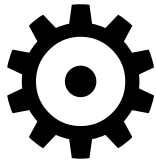# ICERYX

EDITION
JAN - APRL 2021

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2021

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FOREWARD

Pandemic situation has made us to suffer a lot, Global crisis has already began hitting stats. Many people's life from all over the world is at stake. Yet we don't give up, No matter what. World is too big as our heart , we cannot let a virus to win us in any way. We are the Reviving energy to this world. Lets join hands to win this battle, and make this world a better place.

FROM THE EDITORS DESK

Dear readers,

It's our pleasure to provide you with interesting articles.From this edition, the magazine of ICERYX is getting its new form.Hope you would like to read it this way. Many new measures have been taken to bring in more fervent readers for our magazine. From the Public Relations team, we express gratitude to everyone who supported us in this endeavor. Stay tuned on to update yourself with the deeds of our department as well as the outside world. Happy reading!

PR TEAM

MUKESH.P	SHARAN. R	**1ST YEARS**
VIGNESH.S		
SHERENE.G		
HARI VARSHINI.S		

REGENA ARSHINI	**2ND YEARS**
MOHAMED YAHYA	
BHARATH SAMUEL	
SHARLENE .A	

HARIHARAN.T	VASUNDRA.R	**3RD YEARS**
SHIVA SHANKAR.A	SWETHA.R	
SURYA PRAKASH.D		
PRANAV KUMAR.S		

MAHALAKSHMI.S.P	**4TH YEARS**
SHARVIN SHAKESH.P	
AKASH SAMI. R	
SURYA.S	

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CLAD

Certified LabVIEW Associate Developer (CLAD)
The Certified LabVIEW Associate Developer Certification indicates a broad working knowledge of the LabVIEW environment, a basic understanding of coding and documentation best practices, and the ability to read and interpret existing code.

CONGRATULATION

20 out of 35 final year students of ICE department are cleared **Certificated Associate Developer Examination (CLAD)** conducted on 21-07-2020, 02-07-2020, 06-08-2020, 22-06-2020 and 02-03-2021 and received an **International Certification** from **National Instruments** with validation of two years. hereafter, the following students are allowed to use **Certified associate developer Emblem** in their profile.

CLAD CERTIFIED STUDENTS LIST

S.No.	Date	Batch Number	Name
1.	02-07-2020	205002	Ahamed Zuhoor . A.G
2.	02-03-2021	205003	Akash.T
3.	02-03-2021	205007	Arjun.M
4.	02-03-2021	205008	Arthiya.M
5.	06-08-2020	205010	Buvaneshwari.S
6.	02-03-2021	205014	Fahad.M
7.	21-07-2020	205026	Krithika.V
8.	02-03-2021	205031	Mahalakshmi.S P
9.	02-03-2021	205037	Nazeer Ahamed. B
10.	22-06-2020	205038	Nisha Francy.S
11.	02-03-2021	205040	Ragavi.S
12.	02-03-2021	205041	Rahul.J
13.	02-03-2021	205045	Sabthami.M
14.	02-03-2021	205048	Sam Andrew.B
15.	02-03-2021	205050	Sharvin Shakesh.P
16.	02-03-2021	205054	Sneka.C
17.	02-03-2021	205055	Sounthiriya.G M
18.	02-03-2021	205058	Surya. S
19.	02-03-2021	205060	Tharik Ahamadu Mohamed Dheen.M
20.	02-03-2021	205061	Yazhini.C

TOI

SARANATHAN COLLEGE OF ENGG GETS A+ GRADE IN NAAC ASSESSMENT

Trichy: Saranathan College of Engineering (SCE) in Trichy has secured A+ grade in the recent NAAC assessment by scoring3.27 points on a scale of 4.

The college that was started in 1999 applied for the NAAC accreditation for the first time this year.
A three-member peer team including a chairman, member secretary and a member for qualitative assessment visited thecollege on April 8-9.

The assessment of the peer team constitutes 30% of the total assessment process of NAAC. Rest of the 70% depends on the110-page detailed self-study report submitted by the institution followed by peer team visit for qualitative assessment.

