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CRES ECE MINDS

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



B. S. Abdur Rahman
Crescent
Institute of Science and Technology
Deemed to be University u/s 3 of the UGC Act, 1956

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"The future belongs to those who believe in the beauty of their dreams"
- Eleanor Roosevelt

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STRENGTH OF ECE

"Always deliver more than expected"
- the sole motto of these established individuals.

FROM VICE-CHANCELLOR'S DESK

Mahatma Gandhi once said, "Adaptability is not imitation. It means power of resistance and assimilation." As many great leaders believe, adaptability and innovation done in the right mixture is the way of our future. In this digital world, technology has equipped us to face the pandemic in an efficient way. The Department of Electronics and Communication Engineering has brought forth this magazine "Cres ECE Minds" that showcases the artistry and inventiveness of the department. This magazine is the proof that even at our lowest point we are open to the greatest change and sometimes a ray of hope is all the sunshine we need.

Dr. A. Peer Mohamed
Vice-Chancellor
B.S. Abdur Rahman Crescent
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FROM REGISTRAR'S DESK

I am happy to endorse the students e-magazine "Cres ECE minds" brought out by the students of ECE. The e-magazine contains a variety of interesting topics like Lexilens and Reusable Rocket. My good wishes to the students and faculty members who put their sincere efforts to bring this magazine.



Dr. A. Azad
Registrar
B.S. Abdur Rahman Crescent Institute of
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FROM DEAN'S DESK

**" A DREAM IS NOT THAT WHICH YOU SEE
WHILE SLEEPING IT IS SOMETHING THAT DOES
NOT LET YOU SLEEP "**

- DR. A P J ABDUL KALAM



The above quote suits the Electronics and Communication Engineering department as it best describes our aim in taking the department forward. ECE department, over the years, perfected the ability to aim high and embrace excellence by the Head of the department and the team of faculty members and students. Regularly the department builds intellectual prosperity to influence success in academics, quality placements, research, and development.

It is worth mentioning that the department has well-established bondage with industries and developed affiliates. They strive to train and equip their students to get placed in top multinational corporations by polishing the talent hidden in them. I believe strongly that the challenges can be confronted and resolved by presenting their achievements and skills through this magazine.

The onward march in the field of technical education and research continues every day, pushing us forward to reach greater heights. Tomorrow is too late, yesterday is over, and now is the perfect moment to start! I extend my warmest wishes to both the students and faculty members of the Electronics and Communication Engineering department and wish them success on their initiative.

Dr. D. Najumnissa Jamal
Dean/SECS
B.S. Abdur Rahman Crescent Institute of
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FROM HOD'S DESK



It is with great pleasure and pride that I peruse the pages of the ECE department magazine, in the illustrious annals of this department.

I laud the Editorial board for bringing out the magazine on schedule, no mean achievement in itself considering the time and efforts that have gone into it.

The field of Electronics and Communication is at the forefront of innovation today, charting new territories. Engineering education also has kept pace with the advancements. This magazine succinctly captures the essence of the technological advances and innovation happening in this area. It highlights the achievements of the students and faculty and poses interesting research questions for future generations of students. The creativity, innovation, and tireless pursuit of the students and faculty are showcased beautifully for the benefit of students and the general public alike.

I applaud the editorial team for the hard work and dedication they have invested in realizing this goal and wish my dear students success in all future endeavors. I also encourage the forthcoming batches of students to continue the great work that has been started today and to emulate the achievements of their seniors.

Dr. C. Tharini
Professor and Head ECE Department
B.S. Abdur Rahman Crescent Institute of
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ADHEEBA VASEELA

**MINDS
BEHIND THE
MAKING-OUR
EDITORIAL
BOARD
(FINAL YEAR)**

LATEST TECHNOLOGY
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MOHAMED MARZOOQ.M
SHIVA PRASHANTH

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NOORULLEYN SARA.H
SARAN.R
SHAIK MOHAMMAD JANIBASHA
MOHAMMED NADEEM

GAMING/PUZZLE

MOHAMED NAZEEM
MOHAMMED SHOAIB IBRAR.M.A
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**INTERVIEWS/
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**MINDS
BEHIND THE
MAKING-
EDITORIAL
BOARD
(THIRD YEAR)**

LATEST TECHNOLOGY
RISHUB C R

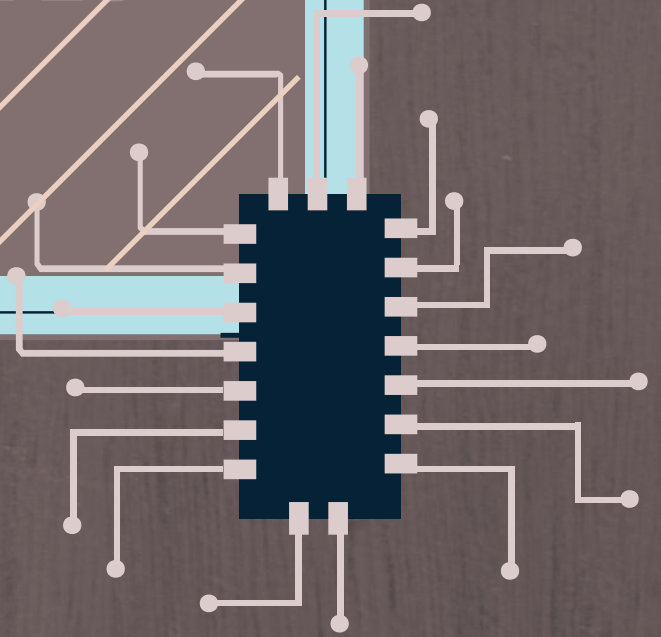
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MOHAMMED MEHRAN
ANJANA

GAMING/PUZZLE
SHIRIN RAFIA
SUMAIYA FATHIMA

POSTER
JANANI .S



TECHNOLOGY UPDATES



FuN fact!!

In 2015, there was a record 225 million placements done in the Vancouver BU.

LEXILENS

Beaune, Jan. 09, 2020 (GLOBE NEWSWIRE) -- Abeye, dedicated to creating smart eyewear for the health and wellness industry, is revolutionizing dyslexia with Lexilens. Already named a CES 2020 Innovation Award Honoree, Lexilens is the first solution of its kind that filters out symptoms of this disorder, empowering those with dyslexia to read and write seamlessly.

Dyslexia affects 10% of the world wide population(WHO),and on average two students per classroom. The disorder often leads to learning difficulties and low social confidence, as well as frustration by students, their teachers, and their families. There is no known cure for dyslexia and until recently the cause was unknown.

A 2017 French study identified the possible cause of dyslexia as being linked to overt symmetry between the two eyes. The French start-up Abeye, incubated by Atol les Opticiens group, the top French optical retailer with nearly 800 shops across the country, leveraged this discovery and new knowledge about the learning disorder to created an innovative approach, with Lexilens.

Lexilens is a smart eyewear solution based on patent technology. While using Lexilens glasses, children suffering from dyslexia are able to read and write seamlessly, instantaneously, and universally, in any language. For children, this means increased self-confidence as they are empowered to reach their potential. For teachers and families, this means less of a focus on the learning disorder, and more time to excel at other things. “At Abeye, our mission is to create smart eyewear for the heath and wellness industry. And personally, I am driven by innovations that ignite societal impact,” shares Michael Kodochian, game-changing engineer and Founder / CEO of Abeye. “As our international launch of Lexilens rolls out, and this smart eyewear solution becomes widely available, children suffering from dyslexia will be transformed as these individuals are empowered to reach their potential. Lexilens is instantaneous – you put them on and it works! The impact this will have on these children and their families will be extremely important. And the spin-off this will have on the class room as a whole will be exponential.”



Lexilens integrates high performance electrochromic lenses allowing the precise modulation of light needed for a faster and clearer reading. With Lexilens, Abeye has already been selected as a CES 2020 Innovation Award Honoree. Lexilens also received an award at SILMO, the eyewear industry trade show, recognizing that Lexilens respects the standards and norms of the eyewear industry.

Reference:

<https://www.abeye.tech/lexilens/>

<https://medpick.in/lexilens/>



-BY S. SHIRIN RAFIA
ECE-B, 3rd year

SMART WATCH VERSION 2

Our hybrid smartwatches are watches that look like a traditional watch, but function like a smartwatch. The sleek, traditional design of these watches makes it almost impossible to know it's powered by smart technology. Instead of a touchscreen face, these watches use the minute and hour hands to alert you to your phone notifications. With the Fossil smartwatch app, you'll be able to set up alerts and notifications on your hybrid smart watch with ease. Assign your top contacts to specific indices on your watch and watch as the minute and hour hands point to a specific number when a certain person is trying to reach you.

While wearing your hybrid smartwatch, you can track your calories burned, steps and distance traveled – you can even use it to monitor your sleep if you wear it overnight. Discovering the duration and quality of your sleep cycles has never been easier than with one of these hybrids. Use the app to set step goals for yourself and maximum your return on your exercise investment and also tweak your sleep schedule so you're getting as much quality rest as possible.



