## உன் வாழ்க்கையில் நீ

எண்ணங்களை பெரிதாய் எண்ணு - அப்போது  
நீயும் பெரிதாய் எண்ணப்படுவாய்  
கிறுமையில் பெருமை வேண்டாம் - என்றும்  
பெருமையிலும் பொறுமை வேண்டும்  
வெற்றிக்கு என்றும் உண்டு தேர்ச்சி - அவ்  
வெற்றிக்கு உனக்கு வேண்டும் விடாமுயற்சி  
நல்லவனாயும் ஓமானியாயும் இருந்து விடாதே  
நல்லவன் என்றால் எளிதில் ஓமாற்றப்படுவாய்  
ஓமானி என்றால் எளிதில் வெறுக்கப்படுவாய்  
வாழ்க்கையில் உனக்குதான் தேவை துணை  
உன் வாழ்க்கைக்கு அல்ல  
பிறர் சொல்லை எளிதில் நம்பாதே - இங்கே  
சொல்லை காப்பாற்றுபவர் எவரும் இல்லை  
நெஞ்சில் நேர்மை வை  
செயலில் துணிச்சல் வை  
உன்மேல் நம்பிக்கை வை  
உன் வாழ்க்கை உன் கையில் . . .



Due to the endeavors made by the faculty and placement cell at BIoE, I was able to bag a job. They always provided me with the assistance that I necessitate for my overall development and to enhance my technical skills. I will always be grateful to them for providing me such a platform for practical learning and preparing me for corporate life.

R. Eshin Jozer  
Systems Analyst  
Speridian Technologies Pvt Ltd

(2011 - 2015)

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# THE HEALING TOUCH OF NATURE

Nature, you took away my sorrow,  
Like the sweet chirp of the sparrow;  
I greatly needed the healing leisure,  
Your cool shades gave gentle pleasure;

Your magnificence fills me with delight,  
And makes all my painful worries light;  
When I see the gorgeous petals bloom  
My heart leaps and dispels the gloom.

Mother Nature ! you make me so happy  
And now I am as brisk as a little puppy;  
When my heart rends with sorrows much,  
Find the cure only in nature's benign touch.

Find the balm in the green trees  
When you are stung by life's bees;  
You mesmerize us with your beauty  
And your full security is our duty.



R.S.Asmi  
I CSE(2019-2023)



## ആർദ്രമാം സ്വരം

എന്റെ സ്വപ്നങ്ങൾ കുഞ്ഞിച്ചിറകുകൾ വീശി  
അനുഭവങ്ങളുടെയും ആശങ്കകളുടെയും  
പുൽനാമ്പുകളിലൂടെ പറന്നുയരുകയാണ്.

കിനാവുകൾ ചേക്കേറിയ ഹൃദയാകാശത്തിൽ  
പ്രതീക്ഷയാം നിലാവെളിച്ചത്തിൽ  
മോഹപൂക്കൾ കാട്ടിയ വഴിയെ  
ഞാനെന്റെ ജീവതതോണി തുഴയുന്നു.

കണ്ട കിനാവുകൾ കൊഴിയുമെന്ന് കരുതിയ നേരം  
ഒരു പൊൻവെളിച്ചമായി എന്നുള്ളിൽ വന്നു നീ.  
ഞാൻ പോലും അറിയാതെ  
പുതു കനവുകൾ പുതുലോകം

പനിനീർ ദളങ്ങൾ പോലെ മൃദുവായ്  
വിടർന്ന കണ്ണുകളോടെ അയാൽ ചോദിച്ചു  
നീയെന്തേ തുളുമ്പാത്തു

എന്തേ പെയ്തൊഴിയാത്തു  
ഒരു കടലുല്ലോ കരഞ്ഞു തീർക്കാൻ  
പെയ്തൊഴിയു മനസ്സ് ശാന്തമാവട്ടെ

മിഴികൾ മെല്ലെ മൊഴിഞ്ഞു  
ഞാൻ പെയ്തുവെന്നാൽ നിനക്ക്  
വിതുമ്പാതിരിക്കാൻ ആവില്ല  
തേങ്ങി തേങ്ങി തളരാതിരിക്കാൻ ആവില്ല  
അലറി കരയാതിരിക്കാൻ ആവില്ല  
എനിക്കത് കാണാൻ വയ്യ  
നിന്റെ പുഞ്ചിരിയിൽ ആരെന്റെ ശാന്തത.



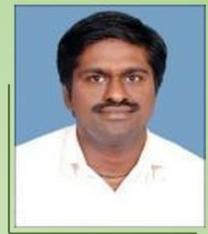
Lijin R Raj  
III ECE(2017-2021)

# POWER AND POWER ELECTRONICS IN INDIA'S ECONOMY GROWTH

Power is one of the most critical components of infrastructure crucial for the economic growth and welfare of nations. The existence and development of adequate infrastructure is essential for sustained growth of the Indian economy.

India's power sector is one of the most diversified in the world. Sources of power generation range from conventional sources such as coal, lignite, natural gas, oil, hydro and nuclear power to viable non-conventional sources such as wind, solar, agricultural and domestic waste.

In May 2018, India ranked 4th in the Asia Pacific region out of 25 nations on an index that measures their overall power. Total installed capacity of power stations in India stood at 356.82 GigaWatt (GW) as of May 2019.



J.S. Bharathi Pandian  
II ME PED(2018-2020)

## Government Initiatives

The Government of India has identified power sector as a key sector of focus so as to promote sustained industrial growth. Some initiatives by the Government of India to boost the Indian power sector:

- As of September 2018, a draft amendment to Electricity Act, 2003 has been introduced. It discusses setting up Smart Meter and Prepaid Meters along with regulations related to the same.
- Ujwal Discoms Assurance Yojana (UDAY) was launched by the Government of India to encourage operational and financial turnaround of State-owned Power Distribution Companies (DISCOMS), with an aim to reduce Aggregate Technical & Commercial (AT&C) losses to 15 percent by 2019.
- As of August 2018, the Ministry of New and Renewable Energy set solar power tariff caps at Rs 2.50 (US\$ 0.04) and Rs 2.68 (US\$ 0.04) unit for developers using domestic and imported solar cells and modules, respectively.
- The Government of India approved National Policy on Biofuels – 2018, the expected benefits of this policy are health benefits, cleaner environment, employment generation, reduced import dependency, boost to infrastructural investment in rural areas and additional income to farmers.

## Achievements

- India's rank jumped to 24 in 2018 from 137 in 2014 on World Bank's Ease of doing business - "Getting Electricity" ranking.
- Energy deficit reduced to 0.7 percent in 2018 from 4.2 percent in 2014.
- As of April 28, 2018, 100 percent village electrification achieved under Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY).

## The Road Ahead

The Government of India has released its roadmap to achieve 175 GW capacity in renewable energy by 2022, which includes 100 GW of solar power and 60 GW of wind power. The Union Government of India is preparing a 'rent a roof' policy for supporting its target of generating 40 GW of power through solar rooftop projects by 2022.

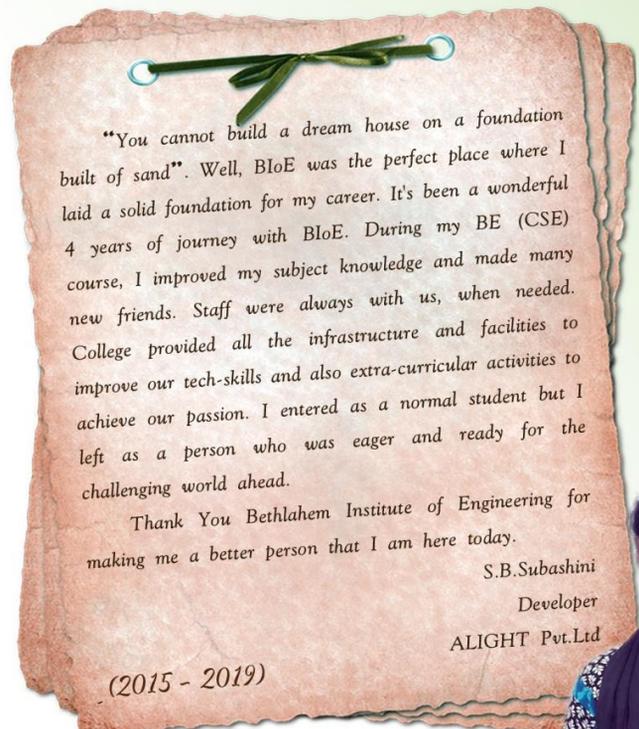
## THE UNFORGETTABLE DAYS

Life is Like the Cloud,  
Live before it disappear;  
The days we enjoy a lot,  
The days we really miss;  
The days we smile happily,  
The days we fight for no matter;  
No one can forget, those days  
Its our golden period of Life.



A.B. Alisha Alen  
IV ECE(2016-2020)

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# PUZZLES

1. There are 5 sisters in the room :

Ann is reading a book,  
Margaret is cooking,  
Kate is playing chess,  
Marie is doing laundry.

What is the 5th sister doing?

She is playing chess with Kate

2. What goes through cities and fields but never moves?

Road

3. What can you see once in a minute, twice in a moment, and never in a thousand years?

The letter "M"



J. Annlin Prathisha  
I CSE(2019-2023)

- R** 1) Which tire doesn't move when a car turns right?  
The spare tire
- J** 2) I'm not alive, but I have 5 fingers  
Who am I?  
A Glove
- D** 3) Which word is written incorrectly in a dictionary?  
Incorrectly
- D** 4) I have numbers on my face but I can't find 13 any place. Who am I?  
A Clock
- L** 5) I am small like a mouse but protect like a lion. Who am I?  
A Lock



K.V. Laalaa Lekshmi  
IV ECE(2016-2020)



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I studied in Bethlahem Institute of Engineering in 2014-2018 batch. I developed my skills with the enormous support my staff. Everyone supported very well to establish my talents. In the final year I developed my own project "Digital Ambulance System". It was one of the best projects in CSE Department and I was placed in Hinduja Global Solution Pvt Ltd through campus interview.

Now I am working as an IT manager in Maldives Five Star Resort. In this resort I am working as a Network Administrator and Security development officer. My study was very useful and helpful to my career. I am very proud to say I was a student of BloE. I thank to all staff who supported me during my career.

S. Stalin Jeofrey  
Network Admin  
Five Star Resort, Maldives

(2014 - 2018)



# GENERAL KNOWLEDGE

1. Who is the father of electricity and magnetism?  
Sir William Gilbert
2. Which country consumes the most electricity in the world?  
China
3. Which planet in the solar system rotates in clockwise direction?  
Venus
4. Which is the biggest Nuclear power plant in India?  
Tarapur
5. What color catches the eye first?  
Yellow
6. Which machine is called as rotating transformer?  
Induction motor
7. Who invented refrigerator?  
Oliver Evans
8. Which device is used to measure the power of a lens?  
Dioptre
9. Which network is used for Video conferencing?  
IP Network
10. Who was the first woman IAS officer in India?  
Anna George Malhotra



S. Benikha  
III EEE(2017-2021)



## HOW DOES ELECTRICITY BENEFITS OUR LIVES

Electricity can transform people's lives, not just economically but also socially.

Without electricity, our lives would be radically different. According to EIA (Environmental Impact Assessment) government, over 37% of retail sales of electricity are residential, making it the largest consuming sector. Before electricity, people cooled their faces with handled fans, stored in pantries and safes. Now a days people use refrigerators, freezers, rotating fans and cold water to keep the heat at bay, all thanks to electricity.

Since the 19th century, farmers have used electricity for grinders, threshers, and hay lifts. Now they use it for pretty much everything, including lights, fans and pumps. Electricity has changed cooking in a very dramatic way. From caveman days to the 19th century people had to cook meat with fire. Then came electric stoves, electric ovens. In their part, bakers depended on manual mixers to make dough because they didn't have cooking appliances. Ovens relied on firewood instead of electricity and stacked on a regular basis even if you massive dents in world hunger.

In the U.S. almost every job in the commercial sector, from retail and education to government and telecommunication, depends on electricity to keep its offices lit, heated and cooled. Just like in the residential sector, cooling and refrigeration are the main energy hogs for business, public and private. Together they account for almost 25 percent of commercial electricity.

The computer revolution was really another electrical revolution. Negligible amounts of electricity now allow whole libraries to flit across the whole instantly from one computer to another.



S. Benisha  
III EEE(2017-2021)

# THE SEARCH FOR MEANING

You don't have to be suicidal  
 To wonder if your life is worth living  
 You don't have to be or skid row  
 To feel that you're a loser  
 You don't have to be locked behind bars  
 To be imprisoned by your own desires  
 You don't have to be a prostitute  
 To sell your life to others  
 You don't have to be a play boy  
 To be preoccupied with sex  
 You don't have to be a drug addict  
 To exist on an artificial high  
 You don't have to be a millionaire  
 To be bought by the love money  
 You don't have to be psychotic  
 To run from the deeper issue of life  
 You don't have to be a garbage collector  
 To think that life stinks  
 You don't have to be drive BMW  
 To find joy in your possessions  
 You don't have to be homeless  
 To feel lost and out of place in the world  
 You don't have to be stupid  
 To misunderstand what life is all about  
 And You don't have to be a genius  
 To discover the real meaning of life



R.Chandralekha  
III CSE(2017-2021)



# My COLLEGE

My college is my church  
 It teaches me how to pray  
 My college is my parent  
 It loves and cares for me  
 My college is my pen  
 It writes love and moral in my heart  
 My college is my pencil  
 It draws my character  
 My college is my sharpener  
 It sharpens my knowledge  
 My college is my eraser  
 It erases evil from my heart  
 My college is my doctor  
 It cures my complexes  
 My college is everything  
 So, I love my college forever...



F.M.Nishalini  
IV CIVIL(2016-2020)

## സമയത്തിന്റെ നിഴലുകൾ

ഊതി കളഞ്ഞ നിമിഷങ്ങൾ  
 കാലിൽ കോർത്തു കിടപ്പുണ്ട്  
 വിലമതിക്കാതെ പോയ  
 വിലപിടിച്ചതൊക്കെയും വെറും  
 നിമിഷങ്ങൾ മാത്രമെന്നറിഞ്ഞപ്പോൾ  
 ദൂരവേറെ പിന്നിട്ടിരുന്നു.

പിൻ തിരിഞ്ഞ് നോക്കേണ്ടതില്ല  
 ചിന്തകൾക്ക് ഭാരവേറും  
 ആശ്വാസിക്കാം നാളെയുടെ  
 വില അറിഞ്ഞതോർത്ത്



C.Maya  
IV EEE(2016-2020)



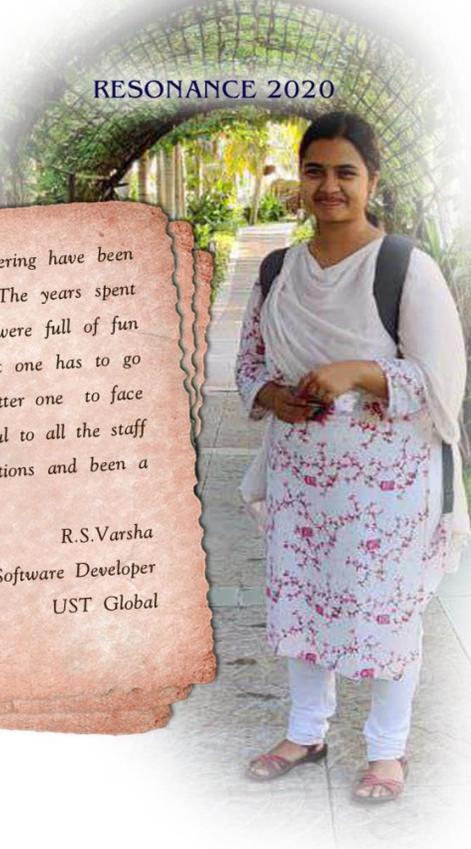
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My six years at Bethlahem Institute of Engineering have been excellent and a memory to cherish for a lifetime. The years spent here have been full of learning opportunities that were full of fun and frolic and sometimes with academic grind that one has to go through. The international exposure makes me a better one to face the challenges of the corporate world. I am thankful to all the staff members who have guided me to handle all situations and been a great part in the success of my life.

R.S.Varsha  
Software Developer  
UST Global

(2012 - 2016)



# RIDDLES

- Can you name three consecutive days without using the words Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, or Sunday?  
Yesterday, Today, and Tomorrow
- A boy was at a carnival and went to a booth where a man said to the boy, "If I write your exact weight on this piece of paper then you have to give me \$50, but if I cannot, I will pay you \$50." The boy looked around and saw no scale so he agrees, thinking no matter what the carry writes he'll just say he weighs more or less. In the end the boy ended up paying the man \$50. How did the man win the bet?  
The man did exactly as he said he would and wrote "your exact weight" on the paper
- There are 20 people in an empty square room. Each person has full sight of the entire room and everyone in it are without turning their his head or body, or moving in any way (other than the eyes). Where can you place an apple so that all but one person can see it?  
Place the apple on one person's head
- A bus driver was heading down a street in Colorado. He went right past a stop sign without stopping, he turned left where there was a "no left turn" sign, and he went the wrong way on a one-way street. Then he went on the left side of the road past a cop car. Still - he didn't break any traffic laws. Why not?  
He was walking...not driving
- What has many keys, but can't even open a single door?  
A piano
- Re-arrange the letters, O O U S W T D N E J R, to spell just one word. What is it?  
Just one word
- What is more useful when it is broken?  
An egg
- This is as light as a feather, yet no man can hold it for long. What am I?  
Your Breath
- I am white when I am dirty, and black when I am clean. What am I?  
A blackboard
- Before Mount Everest was discovered, what was the highest mountain on Earth?  
Mount Everest
- What goes up but never comes down?  
Age
- David's father has three sons : Snap, Crackle and \_\_\_ ?  
David
- What room do ghosts avoid?  
The living room
- What belongs to you, but other people use it more than you?  
Your name



B.R.Niju  
III CSE(2017-2021)





Rachelin Thomas  
III IT(2017-2021)

## CITY LIFE VS VILLAGE LIFE

Village life reflects the rural lifestyle and city life shows the urban lifestyle. One is quite different from the other. Traditionally, India is a predominantly rural country as Mahatma Gandhi had said, "The real India lives in villages". Life in these big cities is quite different from life in a village.

### The Facility of Education

In big cities, there are good arrangements for education. There are also a very large number of school both government and private in the big city. These arrangements do not exist in small towns and villages.

### Medical Facility

Cities also provide sufficient medical facilities. Almost in every city, there are good hospitals in which the poor get free medicines and treatment. Indeed lack of such medical arrangement is the main drawback of villages.

### The Opportunity of Employment

The most important advantages of cities are the availability of huge opportunity for employment. Persons with different qualifications can easily find jobs to suit them. In villages, employment is available mostly in farming.

### Mixed Culture

Cities are having a variety of people from various cultures. But real India and its customs are highly visible in villages.

### Natural Environment

It is a fact that villages are always natural due to be their self-creation by nature. On the other hand, most cities are manmade. Hence the natural environment of villages is their main attract.

### Population and Other Issues

In city, life is very costly. People have to live with a lot of pomp and show. A simple life as in the villages is almost impossible in the city. The sympathy and close interdependence which is marked in the village life is entirely lacking in the city.

### Conclusion

There are positive as well as negative aspects of both. I, myself, like to live in a village in the close vicinity of a modern city so that I can enjoy the pleasures both of the city and the village.

