JAN 2021, VOL.1: ISSUE 5

KiTE Explorer

A WEEKLY E-MAGAZINE

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- ESHIKHYA - Inaugural
- MoU

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KiTE Explorer

A Weekly E- Magazine

Jan 2021 | Vol 1 | Issue 5

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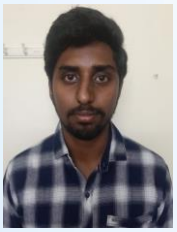
Placement Highlights

Mr.B.Gowrishankar
IV BE ECE

Mr. Hariharan S
IV BE CSE



Mr. Nitheeswaran B
IV BE CSE

Ms. Rajalakshmi G
IV BE CSE

Mr. Sandeep M
IV BE CSE

Mr. Sanjeev kanth G
IV BE CSE

Mr. Sarveshwaran D
IV BE CSE

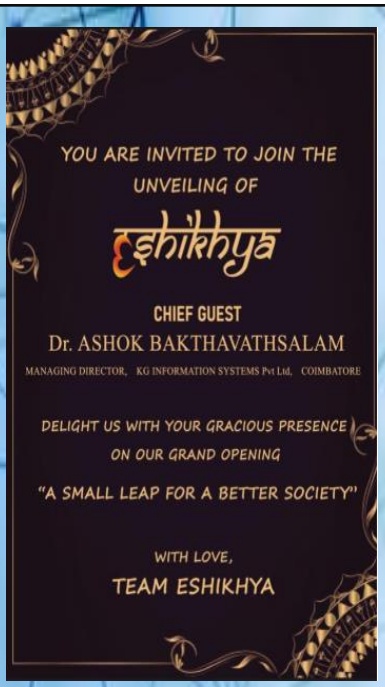
Mr. Selvaganesh M
IV BE CSE

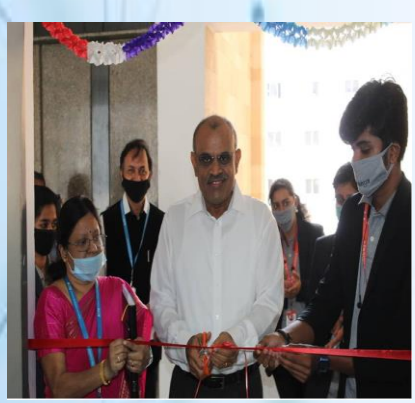
Ms. Vinitha M
IV BE CSE

Ms. Saranya S
IV BE CSE

Management, CEO, Principal, Vice Principal and faculty members congratulate the IV year students who have placed in **Ugam Solution** through online placement drive, KGiSL Institute of Technology, Coimbatore.