.
While the institution is evaluated on seven major parameters, SCE secured well in terms of curricular aspects besidesinfrastructure and learning resources.
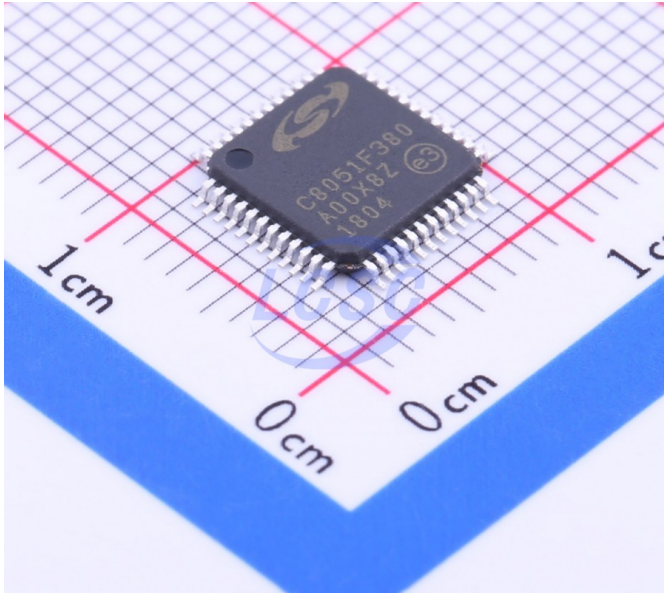
"The whole accreditation process was challenging considering the high standards of the assessment process. We are satisfiedwith the outcome even though we believe that we are capable of getting an even higher score," said D Valavan, SCE principal.

The NAAC accreditation will help the institution to get autonomous status besides research grants from various centralagencies, he said.

He said the college already has NBA accreditation for six undergraduate branches of engineering out of total seven. We areplanning to open two more branches next year, he added.

SILICON LABS TO SELL UNIT TO SKYWORKS FOR $2.75 BILLION

HARIHARAN T, 3RD YEAR

Silicon Laboratories has announced that it is to sell its infrastructure and automotive business to Skyworks Solutions in a deal worth $2.75 billion.

The move suggests that Silicon Labs is planning to focus on wireless chips for the smart home market.

The company has focused increasingly on the internet-of-things (IoT) market, in recent years, and has been selling wireless chips for smart home devices and winning a growing number of significant deals with manufacturers.

It's success in this space has been due, in part, to its including the different wireless standards that are currently being used in a single chip, so that these devices can be used across the various smart-home networks from the likes of Alphabet, Google and Amazon.

Silicon Labs is selling its power and isolation chips used in electric cars, among other products, as well as all the intellectual property and 350 employees for the products.

According to Reuters, Silicon Labs' Chief Executive Tyson Tuttle said that IoT chips now made up about 60% of the company's business,

with revenue growing at more than 20% per year and required different customer bases and supply chains than was the case with the company's automotive and infrastructure businesses.

Skyworks said that it hopes to use the acquisition to expand further into growing sectors including electric and hybrid vehicles, industrial and 5G wireless sectors and plans to fund the deal with a combination of cash and debt financing.
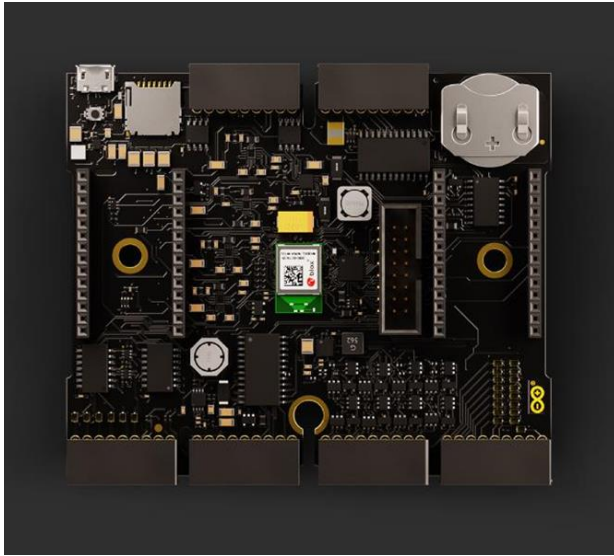
The deal is expected to close in the third quarter of 2021.

ARDUINO PRO LOOKS TO REDEFINE SMART AGRICULTURE WITH NEW EDGE CONTROL

SHIVAA SANKAR, 3RD YEAR

The Arduino Edge Control can be expanded with 2G, 3G, CatM1, or NB-IoT modems, Lora, Sigfox, Wi-Fi, or Bluetooth connectivity and can be managed remotely via the Arduino Cloud or third-party solutions and can be powered via solar panels, which means the Edge Control can be used in the most remote of locations.