## MY SISTER



You are the one who was born to realise  
My long lasting wish for a sister !!!  
I feel jealous of you for the Love  
What You show me is greater than What I show you  
I have cried some days in thinking about  
The promise which I made to you that  
I won't let alone.....  
Think about the rain drops, you will understand  
How much I love you.....  
If you weren't born, my life would have gone armless  
You made my life meaningful  
Just a small distance has separated us, but  
We will be always held together by our love  
Always in your memories about me.....  
I Love My Sister.....



S.Abinsha  
I Civil(2019-2023)

# GENERAL KNOWLEDGE



K. Afina  
IV ECE(2016-2020)



- \* Which day is observed as International Mountain Day?  
December 11
- \* Which Bollywood actor has been selected for National Anti-Doping Agency (NADA) brand ambassador?  
Suniel Shetty
- \* 'Iron Union 12' military exercise is conducted between which two countries?  
USA and UAE
- \* From which country the first fully electronic flight in the world recently took off?  
Canada
- \* Which country has topped the medal tally of 13th South Asian Games-2019?  
India
- \* Which country is to be the partner country of India at the BioAsia-2020 conference?  
Switzerland
- \* In which city Union Ministry of Road Transport and Highways (MoRTH) has launched a pilot project for using FASTags for parking purposes?  
Hyderabad
- \* In which city was the 'Digital Exhibition on the History of the Constitution of India' held?  
New Delhi
- \* According to India Skill Report, which state has the highest employable talent?  
Maharashtra
- \* Which type of uniform has been made mandatory for paramilitary forces in India?  
Khadi

## QUOTES

1. "In order to write about life first you must live it"  
- Ernest Hemingway
2. "Nothing is impossible, the word itself says, 'I'm possible!'"  
- Audrey Hepburn
3. "The best way to predict the future is to create it"  
- Abraham Lincoln
4. "The way to get started is to quit talking and begin doing"  
- Walt Disney
5. "Life is what happens when you're busy making other plans"  
- John Lennon
6. "The best and most beautiful things in the world cannot be seen or even touched - they must be felt with the heart"  
- Helen Keller
7. "The future belongs to those who believe in the beauty of their dreams"  
- Eleanor Roosevelt
8. "If you can't feed a hundred people, then feed just one"  
- Mother Teresa
9. "I never dreamt about success, I worked for it"  
- Estee Lauder
10. "A room without books is like a body without a soul"  
- Marcus Tullius Cicero

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"Arise and Shine" is not just a slogan for Bethlahem but I lived it in reality. It gave countless opportunities to groom myself in analytical, leadership and practical thinking skills through various programs and events. Everyday morning choir and prayer section strengthened me mentally and spiritually. The Research and Development Department boosted my knowledge and showcased my projects in IIT level. It has been a great experience to be a part of Bethlahem. I am grateful to the Placement Department and the faculty of Mechanical department who offered me challenges and made me ready for the corporate world. Bethlahem helped me come out with flying colours.

N.Arun Nixon  
C&T Engineering pvt ltd.

(2014 - 2018)



M. Shiny  
III EEE(2017-2021)





I am a student of Power Electronics and Drives, M.E at Bethlahem Institute of Engineering.

The college is well equipped with good infrastructure, classroom, teachers, administrative staff, laboratories, libraries etc. The infrastructure and facilities available in the college are very good.

It's a ragging free campus. Our college is equipped with state-of-the-art laboratories. Our faculty are highly knowledgeable and intellectual. They are always obliging to help students and also encouraging them to pursue their aim in life. Faculty not only promotes academic excellence but also supports the student to take part in extra-curricular activities. Our college library is huge where I have read many books.

College is basically for fun and studies. All the staff guided us to execute all our activities excellently.

I just feel very proud to be a part of this college.

J.D.Sreeja  
Arsenalcorp Robotics Pvt Ltd,  
Cochin

(2017 - 2019)



## மனிதம் ஒன்றே தீர்வாகும்

மனிதா மனிதத்தை விட்டு நீ(னி) போனால்  
மதம் என்னும் முள் பிறக்கும்  
உன் மனதில் மனிதம் வந்தால் - யாவரும்  
ஓர் குலம் என்னும் மொழி பிறக்கும்  
நிறும் வேறு என நித்தம் நீ நினைத்தால்  
உன்னுள் ஓடும் இரத்தத்தின் நிறும் என்ன  
உலகில் வாழும் மனிதர்களோ கோடி - அம்  
மனிதர்களைப் பிரிக்கும் கோடுகளோ ஜாதி  
ஜாதி என்னும் கோடை அடித்து  
மதம் என்னும் முள்ளை அழித்து - ஓர்  
மனதாய் மனிதத்தில் இணைவோம் மனிதனாய்.



V.J.Ajith  
III ECE(2017-2021)



## QUOTES

Never waste the  
Time on thinking  
About the past or  
The future .  
Make use of that time  
Today to be the  
Best version of you...

It is better to be a  
FAILURE  
At something you  
LOVE  
Than to be a  
SUCCESS  
At something you  
HATE

I changed my  
THINKING  
It changed my  
LIFE

When everything seems to  
Be going against you,  
Remember that the airplane  
TAKES OFF  
Against the wind  
Not with it.....

Just because  
I moved on doesn't  
Mean I won't be  
here if you  
Change your mind  
You always have  
Special place  
In my heart.....

Without you  
Everything is  
The same but  
Still, I feel  
Empty and lonely  
I miss you and  
I wish I could  
Have you back.....

Yesterday is  
Dead and buried  
Tomorrow is not  
BORN yet  
So live for today  
And Be the Best  
As much as you can....



F.Samuel  
III Auto(2017-2021)

## எம் கல்லூரி நட்பு



S.Mohamed Riyaz  
IV ECE(2016-2020)



### அன்புள்ளம் கொண்ட அப்பா!

உணர்வுகளை மறைத்து வைக்க  
தெரிந்த ஒரே காரணத்தால்  
மாதா... பிதா... என்று பட்டியலில்  
இரண்டாவது இடத்திற்கு தள்ளப்பட்ட ஜீவன்...

மனைவி கரு சுமக்க துவங்கிய நாள் முதல்,  
தன் குழந்தை பற்றிய கனவுகளை  
சேமிக்கத் தொடங்கிய தந்தை...

மகளின் பிரிவிலும் மகனின் உயர்விலும்  
ஆனந்த கண்ணீரில் மனதுக்குள்ளேயே  
சுவத்தாடும் பாசமிக்க உயிர்...

மகனுக்கும் மகளுக்குக்கும்  
அவர்கள் சம்பாதிக்கும் வரை  
ATM ஆக இருப்பவர்...

அன்பை உள்ளே வைத்துக்கொண்டு  
வெளியே எதிரியைபோல் தெரியும்  
ஓர் உறவு அப்பா...

அனைவரும் தந்தையை நேசியுங்கள்,  
வெறுக்காதீர்கள் !



B.Mariyal  
I Civil(2019-2023)



A.S.Kiran  
IV AUTO(2016-2020)

எனக்கென்று நண்பர்கள் கிடைப்பார்கள்  
என்று கனவுடன் நுழைந்தேன்  
கல்லூரிக்குள் ....!

முதல்நாள் இங்கே உட்காரு என்று சொல்லி  
முதல் நட்பு கிடைக்க நாளடைவில்  
எனக்கில்லா நண்பர் சுவட்டம் இல்லை  
இந்த கல்லூரியில் . . . .

என் முகம் வாடி கிடக்க  
நான் இருக்கிறேன் உனக்காக  
என்று குரலே ஒன்று போதும்  
என் முகம் மலர. . .!

தினம் தினம் நமது கால்கள்  
ஒன்றுன்பின் ஒன்றாக நடக்கவே  
இன்பம் துன்பம் அனைத்தையும்  
பகிர்ந்தபடியே மெல்ல சென்றது  
கல்லூரி கால நாட்கள். . . !

இன்று கல்லூரி படிப்பு முடிந்தாலும்  
நம் நட்புக்கு முடிவு  
என்பதே இல்லை என்றும். . . !

தொடரட்டும் நம் நட்பு என்றென்றும். . . !!!

### கவிதை

என் காயத்திற்கு மருந்தும் நீயே  
காரணமும் நீயே

நீ பூசும் அன்பென்று மருந்திற்காக  
உன்னை கோபப்படுத்தி  
சொற்களால் காயமடைவதில்  
ஒருவித ஆனந்தம் எனக்கு ...

உன் மூச்சை  
மனத்தால் எனக்களித்தாய்  
என் உயிரை  
கண்களால் நீ எடுத்தாய்

# SCADA INDUSTRIAL AUTOMATION

## Industrial automation

It is the use of control systems, such as computers or robots, and information technologies for handling different processes and machineries in an industry to replace a human being. It is the second step beyond mechanization in the scope of industrialization.

## Advantages

- Higher production rates and increased productivity
- More efficient use of materials
- Better product quality
- Reduced factory lead times
- Worker safety is an important reason for automating an industrial operation



J. Levin Jenson  
II ECE(2018-2022)

## Types of automation industry tools

1. Supervisory Control and Data Acquisition (SCADA) – Find new ways to operate faster
2. Programmable Logic Controller (PLC) - Multiple input and output arrangement
3. Human Machine Interface (HMI) - Control industrial automation

## SCADA

Supervisory control and data acquisition (SCADA) is a system of software and hardware elements that allows industrial organizations to: Control industrial processes locally or at remote locations. Monitor, gather, and process real-time data.

## Use of SCADA

SCADA systems are used to monitor and control a plant or equipment in industries such as telecommunications, water and waste control, energy, oil and gas refining and transportation.

## SCADA Advantages

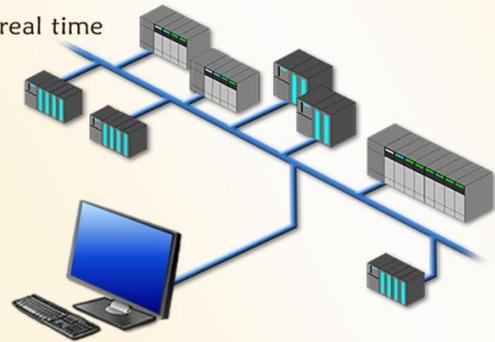
- A SCADA system when applied properly can help industries to save time and money
- One reason is that with SCADA, you can eliminate the need for site visits by your personnel for inspection, adjustments and data collection
- SCADA software enables you to monitor the operations in real time

## SCADA Applications

- Distribution Management
- Energy Management
- Power Plant Management
- Oil and Gas Distribution System

## BENEFITS OF USING SCADA

- It increased life of the equipment being used by through immediate knowledge of system performance
- Reduced labour costs required for troubleshooting or service



## RIDDLES



M. Ashwini  
IV ECE(2016-2020)

1. People buy me to eat, but never eat me. What am I?  
PLATE
2. We kill and we give life we are either poison or fruit you choose. What are we?  
WORDS
3. There are 12 fish in a bowl, but half of them are drowned. How many are left?  
Still 12 because fish don't drown
4. What has teeth but doesn't eat?  
A COMB
5. Which table does not have legs?  
VEGETABLES



## RIDDLES

1. I am full of holes ; I can hold water. What am I?  
Sponge
2. I have seas with no water ,coasts with no sand , towns without people and mountains with no land. What am I?  
A map
3. I am a box that holds keys without locks yet my keys can unlock your deepest senses. What am I?  
A piano
4. You can hold it without using your hands or your arms. What is it?  
Your breath
5. Two fathers and two sons are in a car, yet there are only three people in the car. How is this possible?  
They are grandfather, father and son
6. What goes up, but never comes down?  
Your age
7. Its so fragile even just saying its name can break it. What is it?  
Silence



A.Adlin Jacinth  
I CSE(2019-2023)

## என் கல்லூரி

அறிமுகம் இல்லா முகங்களை  
அறிமுகம் ஆக்கிய இடமே!  
தெரியாத முகங்களை  
நட்பாக்கிய இடமே!  
பல அனுபவங்களை சொல்லித்  
தந்ததும் நியே !!  
வாழ்க்கையில் பல முன்னேற்றங்களுக்கு  
அடித்தளமிட்டதும் நீயே!!  
நட்பு, உறவு, சொந்தம் மற்றும்  
காலத்தையும் தாண்டி  
நின்ற நினைவுகளை அள்ளித் தந்தாயே!!  
என் நினைவிருக்கும் வரை  
என் கல்லூரி நினைவும்  
என்னுள் இருக்கும்!!



M.Sugan  
IV Mech(2016-2020)

## QUOTES

A.P.J.Abdul Kalam

"Dream is not that which you see while sleeping it is something that does not let your sleep"

"One of the very important characteristics of a student is to question. Let the student ask the question"

Thomas Edison

"Vision without execution is a hallucination"

"Genius is one percentage inspiration and 99 percentage perspiration"

C.V.Raman

"Ask the right questions, and nature will open the doors to her secrets"

"Success can come to you by courageous devotion to the talk lying in front of you"

Marie Curie

"One never notices what has been done ;one can only see what remains to be done"

"Be less curious about people and more curious about ideas"

Isaac Newton

"If I have seen further than others , it is by standing upon the shoulders of giants"

"Tact is the art of making a point without making an enemy"



A.Abisha  
I IT(2019-2023)



- R # An old man who was born in the year 1948 quite recently celebrated his 17th birthday. How?  
 1 He was born on 29th February which occurs only in the leap year  
 2 # A snail is at 30 feet wall. Every hour the snail climbs 3 feet and backdown 2 feet. How many hours it takes to touch the top?  
 3 28 hours  
 4 # 12 Match sticks are lying in front of a person. One stick is removed. How he sees?  
 5 NINE  
 # The quick brown fox jumps over the lazy dog. What is so special about this famous line?  
 This sentence contains all of the letters of the alphabet  
 # Correct the equation?  $101-102=1$   
 $101-10^2=1$   
 # Can you guess the missing?  
 $\begin{matrix} 1 & 3 & 5 \\ 2 & 4 & ? \end{matrix}$   
 R (gear shift pattern)



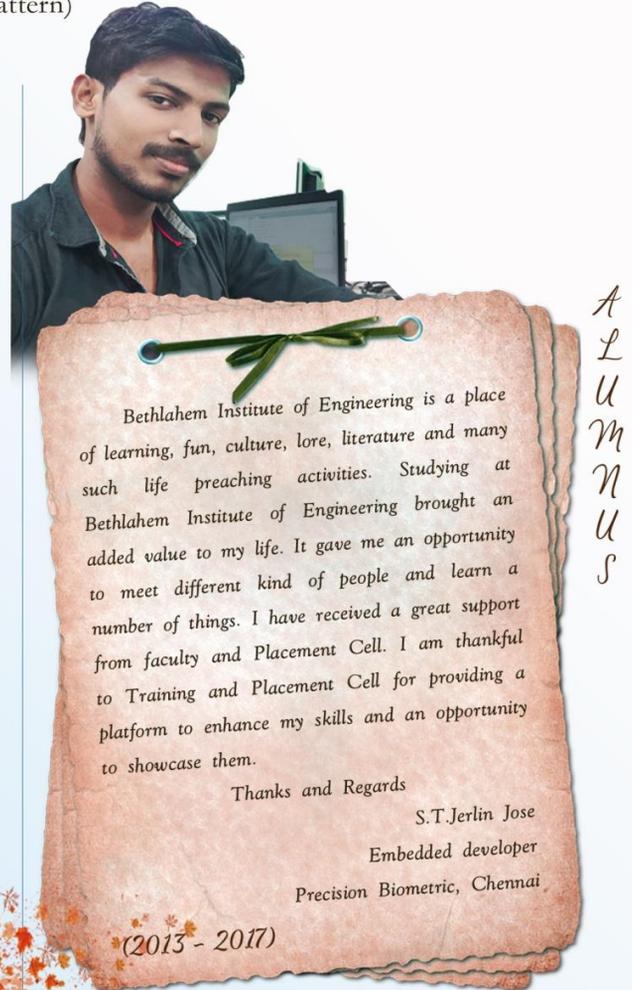
S.P. Adlin  
 III EEE(2017-2021)

## QUOTES

- ஆயிரம் கோடி தோண்டினாலும் கிடைக்காத தண்ணீர் நீ என்னை விட்டு ஓர் அடி சென்றதும் உருவானது என் கண்ணில் . . . . .
- நான் இறந்த பிறகும் என்னுடன் இருக்கின்றாய், என்னை பாதுகாக்கும் பூக்களாய் என் கல்லறையின் மீது . . .
- உன் அழகின் ரகசியம் இப்போது தான் தெரிகிறது, என்னைப் போன்றவரின் கண்ணீரில் எத்தனை முறை குளித்தாயோ!
- தேதியினை பார்த்ததும் அதனை கிழிக்க தோன்றவில்லை, அதனை ரசிக்க தோன்றுகிறது ஏனென்றால் நீ பிறந்த தேதி . . .
- ஆயிரம் மணி நேரம் கடந்து போனாலும் ஒரு நொடி என்னைவிட்டு கடக்கவில்லை. நீ பார்த்து சென்ற நேரம் மட்டும் . . .
- காதல் என்ற வார்த்தையை கேட்காத நான் இன்று காதல் புத்தகத்தை படித்துக் கொண்டிருக்கிறேன். உன்னால் பெண்ணே . . .
- நீ என்னை விட்டு சென்றதும் மிதந்து கொண்டிருந்தேன், மதுவில் அல்ல என் கண்ணீரில். . .



J. Jeyakannan  
 III Auto(2017-2021)



Bethlahem Institute of Engineering is a place of learning, fun, culture, lore, literature and many such life preaching activities. Studying at Bethlahem Institute of Engineering brought an added value to my life. It gave me an opportunity to meet different kind of people and learn a number of things. I have received a great support from faculty and Placement Cell. I am thankful to Training and Placement Cell for providing a platform to enhance my skills and an opportunity to showcase them.

Thanks and Regards

S.T.Jerlin Jose  
 Embedded developer  
 Precision Biometric, Chennai

(2013 - 2017)



# NATIONAL HIGHWAYS IN INDIA

ANDHRA PRADESH  
NH 4, NH 5, NH7, NH 9, NH 16, NH 18, NH 45,  
NH63, NH 202, NH 205, NH 214, NH 214A, NH 219,  
NH 221, NH 222.

