

DEPARTMENT OF
ELECTRONICS AND TELECOMMUNICATION ENGINEERING

Synergy ²⁰²²

AN EXCHANGE
OF IDEAS

**PADRE CONCEICAO
COLLEGE OF
ENGINEERING**

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Editor's Note

It gives me immense pleasure to bring forth to you 'synergy' - The annual magazine of the Electronics & Telecommunication Department, PCCE, Verna Goa for the year 2021-2022.

I would like to take this opportunity to express my sincere gratitude to our Principal **Dr. MAHESH B. PARAPPAGAUDAR** for his continuous support. I would also like to thank , Head of Electronics & Telecommunication Department **Dr. JAYALAXMI DEVATE**, for encouraging us and providing us with all the facilities required.

I thank the editorial team for their hard work and enthusiasm. I would also like to express my gratitude to each and every person for actively participating in the making of the annual magazine and making it a huge success.

Sanjeet Kanekar

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STAFF ACHIEVEMENTS

Journal Publications

1. **Associate Prof Shailesh Khanolkar:** An Adaptive Transmission Mode Selection Scheme for Cellular Underlaid D2D Communication by Nitin Sharma, Shailesh Khanolkar, Shreyas Ramesh Kumar, Alagan Anpalagan was published in International Journal of Wireless Information Networks
2. **Associate Prof Shailesh Khanolkar:** Design and Performance Evaluation of a Wi-Fi Energy Harvester for Energizing Low Power Devices by Diffa Pinto, Akash Arun, Sahil Lenka, Lindsey Colaco, Shailesh Khanolkar, Santushti Betgeri, Akhilesh Naik was published in IEEE.
3. **Associate Prof Shailesh Khanolkar:** Energy-Efficient Resource Allocation in Underlay D2D Communication using ABC Algorithm by Shailesh Khanolkar, Nitin Sharma, Alagan Anpalagan was published in Wireless Personal Communications

Workshops Attended

1. **Asst Prof Sneha L. Mhalsekar:** "Electronic Circuits Simulation and Design" organised by the Electronics and Communications Engineering of Agnel Institute of Technology and Design, Assagao- Goa
2. **Asst. Prof. Sanjeet Kanekar:** Universal Human Values a 5-day FDP-SI Online - organized by "AICTE Incorporating Universal Human Values in Education"

ALUMNI ACHIEVEMENTS



A dream does not become reality through magic; it takes sweat, determination, and hard work.

ETC Department is glad to share the achievement of our alumni Mr Ajay shanbhag who received the TARA Award (Teaching Assistant Recognition Award) for the year 2022 from IIT madras. It is an award to felicitate the Teaching Assistant in Electrical Engineering Department for the Quality and Quantity of the TA Work.

The award was presented in the hands of the esteemed Chief Guest of the 59th Convocation of IIT Madras - Dr. Rao Tummala.

UNIVERSITY TOPPERS



*Mr. Anchut Hemant
Nagvekar*



*Ms. Vailancia
Patricia da Rebello*



Ms. P. Jyothirmai
S2 E01

IETE STUDENTS FORUM ACTIVITIES

SR NO	DATE / DURATION	EXPERT/ RESOURCE PERSON	INDUSTRY/ INSTITUTION	TOPIC	PARTICIPATI ON	Event Co ordinators
1	9th October 2021	ISF Council	PCCE	CodeFest(Te chyon 2021)	38 students (online)	Ms. Avita Lotlikar
2	17th June 2022	Ms. Rohini Korti	PCCE	LATEX	44 students	Ms. Avita Lotlikar
3	17th June 2022	Mr Subodh Mone	Autotech Technologies	Interactive session on Industrial automation	30 students	Ms. Avita Lotlikar
4	21st June 2022	Dr. Akshay Prabhu Verlekar	Canon Medical Systems Corporation Otagawa Japan	Introduction to Biomedical Imaging and emerging trends in imaging physics	40 students (online)	Ms. Avita Lotlikar / Mr. Shailesh Khanolkar

RACE CLUB ACTIVITIES



The Race club was formally inaugurated during Techyon 2021 by the chiefguest Mr. Deepak Chodankar and other prominent figures like Fr. Angelo Gomes, the Director of ATEC and Dr. Mahesh Parappagoudar, our respected principal.

RACE stands for Robotics, Automation, and Coding Engineers.