The Edge Control connects sensors, provides real-time monitoring and can automatically drive actuators –

such as latching valves commonly used in agriculture reducing production-related risks. Through this advanced solution, smart agriculture sensors are able to collect data about weather conditions, soil quality, crop growth, and more. The data is then sent to the Arduino IoT Cloud, where valuable analytics can be retained to support business at different levels – enabling better decisions about equipment efficiency, plant growth, and staff productivity, or even automating processes such as fertilization, irrigation, and pest control to boost the quality of crops and minimize human error.

During product development, Arduino partnered with Challenge Agriculture to integrate the Edge Control into Irriduo, the French company's smart irrigation solution and water management application, the first in a new generation of water management products.
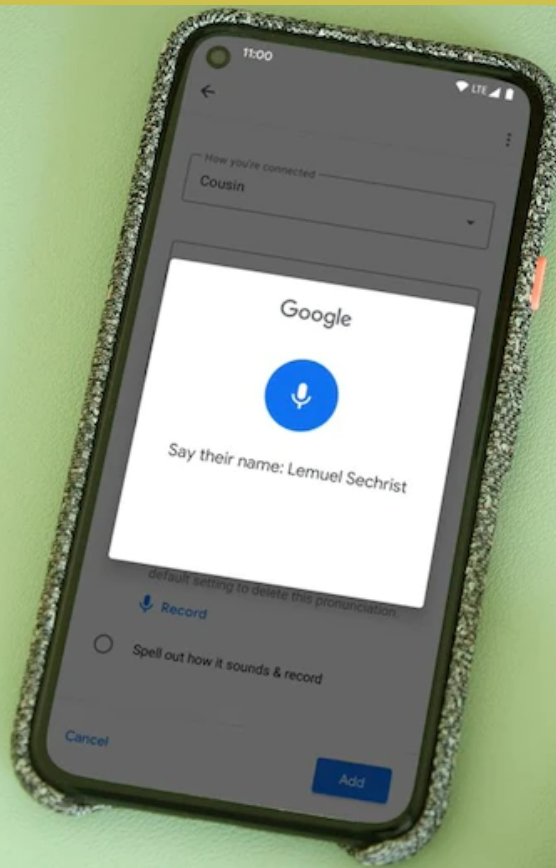

Combining Challenge Agriculture's R2-DX with the Arduino Edge Control, Arduino MKR GSM1400 for connectivity and firmware, and including access to a dedicated cloud, the Irriduo is able to take a closer look at the soil to actively tell farmers how to achieve the best yield while minimizing water consumption and maximizing soil preservation.

Arable farming comes with a set of unique challenges: remote locations, changeable soil conditions based on field topography, and specific crop rotation schedules to mention but a few. Challenge Agriculture and Arduino have worked to create a solution that looks to address these needs, with 6 sensors per field providing accurate readings for 6 crop cycles of 3-4 months each (i.e. 4,000 measurements), or for as long as 4 years in the case of perennial crops.

Irriduo also reacts in real-time to changing conditions, which is especially important in regions suffering from droughts, where strict regulations are enforced to limit the volume of water that can be used and the time of day/night irrigation can be activated.

Commenting on the launch, Arduino's CEO Fabio Violante said, "People are constantly needing to solve everyday problems and improve productivity through their own creativity and ingenuity, and we truly believe they can do this with the Edge Control. We are ready to help companies take the next step in agricultural automation, providing smart irrigation solutions and the ability to apply machine learning on the edge to optimize crop production and increase yields."

GOOGLE ASSISTANT CAN NOW BETTER UNDERSTAND AND PRONOUNCE UNIQUE NAMES

PRANAV KUMAR, 3RD YEAR

Google Assistant update will help better the recognizing of speech and in pronouncing names. Google's update for its virtual assistant will help recognize and pronounce unique names along with helping it understand the context of the conversation shared by the users. The search giant will apply its *Bi-directional Encoder Representations from Transformers (BERT)* system to improve the quality of the conversation between Google Assistant and the users. The update is currently available on Google smart speakers in the US and will expand to smartphones and smart displays in the near future.

Announcing the update through a blog post, Google has been attempting to make its Assistant more user-friendly as it tries to better recognize speech and pronounce unique names than it did before.