ARUNACHAL PRADESH  
NH 52, NH 52A, NH 153

ASSAM  
NH 31, NH 36, NH 37, NH 38, NH 39, NH 44, NH 51,  
NH 52, NH 53, NH 54, NH 61, NH 62, NH 151, NH  
152, NH 153, NH 154

BIHAR  
NH 2, NH 19, NH 28, NH 30, NH 32, NH 57, NH 77,  
NH 80, NH 81, NH 82, NH 83, NH 84, NH 85, NH  
98, NH 99, NH 101, NH 102, NH 103, NH 105, NH  
106, NH 107, NH 110

CHANDIGARH  
NH 21

CHHATTISGARH  
NH 6, NH 12, NH 16, NH 43, NH 78, NH 200, NH  
202, NH 216, NH 217, NH 111, NH 221

DELHI  
NH 1, NH 2, NH 8, NH 10, NH 24

GOA  
NH 4A, NH 17, NH 17A

GUJARAT  
NH 6, NH 8, NH 14, NH 15, NH 59, NH 113

HARYANA  
NH 2, NH 8, NH 10, NH 21, NH 22, NH 64, NH 65,  
NH 71, NH 72, NH 73, NH 71B, NH 73A

HIMACHAL PRADESH  
NH 1A, NH 20 NH,21, NH 22, NH 70

JAMMU & KASHMIR  
NH 1A, NH 1B, NH 1C, NH 1D

MEGHALAYA  
NH 40, NH 44, NH 51, NH 62

MIZORAM  
NH 44A, NH 54, NH 150, NH 154

NAGALAND  
NH 36, NH 39, NH 61, NH 150, NH 155

ORISSA  
NH 5, NH 6, NH 23, NH 42, NH 43, NH 60, NH 75,  
NH 200, NH 201, NH 203, NH 215, NH 217, NH 224

PUDUCHERRY  
NH 45A, NH 66

PUNJAB  
NH 1, NH 10, NH 15, NH 20, NH 21, NH 22, NH 64,  
NH 70, NH 71, NH 72, NH 95

RAJASATHAN  
NH 3, NH 8, NH 11, NH 12, NH 14, NH 15, NH 65,  
NH 76, NH 79, NH 89, NH 90, NH 113, NH 112, NH  
114, NH 116

JHARKHAND  
NH 2, NH 6, NH 23, NH 31, NH 32, NH 33,  
NH 75, NH 78, NH 80, NH 98, NH 99, NH  
100

KARNATAKA  
NH 4, NH 4A, NH 7, NH 9, NH 13, NH 17,  
NH 48, NH 63, NH 67, NH 206, NH 207, NH  
209, NH 212, NH 218

KERALA  
NH 17, NH 47, NH 47A, NH 47C, NH 49, NH  
208, NH 212, NH 213, NH 220

MADHYA PRADESH  
NH 3, NH 7, NH 12, NH 12A, NH 25, NH 26,  
NH 26A, NH 27, NH 59, NH 69, NH 75, NH  
76, NH 78, NH 86, NH 92

MAHARASHTRA  
NH 3, NH 4, NH 6, NH 7, NH 8, NH 9, NH  
13, NH 16, NH 17, NH 50, NH 69, NH 204,  
NH 211

MANIPUR  
NH 39, NH 53, NH 150, NH 155

SIKKIM  
NH 31A

TAMILNADU  
NH 4, NH 5, NH 7, NH 45, NH 46, NH 47,  
NH 49, NH 66, NH 67, NH 68, NH 205, NH  
207, NH 208, NH 209, NH 210, NH 219, NH  
220, NH 226, NH 227

TRIPURA  
NH 44, NH 44A

UTTARAKHAND  
NH 58, NH 72, NH 73, NH 74, NH 87, NH  
94, NH 108, NH 109, NH 123, NH 119, NH  
121, NH 87

UTTAR PRADESH  
NH 2, NH 3, NH 7, NH 11, NH 19, NH 24,  
NH 25, NH 26, NH 27, NH 28, NH 29, NH  
56, NH 58, NH 73, NH 74, NH 75, NH 76,  
NH 86, NH 87, NH 91, NH 92, NH 93, NH  
96, NH 97, NH 119

WEST BENGAL  
NH 2, NH 6, NH 31, NH 32, NH 34, NH 35,  
NH 41, NH 55, NH 60, NH 80, NH 81, NH  
117



V.C. Jasbin Ruby  
II CIVIL(2018-2022)

A  
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M  
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S



Life is full of new beginnings. Graduation is a successful ending and an exciting beginning. This exciting beginning is a result of years called college life. Yes I graduated from Bethlahem. I never get tired of admiring the infrastructure of our college. Specially our staffs, they taught us not only syllabus but also about life. They gave us hope when we lost and they are our friends too.

The Bethlahem management always focusing on students growth and career. It is a fascinating panorama of enjoyment, freedom and friendship. Sweet memories and pleasures of college life are simply amazing. The first and the last day, group of friends, unexpected holidays, time spent in libraries, functions of curricular and extra-curricular make College life the most memorable and unforgettable part of life.

'College life' is that phase in one's life when one learns the most important lessons of life. I learnt a lot from my college. That gave me a successful ending and an exciting beginning of my career.

S.Brisilla

Software Engineer

MicrogenesisTechsoft Pvt Ltd, Bangalore

(2014 - 2018)



## கட்டிடக்கலை - அது மனித வலை

அக்கினி குஞ்சின மனிதனைக் கண்டேன் ...

அவனுக்கொரு பொத்தென கட்டிடம் அமைத்தேன் ...

மனிதன் உருக்கொண்டான் கட்டிடக்கலையால் ...

உலகம் வலுக்கொண்டது மனிதக்கலையால் ...

அன்று ஷாஜகானின் தாஜ்மஹால், கரிகாலனின் கல்லணை ...

இன்று விதிவிதமாய் அணைக்கட்டுகள், வான் முட்டும் கோபுரங்கள் ...

வண்ண வண்ண சாலைகள், மேகக்கவட்டம்போல் மேம்பாலங்கள் ...

பார்த்த இடமெல்லாம் கட்டிடப்பொறியியலின் கலை வண்ணங்கள் ...

கட்டிடக்கலையால் பிரகாசித்தது கட்டிடப்பொறியியல் ...

விண்மீன்களாய் பூத்து குலுங்குகின்றது நம் கட்டிடப்பொறியியல் ...

திறம்கொண்ட இளம் பொறியாளர் முதல் நல்

அறங்கொண்ட மூத்தோர்வரை கட்டிடக்கலை தித்திக்கிறது ...

மனிதன் வாழ்க்கையை பிணைத்துக்கொண்டான்

ஒரு அடியை வலைக்குள் ...

அந்த வலை இல்லையேல் மனிதனுக்கு இருப்பிடம் இல்லை ...

இருப்பிடத்திற்கு நண்பனாம் கட்டிடக்கலைஅது ...

மனிதனுக்கு ஒரு பெரிய வலை...



S.Berin

IV CIVIL(2016-2020)

## Kavithai



இருநூறு பக்க நோட்டீலும்  
ஐந்து ரூபாய் பேனாவிலும்  
எங்கள் நான்கு ஆண்டுகள்  
கழிந்தன . . . . . !

மூன்றுமணி நேர தேர்வு  
எங்களுக்கு முக்கால் மணி  
நேரம் தான் . . . . . !

முதல் பருவம் வந்தால்  
மூச்சிரைக்க படிப்போம்  
நான்காம் பருவம் வந்ததால்  
நாங்களும் கஜினி தான்  
பதினெட்டு பேப்பர் படையெடுத்து  
எழுதுவோம் . . . . . !

எங்கள் பேனாவும் போராடுகிறது  
பக்கத்தை நிரப்ப  
இப்படி யுத்தம் எல்லாம்  
நான்கு ஆண்டில் மொத்தமாய்  
முடிந்தது . . . . . !  
திரும்பி பார்க்க முடியாத பக்கங்களாக . . . . .



R.L.Lekha

III CIVIL(2017-2021)



## காலப்பயணம் சாத்தியமா ?...

காலம் தாண்டிய பயணம் குறித்து நாம் பலமுறை கேள்விப்பட்டிருப்போம். உண்மையில் காலத்தை தாண்டி பயணிப்பது சாத்தியமா? இதற்கு அறிவியல் மூலம் கூறப்படும் சில உண்மைகள் பற்றியும் மர்மங்கள் பற்றியும் நாம் பார்க்கலாம்.

ஒரு மனிதனை உதாரணத்துக்கு எடுத்துக்கிட்டோம்னா ஒரு மனுசன் ஒரு இடத்தை ஒரு பொருளை பார்க்கணும்னா முக்கியமா தேவைப்படுவது வெளிச்சம். வெளிச்சம் இல்லாம இருட்டில் இருந்தோம்னா கண்ணை தெரியாது. அது என்ன பொருள் என்றுகூட தெரியாது. வெளிச்சம் இருந்தாதாம் கண்டிப்பா தெரியும். வெளிச்சம் எப்படி வருதுண்ணா அது சூரியனில் இருந்தும் வருது. சூரியனில் இருந்து எப்படி வருதுண்ணு தெரியுமா? சூரியனிலிருந்து வரக்கூடிய ஒரு துகள். அந்த துகளோட பெயர் போட்டான் என்கிற ஒரு துகள். அந்த துகள் பூமியிலே வந்து விழுந்து அதன்மூலமா தான் வெளிச்சம் கிடைக்குது. அந்த வெளிச்சம் மூலமாதான் நாம் கண்ணால பார்க்க முடியுது. இந்த போட்டான் சூரியனில் இருந்து பூமியில் வந்து விழுகிறதற்கு குறைந்த பட்சம் 8 நிமிடம் 24 நொடிகள் ஆகும். அதேபோல ஒரு கால பயணம் செய்யனோன்னா இந்த போட்டான் துகளை விட வேகமா போகணும். அப்படி போனா கால பயணத்தை அடையலாம். அப்படிங்குகிறது தான் கால பயணத்தோட நோக்கம்.

இதை சொன்னது யாருன்னா 1905 ம் ஆண்டு என்கிறவர் ஒரு கோட்பாடு வெளியிட்டு இருக்காரு. இந்த கால பயணத்தைப் பற்றி ஒரு கோட்பாடு இருக்கு. இதன்படி நாம் செயல்படுத்தணும்னா போட்டான் துகளைவிட வேகமான ஒரு பாதையில் நம்ம பயணிச்சா இந்த காலப்பயணம் சாத்தியமாகும். அப்படிங்குகிறது அவர் சொன்ன விஷயம். வந்து எல்லோருடைய மனசிலேயும் ஒரு சந்தேகம். இது நடக்குமா? நடக்காதா? ஆனா இதுவரைக்கும் யாரும் செயல்படுத்தி பாத்தாங்களா, இல்லையான்னு தெரியாது. சில உதாரணம் இருக்கு. நிறையபேர் கால பயணத்தை செஞ்சிருக்காங்க அதுக்கு எடுத்துக்காட்டு நிறைய இருக்கு. அதில் ஒரு உதாரணம்தான் நான் உங்க முன்னாடி வைக்கிறேன்.

2008 - ம் வருடம் சீனாவில் நடந்த தொல்பொருள் ஆராய்ச்சியில் 'வாட்ச்' படிவத்தில் உள்ள மோதிரம் கிடைத்தது. அது தங்கத்தால் செய்யப்பட்டது. அது 400 வருடம் பழமையானதாகும். ஆனால் இப்போது நாம் பயன்படுத்தும் கடிகாரங்கள் கண்டுபிடிக்கப்பட்டே 100 வருடம்தான் ஆகும். 400 வருடம் பழமையான மோதிரம் இந்த வடிவத்தில் இருப்பது மர்மமான விஷயம்தான். இதுபோல அதிக எடுத்துக்காட்டுகள் இருந்தாலும் காலப்பயணம் என்பது எடுத்துக்காட்டாகவே உள்ளது. வருங்காலத்தில் முடிந்தால் சந்திப்போம் காலப்பயணத்தில். நன்றி வணக்கம்.



A. Angelin Ruth  
1 ECE(2019-2023)



# THE HISTORY AND IMPORTANCE OF CIVIL ENGINEERING

Engineers make the dreams come true by creating magnificent structures that amaze the world. Anon, a prolific writer, once wrote, "I'm an Engineer; I serve mankind by making dreams come true". Tracing back to 4000 B.C, civil engineering has revolutionized the life style of the entire world. The earliest practice of civil engineering commenced between 400 BC and 2000 BC, in ancient Egypt, Mesopotamia, etc. The constructions of pyramids in Egypt were some of the first instance of large structure construction. Until modern times there were no clear distinction between civil engineering and Architecture, as they had a little variation in occupation.

In 18th century, the term civil engineering was coined. In 1818 the institution of civil engineering was found in London. Later on, in India Thomason College of civil engineering was established by Lord Dalhousie in 1853. From then the number of civil engineers increased and so their importance in the society also had a progress. Civil engineers design, construct, supervise operate and maintain large construction projects like bridges, dam tunnels, roads, etc. and hence play a key part in all of these works. They develop and improve the service and facilities we use every day, from laying better pavements, constructing excellent buildings both for residential and official or commercial purpose and also recycling wastes to find solution to problems like pollution due to themassive construction.Hence civil engineers play an extremely important role in society and are responsible for maintaining the overall safety of the society.



S.Carmel Cyrus  
II CIVIL(2018-2022)

## HISTORY OF CIVIL ENGINEERING

History of civil engineering is a mirror of the history of human beings on this earth. Man used the old shelter caval to protect themselves of weather and used a tree trunk to cross the river which demonstration of civil engineering.

The National School of Bridge and Highways in France was the first engineering school. It was opened in 1747. The first self-proclaimed Civil Engineer was John Smeaton, who constructed the Eddy stone lighthouse in 1771. Smeaton and some of his collegous formed the Smeatonian Society of Civil Engineers.

The first private college to teach civil engineering in the United State was Norwich University, founded in 1819 by Captain Alden Partridge.

The department of civil engineering at the Indian Institute of Technology Roorkee is the oldest and largest in the country. It was established on October 19th, 1847 Roorkee College was renamed as the Thomas College in 1854.

Civil Engineering is a wide ranging profession, which includes several separate specialized sub-division. Its history is linked to knowledge of structure, geography, geogoly, soil and other field.



G.Aswin  
II Civil(2018-2022)

# HEAL THE WORLD A TRIBUTE TO A LEGEND

Dubbed the king of pop singer song writer Michael Jackson was born in Gary, Indiana on August 29, 1958. As a child, he was a leading singer of Jackson's family's popular Motown group. Michael Jackson became one of the most internationally famous award winning solo pop sensations till date. His 2009 death stirred controversy and was ruled an accidental overdose.

However his controversial death, his life, his songs and his indomitable spirit as a performer touched the hearts of million around the world and made him a true global star of the millennia. He was truly a fighter, admitted to have had a rough childhood, incidents of abuse by a disciplinarian father, that harbored the insecurities and child like behavior persisted throughout the life of this performing genius, it is hard to believe that a man who as a child vomited at the sight of his father, could inspire and provide solace to the heart of millions through his music.

Later into his career he was diagnosed with vitiligo, a disease that causes discoloration of skin pigments, and also got into allegations of child molestation and sexual abuse. It was a declining time of his career, and it was through this troubled times that he fought back, performing for his final performance tour "THIS IS IT" that an overdose of propofol took him away to the next world.

One of the most successful singer-performers of all time the legacy of Michael Jackson continues to live on through his work, his love for life and charity, Michael Jackson's impact can be really understood from the fact that the revenue generated by him, his music and his life, after his death, has amounted to a several billion dollars.

No tribute to Michael Jackson is complete without mentioning the "THRILLER" (1982), which generated seven Top 10 hits. On a television special, Jackson performed "Billie Jean"-eventually a hit and debuted him soon to be famous dance move called "The Moonwalk." Jackson, a veteran performer by this time, created this step by himself and choreographed the dance sequences for the video of his other hit "Beat it". And the video for "THRILLER" became immensely popular, boosting sales for the already successful album. It stayed on the charts for 80 weeks, holding the top position for 37 weeks. In addition to its unparalleled commercial achievements, "Thriller" earned 12 Grammy Award nominations and won eight of those awards.



Libin thankachan  
IV CIVIL(2016-2020)

His other well-known songs include - Heal the World, Black or White, and They Don't Care About Us.

He will always be remembered as the king of pop...  
R.I.P



## தொடும் தூரம் இமயம்

இலட்சியம் என்பது கண்ணில் தோன்றி  
கனவில் மறைவதில்லை மாறாக  
மனதில் தோன்றி வாழ்நாள் முழுவதும்  
நிலைத்திருப்பதும்-அது நிறைவேறவில்லை  
என்றால் வலிகொடுப்பதும்சுட  
ரோஜா மலரை பறிக்க நினைத்தால்  
அதன் முட்கள் ஒரு பொருட்டல்ல அதுபோல்  
சாதனை என்னும் இமயத்தொட  
தூரம் ஒரு பாரமல்ல !

தோழா நீ  
சாதிக்க வேண்டும் என்று நினைக்கிறாய் !  
ஆனால் ஏன் . . . தயங்குகிறாய்?  
காலம் தவறி விட்டது என கலங்குகிறாயா ?  
வாய்ப்பு கிடைக்கவில்லை என வருந்துகிறாயா?  
காலம் தவறினால் கலங்காதே  
வாய்ப்பு கிடைக்கவில்லை என்றால் வருந்தாதே  
நீ சாதிக்க பிறந்தவன் ! உன்  
முன்னால் இருக்கும் நாட்களை உபயோகப்படுத்து.  
சாதிக்க துடிக்கும் உனக்கு அச்சம் எதற்கு?  
அச்சம் தவிர்ந்து தைரியம் வளர்த்து பாரதியின்  
“அச்சமில்லை” பாடலை நினைவில் கொண்டிரு !  
தோல்வி விலகிடும் அச்சம் பயந்தோடும்  
வெற்றி உன்னை தேடி வரும் !

வாழ்க்கை என்பது ஒரு தேடல்  
அதை வாழ்ந்து பார் . . .  
அந்தத் தேடலில் சாதனை என்னும்  
இமயம் தொட யாவருக்கும் ஆசை உண்டு  
இலட்சியம் இல்லா வாழ்வு  
துவாரம் உள்ள பாணையில் நீர் நிறைப்பது போல...!  
வெற்றி என்ற பொன்னைத் திருட  
தன்னம்பிக்கை என்னும் திறவுகோல் அவசியமே !  
தன்னம்பிக்கை என்னும் நார் மட்டும்  
நம் கையில் இருந்தால்  
உதிர்ந்த பூக்கள் சூட ஒவ்வொன்றாக  
வந்து ஓடிக்கொள்ளும்  
அந்த பூக்களே!  
நானை உன் வெற்றிக்கு மலையாகும்  
எனவே தோழா,  
'தன்னம்பிக்கை' என்னும் சிறகை விரித்து  
'சாதனை' என்னும் விண்ணில் பறந்திடு  
நீ கண்ட இலட்சியங்களுடன்  
உலகமே உன்னை அண்ணாரந்து பார்க்கும்  
வெற்றி உனதே !