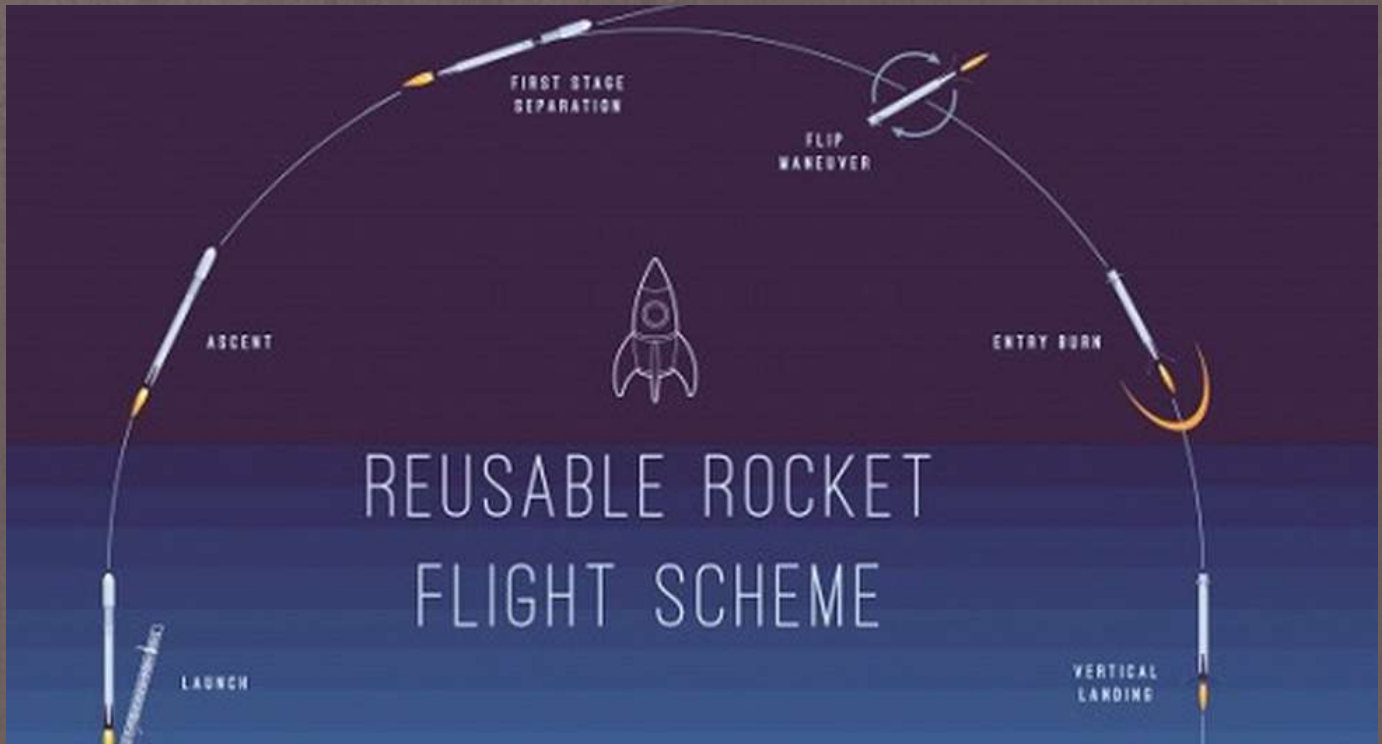
The app can chart your progress each day, week and month so you can get an accurate read of your sleep and activity and how you can accomplish more goals. You're going to love the functionality of our hybrid smart watches. Using the exterior buttons, you can take pictures with your phone, control your music, check the date and even more. Did we mention these watches have a battery life of up to 6 months? That's right, depending on usage, you can go a whole 6 months without charging your hybrid. When it's time to change the battery, be sure and check out our helpful tips on how to change a watch battery. Assign the features you use most to the outer buttons to give yourself a fully-customized experience.

Not only can you customize your watch buttons and top contacts, you can even customize the look of your hybrid. Our interchangeable straps allow you to personalize your look as often as you want. Each of our watches is designed to easily transition with you throughout your day and your many looks, we've also made these mix-and-match straps so you can achieve the exact look you want. Switch your straps from leather to stainless steel or even silicone – only you know the look you're going for and the schedule you have.



-BY RISHUB C R
ECE-B, 3rd year

REUSABLE ROCKET SYSTEM



It is a type of launching system which involves the usage of the entire rockets or some of the components for a future mission.

PURPOSE OF THIS SYSTEM

As we can see, it's rocket science and it takes millions of dollars to send rockets to space considering the high-risk involved, so with the help of this system we are not only able to create rockets at low cost but we can conduct more missions to explore the universe.

"If one can figure out how to reuse rockets like airplanes, then the cost of access to space will be reduced by as much as a factor of a hundred"

-Elon Musk (C.E.O of SpaceX)

HOW IT WORKS

Here is an example to explain how the system works with a Falcon 9 reusable rocket.

As you can see, after the first stage cuts off (still has fuel left) and the second stage separates via an explosive bolt ring, the first stage turns around with a nosecone guidance engine and fires three of the total 9 first stages engines to slow down enough to land on a boat in the water, or turn around completely and land back near the launchpad on a designated landing pad.

WHAT DOES IT CHANGE

This technology not only disrupts the entire space industry but also revolutionizes it. It opens up an entire mass industry and new technological fields in the future.

One of the main factors is cost reduction which helps many countries to conduct various research in space and explore the universe.

References:

Various news articles, Quora.



-BY VENKATESH .S
ECE-B, 1st year



MOVIE TECHNOLOGY BREAKDOWN

FuN fACT!!

Walking across a carpet can generate up to 35,000 V of static electricity.

THE MATRIX

The Matrix is an revolutionary science fiction movie directed by Lana and Lilly Wachowski and it was first premiered in 1999. The movie was well received by many critics and went onto winning four academy awards. Matrix was produced by Warner Bros. Entertainment and grossed over 460 million dollars worldwide, making it the fourth highest grossing movie in that year.

The movie is so popular not only for its plot or casting but for the remarkable use of technologies used in this movie.

The technology was done by a special effects house named ESC Entertainment, ESC Entertainment developed software program and other technologies for this movie that were never used in any other movies. ESC Entertainment employed many scientists, physicists, mathematicians and people who were skilled in the fluid dynamics & lightning theory.

The film reduced the CGI to the necessity, in some scenes the characters' bodies were used by making animatronic replicas. A specially designed set was created with the actors being supported by harness from above.

All of the pyrotechnics and resulting damages to the set including wood splinters, dust and ceramic fragments were real. The film's use of slow motion put emphasis on flying projectiles, dust and debris which brings a more gritty and heated feel to the action. The Matrix's CGI doesn't try to do the impossible. The focus remains on the actors filmed in live action and instead generates the world around them.

The film is a masterpiece of the science fiction genre, it's been 22 years since its first premiere and yet no movie could match the standards other than its sequel. This movie takes on a ride which will be remembered forever in History of cinema.



**- MISBAHULLAH SHERIFF,
4th YEAR, ECE A**

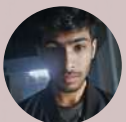
READY PLAYER ONE

Ready Player One is sci-fi action Directed by Steven Spielberg. The plot is set in 2045 when people seek to escape reality through the VR world named OASIS. Two guys called James Halliday and Ogden Morrow create this platform for their company 'Gregarious Games'. After Halliday's death his avatar (in the game) announces a game in which the first one to find the golden egg will be granted ownership of his company and his fortune. The golden egg is locked behind a gate which can be accessed only by using three keys and the keys can be obtained by completing three challenges. The protagonist takes up the challenge of finding the golden egg to get his big break.

This film is made to sound realistic because most of the tech in the movie is possible in real life for example the VR games and the treadmill they use for the game. Actually in the present moment we have these but its not as advanced as its shown in the movie. One of the most interesting tech is "Haptics Suits". The players wear these suits to depict touch through VR. They look like spandex suits like the one which Spiderman wears. In real life we have wearable tech exactly like the ones used in 'Ready Player One'. The Teslasuit (not related to Elon Musk's Tesla) can depict touches and experience the feel of the VR world. In the film the players use a Omni-Directional treadmill to walk and run in the VR world.They can travel in 360 degree angles at any speed.



In real life many companies have tried to make this Omni-Directional treadmill for VR but they failed. Although one company was bit successful but it isn't exactly as the one showed in the movie. Steven Spielberg used motion-capture technology to make the movie look more realistic. Motion-capture technology is used for recording the movements of people. Spielberg used this technique for the VFX in the movie. Digital Domain, ILM and territory studio worked with Spielberg on animation and VFX of the film. ILM took over the animation inside the VR world and Digital Domain did the motion capture and the visual effects in the real world of the movie. The animation done by ILM was unique and amazing.

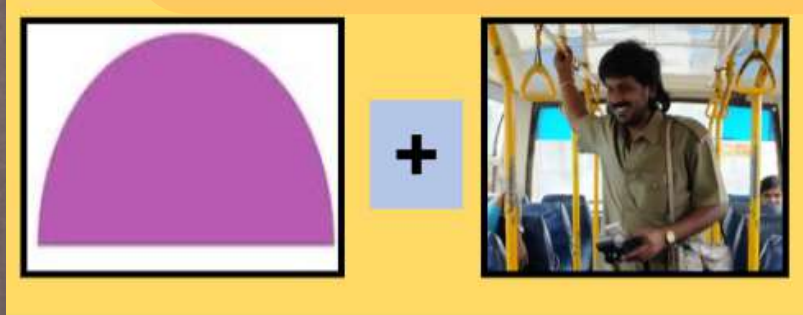


- Waasif Ur Rahman
2nd YEAR, ECE B

This movie according me was phenomenal. Its really fascinating for people like me to experience a movie like this, who are into gaming. Spielberg is an extraordinary director and has made a few sci-fi movies like 'E.T' but I didn't expect him to make an advanced level sci-fi movie and it came out spectacular with amazing CGI and top level animation.