Google announced that users can now teach the virtual assistant to enunciate and recognize unique names. The company said that the Assistant will listen to the users' pronunciation and remember it, without recording the voice of the user. Currently the feature is available only in English but Google plans to expand to include other languages soon.
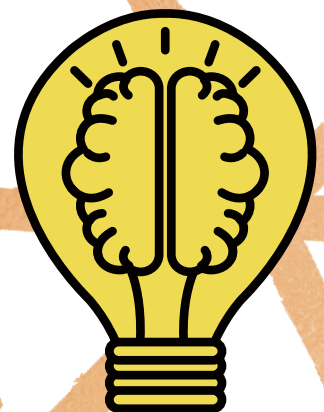
Another important feature introduced with the update is the ability to recognize the speech of a user and the context of the conversation in an easier manner. For this, Google has rebuilt Assistant's *Natural Language Understanding (NLU)* models so it can understand context while also improving its "reference resolution." The search giant said that this update uses machine learning technology powered by BERT. The company claims that due to this technology, Google Assistant can now respond with nearly 100 percent accuracy to commands for alarms and timers. Also, it is planning to bring this feature to other devices than just Google's smart speakers that it is currently available on.

Google also applied BERT to improve the quality of the conversation between the Assistant and the users. Google Assistant will now use the users' previous interactions and understand what is being displayed on the screen to respond to follow-up questions aiding in a more natural conversation.

DID YOU KNOW?

VASUNDRA , 3RD YEAR

1.The world's first computer mouse was invented at Stanford Research Institute (SRI) in the 1960s. The equipment was called "X-Y position indicator for displays".

2. A teaspoonful of neutron star would weigh 6 billion tons

3.Hawaii moves 7.5cm closer to Alaska every year

4. 10. It takes 8 minutes, 19 seconds for light to travel from the Sun to the Earth

5. The poison from dieffenbachia a.k.a. mother-in-law plant can cause temporary inability to speak

6.Charles Darwin and Joseph Hooker started the world's first terra forming project on Ascension Island in 1850. The project has turned an arid volcanic wasteland into a self-sustaining and self reproducing ecosystem made completely of foreign plants from all over the world.

7.A neutron star is so dense that if an object was to be dropped theoretically from one meter above the star's surface, it would hit the surface at a speed of 7.2 million km per hour.

8.The blue whale can produce the loudest sound of any animal. At 188 decibels, the noise can be detected over 800 kilometers away.

9.The word "scientist" did not exist until 1833. Before that, they were known as "natural philosophers."

10.Bluetooth was named after Harald Bluetooth, who was the King of Denmark 1000 years ago.The Bluetooth logo is made from the Nordic runes of his initials.

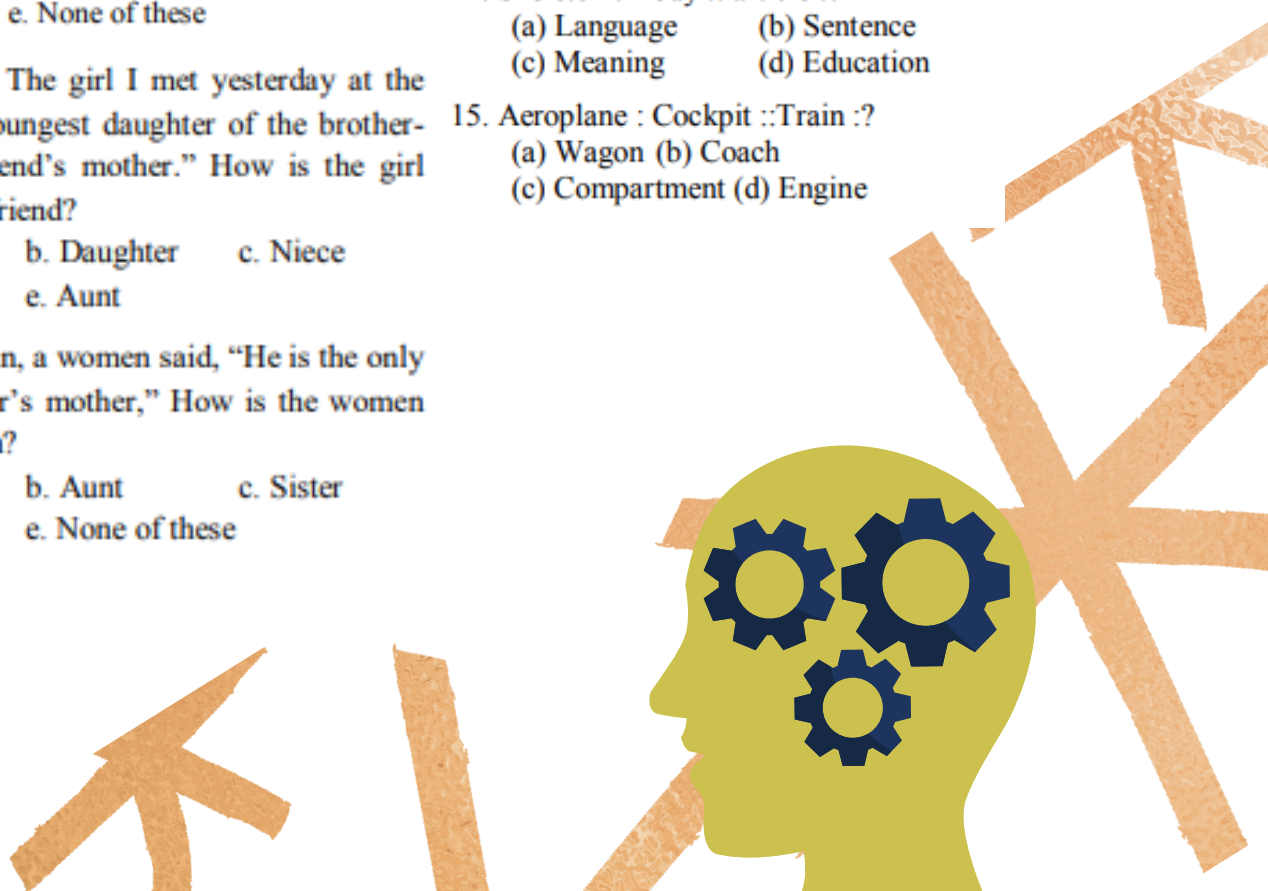11.111,111,111 x 111,111,111 = 12,345,678,987,654,321