S.Nishanthini  
IV CSE(2016-2020)



காலங்கள் கடந்த பின்  
உணர்கின்ற ஒன்று தான் அன்பு  
அந்த அன்பினை பெறுவதற்கு தான்  
இங்கு போராட்டம் நடக்கின்றது  
ஆம், ஆதியிலேயே நம் வள்ளுவன்  
நமக்கு அன்புடையார் என்று சுவறி  
அன்பின் ஆழத்தை காட்டினார்.  
ஒருவனிடம் உழைப்பு, திறமை, அறிவு  
என்று எல்லாம் இருந்தாலும்  
அவனிடம் அன்பு என்ற ஒன்று இல்லை  
என்றால் அவன் வாழ்ந்தும் பயனில்லை  
அவனிடம் மனிதத்துவம் இருக்காது  
அன்பு பிறக்கும் இடம்  
நம் பெற்றோரிடத்தில் தான்  
அனால் நாம் அதனை  
விட்டுவிட்டு மாயை ஒன்றின் பின்  
ஓடிக்கொண்டிருக்கிறோம்  
மாயை ஒரு கண்கட்டி வித்தை  
அது எந்நொடியிலும் மாறலாம்  
ஆனால் உண்மை (அன்பு)  
என்றும் மாற்ற முடியாதது  
அதற்கு அழிவு இல்லை  
அதுவே நிரந்தர அன்பு  
மாயை அன்பில் இருந்தால்,  
நிரந்தர அன்பு என்பது  
காலங்கள் கடந்தபின் தான்  
உணரப்படுகின்றது  
காலங்கள் கடந்து பயனில்லை  
இனிதே உணர்ந்து  
செயல்படு நன்பா



I.Prabhudhas  
IV CIVIL (2016-2020)

## പുഴ നിറഞ്ഞപ്പോൾ

നീർ വറ്റി നിന്നൊരു കൺതടങ്ങളിൽ  
 വീണ്ടും പേമാരിതൻ  
 ഓളപ്പാച്ചിലോടീടവേ  
 അതിരുകു കറയറ്റു ആർത്തിരമ്പി നീ  
 എങ്ങുപോകുന്നുണൊരൻ പുണ്യമേ  
 കൂലം മറന്നു നീ- ഓളം മറന്നു നീ...  
 യിതൻ തിന്നു തീർത്തൊരാ. . . . .  
 മോഹങ്ങൾ മറന്നു നീ  
 ആടിത്തിമിർക്കുന്നു നിൻ തിരുമെയ്യിലെ  
 കുഞ്ഞോളങ്ങളിലെ  
 ഒരു നീർകുമിളയായി നിന്നിലെ  
 സന്തോഷ സ്വസ്തസഞ്ചാരങ്ങളിൽ  
 ഒരു മാത്രയെങ്കിലും പങ്കു ചേരാൻ  
 ആശിച്ചു പോകുന്നു....  
 ഒരായിരം വട്ടം കാണുന്നു ഞാനെന്റെ  
 ഓർമതൻ അകത്തളങ്ങളിൽ  
 പുണവതീ നിൻ  
 ആത്മസാക്ഷാത്കാരം തൃസ്തി  
 ചേരുന്നു ഞാനുമാ ആനന്ദത്തിമിർപ്പിൽ  
 ആർത്തിരമ്പലിൻ വിജയപാതയിൽ



A.Ajeera

II CIVIL(2018-2022)

## Technical Quotes

The world is very different now. For man holds in his mortal hands the power to abolish all forms of human poverty, and all forms of human life.

John F. Kennedy-

The new electronic independence recreates the world in the image of a global village.

Marshall McLuhan-

Technology is just a tool. In terms of getting the kids working together and motivating them, the teacher is the most important.

Bill Gates-



R.L.Remya  
 IV ECE(2016-2020)

For a successful technology, reality must take precedence over public relations, for Nature cannot be fooled.

Richard P. Feynman-

One machine can do the work of fifty ordinary men. No machine can do the work of one extraordinary man.

Elbert Hubbard-

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I am very grateful to the management and staff of Bethlahem Institute of Engineering, Karungal for their tireless effort to ensure a bright and prosperous career for us. They have always been with us all the times, when needed. Overall BIOE helped me mature into a skilled individual possessing requisite technical and soft skills to excel in the Corporate World.

During my study period I found the college to be the best for me as the staffs were able to deliver the best of education. Staff members were always ready to help in the form of extra classes and extra hours for below average students. Every tests and practical's helped me to improve my technical knowledge in civil engineering and made a strong base in the present industry.

Now, I am pursuing my Project Engineering and Management Post Graduation Programme in National Institute of Construction Management and Research (NICMAR), Hyderabad.

I am happy to recommend everyone whoever is planning to make their future with Bethlahem Institute of Engineering, Karungal

(2014 - 2018)

Christy George Abraham



# “THE HAPPINESS”

Happiness is the most important thing in our life. How many people are really happy in their life? In my point of view only very few people can say they are happy with their lives. Sure things are not

Perfect but I do best I can with those things, it's called life. You can be miserable or you can be happy. the reason doesn't matter the result do. When you are happy, everything works better. Your problems get resolved or they no longer have a negative effect on you. Reduce anger, have less stress and confusion. Have better patience and self control. Utilize Wisdom, create inner Peace, Enhanced relationship. Enjoy your life while enriching others with your happiness.

Let me tell an Interesting story, once upon a time The king and his minister were walking through a village to know how the people are living. The king looked around and saw that in every home each members in the family was fighting with each other and none of them was happy. The king was sad and he turned around and saw a family .The king was very happy and asked to the minister “see all the other families are fighting and arguing with each other but this family is so happy and they are helping each other, why? The minister smiled and replied to the king's question. “Your majesty they are happy because they are not in the 99 club”. The king was wondered and again asked “99 club!!! What do you mean by that? Minister replied, “your majesty please give me 99 gold coins and I will show you they will be like the other families within six months”. The king gave a bag of 99 gold coins and they left the village. On the next day morning the farmer woke up and found a bag of gold coins in front of the house. He wondered and excited as he had never seen a single gold coin in his entire life. He took that bag and ran to the room and started to count the coins. He found 99 gold coins. He was not satisfied with his counting he started to count again and again but still the result was 99. He called his wife and asked her to count the coins, still only 99 gold coins were there. The farmer got angry and said to wife “you fool you don't know how to count I will try with my son”. He called his son to count the coins at this time also the answer was 99. The farmer became very sad and complained. Why that stranger had left this bag with only 99 coins?

Why couldn't he fill this bag with 100 gold coins? Now this farmer decided to work hard for one gold coin to make the bag as 100. He started to work hard and every evening he counted his gold coins, but the result was same every day. The wife of the farmer decided to take two coins from the bag to do shopping without knowing her husband, she stole the coins and did some shopping. The son took two coins from the bag. On the day farmer returned his home and started to count, only ninety five coins were remaining”. The farmer lost his controll and shouted at his wife and son.”I was working hard and made my blood as sweat to increase this coins to hundred and both of you stole the coins” he continued his fight. which was getting longer. After six months the king and his minister again came for a walk and saw that the farmers family was unhappy and argued with each other like other family. The king asked the minister “six months before they were so happy and now they are fighting each other why.?” The minister again smiled and replied, “your majesty now they are on 99 club”. The minister explained the story about the 99 gold coins to the king. The King smiled and left the place.

The theme of this story says that, we should satisfy with what we have now and utilize that as our happiness. Accept the situation and be happy always. Don't think that I will become happy after some years or something like that. So dear friends enjoy your life while enriching others with your happiness. Learn to use happiness to make a positive difference in your life and in the life of others. After all simply love each other.

“BE HAPPY ALWAYS.  
YOU NEVER KNOW  
HOW MUCH  
TIME YOU HAVE LEFT”



P.J. Amal

II EEE(2018-2022)

# QUOTES

Dont read success stories "you will get only message", read failure stories "you will get some ideas to get success"

- A.P.J.Abdul Kalam

Some are born great, some achieve greatness, and some have greatness thrust upon them.

-William Shakesphere

Your best success comes after your greatest disappointment

- A.R.Rahman

A person who never made a mistake, never tried anything new

- Albert Einstein

Live as if you were to die Tomorrow, Learn as if you were to live forever

- Mahatma Gandhiji

Quiet people have the loudest mind

- Stephen Hawking

If you judge people, you have no time to love them, If you want to change the world ,Go home and Love your family"

- Mother Teresa

If you have a garden and a Library,you have everything you need

- Marcas Tullius

Cicero



P.Babin Nivya  
1 year(2019-2023)

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My sweetest moments in bethlahem.....

Dear All!!!

The sprawling campus of BloE was one of the wonderful environments that makes our studies joyful. The staffs were well dedicated and experienced people who always gave us the best of their knowledge.

I need to mention about the facilities of BloE, in particular which I never found in any other colleges. The well-equipped laboratory is one of the major reasons behind our success in our field. The laboratory lags nothing good and the equipment are always in a good condition and whenever we were facing any troubles in our Theoretical studies, we used to pay a visit to the laboratory and confirms with the limitations that needs to be done which made us to gain more practical knowledge. Bethlahem is the campus that is wonderfully filled with encouragement and whenever we loose our hope our staffs used to boost us by filling with more confidence.

At present I am working as an Engineer in a Construction Company, UAE. When I entered my job I felt how am I going to face the working environment, but within one week I felt thankful to Lord Almighty for giving a chance to learn in such a best Engineering College. In that aspect I must be very thankful to BloE.

With regards,

Minu Honeyla Das  
Office Engineer  
Horizon Contracting,UAE

(2011 - 2015)

## கல்வி கற்க முக்கிய தேவை

கல்வி கற்க முக்கிய தேவை என்ன? என்ற கேள்வி என் மனதில் எழுந்தது. அப்பொழுது கீழேயுள்ள பாயிரம் என் வாசிப்பில் கிடைத்தது.

"களிமடி மானி காயி கள்வன்  
பிணிய நேழை பிணக்கன் சினத்தன்  
துயில்வோன் மந்தன் தொன்னூற் கஞ்சித்  
தடுமா றுளந்தன் தறுகணன் பாவி

பழறனின் னோர்க்குப் பகரார் நூலே"

கள் குடிப்பவன், சோம்பேறி, தான் என்ற அகங்காரம் அல்லது செருக்கு மிகுந்த பாலுணர்வும் காமமும் உள்ள குணமுடையவன். திருட்டு குணம், வறுமையிலுள்ளவன், மாறுபாடுடைய பேச்சு கொண்டவன் மிகுந்த கோபம் கொள்பவன், மிகுதியாக தூங்குபவன் ஆகிய தன்மையுடையோர்கள் கல்வி கற்றுக்கொள்ள தகுதியில் லாதவர்கள் என்று கருதப்படுகிறது.

மேலே உள்ள பாயிரத்தில் வரும் 'ஏழை' என்ற சொல்லை மட்டும் எடுத்துக்கொண்டால் அறிவில்லாதவர்கள் என்றும் பொருளில்லாதவன் என்றும் உரைக்கப்பட்டது. எனவே பொருள் வசதி இல்லாத சாப்பிட வகையில்லாத ஏழைக்கு மனம் ஒரு நிலையில் நில்லாது என்பதால் கல்விக்கு உதவான் என்று சொல்லப்பட்டது.

"முதல் பள்ளமே நிரம்பாத போது  
மூன்றாம் பள்ளம் நிறைவது எது?"

எனவே கல்வி கற்க முக்கியத் தேவை "வயிறு" நிரம்ப வேண்டும். வயிறு நிரம்பினால் கல்வி கற்றலில் மனம் முழுமையாக ஈடுபடும். கல்வி கற்றவன் அன்போடும் பண்போடும் பகுத்தறிந்து பழக முடியும். கல்வியும், அன்பும்,பண்பும் சிறந்தால் நல்ல சமுதாயம் உருவாகும்.

"பண்புடையார்ப் பட்டுண் டுலகம், அது இன்றேல்  
மாண்புக்கு மாய்வது மன்". - (குறள் 996)



M.R.Sree Kuttan  
IV year(2016-2020)

# PUZZLE

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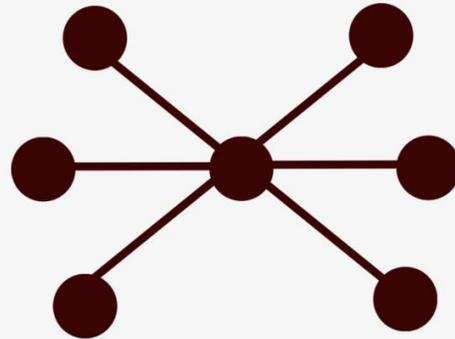
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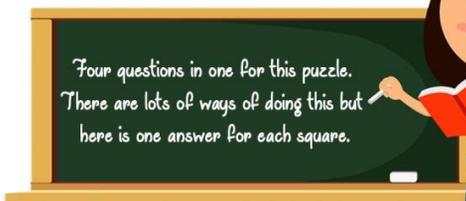
Can you put the numbers 1 to 8 in each of the squares so that each side adds up to the middle number?



Put the numbers 1, 2, 3, 4, 5, 6 and 7 in the circles so that each straight line of three numbers adds up to the same total



# ANSWER



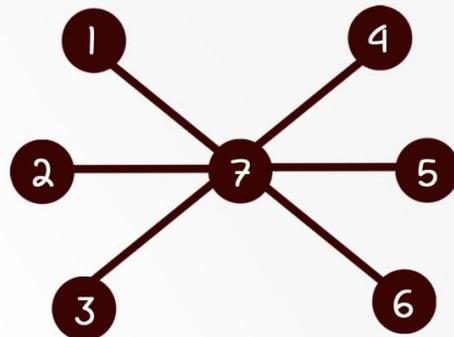
Four questions in one for this puzzle. There are lots of ways of doing this but here is one answer for each square.

1	8	3
5	12	7
6	4	2

8	4	1
3	13	7
2	6	5

7	3	4
6	14	2
1	5	8

6	1	8
2	15	4
7	5	3



## These lines all add up to 14

I expect you found this one not too tricky. And no wonder! There were several different ways of doing it! Amazing eh, but you could have 7 in the middle, or 4 or even 1. I've shown you one way above, can you work out others?

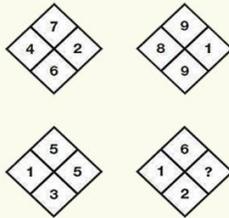


T.L. Anto Godson  
IV EEE(2016-2020)



# CAN YOU GUESS !

1. Find the missing Number?



2. If A is substituted by 4, B by 3, C by 2, D by 4, E by 3, F by 2 and so on, then what will be total of the numerical values of the letters of the word SICK?

3. Solve the math puzzle given below?

If  
 $3 = 5$   
 $5 = 3$   
 $7 = 4$   
 $8 = 6$   
 $10 = 7$   
 $11 = 8$   
 Then  
 $12 = ??$   
 Can You Solve?

4. Crack the code & Unlock the Key ?

CRACK THE CODE

CODE

A NUMERIC LOCK HAS A 3-DIGIT KEY

HINT

4 3 2  
One number is correct and well placed

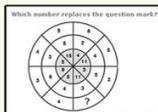
4 1 6  
One number is correct but wrong placed

2 0 4  
Two numbers are correct but wrong placed

7 3 8  
Nothing is correct

7 3 0  
One number is correct but wrong placed

5. Answer the following puzzle.



6. What is the next number in the sequence below?

147, 159, 174, 186, ?

7. If  $8=5, 7=42, 6=30$ , Then  $5=?$

8. What is the next number in the sequence 1,8,27,?

9.  $9+10-4/4*5=?$

10. What is the missing number?

6	10
15	7
2	14
5	?

Answer:

- 1) 2    2) 11    3) 10    4) 042    5) 7  
 6) 201    7) 20    8) 64    9) 14    10) 21



T.S. Anchana  
 IV ECE(2016-2020)

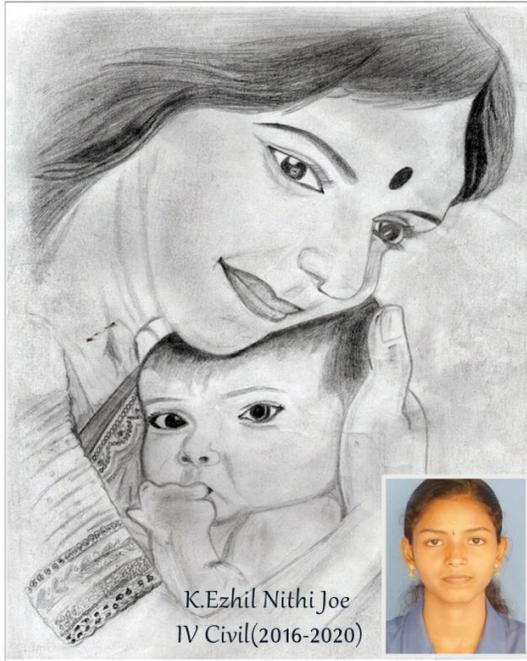


I am Maxmilian Former student of Bethlahem Institute of Engineerin and now I am working at BAMS Technology Pvt Ltd. Really I like the placement process of our Bethlahem Institute of Engineering. Every staff is working realy hard for all students so that they could get easily placed in best companies.

Maxmilian  
 BAMS Technologies Pvt Ltd

(2015 - 2019)





K.Ezhil Nithi Joe  
IV Civil(2016-2020)



S.J.Benitta  
III CSE(2017-2021)



R.Sjita  
IV IT(2016-2020)



L.Edwin Lal  
II EEE(2018-2022)



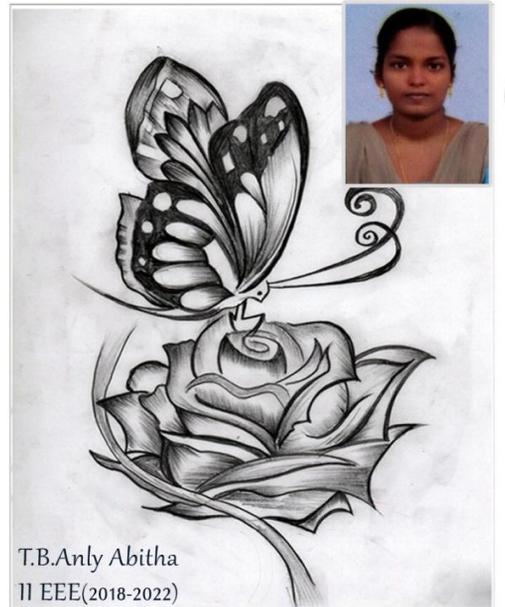
THE BEST ARTISTS KNOW  
WHAT TO LEAVE OUT



A.Beena Johncy  
I IT(2019-2023)

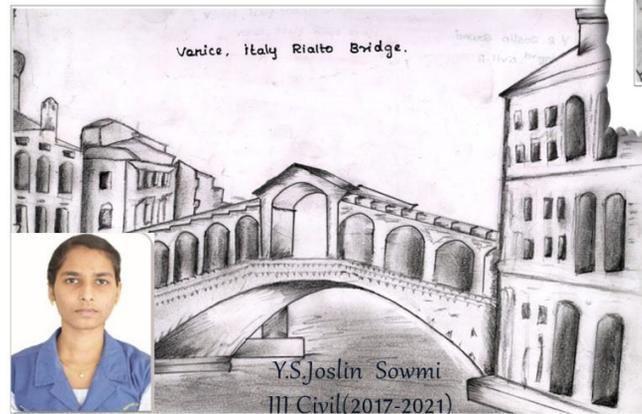
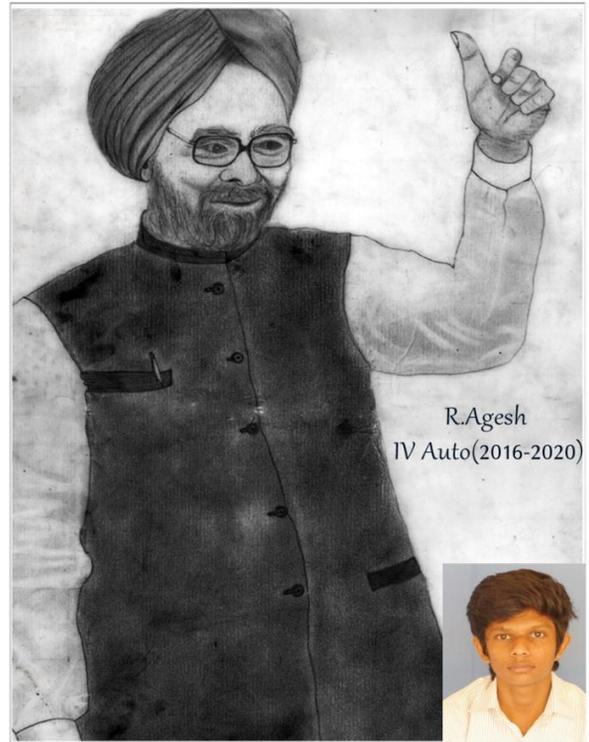
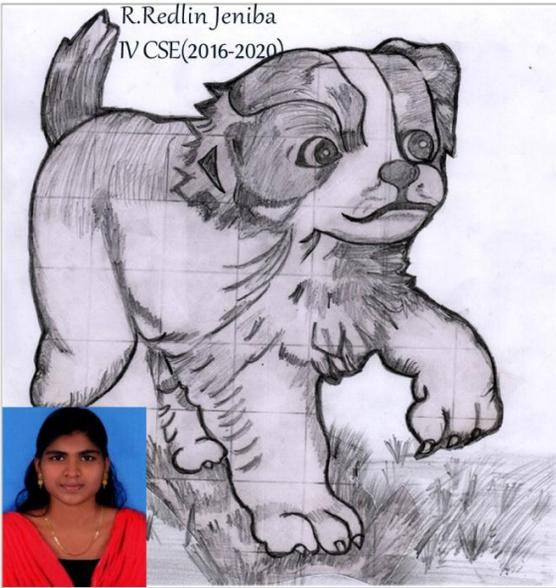