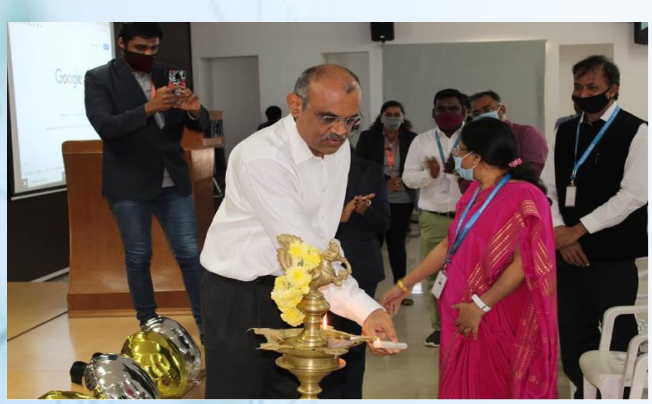
ESHIKHYA – Inauguration

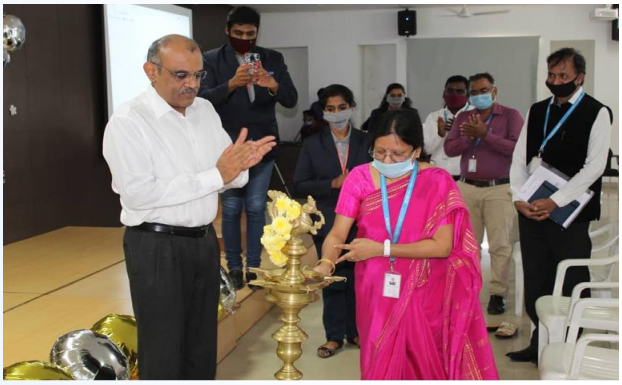


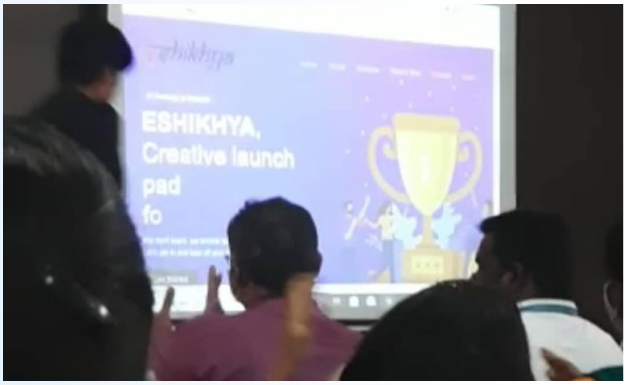


E-Shikhya, a KiTE incubated startup, was inaugurated on 27.01.2021. It is an online learning platform developed by KiTE students, founded by **Mr.Sudhakaran S of final year CSE department**, and co-founded by Subiksha Pattnaik and Ruby Mythili of the ECE and IT departments, respectively. Our **Managing Director, Dr. Ashok Bakthavatsalam was invited as the Chief Guest** for this grand ceremony.

Glimpses



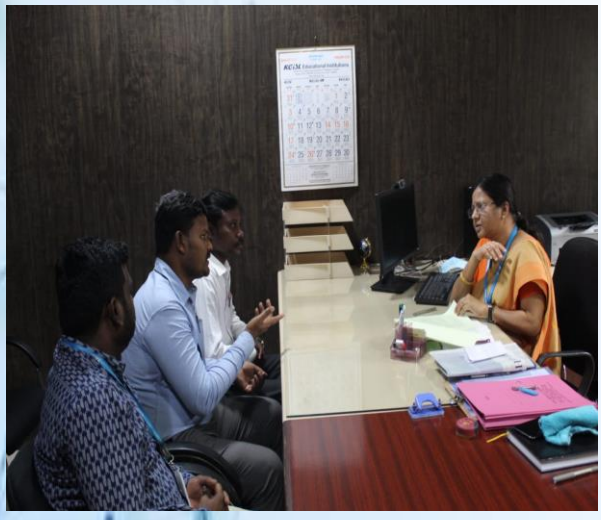




Memorandum of Understanding

The Department of Information Technology, KGiSL Institute of Technology signed a MoU with Pantech E-Learning, Chennai on 29.01.2021 to enhance the placement opportunity for students of higher semester.

Glimpses

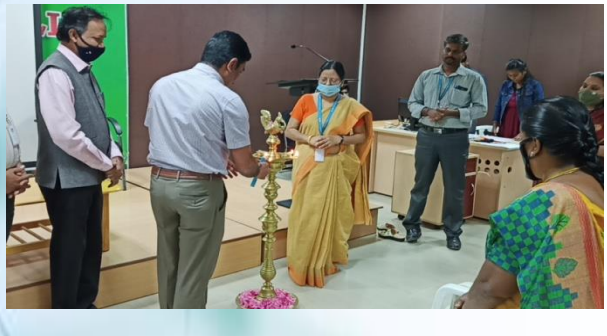


Research Proposal Submission

- Dr. V. Vijaya Chamundeeswari, Prof/CSE & Principal, KiTE (Coordinator) and Mr. S.D. Nandakumar, Assistant Professor, KiTE (Co-coordinator) **submitted a proposal under AICTE scheme for MODROBS.**
- The Department of Information Technology has submitted a proposal for AICTE-IDEA Lab on 30 Jan 2021 **Chief Mentor of AICTE IDEA Lab:** Dr. V Vijaya Chamundeeswari, **Faculty Coordinator:** Dr.Venkateshwaran Loganathan & **Faculty Co-Coordinator:** Dr. R Arun Chakravarthy.