BRAIN SCRATCH

CONNECTION

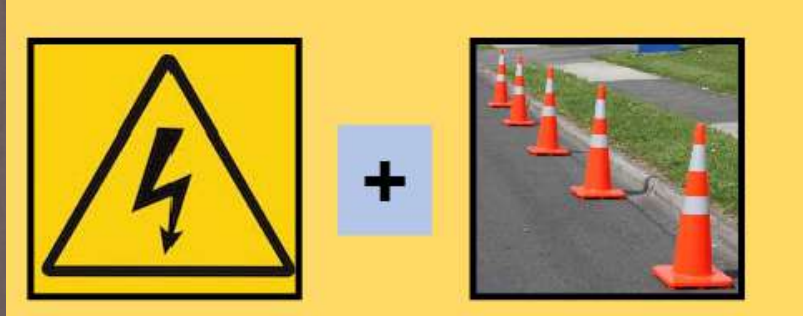
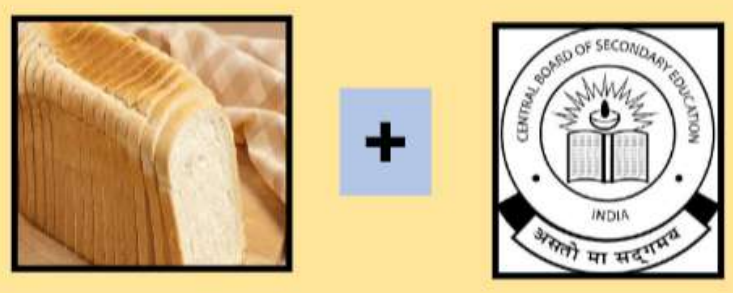


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HINT:
 BUILD WORD BY CONNECTING THE GIVEN
 TWO PICTURE



ALUMNI INTERVIEW



Mr. Fawaz Hussain

Batch (2002-2006)

Founder & CEO, DayStar Solar

The Founder & CEO of DayStar Solar, a Rooftop Solar Power plant EPC and components manufacturing company and is an alumni of 2006 batch from our Electronics and Communication department. When we decided to interview him, we wanted the interview to be a candid impromptu Q&A- styled interview, so that the content's fresh as well as smooth. The article has a series of questions and some interesting answers about his life and experiences.

Tell us a little bit about your early life

I grew up in the middle east in the 80s. The land of exuberance and excess. Nothing was impossible in those days. Compared to India in the 80s, I as a kid used to think we have come to another dimension itself wherein every little victory was after a huge struggle. I did my schooling there and was sent to India in my 8th Standard to continue at Don Bosco Egmore. The stark difference in schooling I can never forget. Classes did not have air conditioning, tables had holes in them and our chairs literally rocked us to sleep on hot afternoons. I really liked our teachers. They were a lively bunch. Some were more animated than others but I remember their zeal to teach as an encouragement to do my best to not let them down. Life in the 90s was more analog compared to today's digital world. Things had to be planned in such a way that if you forgot anything it's up to you to make do without it. There was no plan B. When I was sent to India it was to stay with my grandparents. Since my parents were still abroad. I remember not understanding the protocols of "being a good grandchild". Some of which were dinner by 7 pm and lights out by 8:30 pm. The flip side of which was you got up by 6 am which was very convenient to get ready for school, even doing the odd missed out homework which I remembered at the last minute. My grandfather was a businessman. I remember he was a man of military precision. Even though he never was with the army at any point in his life, he would say things like "Dressing maketh half the man, the other half character". The way he emphasized time was like no one else.



He would prefer to be at an appointment 15 mins early rather than even a minute late. A philosophy which I hold dearly to heart. He always said, our time is very important, we should not waste others nor ours. If you want to relax, spend time for that too but know it's for a reason. To this day, I credit him for the moral discipline that I was inculcated at a young age.

Getting into Crescent

As a child abroad, there were no servants to drive us around, or clean the house or wash the dishes. We had to do chores around the house which was equally divided among us siblings. I being the only Boy used to get the "technical" work, like fixing telephones or the TV antenna or even stuff like my toys. From a very early age, I remember being armed with a small toolbox that would have testers, screwdrivers, a soldering iron, among many other things. My favorite pastime was to dismantle my electronic toys, use a 9V battery and see what clicks or whirrs when I power up certain circuits. This made me the de facto go-to guy in our household who is entrusted to fix or get someone who can fix it. In fact, I found it very strange when my grandfather once complained saying that he had to wait three days to shift a telephone line from one room to another since the BSNL guy wouldn't show up on time. This was surprising to me as this was a barely 10 minutes job which to my grandfather's surprise was done by a 15-year-old. This and many other similar interests started shaping my decision towards being an engineer. And since electronics was my past specialty and seemingly future scope-oriented specialization, I choose ECE as my major.

What were your best memories in Crescent?

Crescent will always have a special place in my memories as it was one of the few places which shaped me into who I am today. Some incidents are tough, others tougher. But it taught me many life skills like interacting with like-minded people and vice versa also. It showed me how blessed and lucky I was to have a car that I could drive any day to college. It also showed me how traveling by public transport buses can help save a lot compared to any other means of transport, provided you take care of being on time. The moment you cannot keep uptime, you will start wasting a lot of time by waiting for the next crowded bus or worse a delayed bus. Friends were and always are an epicenter of college days. These friends I feel are the ones who also travel with you much even after leaving college so I was lucky to have friends who used to think much smarter than me. As I felt I also learned a lot from them. Even though most of them ended up abroad, I still tend to meet them when they drop by. And yes, they still don't understand my reason for coming back to India but it's nice to see that ideas can change when exchanged.

Tell us a little bit about your life after Crescent

My wife says, you engineering students are a peculiar breed; you guys figure out life after doing engineering and not before. Which I feel was true in our time. We had just limited options which we were expected to be happy with and the level of knowledge enrichment was also very limited compared to today's biggest asset, the World Wide Web. So, after crescent, I decided to travel a bit and also help out my dad in construction. I spent two years like this until I thought that I wanted to follow the path everybody took and wrote my GRE, TOEFL and got selected in IIT, Chicago for my master's in high e-speed data networks. But fate did have other plans for me as I discovered that this specialization would have a limited scope hence, I decided to get into the business. That led me to do my MBA in Switzerland which was another level of learning.

Extracurricular Interests My interests are a bit wider in that they tend to revolve around themes and not subject matters. I am highly interested in technology. Whether it be in civil, mechanical, or even financial, as long as a new concept presents an innovative solution, My interest has always peaked. Cars are a close second. Not as a status symbol but far from it. I am intrigued by the mechanics of machines that are engineered to such an extent to give you the feeling of riding on air.

And of course, I love good design; packaging you may call it in practical terms but a work of art and design are things that are intrinsic to making someone want the product. I find this very fascinating that someone can figure out how to sell a product without marketing it for its intended use. That's sheer brilliance on the part of the engineer, designer, and marketer altogether. And this harmony can exist only when a person understands all the above.

We would love to know about your MBA journey and experience in Geneva Switzerland. Tell us a bit about that.

Even though I had stayed abroad for many years it was still not as easy as I had hoped for. But the time it took to learn new easy was surprisingly short. It was the aspect of learning new things and implementing them to see how they would contribute to helping me grow was an interesting exercise. I met a lot of friends during my time there, worked for the UN, HSBC, private banking, and even AIESEC. These experiences literally taught me the value of time as I had to volunteer at two organizations simultaneously while studying to make sure I squeeze as much time as I can out of the day even having a sandwich as lunch on the tramlines to save time. Here is where I really discovered that we can do three times as much work in a day when we organize to a highly clinical precision degree. But I do realize that it's not possible to continue that way, but the fact of the matter is that most people in Switzerland grow up and this is second nature to them. This also made me realize that the more you put your mind to it, the impossible is nothing.

What made you start your Day-star Solar startup and why particularly did you choose the solar industry?

The exuberance of the 90s I'll say. My family lived in the middle east where air conditioners were used as fans. This has a small side effect in India called the electricity bill. But during my time at the UN, I came to know about many solutions which can be had with Solar energy. And that even air conditioners can run on solar. Having returned from Switzerland, I saw that our country receives a lot of sunshine. Hence, I thought to myself why not harness it. This is where the journey of DaystarSolar began. I wanted to reduce the burden of electricity bills for everyone thereby making them more productive and happier by way of their savings on TNEB bills.

What were your hardships and success at Day-star?

Too many to list out. You see, we are surrounded by people who will stand around one working guy and pass many comments. This is seen daily in our streets, where you would see one or two people working and ten people surrounding them saying they can do this better. This is a real-life scenario. Many people will give advice, comments, judge us, even discourage us from our dreams saying that they are too big and that we might fail. I felt these were the words of people who were scared to do it themselves and are saying it to hide their failures. Sometimes, the best thing to do is to stay immune to these things, my advice; just to smile and nod. Other factors like market conditions, investor sentiment, product acceptability require your attention. Paying attention to these things has brought us the success we have dreamt of.