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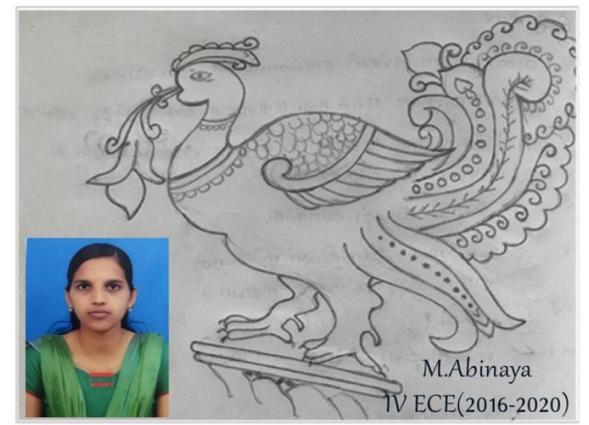
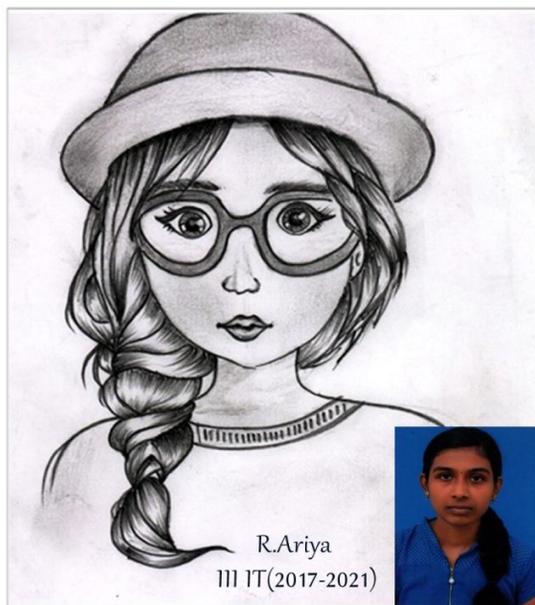
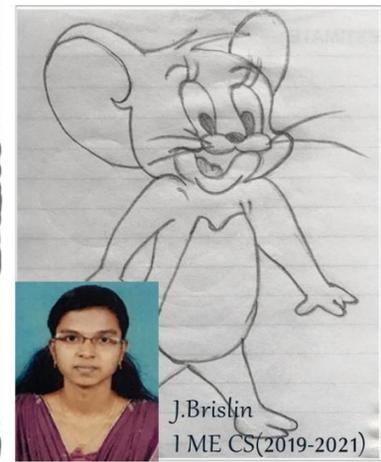


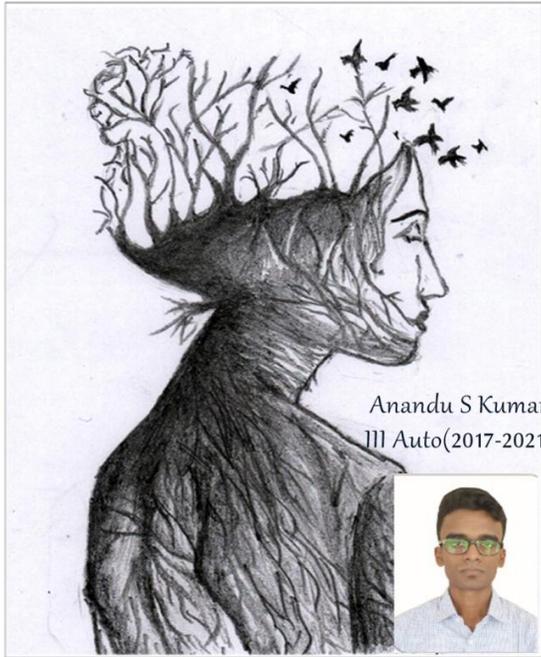
T.B.Anly Abitha  
II EEE(2018-2022)





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Anandu S Kumar  
III Auto(2017-2021)



D.Gifta  
IV IT(2016-2020)

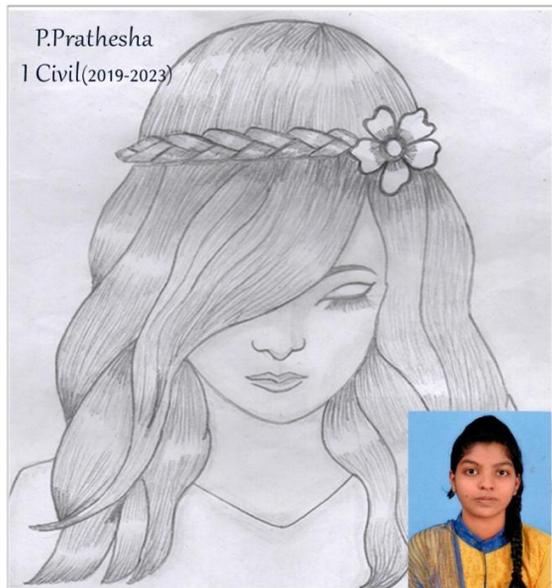


S.Muthu Kumar  
III Auto(2017-2021)

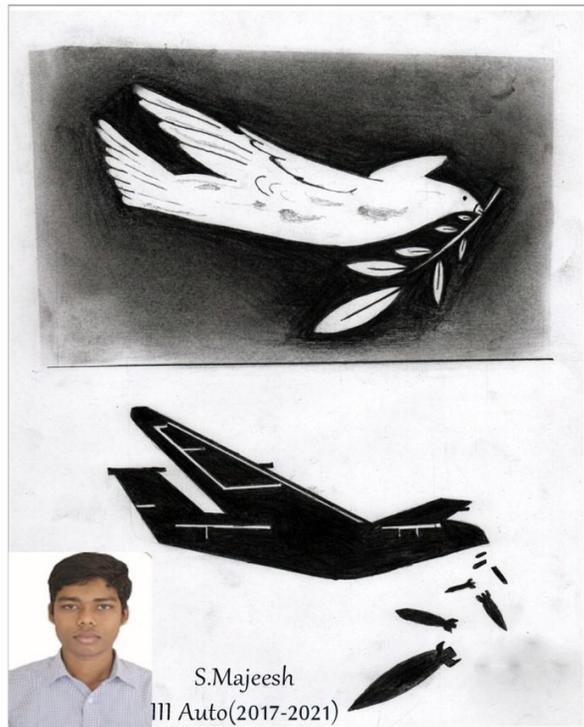


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TRUE ART IS CHARACTERIZED BY  
AN IRRESISTIBLE URGE IN THE  
CREATIVE ARTIST

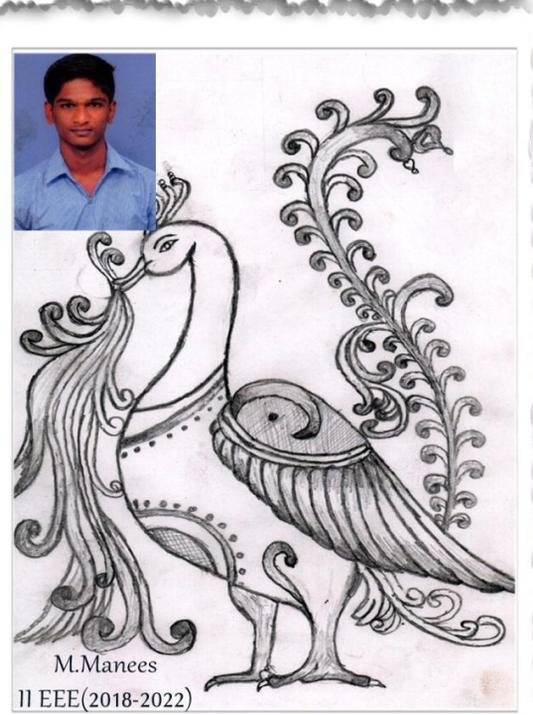
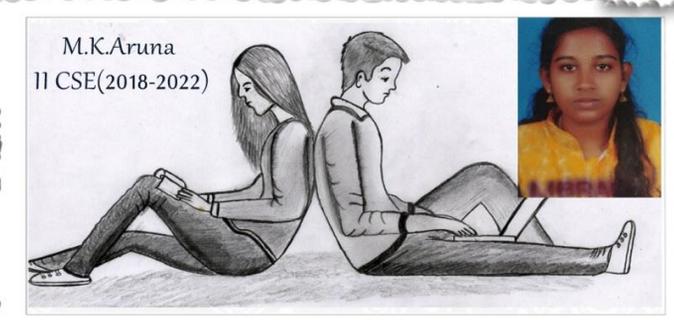
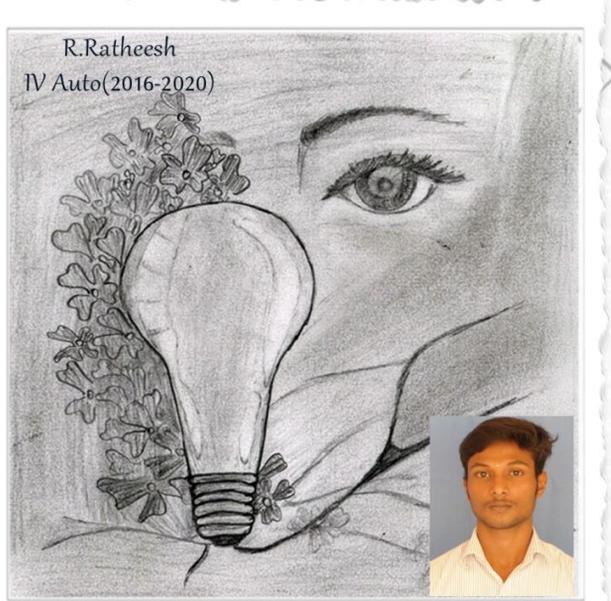
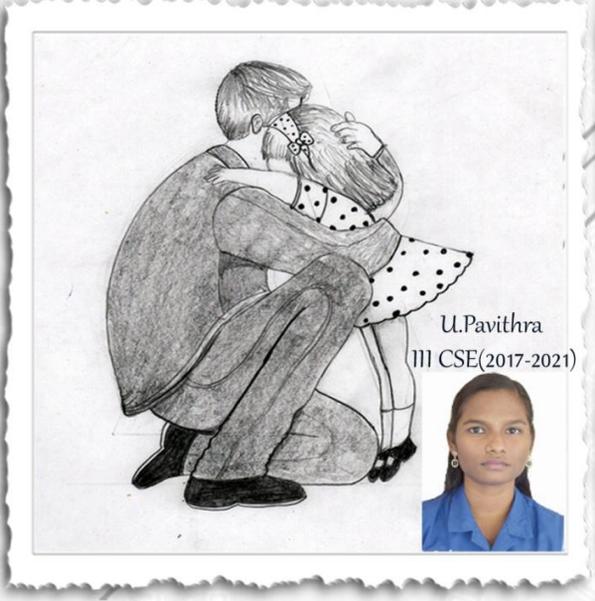


P.Prathesha  
I Civil(2019-2023)

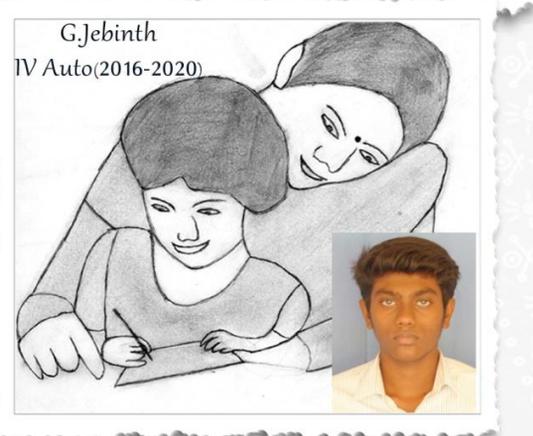


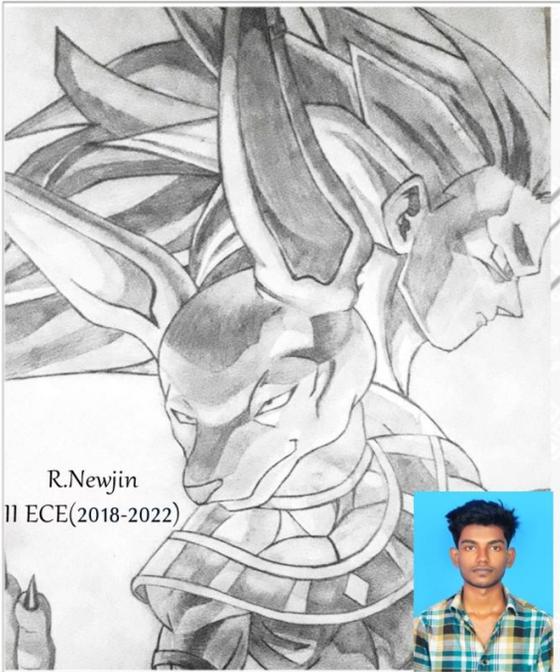
S.Majeesh  
III Auto(2017-2021)



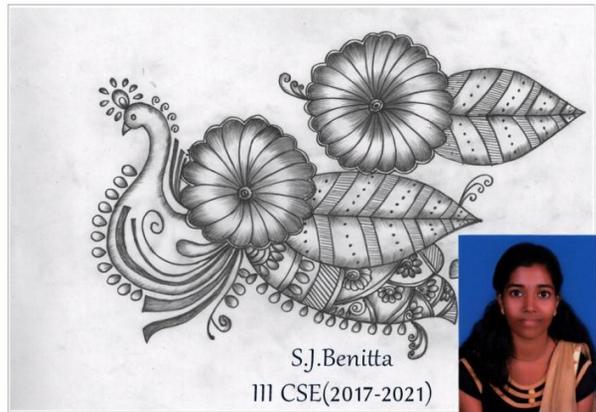


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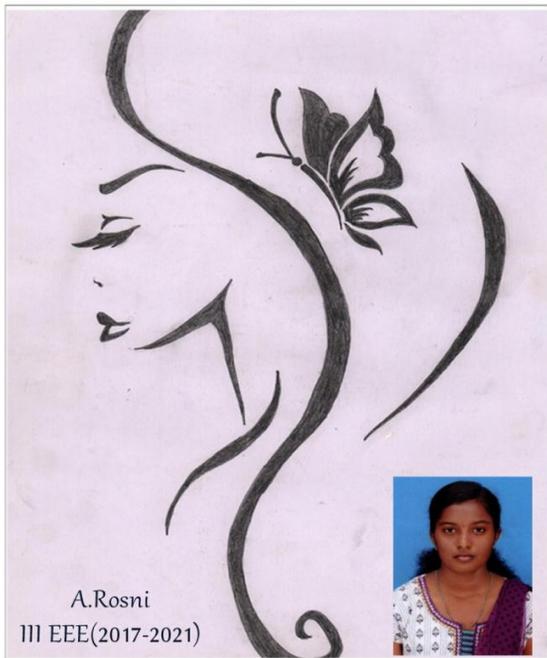
R.Newjin  
II ECE(2018-2022)



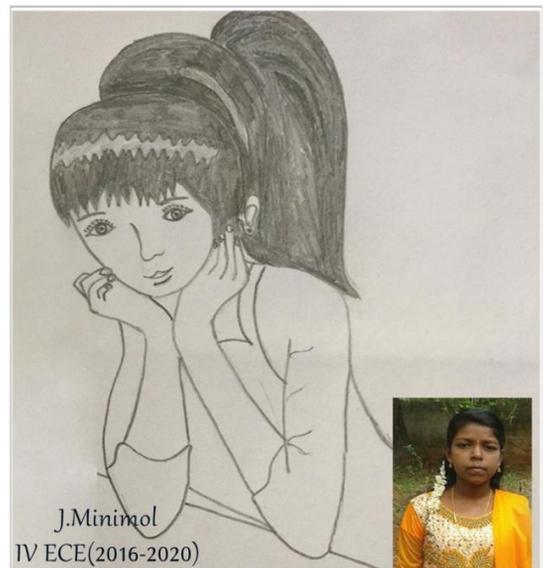
S.J.Benitta  
III CSE(2017-2021)



R.Kalai Rani  
IV ECE(2016-2020)



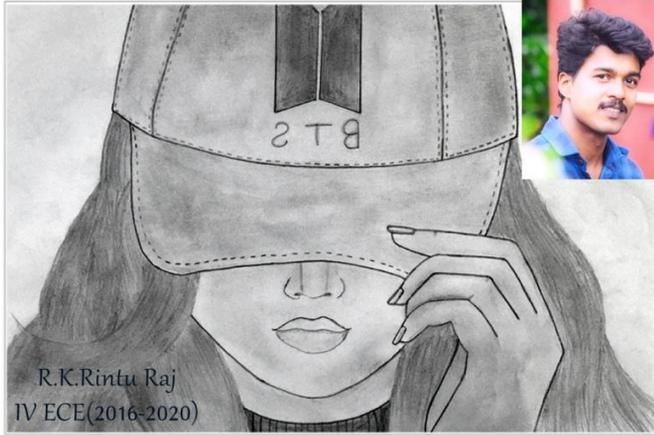
A.Rosni  
III EEE(2017-2021)



J.Minimol  
IV ECE(2016-2020)

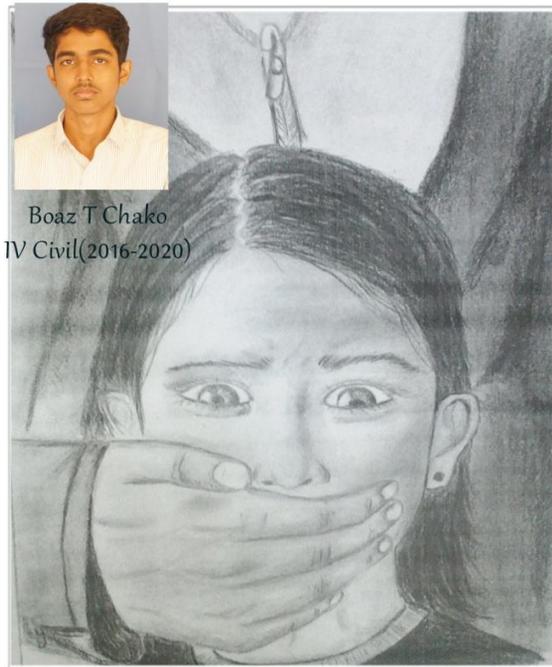
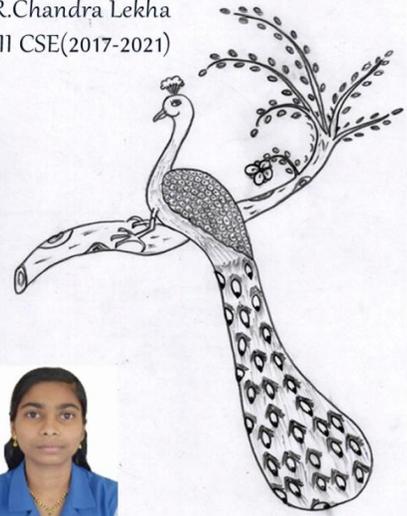
IT IS THROUGH ART, AND  
THROUGH ART ONLY, THAT WE  
CAN REALISE OUR PERFECTION.