APTITUDE

1. If the number 91876 * 2 is completely divisible by 8, then the smallest whole number in place of * will be?
   a. 3   b. 4   c. 2   d. 1

2. A number when divided by 5 leaves a remainder of 4, when double (i.e., twice) of that number is divided by 5 the remainder will be?
   a. 0   b. 1   c. 3   d. can't be determined

3. How many numbers are there between 200 and 800 which are divisible by both 5 and 7?
   a. 35   b. 16   c. 17   d. can't be determined

4. Find the prime factors of the following?
   i.   210
   ii.   3315
   iii.   1197

5. Find the total number of factors of 540?
   a. 24   b. 20   c. 30   d. none of these

6. In a survey it is found that ITC sells the cigarettes of Rs.15990 per day. If the cost of a pack is not less than Rs.100 then what can be the price of each pack which it sells per day is?
   a. 150   b. 420   c. 78   d. 205

7. For which of the following 'n' is the number $2^{74} + 2^{2058} + 2^{2n}$ a perfect square?
   a. 2012   b. 2100   c. 1150   d. 2020

8. What is the highest power of 7 which can divide 5000! Without leaving a remainder?
   a. 4998   b. 714   c. 832   d. 816

9. What is the remainder obtained when $1! + 2! + 3! + ... + 77!$ Is divided by 7?
   a. 0   b. 5   c. 4   d. can't be determined

10. A number when divided by 3, 4, 5, 6, 7 leaves the remainder 2, 3, 4, 5 and 6 respectively. Find the largest 5 digit number?
    a. 99940   c. 99989
    b. 99959   d. 99912

11. Mr. Joseph's first wedding day was on 23rd May 1992. What was the day?
    a. Saturday   b. Friday
    c. Thursday   d. Sunday

12. If Swathi's birthday fell in January 1988, on one of the Mondays, the day on which she was born is
    a. Sunday   b. Monday
    c. Tuesday   d. Thursday

13. Today is 30th December, Monday, a leap year. What will be the day of the week on this date 5 years hence?
    a. Wednesday   b. Friday
    c. Tuesday   d. Sunday

14. On what dates of July, 1996 Wednesday fall?
    a. 3rd, 10th, 17th, 24th b. 5th, 12th, 19th, 26^{th}c. 2nd, 9th, 16th, 23rd d. 6th, 13th, 20th, 27th

15. Priya got selected as an IAS officer on June 6th 2010. What was the day?
    a. Sunday   b. Monday
    c. Tuesday   d. Wednesday

