

# elevate^now

MARCH ISSUE



## Magic.

Loyola-ICAM College of Engineering and Technology  
Chennai - 600 034, Tamil Nadu, India



# Preface from the President

Dear Reader,

I am so thrilled to be presenting you with Elevate<sup>^</sup> - Pattarai's second newsletter! We've worked on so many new things over the last 6 months and as we celebrate our club's first anniversary, we'd like to quickly take you through all the activities of our club over the next few minutes!

Pattarai was never a "conventional" tech club and never will be. Although we started out as a project club where ideas were brainstormed and resources were pooled, we have since moved on to accommodate newer business models in order to stay relevant in the industry we're working in. The COVID pandemic was indeed tragic for all of us but I'm sure that all of us at Pattarai would agree that working for this club was one of the most productive things we've done over the last year!

From collaborating with other entities that share similar interests to building some amazing products that are soon going to ship to market, Pattarai's members have all put in countless hours of blood, sweat and tears to make the club what it is today!

Our club runs on teamwork and the consistent amount of effort and time that our members put in. At Pattarai, we try to surround ourselves with incredibly smart people who are motivated and strive hard to get things done. If you truly want to make a difference and feel like you would be a great fit for our club, do join us! We're always looking for fresh talent to expand our teams and embark on new ventures!

So, what are you waiting for?

- **DANIEL MARK**  
4TH YEAR IT



# Dean of Women Students

LICET is one of the very few Engineering institutions which provides students with vast opportunities for one's holistic formation and Pattarai is a brilliant example for that. At the outset, I'd like to congratulate every member of this initiative and their pioneering effort that helped them reach this distinct position. It's quite heart-warming to witness how this club started with such a humble beginning and has now grown leaps and bounds by their continuous and dedicated hard work.

This student-driven initiative aims to generate new ideas, implement them through teamwork, and explore one's leadership skills. And these very objectives have been put into play on many occasions and instances. I am sure that this newsletter 'elevate' will become a must-read chronicle on all happenings of 'Pattarai'.

Although Pattarai is one of the youngest clubs of LICET, the reach it has with other colleges speaks about the speciality and the uniqueness it possesses. It is a place where workmanship is revealed, a place where something is brought to its most beautiful form from scratch.

Richard Feynman once said, "If you want to master something, teach it." Knowledge sharing is the best way to improve wisdom. LICET's Pattarai echoes this concept because it is a place where young minds meet and create something great. I wish all students participate and be part of this club. In the future, I hope to see more Inter-departmental activities that would benefit students from every department. Let Pattarai be an incredible part of every LICETian's life.

Some of the upcoming events that Pattarai plan to conduct, like the Global Engineering Conference, a mentorship program for freshers, training on how to start a project on GitHub, senior to junior knowledge sharing and an Engineering Bootcamp for the freshers, all of these involve a lot of planning, time, effort and energy. The competence, commitment, and valid contribution of each member is the hallmark of the club's achievements to date. I would like to appreciate each one of you for all the commendable work done so far.

My best regards to all LICETians for a wonderful year ahead and I look forward to witnessing a lot of great activities in Pattarai. I am certain that the current office bearers of Team Pattarai will take this club to the next level.

Best Wishes!

- DR S **SENGOLE MERLIN**  
DEAN OF WOMEN STUDENTS

# Dean of Engineering

## OPENING DOORS

It gives me immense pleasure to see that the Pattarai club continues to spread inspiring energy in the Licet community. In fact, Pattarai is opening doors.

## THE DOOR TO STUDENT CENTRALITY

ICT Academy in its report on the future of higher education prepares us for the fact that the relationship between teacher and student will not be of the traditional guru-shishya variety where the disciple worshipped the ground on which his guru walked. We will see the teacher acting as a facilitator, accompanying as much as teaching. The student will also need others to act as mentors: other students, people from the industry,

It is interesting to remember that Pattarai was created by the students, for the students. Within the framework of the College, faculty can give their support, and mentoring. With workshops, training, and hackathons, Pattarai's a collaborative learning opportunity. It requires a willingness to learn by oneself, with appropriate mentoring. Self-learning will be the most visible megatrend in the 2020s. Why is this? Because there is so much knowledge available in the outside world that a teacher cannot teach everything in a classroom. Knowledge is exploding at a breakneck pace. During the online teaching mode, because of the pandemic, we have experienced the need to make new content available online, to suggest Pattarai gives us the opportunity to become curious: "Pattarai was started with the aim of knowledge sharing and helping students get ready to face the world"