The club is designed to be an amalgamation of electronics and computer engineering concepts as is insinuated in the logo. The mission of the club is to organize events that encourage learning from the domains that the club comprises of.

FIELD VISITS



Final year students of ETC department, PCCE had a field trip to DNA or Digital Network Associates Pvt. Ltd, popularly known as "DNA Broadband Goa". Operational in Goa since 2006, DNA is reputed for providing high speed internet & WIFI services for entire GOA.

The students were able to practically understand the concepts studied in 'Computer Networks'.

Routers, networking and data communication was explained in a live setting. The students were accompanied by their teachers Asst. Profs. Ms. Mahi Itagi and Ms. Viosha Agnella Cruz.







PHOTO GALLERY





KURUKSHETRA



APRIL 2022





VIIHVA



MAY 2022





MOMENTS





STUDENTS



CORNER



FINTECH

Financial technology (abbreviated fintech or FinTech) is the technology and innovation that aims to compete with traditional financial methods in the delivery of financial services. It is an emerging industry that uses technology to improve activities in finance. The use of smartphones for mobile banking, investing, borrowing

services, and cryptocurrency are examples of technologies aiming to make financial services more accessible to the general public. Financial technology companies consist of both start-ups and established financial institutions and technology companies trying to replace or enhance the usage of financial services provided by existing financial companies.

After reviewing more than 200 scientific papers citing the term "fintech," a study on the definition of fintech concluded that "fintech is a new financial industry that applies technology to improve financial activities. " Fintech is the new applications, processes, products, or business models

in the financial services industry, composed of one or more complementary financial services and provided as an end-to-end process via the Internet. It can also be considered as "any innovative ideas that improve financial service processes

by proposing technology solutions according to different business situations, while the ideas could also lead to new business models or even new businesses. " Financial technology has been used to automate investments, insurance, trading, banking services and risk management. The services may originate from various independent service providers including at least one licensed bank or insurer. The interconnection is enabled through open APIs and open banking and supported by regulations such as the European Payment

Services Directive. In trading on capital markets, innovative electronic trading platforms facilitate trades online and in real time. Social trading networks allow investors to observe the trading behaviour of their peers and expert traders and to follow their investment strategies on currency exchange and capital markets. The platforms require little or no knowledge about financial markets, and have been described as disruptors which provide "a low-cost, sophisticated alternative to traditional wealth managers" by the World Economic Forum.

Sarvesh Lad
TE ETC



TURNING POINT

Everyone has a turning point in their life. May it be a successful or an unsuccessful journey. It starts when an individual grows up spiritually, mentally, emotionally and also, when one is aware of what life is, your decisions in crucial

times decide the outcome. It is said "Success doesn't come overnight. Unfortunately, it takes up years and even decades for an individual to become successful.

The turning point can be related to anything, take an example of a person who is disheartened, stressed about the career, being bullied, has a family to see to, relationship issues and many more to count. When an individual comes across such situations the person starts thinking about the past experiences and thinks of falling back but the best option in times like these is to prepare ourselves for a bright future, no matter what life throws at you. It is always said "You ought to have passion to start something new! " and this is all you need to get started with. The critical age where mostly youngsters are always befuddled with a question, What's next? Where they are a bit confused about life, about the future and also one's own self-worth. It doesn't matter what your age is or what your capabilities are, if you try and work hard every single day, the turning point is on your way.

In today's Rapid and speedy world mankind is learning, studying, and exploring new things in a much-advanced manner. A person who has interest and passion, should never stop learning and that's how you'll gain your part of fortune. How much the person is stressed or depressed, one should always overcome it by indulging oneself in certain activities and spending time or getting involved with the experienced sources, learning how to be a part of the institution, company or society.

Getting involved with a Resource person and training yourself with finest knowledge will help you overcome tensivity and fade away your stress. There are times when people start giving up and impose a full stop in their pressurised and depressed conditions don't let things drag you down. That doesn't help, every Individual should never give up on their life or dreams. There is a long way for oneself, to be a part of and come across such unrealistic situations in their infrequent and occasional lifestyle. There are moments when you feel guilty and ashamed, always say to yourself "I have given up on giving up" and that's how you'll move forward.

Every day is a day to make changes and give up on a toxic relationship, which doesn't do anything good to oneself and move on to your peaceful and satisfactory life. Today is all about today. You won't get today as tomorrow. Tomorrow will be different and unique.