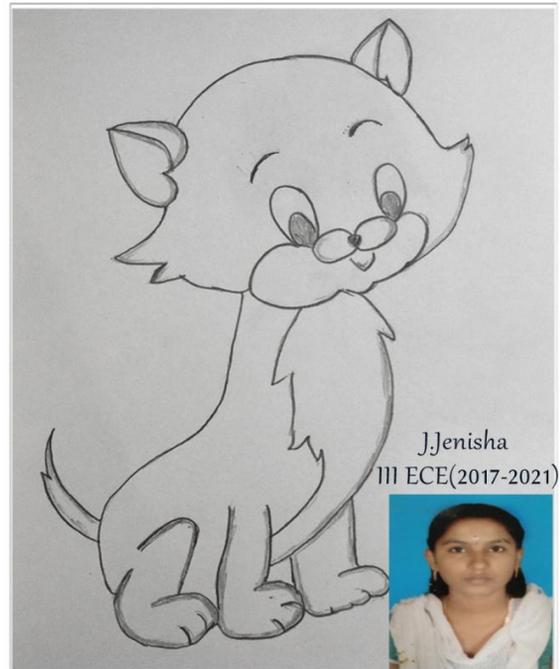


R.K.Rintu Raj  
IV ECE(2016-2020)

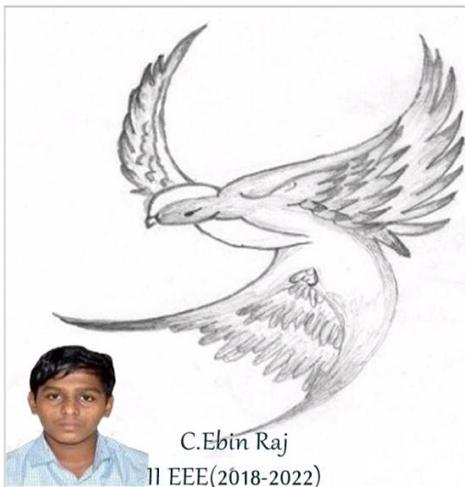
R.Chandra Lekha  
III CSE(2017-2021)



Boaz T Chako  
IV Civil(2016-2020)



JJenisha  
III ECE(2017-2021)

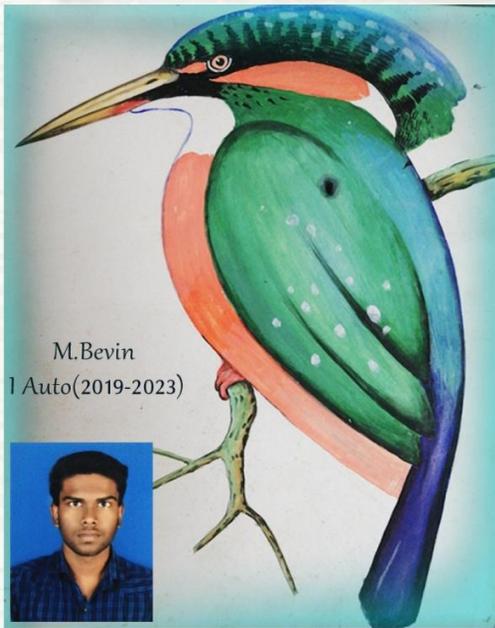


C.Ebin Raj  
II EEE(2018-2022)

THE ARTIST IS A RECEPTACLE FOR EMOTIONS  
THAT COME FROM ALL OVER THE PLACE:  
FROM THE SKY, FROM THE EARTH, FROM A  
SCRAP OF PAPER, FROM A PASSING SHAPE,  
FROM A SPIDER'S WEB.



R.Jenitha  
II CSE(2018-2022)



M.Bevin  
I Auto(2019-2023)

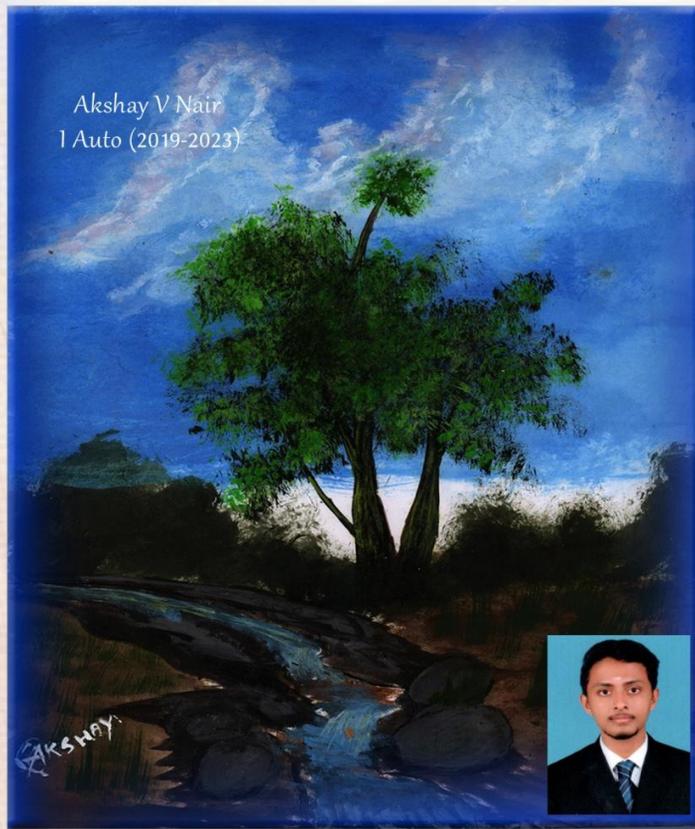


*Every canvas is a journey  
all its own.*



K.V.Chanchal Mol  
IV Civil(2016-2020)





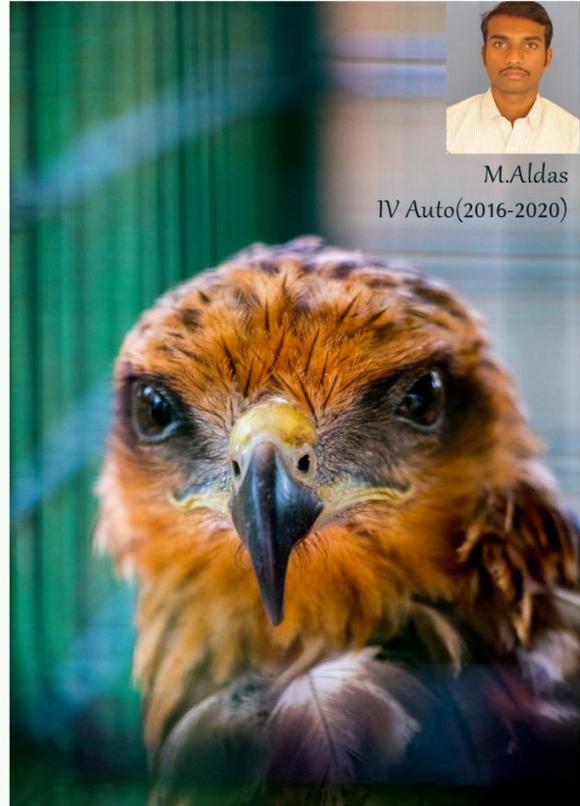
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PAINTING IS A BLIND MAN'S PROFESSION.  
HE PAINTS NOT WHAT HE SEES,  
BUT WHAT HE FEELS,  
WHAT HE TELLS HIMSELF ABOUT  
WHAT HE HAS SEEN



S.A.Asish  
II ME CS(2018-2020)



M.Aldas  
IV Auto(2016-2020)



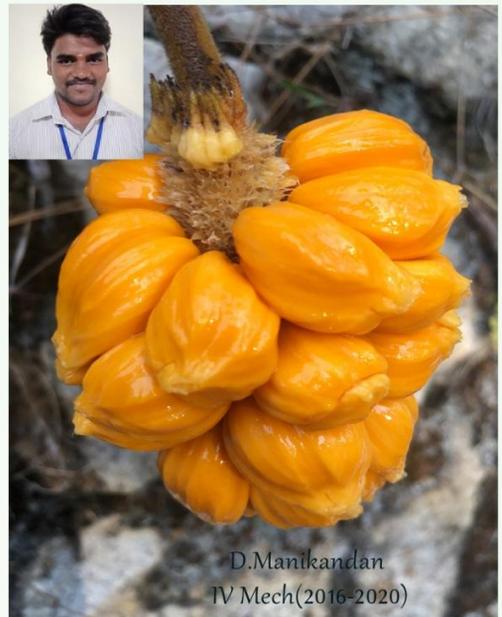
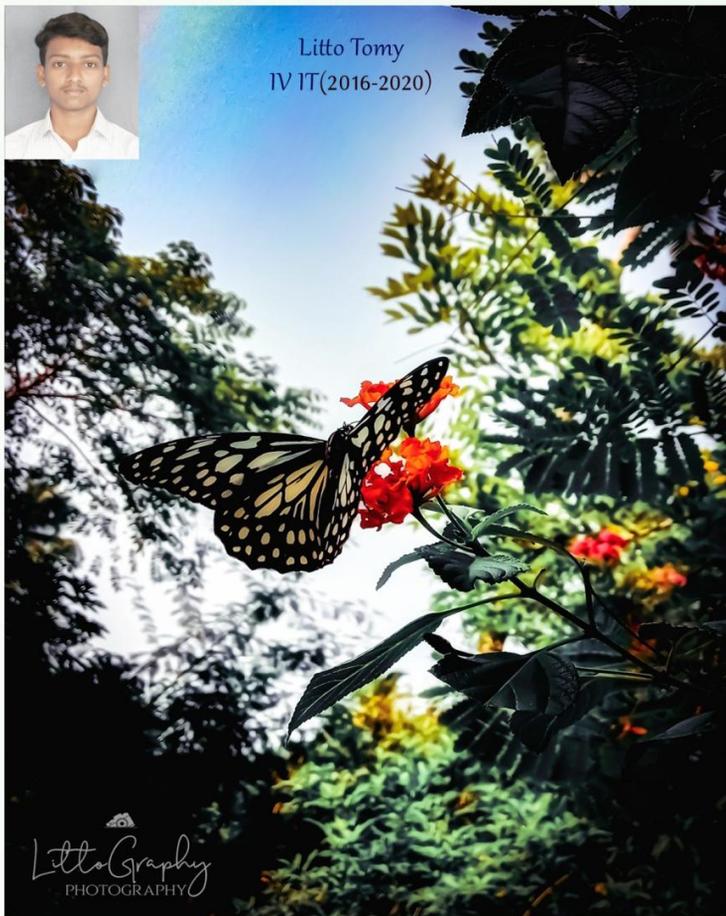
J.M.Jayakrishnan  
III Auto(2017-2021)



A.V.Berbin  
II Auto(2018-2022)



Jobin Jelastin  
I Civil(2019-2023)



# Photography

# THE COCKROACH THEORY FOR SELF DEVELOPMENT..

At a restaurant, a cockroach suddenly flew from somewhere and sat on a lady. She started screaming out of fear. With a panic stricken face and trembling voice, She started jumping, with both her hands desperately trying to get rid of the cockroach. Her reaction was contagious, as everyone in her group also got panicky. The lady finally managed to push the cockroach away but ...it landed on another lady in the group. Now, it was the turn of the other lady in the group to continue the drama. The waiter rushed forward to their rescue. In the relay of throwing, the cockroach next fell upon the waiter. The waiter stood firm, composed himself and observed the behavior of the cockroach on his shirt. When he was confident enough, he grabbed it with his fingers and threw it out of the restaurant. Sipping my coffee and watching the amusement, the antenna of my mind picked up a few thoughts and started wondering, was the cockroach responsible for their histrionic behavior? If so, then why was the waiter not disturbed? He handled it near to perfection, without any chaos. It is not the cockroach, but the inability of those people to handle the disturbance caused by the cockroach, that disturbed the ladies. I realized that, it is not the shouting of my father or my boss or my wife that disturbs me, but it's my inability to handle the disturbances caused by their shouting that disturbs me. It's not the traffic jams on the road that disturbs me, but my inability to handle the disturbance caused by the traffic jam that disturbs me. More than the problem, it's my reaction to the problem that creates chaos in my life. Lessons learnt from the story: I understood, I should not react in life. I should always respond. The women reacted, whereas the waiter responded. Reactions are always instinctive whereas responses are always well thought of. A beautiful way to understand.....LIFE. Person who is HAPPY is not because Everything is RIGHT in his Life.. He is HAPPY because his Attitude towards Everything in his Life is Right..!!!



Prof.A.Arul Edwin Raj  
Asso.Prof/ECE

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BloE has played a very crucial role in shaping my career. Throughout the course, the faculty were very supportive and inspiring. Its vision of shaping lives through quality education makes its stand tall apart from the other institutions. The place that helped me to build not only my career but also my ambition that was fulfilled by the support of everyone. I must say BloE is one of the finest colleges in its cadre and I feel proud to be graduated from this college.

ARUN S  
Electrical Overseer, Public Works Department  
Govt. of Kerala  
(2014 - 2016)



# IN MECHANICAL ENGINEERING...



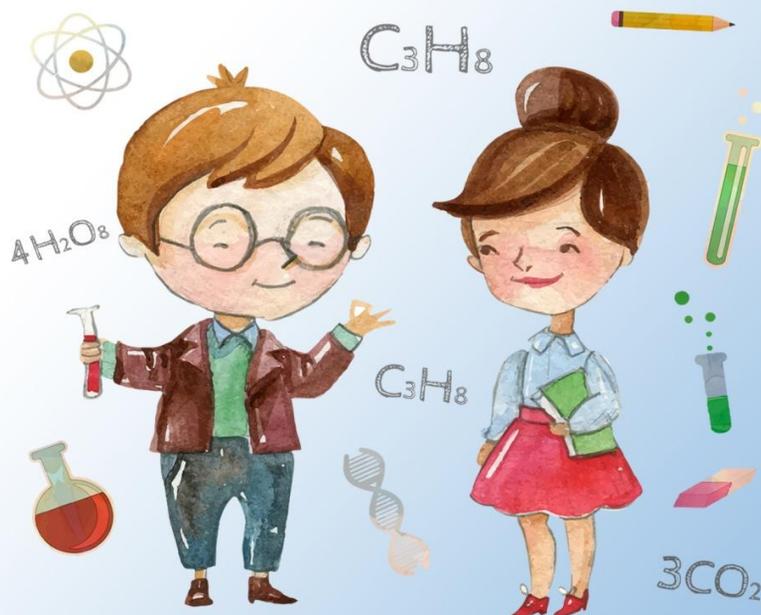
Prof. J. Jinish John  
AP/MECH



Graphics comes with projection  
 English comes with pronunciation  
 Physics comes with motion  
 Chemistry comes with reaction  
 Mathematics comes with derivation  
 Mechanics comes with rotation  
 Manufacturing Technology comes with operation  
 Fluid Mechanics comes with fluid equation  
 Engineering Thermodynamics comes with dynamic relation  
 Environmental Science comes with biological expression  
 Engineering Materials and Metallurgy come with transformation  
 Electrical Drives and Control comes with induction  
 Heat and Mass Transfer comes with conduction  
 Thermal Engineering comes with calculation  
 Professional Ethics comes with obligation  
 Design of Machine Elements comes with load combination  
 Dynamics of Machinery comes with vibration  
 Computer Aided Design comes with digital conversion  
 Principles of Management comes with organization  
 Automobile Engineering comes with vehicle construction  
 Production Planning and Control comes with production  
 Design Transmission System comes with transmission  
 Process Planning and Cost Estimation comes with estimation  
 Metrology and Measurements comes with comparison  
 Unconventional Machining process comes with classification  
 Computer Integrated Manufacturing comes with automation  
 Nuclear Engineering comes with fission and fusion  
 Engineering Economics with cost analysis comes with decision  
 Strength of Materials comes with deformation  
 Power Plant Engineering comes with electricity generation  
 Total Quality Management comes with administration  
 Maintenance Engineering comes with condition  
 Mechatronics comes with electromechanical combination  
 Finite Element Analysis comes with numerical solution  
 Mini Project comes with fabrication  
 Project comes with innovation  
 Finally, conclusion  
 If you clear all this... then Engineering is your profession  
 Under other conditions..... I don't have any explanation....  
 Thank you for your attention

### CHEMISTRY OF POETRY

Every poet is an iron  
 Not an atom  
 Or a molecule  
 With some freed electrons  
 He comes in search of  
 Your neurons  
 Where they join with your soul  
 To feel the zeal of  
 Wonderful words  
 Keep your antennas  
 Always up!



- F** | What is the chemical formula for a banana?  
**A** | BaNa2  
**C** | Why should not we drink water while learning?  
**T** | Because “Concentration decreases on adding water”



Prof. A. Little Mary  
 AP/ Chemistry

## REVOLUTIONS IN INDIA

- Black Revolution – Petroleum Production
- Blue Revolution – Fish Production
- Brown Revolution – Leather/non-conventional (India)/Cocoa production
- Golden Fiber Revolution – Jute Production
- Golden Revolution – Fruits/Overall Horticulture development/Honey Production
- Green Revolution – Food grains
- Green Gold Revolution – Promotion and trade of Bamboo
- Grey Revolution – Fertilizer
- Pink Revolution – Onion production/Pharmaceutical (India)/ Prawn production
- Red Revolution – Meat & Tomato Production
- Round Revolution – Potato
- Silver Fiber Revolution – Cotton
- Silver Revolution – Egg/Poultry Production
- White Revolution – Milk/Dairy production
- Yellow Revolution – Oil Seeds production
- Evergreen Revolution – Overall development of Agriculture



Prof. M. Roger Libin  
 AP/Automobile

# FIBER OPTIC SENSORS

Optical fibers are transparent fibers, usually made of glass or plastic, for transmitting light which can be used as sensors to measure strain, temperature, pressure and other parameters.

Though fiber optics was first invented in the 1930s, the use of this technology started in the late 1960s. A serious momentum occurred in the 1980s when the phone companies started to replace their long distance copper cables with fiber cable. Gradually, all transmission systems and networks started using fiber cables. Fiber optic sensors have been used successfully in the supervision of structures. Mainly due to their small size they are able to be widely used in structural elements as they show high sensitivity and accuracy.

Optical fibers are used to route sunlight from the roof to other parts of the building and also in imaging optics. It can be embedded in various kinds of structures such as buildings, roads, dams, and other concrete or steel structures. The optical fiber itself can be divided into two basic types, single mode and multimode fibers. Usually, single mode can be used as localized or mechanical sensors, such as strain or force sensors, while the multi-mode can be used as sensors in a more wide range such as distributed and thermal and other sensors.

When considering the safety of a structure, the maximum stress in a member due to live load, earthquake, wind, or other unexpected loadings must be checked not to exceed the allowable stress of a member. Strain sensors measure the relative displacement between two points in a structure.