REASONING APTITUDE

1. Anil introduces Rohit as the son of the only brother of his father's wife. How is Rohit related to anil?
   a. Cousin   b. Son   c. Uncle
   d. Son-in-law   e. Brother

2. Poniting out to a Photograph, a man tells his friend, "She is the daughter of the only son of my father's wife". How is the girl in the photograph related to the man?
   a. Daughter   b. Cousin   c. Mother
   d. Sister   e. Niece

3. Pointing out to a lady, Rajansaid," She is the daughter of the women who is the mother of the husband of my mother." Who is the lady to Rajan?
   a. Aunt   b.Granddaughterc.   Daughter
   d. Sister   e. Sister-in-law

4. Pointing to a man on the stage, Rita said," He is the brother of the Daughter of the wife of my husband." How is the man on the stage related to Rita?
   a. Son   b. Husband   c. Cousin
   d. Nephew   e. Brother-in-law

5. Pointing to a girl in the photograph, Amar said, "Her mother's brother is the only son of my mother's father." How is the girl's mother related to Amar?
   a. Mother   b. Sister   c. Aunt
   d.Grandmother   e. None of these

6. Rita told Mary," The girl I met yesterday at the beach was the youngest daughter of the brother-in-law of my friend's mother." How is the girl related to Rita's friend?
   a. Cousin   b. Daughter   c. Niece
   d. Friend   e. Aunt

7. Introduction a man, a women said, "He is the only son of my mother's mother," How is the women related to the man?
   a. Mother   b. Aunt   c. Sister
   d. Nice   e. None of these

8. If DIAMOND is coded as VQYMKLV, how is FEMALE coded?
   (a) TUMYNU   (b) UVNZOV
   (c) UVNYNV   (d) TVNYNV   (e) TUMZOU

9. In a certain code 'have to go now' is written as 'to 1 now 2 have 3 go four and 'appearing for bank exam' is written as 'for 1 exam 2 bank 3 appearing 4. How will 'entry from this gate' be written in the same code?
   (a) This 4 gate 3 from 2 this 1
   (b) This 1 gate 2 from 3 entry 4
   (c) This 1 gate 2 entry 3 from 4
   (d) Entry 1 from 2 gate 3 this 4
   (e) Entry 4 from 3 gate 2 this 1

10. If ROSE is coded as 6821, CHAIR is coded as 73456 and PREACH is coded as 961473, what will be the code for SEARCH?
    (a) 246173   (b) 214673   (c)   214763
    (d) 216473   (e) None of these

11. Dog : Rabies :: Mosquito :?
    (a) Plague (b) Death
    (c) Malaria   (d) Sting

12. Glucose : Carbohydrate :: Soyabean :?
    (a) Proteins   (b) Vitamins
    (c) Minerals   (d) Legumes

13. Skirmish : War :: Disease :?
    (a) Medicine   (b) Patient
    (c) Epidemic   (d) Infection

14. Skeleton : Body :: article :?
    (a) Language   (b) Sentence
    (c) Meaning   (d) Education

15. Aeroplane : Cockpit ::Train :?
    (a) Wagon (b) Coach
    (c) Compartment (d) Engine

SPORTS ACHIEVEMENT

"13 *YEARS WAIT AND WE FINALLY MADE IT"*

Our Department Senthil Arasan of 3rd year , Subash and Ratnagiri took part in our college team and performed well. In First match against MIET - Senthil Arasan scored 40(32) and Ratnagiri with 4-0-23-1 and won the match against MIET and GCE and entered finals.
In Finals Senthil arasan scored 22(16) and Subash stood notout for 14(10)* and made the team win after 13 years

ANNA UNIVERSITY ZONALS
CRICKET (M)
WINNERS AFTER 13 YEARS
CONGRATULATIONS BOYS
PRAJEETH-AJAY-JAI VIGNESH-SENTHIL ARASAN-ARUN PRIYARAAJ-ARUMUGA VIGNESH-KIRTHIK-SUBASH-GANESH-RATNAGIRISH-SAMBUGESH-SAKTHIVEL-THAYANATH-SRI KRISHNA PRASATH - DINESH RAJA - MITHRAN

ANNA UNIVERSITY ZONALS
BASKETBALL (M)
RUNNERS UP
CONGRATULATIONS BOYS
VISWA-JONE-SUDARSHAN-JACKSON-SARAVANAN-EVAN JOSHWIN-ASHWANTH-ASWIN-PRAGA-PRAKASH-HARIHARAN

"Consecutive Runners-up for Two years"

Our Department Hariharan of third year took place in our college basketball team.
Our college team cleared the quarter finals with GCE and entered finals with anna university and grabbed Runners up for consecutively 2 years.