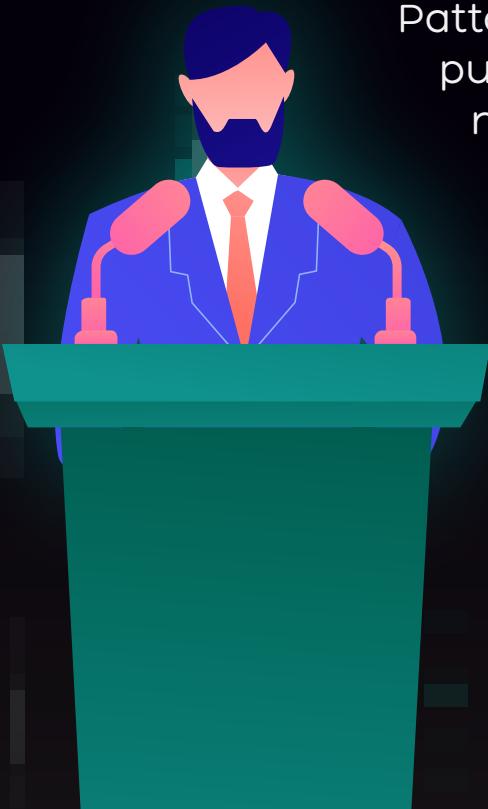
## THE DOOR TO PROBLEM-SOLVING

Pattarai encourages students to learn by working on real-life projects. Curiosity leads to ideas, ideas to projects, collaborative work around projects to solutions. Critical thinking and problem-solving are at the top of the list of skills that employers expect to gain in importance over the next five years.

Addressing the societal concerns of the future is the objective. The world is changing very fast. Every morning we have to look around us with a fresh look and ask "what kind of world do we want for tomorrow" and we have to start again and again because everything changes very quickly.

Among today's societal challenges, I would like to draw attention to two in particular: social inclusion and the environment, which are in fact one and the same: integral ecology.

It requires new solutions, to think out of the box, applicable to as many people as possible, and if possible reproducible by as many people as possible (low-tech).



Pattarai invites us to adopt this attitude and to put it into practice through projects. Small drops make big rivers. Today's projects by Loyola-ICAM College students can lead to concrete solutions for a sustainable world. The drop of LICET can come together with other drops, within a worldwide community of makers, sharing their ideas, projects, and solutions.

- MR **NICOLAS JUHEL**  
DEAN OF ENGINEERING EDUCATION

# My Pragmatic Journey with Pattarai

Pattarai was the light at the end of the tunnel for my engineering life. As I was looking for a platform that would equip me technically and lead me to choose my career path, it helped me to discover my hidden skill set for this stream of study. My first experience with Pattarai was the 'Ideathon' which helped me and my team members to use our brain's capacity to the fullest, making us learn the business side of the project as well as the ethics of the project. Mentors were arranged for each team to lead us with more expertise which helped us to think more efficiently and effectively.

After officially becoming a member of the Pattarai, it's constantly been a learning experience every single day starting from the very enthusiastic 'Web Development' workshop by our senior Daniel, to the interactive 'Flutter workshop' by our senior Rahul and the fascinating 'Intacto' organized by the event management committee. Being a Project Manager, I learnt how to build myself professionally and technically. Before joining Pattarai terms like DB, microprocessors, API Programming, Front end all seemed to sound Greek and Latin to me however right now I'm working on these and I've equipped a lot technically. All this was possible only because of the constant support given to me by my Co-Project Manager Suriya Kumar and my team members Fabian, Silas, Hamdaan, Veroni, Raksha, Jesinthan, Sherin, Dini, Shirley, Sarah, Sneha and Hari which emboldened me and motivated me. My team was patient enough to accept any changes which were said to them and worked dedicatedly showing great involvement and progress every week.

Being a Student Relations Executive, I learned to serve as a channel of communication between various departments and therefore developed an attitude that department is never a barrier. I developed management and collaborative skills which will add on to my abilities. I'm very astonished because of the huge exposure which I experienced in the very first year of LICET. I'm very excited and looking forward to the upcoming years and I truly believe that Pattarai will mold me into a person better than my expectations.