What's your advice for someone looking to be an Entrepreneur?

Never fall in love with your opinion. Always be open to being proven wrong and then evaluate your stance. Things in life change and these subtle changes can cause your trajectory to go off course, sometimes it's good. Sometimes it's bad. But your inner conscience will keep you on track. Never lie to yourself. Keep it real, no matter how bad the news is. It's never going to be easy, the sooner you realize it the better you are prepared always. The moment you lie to yourself you know it and you will actively choose to keep it up but it never will help and one day you have to face the facts. Better do it now than later. Do it, Do it right, Do it right now. Any business or idea has a gestation period. Make sure your time doesn't run out before the gestation period as then it's not worth giving up or worse being forced to give up when you are so close to your goal. So, start early, you will always have doubts, don't worry, if you came up with the business, I'm sure you are the best person to implement it period.

Any advice that you would like to share with future engineers?

Think like a solution provider. Not like a machine. An engineer is mankind's tool literally. If the engineer is a smart thinker then the solution comes out as time well spent. Else it becomes a futile exercise or worse something which any other person could have done better. Passion can never let you down. Find out what your interest lies in, if you don't have it means you have not researched enough. Trust me once you have found your passion and are pursuing it, night and day don't mean anything, it feels like you are doing a hobby while on vacation! Blessed is he who has never worked a day in his life, as his work is his passion; and Passion exists beyond one's imagination.



**- INTERVIEWED BY
JAI SAKTHI VIJAY M
4TH YEAR, ECE A**

Mr. Madan Kumar Lakshamanan

Batch(2000-2004)

Senior Scientist,
CSIR-CEERI

I remember waiting in a queue at a large auditorium in Taramani and an officer was announcing the seats available at different colleges and Crescent had one seat available. I was praying that the student in front of me in the queue doesn't choose Crescent. Fortunately, he didn't and I was overjoyed that I was able to get into Crescent!, says Madhan Kumar Lakshamanan, alumni of 2000 batch from our Electronics and Communications Engineering department, when asked about his earliest memory of Crescent.

Given the pandemic situation, we weren't able to meet in person. Well, that still didn't stop us from having a great candid conversation in a virtual setting.

"I am thankful to pioneers like B.S Abdur Rahman who established these institutions from their own money without whom I would never have become an engineer. In those days there were only government colleges and it was really difficult to get seats there. In other institutes, they were asking for money apart from the tuition fee. I am proud to say that at Crescent the only fee apart from the tuition fee was some registration fee of Rs 40. I loved the spirit of the institution. Slowly and steadily we had more number of students and new sections were created and our college began to grow. That was great to see."

While Madhan was speaking about the early days of our college we couldn't help but listen in awe realizing how far our college has come. We then discussed his memories of faculties, his life after crescent, and also some advice for all the future engineers out there.

Memories of Faculties

My physics teacher was Dr. M. Basheer Ahamed. He's a very jovial individual and his lessons were very nice.

The one which I didn't like the most was the chemistry laboratory because I had trouble with the pipette. During the titration process, I would drink some of the chemicals and the results would go wrong.



I remember we needed to have less than 5% or 10% error and mine would be more than 10% error and I would end up with a low mark. I was very anxious during my final examination thinking that I might fail because of my poor experimenting skills but fortunately, I was able to do it all right.

I was young and uncertain about the world and life. My teachers were my interface and they made me comfortable. Having reassurance was very very important to me and the Crescent environment and the teachers provided me with that.

During my second year, I remember Dr. Egfin Nirmala. She taught us electronic devices. I fondly remember her classes.

Life After Crescent

We had an excellent placement officer. I was campus placed. He was very meticulous in the process of inviting companies to our campus. I was campus placed in a company called Polaris. I was with Polaris for three and a half years. I learned a lot of soft skills there. I was with around 300 members and it was nice to interact with so many people. I was fortunate that I was exposed to the diversity of technology. I was exposed to operating systems, Linux, windows, and so on and wrote programs that were compatible with different operating systems.

I then wanted to go abroad to pursue my higher education. This was post 9/11 so unfortunately, my applications were rejected. I thought I should study for one of the IIT's. I was young and foolish enough to write to the director of IIT madras. I got an opportunity there and worked on a Telecommunications project. It was a fascinating experience getting to be amongst great people and discuss ideas and solutions.

Advice for future engineers

ECE students are lucky in a lot of ways. We get to learn about electronics, communications, transmission of data, and even some computer science as well. Being from ECE you are in the middle of all the major technologies. So, in our subjects, we get to see the entire spectrum of applications. We are ready for any job that is available in the market. The thing that we should remember is that every job is tough. Therefore, don't worry. Whatever you do, try to love it. Even today I am still a student and I am still learning. Hence, if I understand my subjects well then I am enabling myself to get into a nice position. Just try to understand and fall in love with the subject.

If you want to be a great electronics engineer it all starts from your classes and lectures. Listen to them well and don't waste your time. Attend and listen to all classes and clarify your doubts. Also, it is very important to have fun and enjoy yourself. Keep working hard and everything will blossom.



**- INTERVIEWED BY
MOHAMMAD AKRAM**

4TH YEAR, ECE A

Ms. Nivethitha Kannan

Batch(2011-2015)

**Software Engineer,
National Instruments R&D**



There is no limit to what we as women can accomplish, said Michelle Obama. No matter where you are in life, inspire and empower the women around you. Success is never reached alone. And, wisdom and wealth are sweeter shared. In this section, we have about an inspiring woman from our department. Ms. Nivethitha Kannan, who passed out Bachelor of Electronics and Communication Engineering in 2015 at Crescent Engineering College. With good academics and practical exposure passing out bachelors she joined national instruments as a software engineer, Research & Development (Jun 2015 - Jul 2017). Later by 2017, she became the senior software engineer of national instruments. She had worked on various projects like NI RFmx CG (Current Gen) Developed and designed test & measurement solutions as a LabVIEW UI developer for RF (Radio Frequency) standards such as 2G, 3G, 4G, and 5G along with wireless technologies such as WLAN and Bluetooth.

Created automation tools to auto-generate developer code thereby achieving a 95% reduction in developer-hour efforts. Achieved 100% efficiency in eliminating manual testing efforts and improved code quality by developing a code testing framework that tests the developer code daily before sending it to the build pipeline. It was indeed an honor for her to be chosen to be a part of this role as one of the two engineers in Bangalore. She also performed software migration and maintenance along with performance, load, regression, stress, and data interface testing. And also lead a team of 3 engineers for the development of a proprietary tool that replaced an expensive third-party tool (Project: NI IO Trace). Also, planned, supervised, and coordinated daily activities of junior developers, technicians, new hires, and interns. Interviewed more than twenty engineers and hired four engineers across the branch office over the last 4 years. Apart from her projects she had Won the Best Technical Paper Award for 2 consecutive years (2016-17) at the NI Tech Bangalore Conference. Member of the Recruitment Team at NI where I actively participate in interviewing candidates, setting up question papers, and maintaining a coding server.

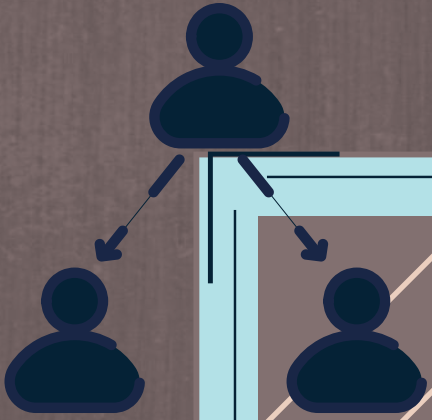
She's also a holder of the Certified LabVIEW Associate Developer (CLAD) certification administered by National Instruments. It's also highly energizing that she is an Active Blood Donor for more than 4 years now. She has been involved in organizing blood donation drives at her office and college. To add on she also has been a volunteer at Volunessia and Talent quest workshop. To be able to realize your ideas into a fully functional product is something special". When put forth a question that which according to her is the most advancing department in the field of engineering? She said, Data Science, Machine learning, and AI. The future of engineering is in the integration of AI into everyday activities. I was very eager to know about her best part of the experience she had in LabVIEW and she said. "The coding language has a unique experience of drag and drop which enables students without a coding experience to be able to realize their projects". Betwixt the conversation she also spoke about the hobbies that she enjoys outdoor physical activities, high-intensity cardio workouts, like running and swimming which actually helps her to organize her thoughts and alleviate stress. We especially wanted to know her experience being in national instruments as a woman and for it, she said, "Unfortunately, the number of women ratio is low in most of the companies and being the minority could be different. NI has this great work culture that makes one fit in very well. Being there for 5 years now, I have always felt NI as a family".

After finding out about her master degree, it's good to know why she wanted to do it, and her answer was "MBA is the next step to reach my personal goal to be able to be a product manager. With NI I got a chance to learn and interact with the International customer base and understand the nature of client requirements. Leveraging this experience and having a more holistic view of business-like strategy, operations will be the way forward". When spoke about what are the skill sets needed by a fresher to enter into national instruments she said, "While technical expertise in any programming language is always welcome, the emphasis is more on problem-solving skills and algorithms. Being a team player with excellent communication skills definitely enhances your chances of success at the organization".