SPORTS ACHIEVEMENT

"Stepping up from 3rd to 2nd"

Our Department students Hemanth and Bharath Samuel of 2nd year took part in anna university zonals - chess tournament and won 2nd prize.

"All round performance by our department Benito"

Benito richardson of 3rd year took place in our college Hockey and Khokho team and won 2nd place in Hockey and 3rd place in Khokho

ANNA UNIVERSITY ZONALS

CHESS (M)
2ND PRIZE

CONGRATULATIONS BOYS
HEMANTH - BARATH SAMUEL - DINESH KUMAR - ARULARASAN - GIRIDHARAN - ARIVARASAN

ANNA UNIVERSITY ZONALS

HOCKEY (M)
RUNNERS UP

CONGRATULATIONS BOYS
ARI-MUKESH-NARESH-KARTHI-SRIRAM-SAKTHI-SNOW-
AJAY-SRINATH-SRIHARI-DHARSHAN-GOKUL-BENITO-
BALA-VICKY-SUKUNARAN-KISHORE

ANNA UNIVERSITY ZONALS

KHOKHO (M)
3RD PRIZE

CONGRATULATIONS BOYS
SURESH, ABISHEK, HARISH, JAI BALAJI, SARAVANAN, ROSHIN, UWAIS, SRINIVASAN, SRIRAM, BENITTO, GIRI, PARAMA

ART AND PHOTOGRAPHY

ART AND PHOTOGRAPHY

ART:
1. REGENA ARSHINI -2ND YEAR
PHOTOGRAPHY:
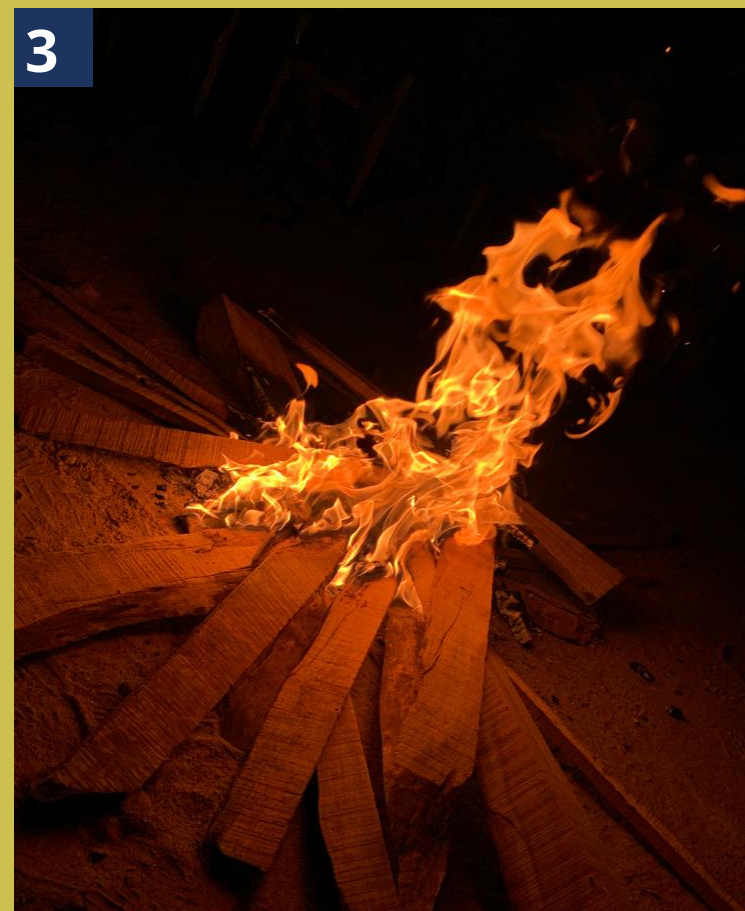2. MOHAMED YAHYA-2ND YEAR
3. BHARATH SAMUEL-2ND YEAR
4. HARI VARSHINI   - 1ST YEAR