- ELIZABETH **SUBHIKSHA** VICTORIA  
2ND YEAR IT



# My Vogue with Pattarai

My vogue with Pattarai began with the Ideathon competition in May 2020. I participated in a team of five, proposing the idea of smart washing machines for the college hostels. Our mentor exceptionally lead us and we won the Best Presentation Award. I was recruited as the official crew member of Pattarai after the recruitment process. I attended various events conducted online by Pattarai, the 'Computer Science Bootcamp', 'Web Development Workshop', 'App Development with Flutter Workshops', 'Intacto - Treasure hunt', and 'Theervu - Hackathon'. Each member of the club must work on a project. I worked on a project called the 'Smart Thermometer' which identifies the temperature of the college community and stores it in the college ERP. And I was also on the Media Committee. The first term in the club ended with a special event. In the second term, I stood in the Office Bearer elections and became the Director of Outreach. Outreach is the media face of Pattarai. Currently, I am working on the second term project 'Cortex' which is the Pattarai club's ERP. There are numerous of take away from Pattarai. I learn something new in every project and event I take part in. Hoping to learn even more in the upcoming days.

- **SHIRLEY CHRISTABEL**  
2ND YEAR IT

# My Adventure in Pattarai

Being an amateur in tech, Pattarai got me a fresh perspective, revamp my skills and enhanced my learning interest in tech. I Joined the club when I had the foggiest idea about engineering. The Dev Workshops conducted by them triggered my enthusiasm towards developing Apps, websites and more. I've figured out how to manage time, adjusting both Pattarai and Academics. It aided me to be productive during quarantine days. The way that this club is for the students, by the students, is more impressive. I'm glad to be a member of Team Pattarai.

- **ROSHITHA R**  
2ND YEAR IT

# My Days at Pattarai

Hello world! Dhivya here. Currently, I am leading the team called Project Cortex at Pattarai. To brief about my journey at Pattarai, I joined this club as an enthusiastic learner. Once I joined here, I attended the workshops conducted by the club which assisted me with upgrading my skills.

The Web development workshop hosted by Daniel Mark was a significant one. Now, I have great insights in developing web pages. I also served as Head of Student Relations at Pattarai where I developed HR skillset.

My job was recruiting individuals for the club and maintaining rapport between members and the club. I also worked on developing mobile applications by attending an App development workshop hosted by Pon Rahul. I've contributed in building an ERP suite for our college where I learnt to use different tools.

Here, I learn new things every day and simultaneously experiment my learnings. As a project club, we work on different fields and experience the diversity among them. I am glad that I am a part of this club. My days at Pattarai are truly productive and amazing. I am proud to be a diligent member here.

Emergence of Pattarai is making this pandemic more efficient. If you are an energetic learner with crazy ideas, then Pattarai is the platform for you. I am happy to be a part in turning this club to a tech community.

- **DHIVYA DHARSHNI**  
2ND YEAR IT

# Intern to an Official Member

Hi, Hope you're having a great day. I'm here to share my journey in this exciting and productive club, Pattarai. When the "stay home" GO was passed, life was something different. Of course, many suffered from the pandemic but the others just sat out the whole thing at home. That is when I got to know about the club.



Since I was interested in their activities, I would join their online events as an outside spectator, but one day they had announced their new internship program. I heard there were openings for designers in the club, so I decided to apply and prepared a resume for the interview. A few days after the interview I received an email from Pattarai, welcoming me into the club. I was super excited when I got the mail. All the interns were invited to Pattarai's discord server to work alongside the crewmen. After a month of internships, Pattarai had their first "Offline meet" and decided to recruit the interns as crew members. After the recruitment process, all of Pattarai's freshmen were invited to the official social media groups of the club.

Immediately after the icebreaker session, there was a meeting about the objectives and committees of the club. All the new crew members were asked to join one of the committees. I was interested in designing, so I opted for the outreach committee. There was a director for every committee in the club. We all became teammates. These few months as a designer at Pattarai, I learned a lot about leadership, commitment, teamwork, deadlines, priorities & entertainment. Where are the skills you ask? Of course, that was not all, I also learned a lot about designing, programming, promoting & organizing. I hope the club reaches more heights, it's not just a wish, it's the belief I have in Pattarai's members.

- **JONATHAN RYNDOLF**  
1ST YEAR MBBS

# My Travel in Pattarai

The year 2020 was a turning point in everyone's life. And it was at that time when the progress of knowledge and skills took a recess. But this pandemic was not an obstacle to a community that calls itself "PATTARAI". It started with two members and one event. And now its roster is overwhelming.

My journey with Pattarai started with the Ideathon. The progress, mentorship and screening process gave an exceptional experience. "Team effort always pays". And I experienced that during the Ideathon. Being recruited into Pattarai is one of the best platforms given by God. "Learn, implement and develop" is what I learned from Pattarai.

From the moment of stepping into it, the learning process started. From web development to app development, we are trained to be developers. The process of learning not only stops there, it continues to the implementation and development part too. Project Caliditas, a touch-free device that provides a detailed result analysis of the temperature of the college community. The project where I learned my interests.