Thermal expansion is an important factor in all types of structures where differential heating may occur, either from environmental effects, such as the solar heating of pavements and bridge decks, or from service conditions, such as in nuclear-reactor, pressure vessels or furnaces. The existing condition of many important concrete structures can be accessed through the detection and monitoring of cracking. Conventionally, crack detection and monitoring have been carried out by visual inspection but it is time consuming, expensive, and unreliable. Recently, researchers developed sensors for the reliable detection and monitoring of cracks in concrete structure. Some kinds of fiber optic sensors have been applied to the health monitoring of FRP and cable structures in recent years. Nowadays optical fibers play a more important role in the real-time structural performance monitoring of structures, as well as in smart structures and intelligent systems in the future.



Prof.V.Monisha  
AP/CIVIL

# TOP 5 NEW MEDICAL TECHNOLOGIES OF 2019

## TELEHEALTH

In a technologically driven world, it's thought that as many as 60% of customers prefer digitally-led services. Telehealth describes a quickly developing technology that allows patients to receive medical care through their digital devices, instead of waiting for face-to-face appointments with their doctor. For example, highly-personalised mobile apps are being developed which allow patients to speak virtually with physicians and other medical professionals to receive instant diagnosis and medical advice.

## PRECISION MEDICINE

As medical technology advances it is becoming more and more personalised to individual patients. Precision medicine, for example, allows physicians to select medicines and therapies to treat diseases, such as cancer, based on an individual's genetic make-up. This personalised medicine is far more effective than other types of treatment as it attacks tumours based on the patient's specific genes and proteins, causing gene mutations and making it more easily destroyed by the cancer meds. Precision medicine can also be used to treat rheumatoid arthritis. It uses a similar mechanism of attacking the disease's vulnerable genes to weaken it and reduce symptoms and joint damage.



Prof. A. Joel Dickson  
AP/ECE

## CRISPR

Clustered Regularly Interspaced Short Palindromic Repeats (CRISPR) is the most advanced gene-editing technology yet. It works by harnessing the natural mechanisms of the immune systems of bacterium cells of invading viruses, which is then able to 'cut out' infected DNA strands. This cutting of DNA is what has the power to potentially transform the way we treat disease. By modifying genes, some of the biggest threats to our health, like cancer and HIV, could potentially be overcome in a matter of years.

## VIRTUAL REALITY

Virtual Reality (VR) has been around for some time. However, recently, with medical and technological advances, medical students have been able to get close to real life experience using technology. Sophisticated tools help them gain the experience they need by rehearsing procedures and providing a visual understanding of how the human anatomy is connected. The VR devices will also serve as a great aid for patients, helping with diagnosis, treatment plans and to help prepare them for procedures they are facing. It has also proved very useful in patient rehabilitation and recovery.

## HEALTH WEARABLES

The demand for wearable devices has grown since their introduction in the past few years. People today use their phone to track everything from their steps, physical fitness and heartbeat, to their sleeping patterns. The advancement of these wearable technologies is in conjunction with rising chronic diseases like diabetes and cardiovascular disease, and aim to combat these by helping patients to monitor and improve their fitness.

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Apart from the lush green campus backed by astonishing infrastructure, studying in Bethlahem Institute of Engineering gave me a lead with a lifelong career excellence. From the very supporting faculty to excellent pedagogy, all helped me enhance my skills to the optimum and is still inspiring me to never give up. My education at Bethlahem Institute of Engineering was an experience for lifetime and will stay with me forever.

(2014 - 2018)

C.S.Reji  
Garments Supervisor  
ASORT, Hosur



PRESENTING SOME QUOTES THAT TOUCHED MY HEART & CHANGED MY WAY OF LIFE & WAY OF THINKING. HOPE THIS WILL HELP YOU TOO....



Prof.D.Shine Rajesh  
HoD/IT



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My four years at Bethlahem Institute of Engineering have been excellent and a memory to cherish for a lifetime. The years spent here have been full of learning opportunities that were full of fun and frolic and sometimes with academic grind that one has to go through. The international exposure makes you a better man to face the challenges of the corporate world.

R.Archish  
Graduate Apprentice Trainee  
Avtec Ltd. CK BIRLA Groups  
Hosur

(2015 - 2019)

"Experience life in all possible ways good-bad, bitter-sweet, dark-light, summer-winter. Experience all the dualities. Don't be afraid of experience, because the more experience you have, the more mature you become."

Sadness gives depth. Happiness gives height. Sadness gives roots. Happiness gives branches. Happiness is like a tree going into the sky, and sadness is like the roots going down into the womb of the earth. Both are needed, and the higher a tree goes, the deeper it goes, simultaneously. The bigger the tree, the bigger will be its roots. In fact, it is always in proportion. That's its balance."

"Friendship is the purest love. It is the highest form of Love where nothing is asked for, no condition, where one simply enjoys giving."

"Each person comes into this world with a specific destiny - he has something to fulfill, some message has to be delivered, some work has to be completed. You are not here accidentally, you are here meaningfully. There is a purpose behind you. The whole intends to do something through you."

"You feel good, you feel bad, and these feelings are bubbling from your own unconsciousness, from your own past. Nobody is responsible except you. Nobody can make you angry, and nobody can make you happy."

"Take hold of your own life. See that the whole existence is celebrating. These trees are not serious, these birds are not serious. The rivers and the oceans are wild, and everywhere there is fun, everywhere there is joy and delight. Watch existence, listen to the existence and become part of it."

"That is the simple secret of happiness. Whatever you are doing, don't let past move your mind; don't let future disturb you. Because the past is no more, and the future is not yet. To live in the memories, to live in the imagination, is to live in the non-existential. And when you are living in the non-existential, you are missing that which is existential. Naturally you will be miserable, because you will miss your whole life."

"Nobody is superior, nobody is inferior, but nobody is equal either. People are simply unique, incomparable. You are you, I am I. I have to contribute my potential to life; you have to contribute your potential to life. I have to discover my own being; you have to discover your own being."



# Role of Mathematics in the Modern Era

"Mathematics is like Love, a simple idea, but it can get complicated".  
 Mathematics is one of those things that most people either love or hate.

Mathematics is a science that deals with numbers, logics, shapes, quantities and arrangements. It is all around us everywhere. From dawn to dusk we apply mathematics. It is the foundation for everything. In our routine life, we use mathematics. Also we use the techniques of mathematics in mobile devices, architecture (ancient and modern), art, money, space, Engineering and even in sports. It also plays an important role in biology, medicine and many of the social sciences and researches. Whatever we see or do in nature, there includes calculation. Because of all these vital role mathematics is referred to as 'Queen of all sciences'.

The literal meaning of Mathematics is "things which can be counted". We know that counting is essential in our daily life, just imagine that if there is no mathematics at all how would it be able for us to count members of the family, rupees, days in a week, month or year. Moreover how we will add, subtract, multiply and divide.  
 Impact of Mathematics:

Maths helps us to think analytically and reasonably. Analytical thinking refers to the ability to think critically about the world around us. Both the analytical and reasoning skills are important because they help us to solve problems and look for solutions. These two skills are generally high for a mathematician. Because of mathematics we have reached heights and also a rapid evolution as a society.

- We reached the moon because of Maths.
- Maths allowed us to trace out the secrets of DNA.
- Create and transmit electricity over hundreds of miles to power our homes and offices.
- Give rise to computers and now computers ruling this modern world.

Without Mathematics we'd still be living in caves.

Sir Isacc Newton considered by many to be the greatest scientist of all time. He was one of the inventors of calculus, who built the first reflecting telescope. He was the first to decompose white light into its component colours and gave us the three laws of motion. We would live in a very different world if Newton had not been born. He made a huge impact for this era.

From Sir Isaac Newton to Alan Turing Mathematicians have influenced this modern society. Without mathematics everything is nothing. Because of all of their efforts now we are living in a digitalised world.



Prof. R. Diana  
 AP/Maths



2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47, 53, 59, 61, 67, 71, 73, 79, 83, 89, 97.



# ROBOTIC PROCESS AUTOMATION

Robotic Process Automation (RPA) is an emerging form of business process automation technology based on metaphorical software robots or artificial intelligence workers. In traditional workflow automation tools, a software developer has to produce a list of actions to automate a task and interface the task and interface to the back end system by using internal Application Programming Interfaces (APIs). RPA systems develop the action list by watching the user and then perform automation by repeating those tasks directly in GUI. This will reduce the barrier to use of automation in products that might not otherwise feature APIs for this purpose.

RPA tools have strong technical differences to GUI tools i.e., RPA enabled system allow data to be handled between multiple applications, for instance receiving email containing an invoice, extracting only the data and typing that data into that book keeping system.

The RPA is a software program which runs on an end user's pc, laptop or mobile device. It is a sequence of commands which are executed by Bots under some defined set of business rules. The main goal of RPA is to replace the repetitive and boring clerical task performed by humans with a virtual workforce. RPA does not require the development of code, nor does it require direct access to the code or database of the applications.

Why Robotic Process Automation?

Consider the following scenario in a typical enterprise

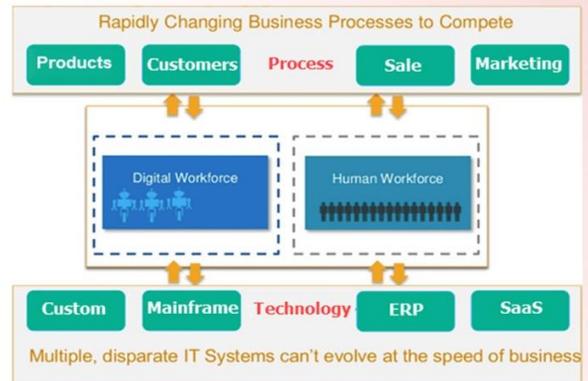


The problem? --- Humans

With any change in the business process, a company would need to hire new employees or train existing employees to map

IT system and business process. Both solutions are time and money consuming. Also, with any succeeding business process change will also need hiring or re-training.

Enter RPA



With Robotic automation, the company can deploy virtual workers who mimic human workers. In case of a change in process, a change in few lines of software code is always faster and cheaper than retraining hundreds of employees. Here, are some reasons why Robotics Process Automation is advantageous

- A human can work average 8 hours a day whereas robots can work 24 hours without any tiredness.
- The average productivity of human is 60% with few errors as compared to Robot's productivity which is 100% without any errors.
- Robots handle multiple tasks very well compared to a human being.

### Application of RPA

Healthcare,HR,Insurance,Manufacturing and Retail, Telecom, Travel and Logistic, Banking and Financial Services etc.

### RPA Tools

Blue prism, Automation AnyWhere, UiPath.



Prof.G.Marly  
HoD/CSE

# RIDDLES

- Which building has thousands of stories?  
The library
- Give me food, & I will live. Give me water,  
and I will die. What am I?  
Fire
- What starts with a P, ends with an E and  
has thousands of letters?  
Post office
- Why do bees hum?  
Because they don't know the words
- It has a neck but no head, and wears a  
cap? What is it?  
A bottle
- What word has five letters but sounds like  
it only has one?  
Queue
- Beth's mother has three daughters. One is  
called Laura, the other one is Sarah. What  
is the name of the third daughter?  
Beth
- I scream, you scream, we all scream. For  
what?  
Ice cream
- What has a face and two hands, but no  
arms or legs?  
A clock
- What has to be broken before you can  
use it?  
An egg
- How many months have 28 days?  
All 12 months



Dr.V.J.Hema Reji  
Librarian



Dr.D.P.Abhilash  
AP/Chemistry



Ms.K.S.Pon Jegalin Reeba  
Library Assistant



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I am a former student of Bethlahem family. I did both PG and UG in Bethlahem. Now I am working as a Technical Assistant in National Highways department, Thucklay. The teaching and the handling of classes in a friendly way at Bethlahem is really very excellent. Learning at this eco friendly Campus nurtured my skills and knowledge and enabled me to attain this position. I thank my Alma Mater for its valuable contribution.

Abisha Mol  
Technical Assistant  
National Highways Dept.

(2013 - 2017)



## THE WONDER OF NATURE

*Nature! Nature! So lush and green,  
The wonder of wonder anyone has seen.  
So cool, calm and full of light  
Makes us forget all our strife.  
Think of a forest full of trees,  
Fluttering and Dancing in the breeze.  
Cut them down and constructs towers,  
Wait for ages to get a shower.  
The birds that soar high in the sky,  
Can we imitate them however hard we try.  
Learn to wonder and gape at things  
And see the happiness it brings.  
We have got such wonderful things.  
If the nature is healthy,  
We will be healthy.*



Prof.A.P.Herlin Rose  
AP/EEE

## PLANTS EMIT ULTRASONIC SOUND, WHEN STRESSED

It is found that evidence of plants making airborne emission of ultrasound screams when subjected to stresses. The sound contains information that can reveal the state of the plant emitting it. Tomato and tobacco plants are subjected to two different stresses namely drought and cutting of stems. The ultrasound emitted is in the range 20-100 kHz and can be detected from a distance of 3-5 metres. If stressed plants can emit ultrasound, then neighbouring plants should be equipped to hear these distress sounds too.

Many moths, which use tomato and tobacco plants as hosts for their larvae, are already known to hear and react to ultrasound at frequencies emitted by the plants. These moths may then potentially avoid laying their eggs on a plant that had emitted stress sounds.

The sounds are generated by a process called cavitation where air bubbles form, expand and explode in the xylem causing vibrations. Cavitation explosions have been shown to produce vibrations similar to the ones we recorded. The sounds were first recorded in the laboratory conditions using boxes that are acoustically isolated and then verified in greenhouses that were not acoustically isolated. They found that on average, tomato plants subjected to drought stress emitted Thirty Five sounds an hour compared with tobacco that made just Eleven. However, when the stems were cut, the average number of sounds emitted by tomato plants dropped to 25 per hour while it increased slightly to 15 per hour in the case of tobacco.



Prof. J. Sophia Jone  
AP/ECE

# ആ തണുപ്പിൽ ഇത്തിരിമണം

മൂന്നാറിലെ മലനിരകളിൽ നീല പരവതാനി വിരിച്ച പൂക്കളുടെ വസന്തം...നീലക്കുറിഞ്ഞി,വായിച്ചും കേട്ടും മനസ്സിൽ രൂപംകൊണ്ട ആ മനോഹരമായ നാട് കാണാൻ ഞാൻ ഇതാ മൂന്നാറിലേക്ക് .... 12 വർഷത്തിലൊരിക്കൽ പൂക്കുന്ന നീലക്കുറിഞ്ഞിയെ കാണാൻ എന്റെ മനസ്സ് വെമ്പൽ കൊണ്ടു.



Prof.L.Aleesha Livingston  
AP/ECE

ഭൂമിയിൽ ഒരു സ്വർഗ്ഗമുഖേ കിൽ അത് മൂന്നാർ തന്നെയാണെന്ന കവിഭാവനയെ അന്വർത്ഥമാക്കുന്ന ആ നിമിഷം ഞാൻ തിരിച്ചറിഞ്ഞു. മൂന്നാറിലെ ഓരോ പൂൽക്കൊടികളിലുമുണ്ട് മനോഹരമായ പൂക്കൾ, അതിമനോഹരമായ കാഴ്ചകൾ, മഞ്ഞിന്റെ സുന്ദരമായ പാളികൾ... സമുദ്രനിരപ്പിൽ നിന്ന് 8000 അടി ഉയരെ സ്ഥിതിചെയ്യുന്ന ഇവിടെ അന്തരീക്ഷ ഊഷ്മാവ് പൂജ്യം ഡിഗ്രി സെൽഷ്യസ് ആണ്.

ഇടുക്കി ജില്ലയിലെ പ്രധാനഹിൽ സ്റ്റേഷനാണ് മൂന്നാർ. തണുത്ത അന്തരീക്ഷവും പ്രകൃതി സൗന്ദര്യവും എന്നിലെ പ്രണയത്തിന്റെ ശലഭങ്ങളെ പാറിപ്പറപ്പിച്ചു. മഞ്ഞുതുള്ളികൾ സ്പടികമണികൾ പോലെ തിളങ്ങുന്ന കാഴ്ച ആ പൊൻപുലരിയിൽ സ്വരലയതാള സമനായമായി എന്നെ സ്വീകരിച്ചു. മഞ്ഞുമൂടുവായി ഒഴുകി നടക്കുന്ന ചായത്തോട്ടങ്ങളിലേക്ക് ഞാൻ യാത്രയാരംഭിച്ചു. സമതാസുന്ദരമായ ഓരോ ദൃശ്യങ്ങളും മനസ്സാകുന്ന മായകണ്ണാടിയിൽ പതിപ്പിച്ചെടുത്തു. മാട്ടുപ്പെട്ടിയിലെ ഇന്റോ സീസ് പ്രോജക്ടിന്റെ കീഴിലുള്ള കാലിവളർത്തൽ കേന്ദ്രവും ബീജോല്പാദനസെന്ററും സന്ദർശിച്ചപ്പോൾ അവയുടെ പ്രാധാന്യവും ശാസ്ത്രസാങ്കേതിക വിദ്യയുടെ വികസനവും പദ്ധതിയിൽ നിന്നുള്ള സാമ്പത്തിക നേട്ടവും വളരെ വിലപ്പെട്ടതാണ്. ഞാൻ മനല്ലിലാക്കി. പ്രതിധാനി മുഴുങ്ങുന്ന എക്കോ പോയിന്റ് കൗമാര മനസ്സുകൾക്കു ഹരമായിരുന്നു. പക്ഷേ എന്റെ ശ്രമം വിഫലമായി.

ഉച്ചയുണ്ട് കഴിഞ്ഞ് പച്ചയാം വിരിപ്പിട്ട സഹ്യനിൽ തലവച്ച് സ്വച്ഛമായി കിടക്കുന്ന ആനമുടി മലമുകളിലേക്ക് യാത്ര തുടർന്നു. ആ മലയുടെ താഴ് വാരങ്ങളിൽ പരിലസിക്കുന്ന രാജമല. . . രാജമലയിൽ പൂത്തുലഞ്ഞുകിടക്കുന്ന നീലക്കുറിഞ്ഞി. ഏകദേശം അഞ്ച് മണിയായപ്പോൾ മഞ്ഞ് പൊഴിയാൻ തുങ്ങിയിരിക്കുന്നു. ആകർഷിക്കുന്ന നിറവും നിഷ്കളങ്കമായ ആ സൗന്ദര്യവും ഞാൻ ഏറെ ആസ്വദിച്ചു ഇടക്കിടെ പ്രത്യക്ഷപ്പെടുന്ന വരയാടുകളുടെ മുഖഭാവങ്ങൾ ദയനീയമായി എനിക്ക് അനുഭവപ്പെട്ടു. കുന്നിൽ ചരിവുകളിൽ നിന്നൊഴുകി വരുന്ന പാലരുവി നീലക്കുറിഞ്ഞിയോടുള്ള എന്റെ പ്രണയത്തിന് മാധുര്യം പകർന്നു. വംശനാശം നേരിടുന്ന കുറിഞ്ഞിയെ സംരക്ഷിക്കുന്നതിനായി വനപാലകരുടെ ഒളികണ്ണുകൾ. . . . ഈ വനാന്തരകങ്ങൾക്കുള്ളിലൂടെ 40 കി. മീ യാത്ര ചെയ്താൽ കൊടൈക്കനാലിൽ എത്താവുന്നതാണെന്ന വിവരം വനപാലകരിൽ നിന്ന് ലഭിച്ചു. എന്നാൽ ഈ യാത്ര ദുർഘടവും ഭയാനകവും ആയതിനാൽ സൂര്യരശ്മി കടക്കാത്ത വനങ്ങളിലേക്ക് ആരും പോകാറില്ല.