Think positive, stay positive, and also explore all known and unknown possibilities. Whatever happens, happens for the good. Never blame yourself for unpleasant times in your life. Be Cheerful, celebrate every day, be optimistic, be productive. Chase your dreams to the fullest and be a happy soul with life changing boundless thunders.

Sonali Borkar
BE ETC



THE MISSING PIECE:

Yeah I lost a piece
A piece of my heart,
Which I thought could keep
And no one would break apart.
I found it missing
Everywhere did I look,
Failed to get hold
I went searching for the crook.

Everywhere I saw
Even through the sky,
Saw many pieces like mine
Lost above high.
Yet my heart kept calm
Serene and sound,
Thinking that once lost
Will never be found.

And to prove it wrong
Days much I spent,
Hoping to get my piece
Now not worth a cent.
But that piece made me feel
Feel happy and glad,
Losing it was somewhat
Much more than sad.

And voila!
Did you do it you ask?
Do it to prove my heart wrong
Of course!
There it was
Within my reach, at last!
But it cast over me a shadow
Of broken feelings and the past.

Cause the piece did I see
Was the one to be found,
To my disappointment
With else's heart was bound.
Yeah I lost a piece
A piece of my heart,
I wish I could give
It all another sta

*Anushree
SE ETC*



BE ETC FAREWELL 2022

To mark the end of a long splendid journey of engineering, The Electronics & Telecommunication Engineering Department at Padre Conceicao College Of Engineering , organized “Farewell Party” for the students of BE ETC, the batch of 2022

The function was held on 9th May 2022 at 2:00 pm. Faculty members of the ETC department and the students of batch 2022 along with the organizing team were a part of this function. The comperes for the event was Ms. Priyanka Biradar from TE ETC class

The ceremony kicked off with a beautiful video for the students. It portrayed the various memorable and convivial moments that these students shared. It marked some unforgettable and significant experiences for the outgoing students capturing the time they spent during this period.

Thereafter, the HOD of our department, Dr. JAYALAXM DEVATE addressed the gathering. she encouraged the graduates to work hard and excel in the field they plan to venture into.

As a token of love and appreciation, The organizing Team presented an impressive dance performance. The function also consisted of spot prizes, games held throughout the function.

At the end of the gathering, Mr. Shriram Param BE ETC gave the vote of thanks. The ceremony was concluded with a group picture of all the graduates and faculty. The big smiles on their faces was a clear indication of their elation and appreciation for all those great memories that they created together.

STUDENTS COMMITTEE

ISF COUNCIL 2021-22

CHAIRMAN Mr. Arpit Kumar Kashyap TE

HONY. SECRETARY Ms. Tanvi Bharat Matkar TE

MEMBER Ms. Lindsey Velany Colaco TE

MEMBER Ms. Chaitra Hegde TE

MEMBER Mr. Vikram Kumar Ray BE

MEMBER Mr. Tanveer Mohammad BE

SENATE COUNCIL 2021-22

President: Rohan Parab (T.E. ETC)

Vice-President: Balkrishna Raut Dessai (T.E. ETC)

Secretary: Manthan Nagvekar (T.E. ETC)

Treasurer: Riya Raikar (T.E. ETC)

Editor: Preity Parab (T.E. ETC)

Executive Members:

(i) Shriram Parab(B.E. ETC)

(ii) Prajval Padate (B.E. ETC)

(iii) Tanvi Shiroadkar(B.E. ETC)

ETC DEPARTMENT NEWSLINE COMMITTEE

1) Sarvesha Phadte

2) Shriram Parab



Synergy 2022

Electronics and Telecommunication Engineering Department

Head of Department

Dr. Jayalaxmi Devate

Associate Professors

Mr. Shailesh Khanolkar

Assistant Professors

Ms. Avita Lotlikar

Ms. Sharlaine Nicole Monteiro

Ms. Sneha Mhalsekar

Ms. Rohini Korti

Ms. Raksha Singbal

Ms. Mahi Itagi (Contract)

Mr Sanjeet Kanekar (Contract)

Non Teaching Staff

Mr. Santosh Tari

Ms. Lizzie Fernandes

Ms. Merlyn Dsouza

Ms. Suzette Dourado

Mr. Raghu Billava

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