Management is one of the qualities everyone needs in this chaotic life. I was a person who found it difficult to manage things in my life. This platform has taught me this quality along with others. Being an HR Executive and a member of the HR committee was one of the essential experiences I had in my life. A good organization is one where the member of the organization grows along with the organization. And I experienced that in Pattarai.

From being a crew member to being a technical lead; The opportunities, experience and knowledge I gained from here are to the best. Hope to learn and experience more in the future.



-D VERONI SHWETHA  
2ND YEAR IT

# Tactile

## INSTANT TEXT TO BRAILLE CONVERTOR

"Reading for me has always meant braille. Even though I appreciate the audiobooks I would prefer reading" says Peter White who lost his sight at the age of 12. But unfortunately, we have only 1% of the books being translated to Braille. It surely is time-consuming, expensive, space-occupying to translate text to Braille. But this shouldn't be a barrier affecting their education and career.

We do have read-out-loud technology to substitute braille, right? Well, we do have physical texts to read and not a digital version of every book or information. And it takes a lot of effort to convert the text into audio. Ike Presley- the National Project Manager for the American Foundation for the Blind mentioned that auditory is great...but it doesn't give you literacy.

Now, why can't we combine technology and braille? A group of young students from MIT(Massachusetts Institute of Technology) came up with the idea for a device, 'Tactile'. It develops technology that converts printed text to Braille. The low-cost, portable handheld device is designed to help the visually impaired increase access to real-time text around them, such as printed menus, flyers, mail, and bills.

Friends since their freshmen year, Chandani Doshi '17, Grace Li '17, Jessica Shi '17, Chen Wang '17, and Charlene Xia '17, came up with the idea to make something Braille as part of MakeMIT 2016, the annual hardware hackathon run by the student organization TechX. Their concept, called Tactile, was awarded first place and sponsorship from Microsoft. The team's latest prototype, can display six characters at a time and has a built-in camera. Users can place it down on a line of text and with a push of a button, the device takes an image. Optical character recognition then takes over, identifying the characters on the page using Microsoft's Computer Vision API. Then the team's software translates each character into braille and subsequently triggers the mechanical system in the box to raise and lower the pins.

Later they started looking for funds and other support to make a more robust prototype. They have won a lot of events and sponsors and have patented their invention. They are currently beta testing the product in the Boston area and plan to use the prize money to refine and streamline their prototype and make the device even smaller.

The final product must cost less than 200 USD, the team says. And so, the visually impaired people soon will be able to access real-time text and a much better grammar education of the subject.



- JYOTSNA CALLISTA  
1ST YEAR MECH A

# Director of HR

"If you think it is expensive to hire professionals, then try to hire dilettante"

I feel very privileged to write this article for the second edition of Pattarai's newsletter - Elevate<sup>^</sup>. It is my duty to thank all the club members and the office bearers who worked along with me for the past few months in developing and evolving our club. As the Director of Human Resources, it is my honour to thank the HR committee members for their work and contributions in the committee and in the club.

It all started way back in the beginning of Lock Down, where we initiated and started our project club - Pattarai. We had workshops and Bootcamps and many events which grabbed the attention of others and we got them to know what this club does in LICET. As our first Project, we worked on the development and production of an ERP suite where we had hands-on experience on a project and that was the time period where many students identified their skills and cultivated it and therefore we got a clear understanding about the real life projects.

As the HR of Pattarai, I learnt to take up the responsibilities of managing and operating the club and coordinating with my entire team. It opened doors for me to build my communication skills alongside gave me a huge exposure to shape my personality as I had the experience of conducting interviews, solving conflicts, making decisions and collaborating with other departments in our club. It not only helped me individually but also helped me to mold myself into a better team player.

"A good club can change you. A great club can change your life" and in my life Pattarai has always driven me closer to reaching my goals.



- **JESINTHAN**  
2ND YEAR CSE

# Outreach

Outreach Committee - as the name suggests we go through the length of reaching out our club activities to all the people out there. We have been continuously updating the social media platforms (LinkedIn, Instagram, Twitter, Facebook, YouTube) about the activities that are going to be conducted and other news like recruitment for the club/intern. We are a team of nearly 15 members who are all equally distributed in content writing, designing, editing posters and videos.

On a regular basis we conduct a meet-

ing either in our discord channel or google meet to follow up with the activities that have to be done and that have been completed. Now our prime focus is on the promotions of elevate^, a Global Engineering Conference conducted by Pattarai. We are planning on various marketing strategies to make sure our club reaches many people.