By ending the discussion, it was very evident that there is no force more than a woman determined to rise. It is our complete pleasure to have such an amazing personality in our ECE family, Our best wishes to Ms. Nivethitha Kannan for her future endeavour.



- INTERVIEWD BY
AARTHI S
4TH YEAR, ECE A



**TIPS
FROM
WORKING
PROFESSIONALS**



SULTHAN SYED IBRAHIM H S

Batch(2005-2009)

Air Traffic Controller, Airports Authority of India

In my view, The mandatory skills to be developed during college days to shine in this competitive world.

Fantastic Five:

1. Convey and get what you want:

First and foremost, the Communication skills. Unless this skill is perfect, you cannot sell yourself to the market... After entering into an organization also, those who articulate/ communicate well reach up the ladder very soon..

2. Curiosity to learn:

Whichever field you are selecting for a career, do gain vast knowledge in that. For example, Aviation, learn as far as possible. Each and every information is wealth

3. Research, need of an hour:

Whenever going for an interview, do a research about that company for at least a week, their main attributes, clients, their speciality etc..

4. Discipline:

You never know when and how you are monitored. Always behave disciplined and decent. That will not come in a single day. Follow it from the college days.

5. Punctuality:

Timing speaks a lot about you. I think no need to explain more about this powerful word " Timings".



IMADUDEEN V.N

Batch(2013-2017)

System Engineer - Connectivity, ZF WABCO

Assalaamualaikum & Hi,

The industries around the globe is moving way forward towards Industry 4.0. Where normal machines has become intelligent or smart machines, connected or communicating with each other.

So, The Internet of things (IoT) has become a de facto parameter of every industry to keep things connected.

In addition to that, Image processing, Machine learning(ML), Deep learning(DL) and Artificial intelligence(AI) were the top trends which converts a machine into a smart machine.

As the things getting smart and connected it is very much important to ensure the security, which brings a high demand for the Cyber security (CS) across the industry.

The above demands were more or less applicable to every industrial sector and especially being in the automotive industry, it is much more relatable. As the global automotive industry is more focussing towards Autonomous, Connected and Electrified Vehicles.



MOHAMED HISHAAM M

Batch(2014-2018)

Development Engineer 2, Comcast



Electronics and Communication is a very interesting Field which has changed the world over the past few decades, it's an honor for us that we are going to become a part of this society contributing towards development in this field. I would like to share a few key tips, how to make your Four years Journey more productive which I feel like part of my journey.

P0 - In the first year, the most important is to grasp the fundamentals in both mathematics, Science, computer science, and core fundamentals as much as possible because it helps in the Advanced Subject in upcoming years and entire professional life.

P1 - We can spend time learning new skills (personal and professional, whatever it may be, which helps in keep motivating)

P2 - It is also important to dedicate some time to Preparing for the Campus Placement (Reason - If we start learning Aptitude and competitive programming from the first year itself, we will be quite confident after the second year, we can focus purely on our professional stream on how to get there)

P0 - In the second year too, we can focus more on the fundamentals of the core subject. This is very important because it helps the individual to select the proper professional stream for their upcoming semester as well there Professional career

P1 - One of the nice things we have in our department is the confidence-building lab (NI Lab), we have lots of good Electronic systems, which would help in the entire ECE stream, from Signal Processing, EMF to Embedded system & VLSI, not only its useful but helps in doing the project easier and reliable

P1 - Apart from learning the core subject, It's also important to focus more on the Project by spending some time on Labs doing some cool stuff. Making good relation with Researchers (Faculty or full-time Ph.D. scholars) help to achieve this easily, as you can brainstorm with them came with a good idea

P2 - Work on publishing a research paper or patent

P3 - Regular classes and studies

P4 - At the end of the third year, we can work some time to create a plan for the final year, also brush up on the fundamentals

2 Things will be an important key for a final year student.

P1 - Dedicate most of the time to achieve a goal (getting a good placement/higher studies in a good University)

P2 - Building the nice final year project.

To achieve both things easily and effectively, it's good to apply for an internship in a good organization, by working on having the required skillset.

There are a few advantages to doing an internship in a good organization.

i. Getting exposure to the current technology

ii. An Exponential learning curve

iii. Ability to understand the corporate environment, able to interact with the great engineers/Scientist. Last but not least physical and mental health is most important as part of both student and professional life, so we need to assign high priority as it affects our both personal and professional life.

ANITHA PRIYA VETRIVEL

Lead - HR and Administration, UNICEF

Today's world is such that the global business scene has a direct influence on the local market. In such a scenario, it is fair on our part to expect any organization or firm to have its share of ups and downs. In such a scenario when it hires a fresher, it looks for someone who can keep up with the flexibility of the organization.

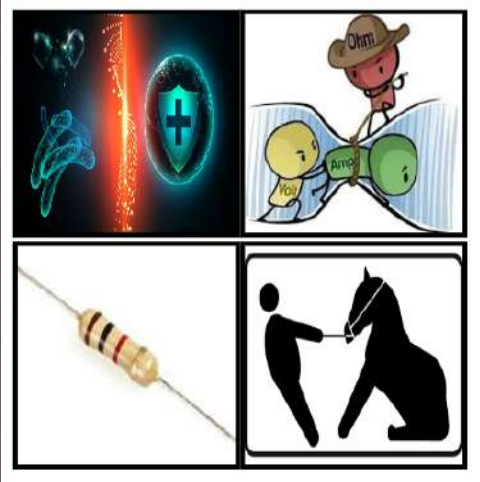


Below are the points from my end:

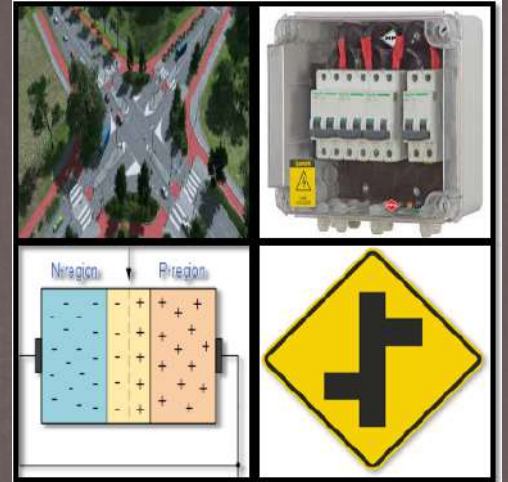
- > Communication Skills
- > Honesty And Integrity
- > Punctuality And Determination
- > Loyalty
- > Proactive and Productive
- > Happy to learn new things
- > Goal Oriented
- > Work well on a team
- > Responsible

BRAIN SCRATCH

4PIC ONE WORD



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HINT:
FORM A WORD BY
ANALYSING GIVEN FOUR
PICTURES.



**ALUMNI
ACHIEVEMENTS
2020-2021**



Mr. BALA KARTHIK BASKARAN

2001-2005

Head of Europe arm of the retail architecture & technology group at Tata Consultancy Services



He is a Digital Transformation Leader and has worked for a globally distributed clientele to transform the enterprise digital landscape of various retailers. As an innovation and technology evangelist, he has helped retailers to focus on next generation algorithmic digital architecture and drive innovation in the retail ecosystem.

P. CYRIL NICHOLAS B

2012-2016

Received COVID 19 Front Line Warrior Award. Currently he is undergoing training in REGIONAL LABOUR INSTITUTE, Chennai for safety and measures.



Mr. Mohammed Aashik Rahman

2011-2015

CEO, PROPELLER TECHNOLOGIES

Captain Zafira is the updated new version of Zafi Robots which is India's first theme robot designed & developed in India especially from Tamil Nadu and patent has been approved, which is one of the most intelligent Robot.

Now the Captain Zafira is designed for the safety measures of Covid-19. It will ensure that the people are wearing masks & maintaining social distances & in their normal temperature & also providing sanitizers to them.

It also interacts with the kids & has an answer for all their inquisitive questions. Captain Zafira is a play partner with all the kids promising an amazing experience to the customers who visit the restaurant



Mr. Naim Tabriz Khan

1999-2003, DIRECTOR OF TECHNICAL SUPPORT DELL

The Director of Technical Support at Dell, is a renowned alumnus of our department from the 1999-2003 batch and has an MBA from the University of Phoenix, Arizona. The foundation of his career was in Technical Customer Support and Networking. Built and maintained Hospital Information Systems to enable accessibility and availability of critical live patient data to medical specialists within the hospital, and around the world.

It is interesting to infer that Naim had come to Erode from

Chennai to pick up his wife from his in-laws' home when nationwide lockdown on March 22 forced him to remain here till normalcy returns. The humanitarian-minded IT expert initially distributed bread and biscuits. Naim knew this was not enough and they needed hot meals. So, he approached his friends and family members through social media groups requesting them to donate money for the cause. With the funds raised through donations, he and his wife managed to prepare 100 food packets every day. The couple also managed to provide shelter and care to stranded people in Kollampalayam Corporation Elementary School until lockdown eases.