സായം സന്ധ്യനേരത്ത് ഞാൻ നീലക്കുറിഞ്ഞിയോട് ഹൃദയവ്യഥയോടെ യാത്ര പറഞ്ഞ് രാജമല ഇറങ്ങി. മൂന്നാറിലെത്തി. മൂന്നാറിനോട് തല്ക്കാലം വിടച്ചൊല്ലികൊണ്ടു ഞാനെന്റെ നാട്ടിലേക്ക് യാത്ര തിരിച്ചു. യാത്രയ്ക്കിടയിൽ എല്ലാ കാഴ്ചകളും അനുഭവങ്ങളും പുതുക്കി കൊണ്ട് മലമുകളിലെ പരിശുദ്ധമായ പ്രഭാതവായുവിന്റെ ഓർമ്മ എന്നിൽ ഉണർത്തി.



# Annual Day 2019



Let's rejoice in happiness and celebration. Saluting the member of those who made us free and sing praise in their admiration. Let's make them our inspiration.





# Sports Day 2019

"AN ATHLETE CANNOT RUN WITH MONEY IN HIS POCKETS. HE MUST RUN WITH HOPE IN HIS HEART AND DREAMS IN HIS HEAD."



**BETHLAHEM INSTITUTE OF ENGINEERING**  
Karungal, Kanyakumari Dist.

Annual Sports Meet





"It is absolutely still possible to make a difference."

# Graduation Day 2019



# Women's Day 2019

When life seems hard,  
the courageous do not lie down and accept defeat;  
instead, they are all the more determined to struggle  
for a better future.





*When you meet someone better than yourself,  
turn your thoughts to becoming his equal.  
When you meet someone not as good as you are,  
look within and examine yourself.*





# Independence Day 2019

"Celebrate the freedom.  
Celebrate the independence.  
Live freely & enjoy this freedom."

ReSpectful  
salute  
to Our  
**INDIA**



# ROAD SAFETY AWARENESS 2019

ALERT TODAY  
ALIVE TOMORROW



# ANTI RAGGING & DRUG AWARENESS 2019

TOGETHER WE CAN MAKE A  
RAGGING-FREE CAMPUS



STAY DRUG FREE AND BE THE  
BEST YOU COULD BE

# Onam 2019



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*Giving, sharing, loving and celebrating together - that's the essence of Onam.*

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# Christmas 2019

CHRISTMAS IS NOT A TIME NOR A SEASON,  
BUT A STATE OF MIND.  
TO CHERISH PEACE AND GOODWILL,  
TO BE PLENTY IN MERCY,  
IS TO HAVE THE REAL SPIRIT OF CHRISTMAS.





## National Service Scheme 2020

“The best way not to feel hopeless is to get up and do something. Don't wait for good things to happen to you. If you go out and make some good things happen, you will fill the world with hope, you will fill yourself with hope.”





# BETHLAHEM

## MATRIC. HR. SEC. SCHOOL

Bethlahem Matric School has been christened with the name Bethlahem, the birth place of the Lord and Saviour Christ who spread the message of peace and salvation, Bethlahem Matric School was born in June, 2003 with about 475 students and staff strength of 40 to enlighten the students with knowledge and confident to lead their life with forward face. Today Bethlahem caters around 5000 students with the utmost involvement of more than 275 dedicated staff with the motto of Integrity, Solidarity and Charity.

The Dream school has grown in leaps and bounds by the priceless effort of Shri. Gerald Selvaraja, the Chairman to make his dream a reality. A team of hardworking educational calibres comprising of Director/Principal, Chief Administrator, Academic Advisors, Academic Supervisors, highly qualified and experienced teaching staff and well trained non teaching staff work for the betterment of the students.

A school is a happy home, a sacred shrine, a social centre, a state in miniature and bewitching brindavan, all beautifully blended into synthetic structure. The mission of the school is not limited to only reading and writing, but also to promote character formation, personality development, inculcating discipline and fostering good values. The school strives hard to give value based education. The campus of Bethlahem covers an area of more than 12 acres with a lush green environment and spongy lawns. The hills at the background add beauty to the entire campus.

The school not only concentrates on academic activities but also on sports to bring up the students with sound mind. The students use the football ground and cricket ground in the school for outdoor games. The students have bagged various prizes in different categories of sports. In the academic year 2019-2020, students won three state level hoping champion, four district level prizes and six zonal level prizes. To make the school atmosphere pleasant, a beautiful garden is maintainand for kids, and play station for their recreation. The school transport plays a pivotal role for the children's to and fro journey.

The astounding success of the school in this short span of time is due to the relentless perseverance to promote the total growth of the child's physical, emotional, moral and in short integrated personality. It offers exceptional opportunities to the students to learn in a conducive atmosphere and the students are motivated to achieve the best possible result.



# BETHLAHEM

## COLLEGE OF EDUCATION

Bethlahem College of Education, a leading self-financing Teacher Training Institution, was founded by Shri.Gerald Selvaraja under Nesamony Memorial Trust in 2005, with the primary objective of imparting Teacher Training Education to the weaker sections of the society with a Christian sense of service. The aim of the Management is to bring this Institution to the International standards of learning with the Motto "Arise and Shine". The college is affiliated to Tamil Nadu Teachers Education University, Chennai and offers B.Ed and M.Ed Programmes. Being one of the top most leading colleges in Kanyakumari district, the College provides global exposure to the students in the teaching field with an unfettered space and hope.

The college has the unique credit of Accreditation by NAAC with an 'A' Grade and a CGPA of 3.23, ISO 9001:2008 from BMQR, National Educational Excellence Award from World Education Convention, New Delhi, Vocational Excellence Award from Rotaract Club, Kalvi Arivalayam Award from Kurunji Kabilar Tamil Sangam and Best Institutional Award from Lions Club of Royal Excellence since 2009.

In the pursuance for quality assurance, quality up-gradation, assessment and accreditation, and institutionalization the college has established the Internal Quality Assurance Cell(IQAC).

The college has augmented its infrastructure systematically and continuously over the years. The college has state of the art infrastructural facilities like adequate classrooms, laboratories, computing equipment, staff rooms, conference halls, seminar hall, reading room, ramps for the physically challenged students, etc.

The college gives priority to the holistic development of the students outside the classroom through co-curricular, extra-curricular and field-based activities. Focus is on student-centered learning pedagogies that encourage students to become involved in their own learning and thereby become active participants in the educational process.

The Institution provides special training for the students to take part in collegiate, inter-collegiate, inter-zonal, State and National level sports and game events. Placement Cell helps and guides the students to seek job opportunities through placement drives conducted on and off the campus and organizes activities like Placement drives, lectures on placement opportunities etc.

The college conspicuously takes efforts by empowering and educating students to face global challenges of the future and making them competent in challenging the global tasks. As an outcome of this, students have left indelible marks in various aspects which are reflected in college vision and mission.



# BETHLAHEM

## NEW CBSE CENTRAL SCHOOL

Bethlehem New CBSE Central School was started on 16<sup>th</sup> May, 2018 by Bethlahem group of institutions which is managed by the Nesamony Memorial Trust, Karungal. The entire campus of the school gives a good learning atmosphere to the students. The motto of the Institution is Integrity, Solidarity and Charity. BNCBSE School is a co-educational institution which offers education from Pre-KG to grade VII. The school is affiliated to the Central Board of Secondary Education (CBSE). The school has tie-up with international academics and offers different academic programmes to students.

For the Montessori kids, the school has colourful activity room, play materials and a play area. The maximum intake for each class is only 20. Each class is supported by a co-teacher who can give extra care for the weak students. The classrooms in the school are spacious and are equipped with interactive smart board, projectors and chalk board.

The school has a well-stocked library with more than 10000 books on different topics. It facilitates a large resource bank of periodicals, encyclopedia and books that offer an amazing variety of learning experiences for all age groups. A scientific temperament is nurtured through fully equipped and suitably designed laboratories. The students use the school transportation facility managed by trained transport staff.

To improve the sport talent of the students, the school has a large playground and world class facilities to play games such as chess football, basketball, tennis, cricket, Kho-Kho, badminton, skating and athletics. A separate outdoor kids play area equipped with host of slides and swings is committed to the younger kids. The activities such as sports, yoga, arts, crafts, horse riding, dance, and music are part of curriculum in the school.

In addition to the common subjects, the school conducts special classes for value education, general awareness and personal safety education. Apart from learning the contents in the books, the school also motivates the students to participate in Science Olympiad Examination, Intelligence quiz and Robotics Competition.

Rigorous program of inquiry and study in the school empower students to exercise their intellectual curiosity, expand their understanding and develop critical skills for future success. And also the emphasis on character and values changes each student to be a person of integrity, a contributing member of school community and a thoughtful and involved citizen of the world.



# BETHLAHEM

## HILL SIDE INTERNATIONAL SCHOOL

Bethlehem Hillside International School started its humble journey in 2017. It was systematically envisioned and brought out by its founder Shri. Gerald Selvaraja, principally an educationist with radical thinking. The school is effectively managed by Nesamony Memorial Trust. The school adheres to Montessori Method of education at the pre-primary level and follows ICSE curriculum for the primary and upper primary.

The school has proven to be one of the best schools in the closer vicinity with its widely recognized international standards of facilities such as Hi-Tech classrooms, spacious and sophisticated laboratories, ample and well-equipped playground with trained coaches and qualifies teaching staff. A customized learning experience has been created whereby every child is included in the learning programme. An emphasize is placed on all inclusive international education which necessitates each student to identify his/her unique needs. Based on students' requirement, remedial measures are continuously taken for those students who are actually slow learners, and that becomes our strength.

A greater importance is given to strategies nurturing mental tools, as per the requirement of the curriculum, which extend to mental abilities, enabling students to solve problems and create solutions in real world. Being an International school, children, right from EC-1 (Early Childhood) onwards, are nurtured with multiple intelligences, and are periodically tested within the digitized environment.

The well-qualified teachers act as facilitators and co-designers. They understand the learners' strength, weakness and preferences. On the whole, the school ensures that learners receive an appropriate placement and support. Students also enjoy various CCA all through the year.



## BETHLAHEM COLLEGE OF ARTS & SCIENCE

Nesamony Memorial Trust was established, under the visionary Leadership of Shri.Gerald Selvaraja, the Founder and Managing Trustee. In 2003 it left its footprints in the educational firmament with the aim of providing quality education to the weaker sections of the society by establishing Bethlahem Matric School. Later it spread its wings to Bethlahem College of Education, Bethlahem Institute of Engineering, Bethlahem Hillside International School and Bethlehem New CBSE Central School. Under these wings Bethlahem College of Arts and Science was started exclusively for women in the year 2019. The College is located in a serene environment at Nadutheri near Karungal, a hamlet in Kanyakumari District, the southern most tip of Tamil Nadu. The College is instrumental in imparting knowledge and developing the skills of young women, and offers undergraduate courses in English, Physics, Mathematics and Commerce.

Bethlahem College of Arts and Science has been maintaining high academic standards and is equipped with latest teaching methodologies, committed faculty, recreational facilities, well designed buildings, transportation and hostel facilities. Each department has its own laboratory to meet the requirements for carrying out academic works and is fully equipped with advanced equipments. A well stocked library with internet facility is available for enriching the academic abilities of the students. Career Guidance and Counseling Cell enables the students to achieve positive personality development and the Placement cell actively trains students to get jobs. Well spaced and hygienic canteen in the campus provides food in time. Ample opportunity is provided for personal development through extra-curricular and co-curricular activities. The college provides indoor and outdoor sports facilities including playground and modern gymnasium.

Students are very well prepared for the complex and dynamic world they will step into, being intellectually adept, technically sharp, and socially aware. The institution not only provide students with quality education but also groom them to face life with confidence.

# YEAR PLAN 2019-2020

Sl.No	Date	Event	Department	Coordinators
1.	08.06.2019	Alumni meet	College	Dr.C.Emmy Prema
2.	01.07.2019	Road Safety Awareness Program	College	Prof.C.M.EdwinThurai Prof.M.Merlin
3.	17.07.2019	Invited Talk	EEE	Prof.N.R.Belston Raja
4.	19.07.2019	Seminar Cum Workshop	Civil	Prof.S.Shibu Jain
5.	24.07.2019	Bridge Course	S & H	Prof.A.Little Mary
6.	26.07.2019	Invited Talk	Automobile	Prof.D.Gladson
7.	29.07.2019	Invited Talk	Mechanical	Prof.I.Living Prephet
8.	30.07.2019	Motivational Program	CSE	Prof.S.Biron Gifty
9.	30.07.2019	Motivational Program	IT	Prof.P.Abitha Rose
10.	30.07.2019	Technical Quiz	ISTE	Prof.A.Arul Edwin Raj
11.	01.08.2019	Industrial Visit	Mechanical	Prof.M.Amala Prabin Prof.A.Francis Felix
12.	04.08.2019 - 08.08.2019	Educational Tour	EEE	Prof.J.Joe Chandran
13.	07.08.2019	Introductory Meeting for First Year Students	S & H	Prof.M.Saravanan
14.	07.08.2019 - 11.08.2019	Educational Tour	ECE	Dr.SA.Praylin Selva Blessy

15.	09.08.2019	Educational Tour	EEE	Prof.B.Sugad Singh
16.	09.08.2019	National Level Technical Symposium	CSE	Prof.G.Marly
17.	09.08.2019	National Level Technical Symposium	IT	Prof.S.Sajitha Kumari
18.	15.08.2019	Independence Day	College	Mr.J.Aslin Sujan Ms.M.Minimole
19.	19.08.2019 - 23.08.2019	Industrial Visit	CSE & IT	Prof.V.Stanlin Preeja Prof.R.Jegana
20.	20.8.2019	Industrial Visit	Civil	Prof.SShijilin Prem Shiold
21.	22.08.2019	National Level Technical Symposium	ECE	Dr.C.Emmy Prema
22.	27.08.2019 - 31.08.2019	Educational Tour	Automobile	Prof.X.Roshan Xavier
23.	27.08.2019	Motivational Program	ISTE	Prof.A.Arul Edwin Raj
24.	28.08.2019 - 31.08.2019	Educational Tour	CSE & IT	Prof.L.Febin Rani Prof.M.B.Anushlin Leena
25.	29.08.2019 - 31.08.2019	Industrial Visit	CSE	Prof.S.Sajitha Kumari
26.	29.08.2019	Motivational Program	S & H	Prof.C.Ahino
27.	30.08.2019	National Level Technical Symposium	EEE	Prof.B.Sugad Singh
28.	07.09.2019	Onam Celebration	College	Dr.D.P.Abhilash
29.	13.09.2019	Industrial Visit	ECE	Prof.C.M.Edwin Thurai
30.	16.09.2019 - 20.09.2019	Entrepreneurship Awareness Program	EEE	Dr.L.Femila Prof.G.Prabin Raja Prof.P.Libin Jacob

31.	17.09.2019	Drug Awareness Program	College	Prof.S.Japdrew Prof.D.Gladson
32.	18.09.2019	National Level Technical Symposium	Mechanical	Prof.I.Living Prephet
33.	18.09.2019	PG Inauguration	College	Prof.X.Roshan Xavier
34.	19.09.2019	Anti-Ragging Awareness Program	College	Prof.S.Biron Gifty
35.	20.09.2019	National Level Seminar	S & H	Dr.L.Femila Prof.A.Edwin Bright Singh
36.	07.11.2019 - 08.11.2019	National Level Seminar	EEE	Dr.L.Femila Prof.K.Christal Saji
37.	06.12.2019	Faculty Development Program	College	Prof.M.Jegan Lal
38.	20.12.2019	Christmas Carol Contest	College	Prof.R.Jeen Retna Kumar Prof.R.Diana
39.	21.12.2019	Christmas Day Celebration	College	Prof.B.Sugad Singh Prof.S.Austin Sweety
40.	13.01.2020 - 20.01.2020	National Service Scheme - Camp	College	Prof.C.M.Edwin Thurai
41.	13.01.2020 - 24.01.2020	Educational Tour	Mechanical	Prof.I.Living Prephet
42.	23.09.2019 - 24.01.2020	Software Training Program	Civil	Prof.M.Jegan Lal
43.	22.01.2020 - 31.01.2020	Educational Tour	Automobile	Prof.S.Siga Selvin
44.	28.01.2020	Blood Donation Camp	College	Mr.C.Stalin Ms.M.Minimole
45.	31.01.2020	Motivational Talk	S&H	Prof.P.S.Abitha
46.	31.01.2020	Educational Tour	CSE & IT	Prof.G.Marly

47.	07.02.2020	Industrial Visit	ECE	Prof.M.Merlin
48.	14.02.2020	Seminar	S & H	Prof.A.Little Mary
49.	14.02.2020	Industrial Visit	Mechanical	Prof.M.Amala Prabin
50.	19.02.2020	Guest Lecture	S & H	Prof.D.Christal Sugitha
51.	20.02.2020	International Conference	ECE	Prof.A.Arul Edwin Raj
52.	25.02.2020	Industrial Visit	Automobile	Prof.S.Prem Kumar
53.	25.02.2020	Industrial Visit	Automobile	Prof.S.Siga Selvin
54.	25.02.2020	Motivational Talk	Mechanical	Prof.C.Arul Jerman Prof.M.Amala Prabin
55.	26.02.2020	Guest Lecture	S & H	Prof.G.N.Sandhya
56.	26.02.2020 - 28.02.2020	Cultural Fest	College	Prof.S.Biron Gifty
57.	04.03.2020	Sports Day	College	Mr.C.Stalin Ms.M.Minimole
58.	06.03.2020	Annual Day	College	Prof.D.Shine Rajesh
59.	07.03.2020	Graduation Day	College	Dr.L.Femila
60.	11.03.2020	Women's Day	College	Prof.K.Christal Saji
61.	13.03.2020	National Conference	Civil	Prof.S.Shijilin Prem Shirolld
62.	13.03.2020	Industrial Visit	EEE	Prof.J.Joe Chandran

63.	15.03.2020	International Conference	Mechanical & Automobile	Prof.M.Abraham Subaraj Prof.D.Ben Samuel
64.	19.03.2020	Debate	ISTE	Prof.A.Arul Edwin Raj
65.	20.03.2020	Field Trip	S & H	Prof.A.Thaddeus
66.	20.03.2020	Farewell Day	Automobile	Prof.S.Prem Kumar
67.	23.03.2020	Farewell Day	Mechanical	Prof.A.L.Prejeesh
68.	24.03.2020	Farewell Day	Civil	Prof.S.Shijilin Prem Shirol
69.	25.03.2020	Farewell Day	EEE	Prof.T.Anitha Dalbin
70.	26.03.2020	Farewell Day	CSE	Prof.S.Biron Gifty
71.	26.03.2020	Farewell Day	IT	Prof.M.B.Anuslin Leena
72.	27.03.2020	Farewell Day	ECE	Dr.SA.Praylin Selva Blessy
73.	28.03.2020	Hostel Day - Boys	Hostel	Prof.J.Jinish John
74.	28.03.2020	Praise & Worship	College	Prof.M.Saravanan Prof.Jenit S Barnabas
75.	29.03.2020	Hostel Day - Girls	Hostel	Ms.V.Kavitha
76.	30.05.2020	Alumni Meet	College	Dr.C.Emmy Prema





# BETHLAHEM

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