Not only we notify people about our club activities but also, we wish all our beloved crew members on their birthday with a hearty wish post. Some of the past works of our committee are the promotion of Intacto- a technical treasure hunt, Mentorship for the freshers of our college. The newsletter that we publish is also handled by our committee where we design and edit the content details and draft the newsletter.

Our motto is to make sure that our club reaches more people and extend our reach just like the name of our committee.

- **GAYATHRI R**  
3RD YEAR IT



# Projects



# Project Miles

"Teamwork is the ability to work together toward a common vision".

After we finished the software project (ERP), I was longing for a hardware project as I was curious and excited to do an electronic and as well as a hardware project. Also, at Pattarai we have done an ample number of software projects. So far, we have only one hardware project (Caliditas) in our belt , so it would be nice to do a hardware project.

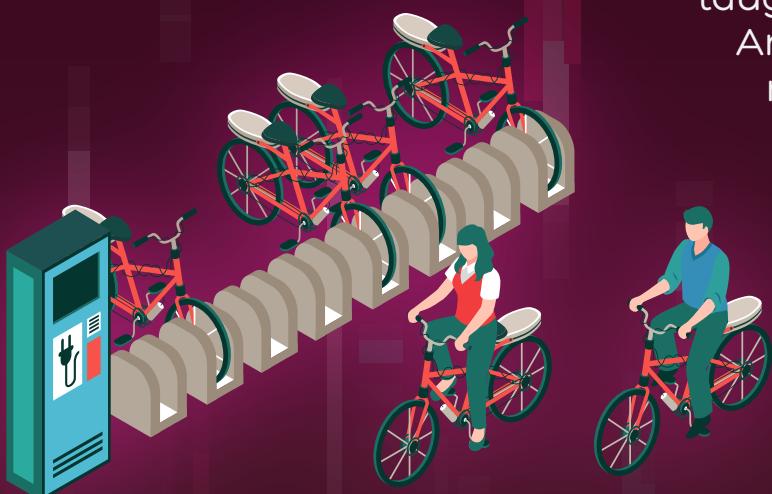
Fortunately, our former president came up with Project Miles. Project Miles is a rented smart cycle company where the smart cycles are established all around the LICET Campus using docking stations. The students and staff can access the smart cycles through our Mobile App. Our Project team was split into different teams Hardware, Software and Electronics Team. I was part of the Electronics team in Miles. When I came into the team, the flow of the project was quite complicated and it felt difficult for me to follow up with my team members. But eventually, as the project went on, I realized the substance of the work that I had to do.

The seniors in the Miles team encouraged us and that helped me a lot to do more. At first it was difficult for us to be physically present at the college and then each one of us came to college on alternative days even in this pandemic situation because you can't build a smart cycle from your home. Throughout the process of building a smart cycle, I learnt different aspects of building the smart cycle like 3d modelling, circuit designing, Mechanical system and much more. As Henry Ford once said "Coming together is a beginning. Keeping together is progress. Working together is success.". I totally believe in Teamwork and

that's what Miles and Pattarai have taught us over these 10 months.

Am sure this project will bring a makeover to our club and prompt us to do more such fab projects and come up with flying colours.

-MARK GERALD  
2ND YEAR ECE



# Project Cortex

Project Cortex is an ERP Suite for Pattarai, to make the club function more efficient and efficacious. It's a pack of many modules which will help the club to be organized in a more constructive manner.

The various modules that team Cortex will be working on are CRM, Ranking System, Events, Attendance, and Profile.

One of our core focuses is Customer Relationship Management (CRM) which is a business approach that helps improve existing customer's relationship and acquire new customers. The main goal of our project is to create a relationship with the end-user and the organizer.

The project started by listing down the needs faced by the club and also other professional organizations. Our President Daniel Mark helped and guided us with the research analysis of the project. The needs of the club were refined and structured. We have planned to assign the modules among the team members and make them work on the modules.

The attendance module facilitates better timekeeping. This module keeps track of attendance. The event module is an interface that displays all the events to be held to the user. The admin has access to edit and modify events. As each new event is created, It also parallelly sets a Google calendar event.

The ranking system is set up to maintain healthy competition between the teammates and to boost the morale of the club. The ranking is based on several factors as of their contributions to the project and committees and their performance in competitions. The profile page displays the Name, Roles, Committee, Current and Previous Project, Rank, and Badges of the user. The user's data will be stored confidentially.