He ensured that the watch-repairer and tailor set up their shops to earn during the lockdown. Naim helped them to unlock their skills. He made them feel at home, provided them with entertainment and indoor games to keep them hale and hearty. He also helped alcoholic people give up on their habit. The couple's community service received appreciation from the District Collector C Kathiravan and the District SP Dr Sivakumar. With the belief of "collective action greatly impacts the world", Naim came up with a portal 'Humanity Wins' under 'Humanity During COVID-19' to bring likeminded people together under a single platform to help the needy. As of May 15, Naim said that about Rs 13.50 lakh (\$17800) has been spent for this purpose with the generous contributions of people far and near. For needy families, the couple is giving away Rs 2300 worth of grocery kit for a month for a family of four.





COFFEE WITH FACULTY



Dr. B. Vijayalakshmi

Professor/ECE



Dr. B. Vijayalakshmi is one of the senior professors in the department of Electronics and Communication Engineering. Mam has over 11 years of experience in not only teaching but also research field. Not only that, she has a very wide area of expertise in this field which mainly includes Image processing, Optical Communication, Transmission lines and Antenna design, Communication Engineering and Research Methodology. She joined our university after finishing her Ph.D and now in our university she has over 7 years of experience in teaching and research.

"All the vast developments that we know of are happening in the field of 'Electronics and Communication Engineering', which brought the world within our palms. It gives instant alternative for all the survivals." Is what mam unhesitatingly replied when we asked her what according to her is the most advancing department in the field of engineering.

Not just in the field of academics, Dr. B Vijayalakshmi has also worked with different electronic industries as design and test engineer. She shared with us the starting of her carrier.

"My carrier had started with "Interface Electronics", manufacturers of "Annunciators" and control panels for automation industries as "Design engineer". That industry gave the exposure on fundamentals of designing, importance of data sheet, factors involved in component selection and its orientations. Later some openings came, to take a charge as "Test/Field Engineer", through which I got the opportunity to perform the field test inside the industry on SCR driver circuits. It was a very good experience; it enhanced my knowledge on isolation circuits and its importance."

While speaking about her inspiration to become an academician she says,

My school level mathematics teacher inspired lot through her method of explaining; was the type of teacher I want to be. Further as an academician, there is a chance of getting different types of doubts (some of them may be very crazy) from the learners paves a way to develop my curiosity and passion offers a cross-disciplinary thinking.

Talking to us about the best part of teaching in Crescent university, she says

"The best part of teaching in Crescent is an educational freedom and a feeling of always young while working with students. This unique feeling, gives more energy during the working hours. Moreover, teaching the students gives me all sorts of confidence in research work. The same cannot be obtained with the manufacturing industries. During the teaching and learning process the communication with our students is amazing; gives me a lot of energy and resources to give up."

While we asked her about the role of teachers in shaping the future of our society she says,

"Vital role is given to the teachers hand in shaping the future of our society. Since, teachers are the prime knowledge enhancers through their inspiration, passion and method of approach.

Teachers are the main source of lighting for the higher-level thinking skills encourage students to understand the importance of dedicating themselves towards passion projects or endeavour, build success in student's life, which makes a society in a cultured way" Further mam shared with us her hobbies to do in the leisure time that she gets, she says

"Listening the melodious music and watching the movies." She also shares with us that in her view, movie makers are the real people materializing all the technological advancements and making others to enjoy in all ways.

Finally, we asked for a piece of advice to the youngsters,

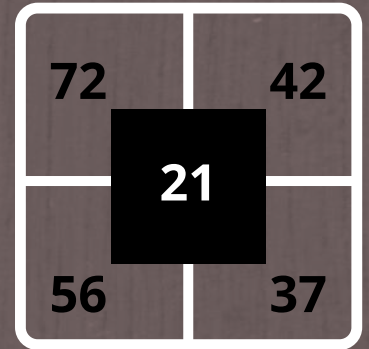
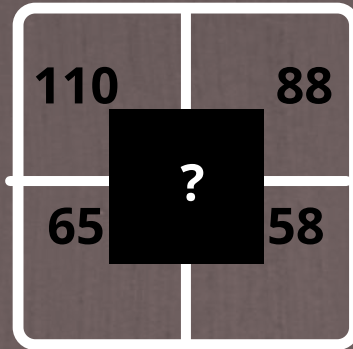
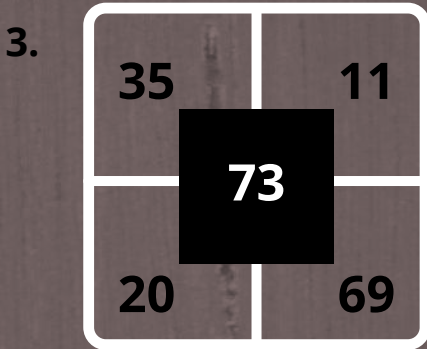
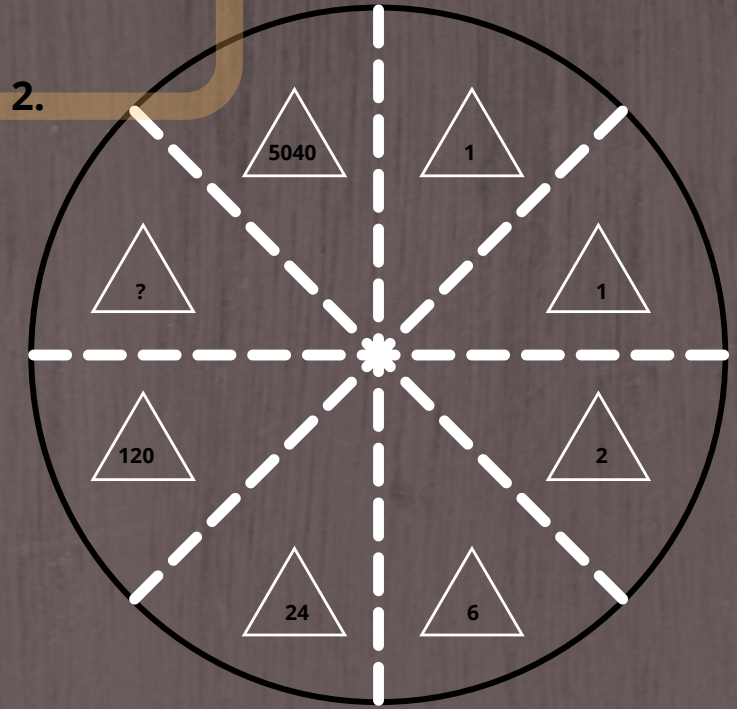
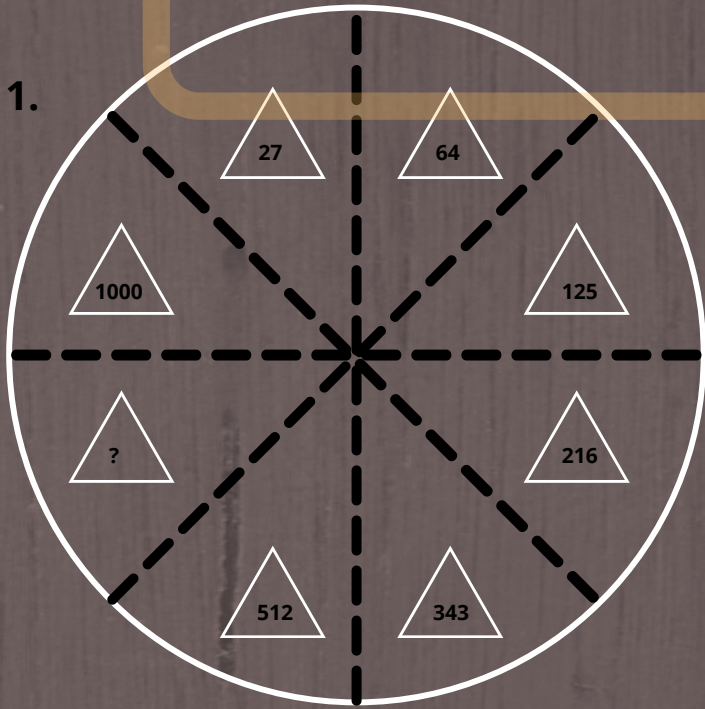
"Try to learn and keep learning - there is no destination to learn about the surroundings in a best way and safeguard it for the forthcoming generations."