Samsung Quad Camera
Shot with my Galaxy A31

ART AND PHOTOGRAPHY
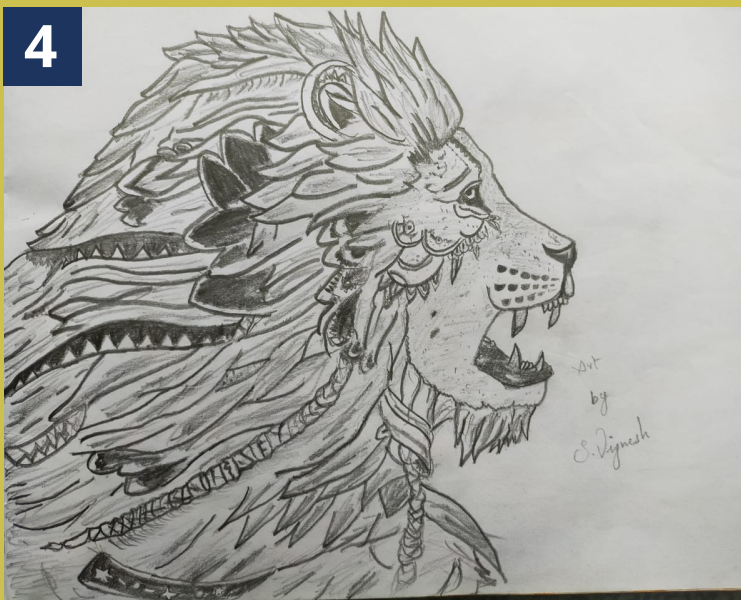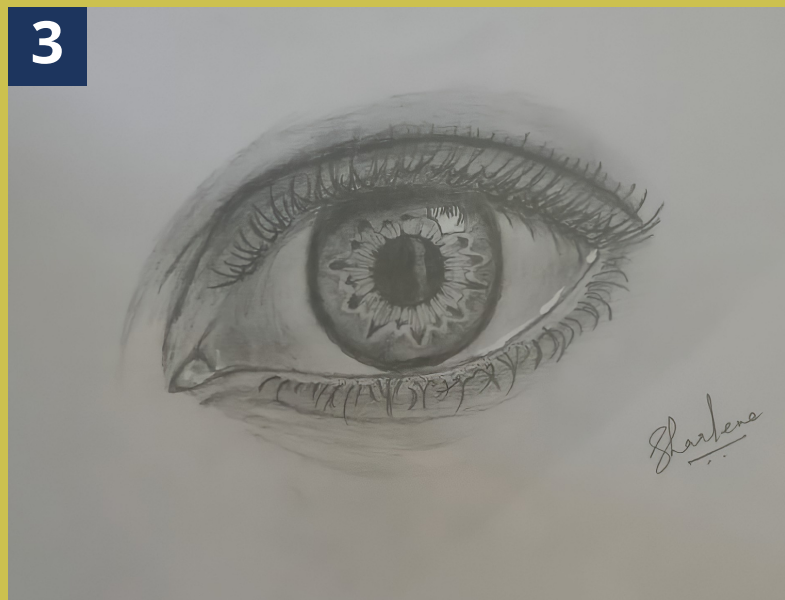

ART AND PHOTOGRAPHY

ART:
1.S. VIGNESH   - 1ST YEAR
2.SHERENE AMALIA- 2ND YEAR
3.A.SHARLENE   - 2ND YEAR
4.S. VIGNESH   - 1ST YEAR

TRAINING AND PLACEMENT ACTIVITIES

Our outstanding final year students have been placed in some of the prestigious companies.

S.No	Name	Company Name
1	AARTHI. R	TCS
2	AHAMED ZUHOOR. A G	CTS
		Infosys
3	MAHALAKSHMI. S P	Zentron Labs
4	SAM ANDREW. B	TCS
5	SHARVIN SHAKESH. P	Zentron Labs
6	SHRI HARI. S	TCS
7	SURYA. S	Infosys
		TCS
8	FAHAD. M	Fluxgen (Internship)
		IDBI
9	KIRTHIKA. V	Fluxgen (Internship)
		Chainsys
10	AKASHSAMI. R	Fluxgen (Internship)
11	LINGTAN. N	Chainsys
12	KAVIN. K V	IDBI
13	SABTHAMI. M	IDBI
14	SOUNTHIRIYA. G M	IDBI
15	KALKI. K	Sri Kannapiran Mills Limited
16	YAZHINI. C	Sri Kannapiran Mills Limited
17	SNEKA. C	Optithought
18	SURYALAKSHMI. R	Sri Mookambika Infosolutions Pvt Ltd