After the research analysis, the UI of the ERP was decided to be designed. And it's in the process of refinement. The practice of gaining knowledge and sharing it with others is a good practice. And this notable action is the one that makes the team grow more and learn more. This will be a full-fledged ERP system that is useful in every aspect and will be sold out to other organizations in the future.



-D **VERONI SHWETHA**  
2ND YEAR IT

# Events

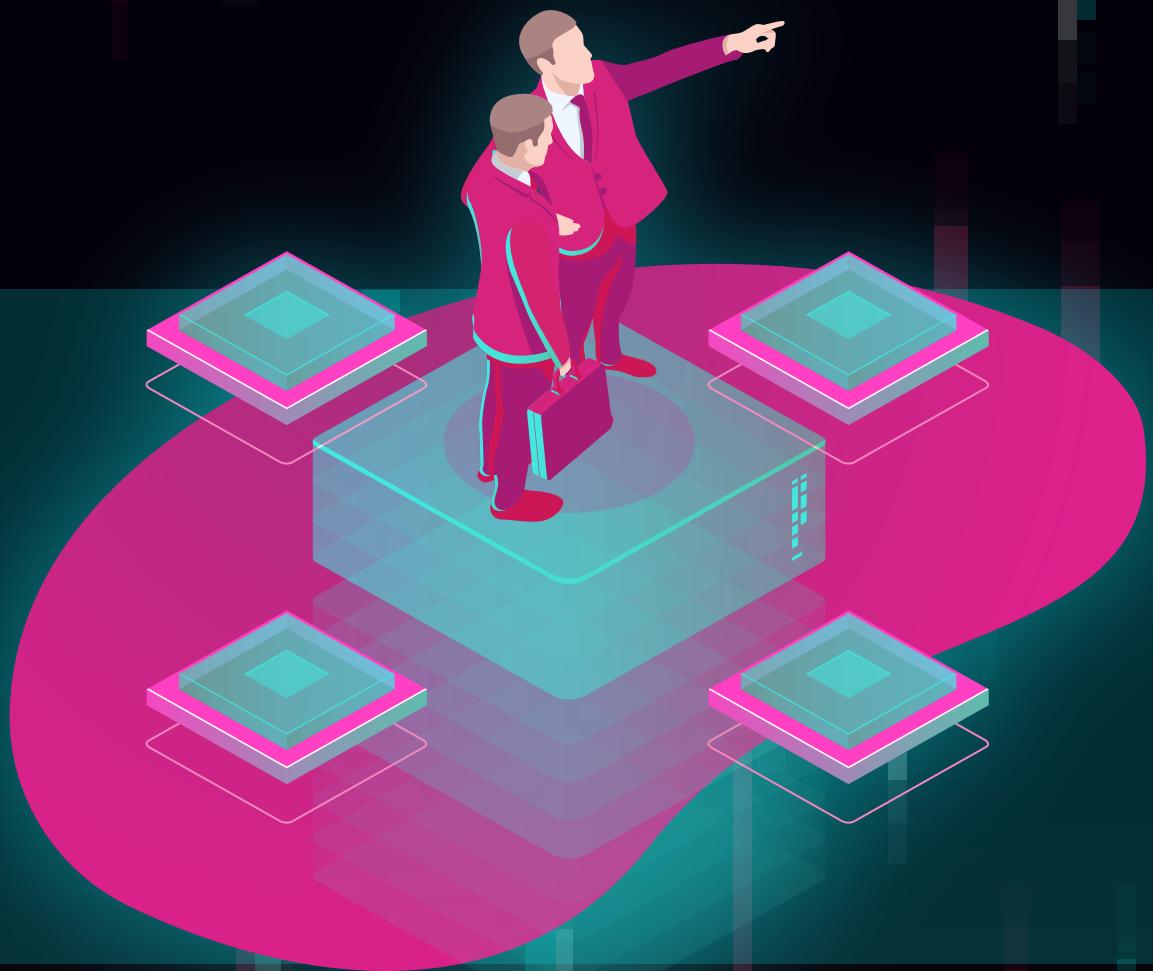


# Offline Meet

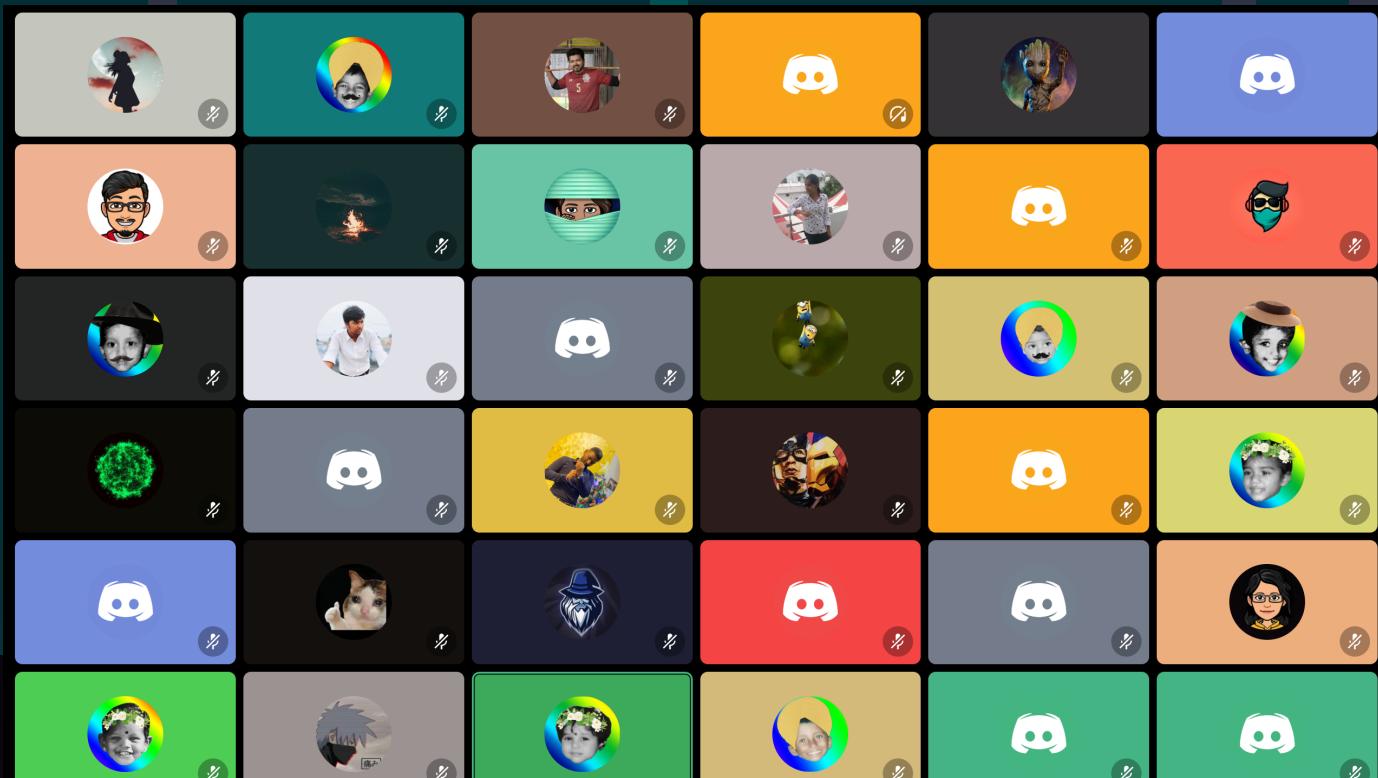
Finally!! The wait was over. For the past eight months PATTARAI and its members has been working through Google meets and Discord to work on its project. Everyone in the club was longing for a physical meet. So PATTARAI organized an Official in the college campus. Nearly 20 members from the club attended the meeting. Everyone was excited about meeting each other physically. First the President of the club Mr.Daniel Mark gave a small speech to the members. Followed by the speech of Dr. Nicolas. Then different committees of the club gave their presentation about their work in the club. Then Mr. Pon Rahul gave brief speech about the future of the club. Then finally Mr. Prabhu Shankar spoke about the club. We discussed a lot of things about the club.



# Mentorship



The Mentorship process was initially started by the mid-week of December where each of the members of PATTARAI were assigned as a Mentor to two Mentees who were freshers of the college. The freshers were quite curious and excited about PATTARAI. The Mentors created a good rapport with the freshers. They also educated them about how PATTARAI works. The mentoring process was done in two levels. The freshers have to clear the two levels to get into the club as an official member.



# From a Fresher

I have found the pairing has worked really well in terms of my mentor's experience and skills relative to my goals and aims. I think we've managed to set out some good ground rules which has really helped me. The advice received was always passionate, well-considered and very constructive, and as such I found it incredibly helpful. It encouraged me to look at things in a different way and helped me to be able to take a more objective perspective on my subject. My mentor is lovely and had really given time to me and helped me to think through my workload and which areas to modify. We spoke about, how I can really work on both my academics and co-curriculum. My mentor is very encouraging and optimistic person, being with her and discussing or learning about subject is always interesting.