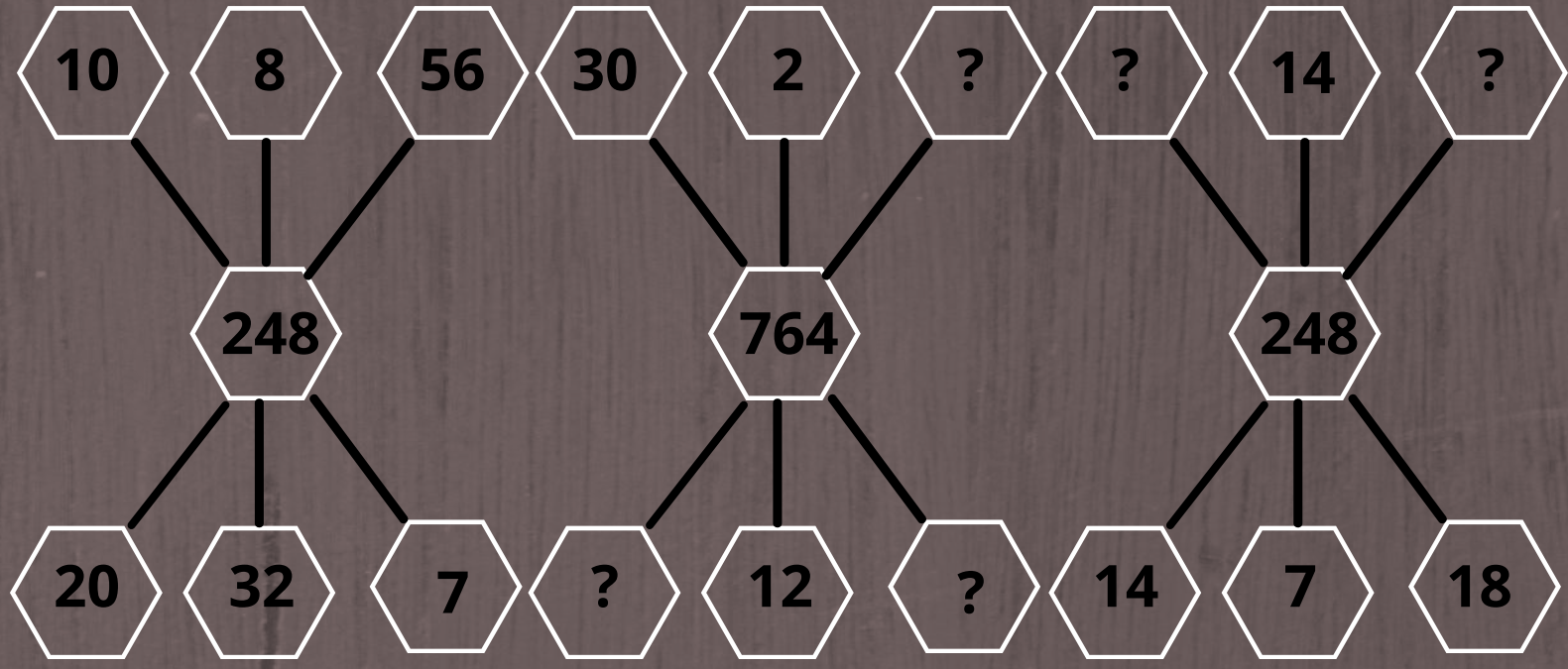
**- INTERVIEWED BY
ADHEEMA VASEELA M
4TH YEAR, ECE A**

BRAIN SCRATCH

LOGICAL ABILITY



5.



JUMBLE SOLVER

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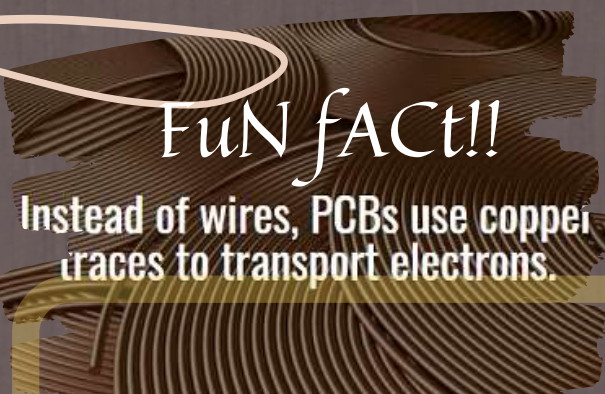
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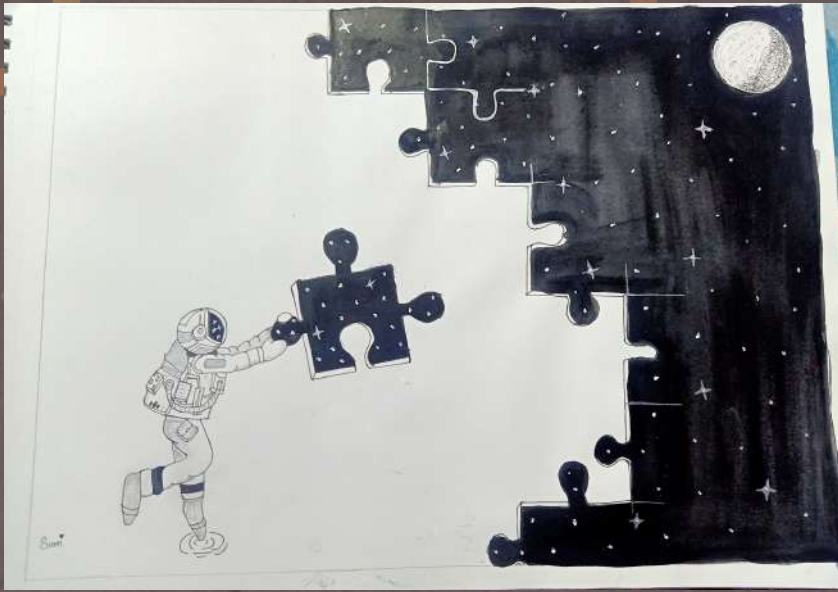


ARTISAN VALLEY



FuN fact!!

Instead of wires, PCBs use copper traces to transport electrons.



SUMAIYA TABASSUM .S
3RD YEAR, ECE B



AJITHA
1ST YEAR, ECE A



THAMEENA
1ST YEAR, ECE A

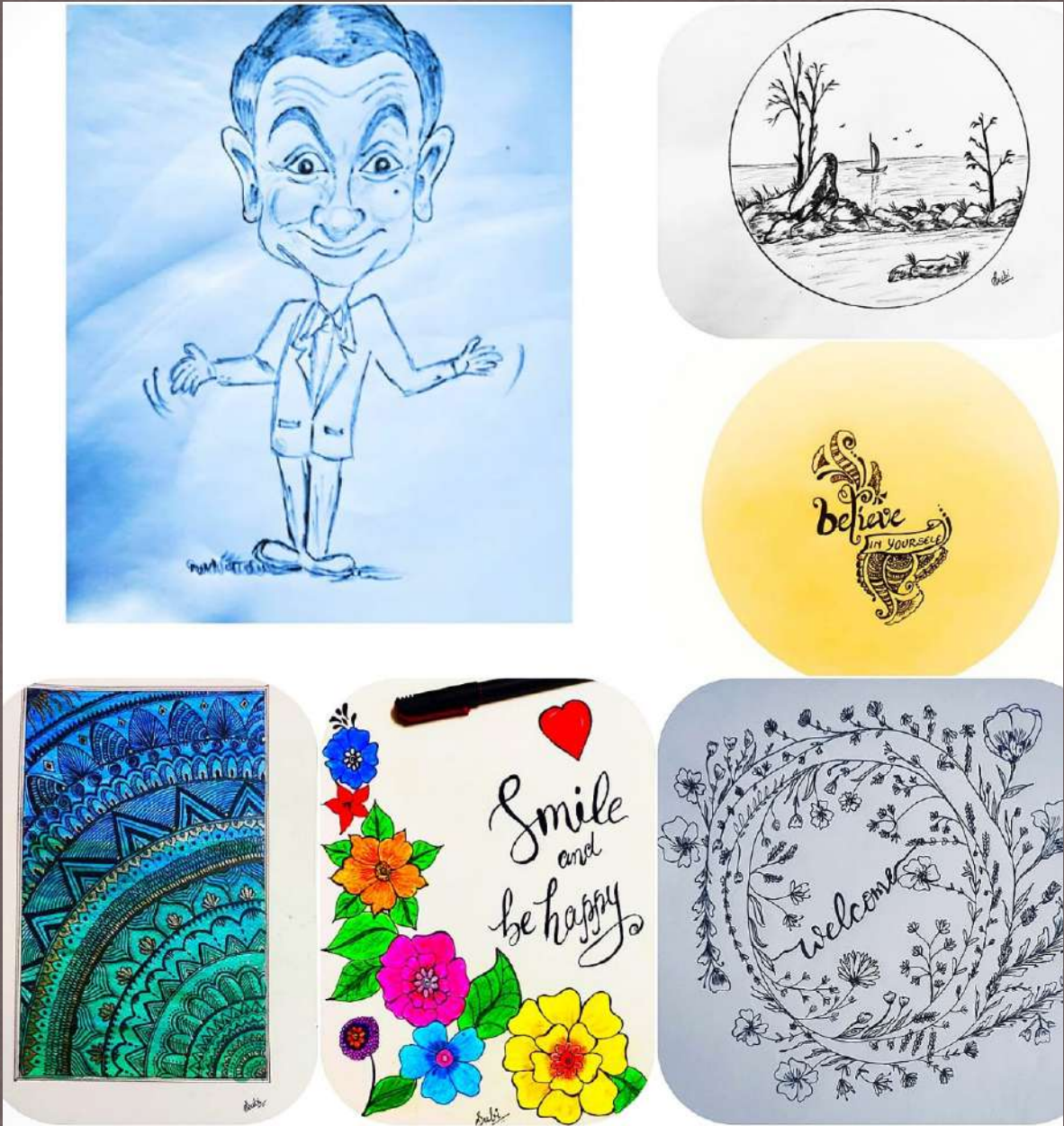
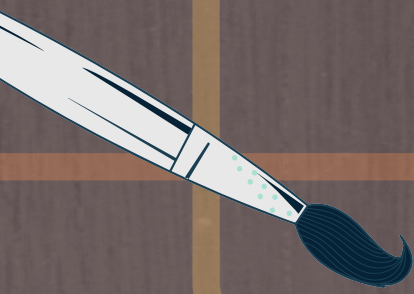


BHARGAVI C
4TH YEAR, ECE A



DEVI PRIYA CH
4TH YEAR, ECE A





**MS. R. ANITHA
AP(SR.GR/ECE)**

LEADERS BOARD



**ADHEEBA
VASEELA .M
FINAL YEAR ECE A**



**MOHAMED
MARZOOQ .M
FINAL YEAR ECE A**



**MUBEENA BANU .I
FINAL YEAR ECE B**



**SETHU MANIKKAM
FINAL YEAR ECE B**



**MOHAMED
DHANISH
3RD YEAR ECE A**



**SUMAIYA
TABASSUM
3RD YEAR ECE B**



**SURAAJ SAKTHI
KUMAR .B
3RD YEAR ECE B**



**SAMYUKTHA
MEENA .J
2ND YEAR ECE A**



**MOHAMED FAZIL
ARAFATH
2ND YEAR ECE A**



**THASLIMA
PARVEEN .A.R
2ND YEAR ECE B**



**THARUN AADI .R
2ND YEAR ECE B**



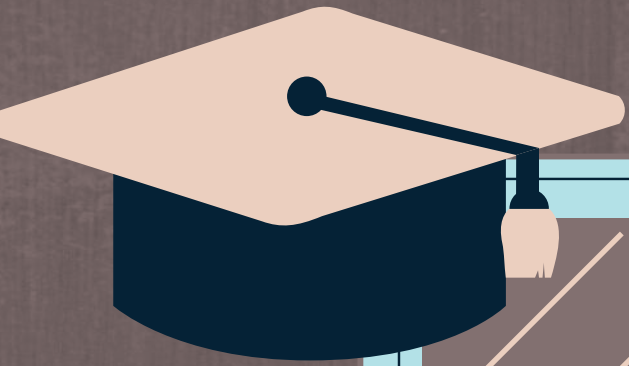
**MOHAMMAD
KUTUBDEEN
2ND YEAR ECE A**



**PASALA BHARGAVI
2ND YEAR ECE A**



**SAI AKSHAY .S
2ND YEAR ECE B**



**OUR
GRADUANDS
2016 -2020**





**ABRAR
MOHAMMED
ZAFRULLA**



ABARNA.S



ABDUL AJEES A



ABDUL AWWAL



**ABDUR RAHMAN
KHAN.A.R**



**ADITYA
SRINIVASAN**



AFRIN.M



AFROSE BHANU



AISWARYA G



ALTHAF N



ANUSUYA A



**ARAVIND KUMAR M
S**



ARAVIND KUMAR M



**ASHIQ
AHAMED M A**



BADHURUNISHA S



BHARATH KUMAR S



GANESH S



HANSIKA M



HARIHARAN S



**HISHAM
ABUBACKER**



JAYAKRISHNAN S



JAYESHWAR R



KARTHIKEYAN N S



KARTHIYAYINI R



KAUSHIK J



KUMARAVEL M



LAKSHMI PRIYA A



LOKESHWARAN K



MADHUMITHA



MANIKANDAN D



MANITHRA T



**MOHAMMED
ABDULKADA**



**MOHAMED ALI
RIZWAN M**



**MOHAMED
NASEEM A**



**MOHAMMED
HARIS M**



**MOHAMMED
SHAHID**



**MOHAMMED K
AFRIDI**



**MOHAMED
SHARRUKH T**



NAFEESA



NISHATH FATHIMA Z



POOJA P



PRASANNA J



PREETHISHRI U



PRIYANKA S



RAGHUL R



RAJA PRIYA V R



VETRIVELAN



PAVIETHRA P



RAYAPATI KHADER
SHAIKSHA MOULA



SHAIK ISHAQ
ANWAR



DIWAN
AFSHANA.M



RAJU VENKATA
SAI KUMAR
REDDY



RAM
VAISHNAVI R



RISHI ARAVIND B



ROHIT KUMAR
BANSAL.H



SALMA A



SAMIULLAH S



SANDHIYA J



SANTHOSH
KUMAR N



SELVAPRAVIYA



SETHURAM V



SHAIK FAROOK
AHAMED



SHAIK MANNURU
KARISHMA



SHAIK
MOHSIN



SHAIK
MOMIN



SHAIK RAHAMAN
RIYAZ AHAMED



SHAIK
SHANAWAZ
HUSSAIN



SHEIK MOHAMMED
AZARUDDIN



SRIRAMBHAT M



SRIRANJANI S



SUMAIAH
TABASSUM I



THEREJ DHIVAKAR P



THOUFEEK
AHAMED S



VIDHYA N



VIGNESH R



VIGNESHWAR R



VIGNESHWARAN R



YUVASHREE V



AFRIN FATHIMA



AKIL AHMED A



SARFARAJ
NAWAZ



SHAIK AMMAR
AHMED



SHAIK MOHAMMED
FIROZ



SHAIK NAVEED
IMRAN



IJAZ AHMED V.A



SHAIK ASHRAF
HUSSAIN



NARASIMHA
RUPESH



SHRI VIBHU GG



YAMINI N



SYED AASHIR
HUSSAIN I



SHARUMATHI F



SOBIA SHAFI



MANDALPU
BHARATH



KISHORE J



SHAIK
MOHAMMAD
SHAREEF



SHAJITH KHAN
AFRIDIJ

POST GRADUATION(M.TECH, VLSI & EMBEDDED SYSTEMS)



N.AMEER SUHAIL



ANUPAMA KUMARI



D.CHITRA



SANDHIYA J



NASIRA ALI T K



VANAMMAL
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Congratulations!

To the Gold Medalists



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M.TECH(2018-2020)

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TECHNICIAN
MR. T. JAGADEESAN
HELPER



PUZZLE WINNERS

Sudoku

- Rishub CR – 3rd year ECE B
- Mohamed Nadheem 3rd year ECE A
- S. lyshwarya – 3rd year ECE A
- Mohamed Yaseen – 3rd year ECE A
- Pattan Riyaz – 3rd year ECE A
- Ayesha Siddeqa – 2nd year ECE A

Crossword

- S. lyshwarya – 3rd year ECE A

Jumbled words

- Shaik Jubair Ahmad – 2nd year ECE B
- Rishub CR – 3rd year ECE B
- S. lyshwarya – 3rd year ECE A

ANSWERS

CONNECTION

- SEMI CONDUCTOR
- BREAD BOARD
- VOLTAGE DIVIDER
- ULTRA SONIC
- HARDWARE

4PIC ONE WORD

- RESISTANCE
- JUNCTION
- SCANNING
- FILTER
- ANALOG

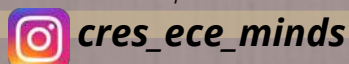
LOGICAL ABILITY

- 729
- 720
- 75
- Letter: S, Number: 35
- 210, 72, 60, 18

JUMBLE SOLVER

- MICROPROCESSOR
- CAMCORDER
- WAVEFORM
- MICROPHONE
- CONTROLLER

For answer explanation checkout



ECE E-MAGAZINE CLUB

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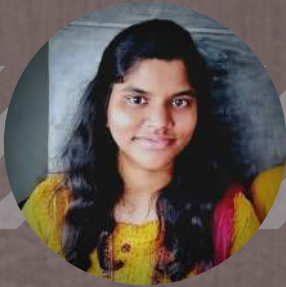


ASHIMA YUSUFF
FINAL YEAR ECE A



MUBEENA BANU
FINAL YEAR ECE B

MAGAZINE DESIGN



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FINAL YEAR ECE A



JISHNU.S
FINAL YEAR ECE A



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MUSKAN JAHAN
FINAL YEAR ECE A



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FINAL YEAR ECE A

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FINAL YEAR ECE A

SOCIAL MEDIA



NOORULLEYN SAARA.H
FINAL YEAR ECE B



SARAN.R
FINAL YEAR ECE B



**SHAIK MOHAMMAD
JANI BASHA**
FINAL YEAR ECE B



MOHAMMED NADEEM
FINAL YEAR ECE A

GAMING / PUZZLE



MOHAMED NAZEEM
FINAL YEAR ECE A



M.LEELA KRISHNA
FINAL YEAR ECE B



**MOHAMMED
SHOAIB IBRAR.M.A**
FINAL YEAR ECE A



MUHAMMED FURQAAN
FINAL YEAR ECE A

LATEST TECHNOLOGY



MUSTHAF HALITH.A
FINAL YEAR ECE B



MOHAMED MARZOOQ.M
FINAL YEAR ECE A



SHIVA PRASHANTH
FINAL YEAR ECE B

FOR SHARING ARTICLES OR SUGGESTIONS

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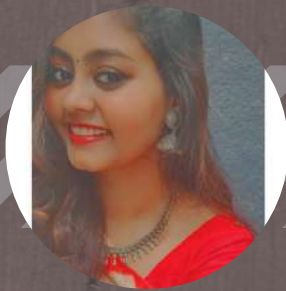


ANJANA
3RD YEAR ECE A



SUMAIYA TABASSUM S
3RD YEAR ECE B

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3RD YEAR ECE B

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MOHAMMED MEHRAN SAQUIB
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3RD YEAR ECE A

ALUMNI CONNECT



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3RD YEAR ECE B

GAMING / PUZZLE



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SUMAIYA FATHIMA
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LATEST TECHNOLOGY



RISUB C R
3RD YEAR ECE B

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DEPARTMENT OF ELECTRONICS AND
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Lilly Sheela & Team