- **SAGARIKA VINCENT MARY M**  
1ST YEAR ECE



# Awards



# ACE Award

For 4 long years, I have toiled relentlessly and waited for this opportunity. I have pictured myself holding this award, crying with joy and speaking continually, almost pouring my heart to the audience.

A couple of experiences that I would like to share. During my initial days at LICET, I came to know about Turbonites and it was truly inspiring to see them get their hands dirty and work on some real engineering stuff. I really wished that there was a similar club at LICET, with a much broader scope. With Mr Prabhu Shankar, Mr Nicolas, and Dr Caleb's mentorship, I founded PATTARAI with Fabian Ferno in May 2020, LICET's flagship project club, equipping students with contemporary technical skills by working on real-life projects. I would like to read an excerpt from the Director Father's email.

"Your effort towards creating this type of club to incubate on the ideas and be innovative is laudable. I welcome the idea. LOYOLA CAMPUS has so many 'engineering problems' and you could find 'solutions' for many of them using the brains inside the campus."

I feel extremely happy to say that Pattarai is working on several campus projects including but not limited to the college's ERP software, a wireless pager network, smart commutation, connected thermometers, and also an active international project from the UK. I am confident that Pattarai will be a budding techno-management community in the next 10 years at our current development rate.

Life is not a race. You have to create your own race where you will be the only one! The first and the last!

Let me share a little secret. It is very easy to get started with projects. When you find a technology interesting, go read the official documentation provided by the manufacturer. With a little bit of patience, you will get started with the technology in less than 1/3rd of the time that you spend on online courses. Best part, the information that you read on the vendor's website is precise and up-to-date. You will continue to stay in the trend. As you keep reading the manual, try to apply them on mini-projects, try to apply them to solve problems around you.

Another easy way to get started with software development is to work on open source projects. All the popular software that you use in your day-to-day life, Chromium, Firefox and Blender all are open source softwares. All these projects are available on GitHub. Start small, try to contribute to bug fixes for these projects. Connect with people who work on similar technologies. Get started with LinkedIn, IRC, and Discord. You will meet experts who will guide you through.

-PON RAHUL M  
4TH YEAR IT



# Cultural Award

I'm overjoyed and grateful to have received the best cultural performer. It was not an easy task to win this award. During culturals, I had many sleepless nights, skipped meals, had unfinished tasks, bunked classes, been ridiculed on stage, had fights, and so on. It's so much fun to go over the whole process again. I'd like to share a nostalgic memory from my first year of engineering. We were performing an off-stage event called Adzap, and our script was so bad that not even my department cheered. The judges began mocking us. I was so disappointed that no one, including us, seemed to enjoy the show. That's when I decided to work hard and steal the show. The next year, my senior and I wrote the screenplay, which took third place, and then first place the succeeding year. I would not have had the desire to improve myself if I had not failed the first time. That's when I eventually realized that failure is the key to success. This entire process aided me in numerous ways.

I was finally capable of understanding who I am. Being on stage and witnessing the rush of adrenaline that comes when performing is what I truly miss. I'm grateful to LICET for allowing me to demonstrate my skills and pursue a career other than engineering.

- **BIBIAN STANI**  
4TH YEAR ECE



# Editorials Credits

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**DANIEL MARK**  
IV IT



**ELIZABETH SUBIKSHA**  
III IT



**SHIRLEY CHRISTABEL**  
III IT



**ROSHITHA R**  
II IT



**DHIVYA DHARSHNI**  
II IT



**JONATHAN RYNDOLF**  
MBBS



**VERONI SWETHA**  
II IT



**JYOTSNA CALLISTA**  
I MECH



**JESINTHAN**  
II CSE



**GAYATHRI R**  
III IT



**MARK GERALD**  
II ECE



**SAGARIKA MARY M**  
I ECE



**BIBIAN STANI**  
IV ECE



**PON RAHUL**  
IV IT

## EDITING & DESIGN



**ABIJESH EUPHRINE**  
II B.Sc. CS



**MARK GERALD**  
II ECE



**RIZZERIO ALEXANDER**  
II MECH



**INFANT BENITA**  
II CSE



**PONMANI PR**  
II CSE



**VERONI SWETHA**  
II IT



**FABIAN FERNO**  
II IT



**RAKSHA V G**  
II IT



**ASMIR KHAN**  
II CSE



**JOSHUA FRANKLE**  
II B.Sc. CS



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P A T T A R A I

Loyola - ICAM College of Engineering and Technology  
Chennai - 600 034, Tamil Nadu, India

[www.pattarai.in](http://www.pattarai.in)

+91 94873 23890  
+91 044 2817 8490