Freshers Meet

Fresher meet was conducted by The Department of Artificial Intelligence and Data Science in association with Department of Science and Humanities on 29.01.2021. The first year students of AI & DS Department, along with their parents explored the department highlights delivered by **Prof. S.D. Nandakumar, Head of the Department / AI & DS** and our **Principal Dr. V.Vijaya Chamundeeswari** and **Vice-Principal Dr. S.Suresh Kumar** delivered motivational speech.







Fresher meet was conducted by the Department of Computer Science and Engineering in association with Department of Science and Humanities on 25.01.2021 The first year students of CSE along with their parents explored the **department highlights** delivered by **Prof. Srikanth Janarthanan, Head of the Department / CSE** and our **Principal Dr. V.Vijaya Chamundeeswari** and **Vice-Principal Dr. S.Suresh Kumar** delivered motivational speech.

Department of Mechanical Engineering had organized an **Introductory Program for first year Mechanical Engineering Students** on 27.01.2021. **Prof. C. Narayanaswamy,** Head of the Department addressed them about our department Facilities, Achievements, Alumni Cell, Entrepreneurship Development Cell and Placements in Reputed Companies and Industries.

Department of ECE has organized an Introductory Program for I BE ECE Students on 27.01.2021. The first year students of ECE along with their parents explored the department highlights delivered by **Dr.R.Jaikumar**, Asso. Prof-ECE and our **Principal Dr. V.Vijaya Chamundeeswari and Vice-Principal Dr. S.Suresh Kumar** delivered motivational speech.

"Go confidently in the direction of your dreams! Live the life you've imagined" — Henry David Thoreau, Department of Information Technology has conducted an Induction Program for the first year students to mould the students towards their career.

Student Profiling

Student profiling was done by The Head of the Department and faculty members of the Department of **Computer Science and Engineering** on 25.01.2021 for the first year CSE students

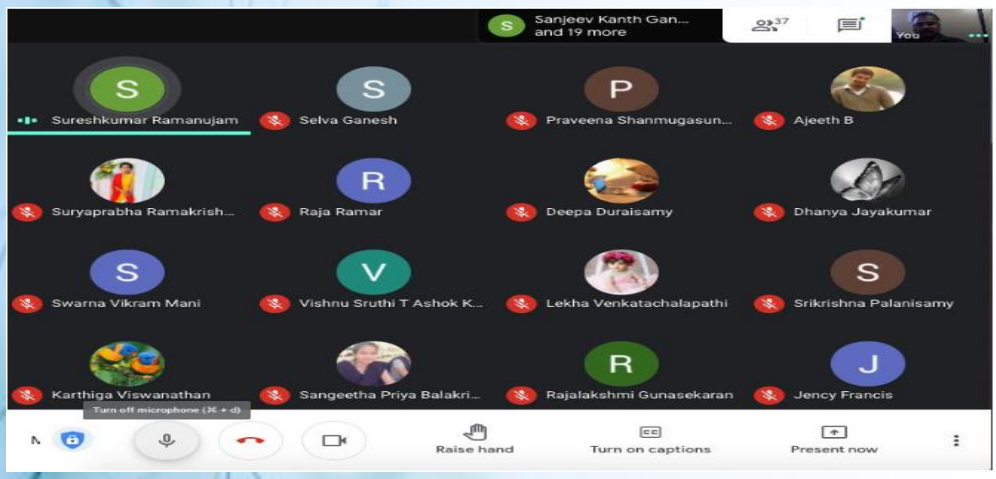
Honoring the Hackathon Winners

An **Inter Department Hackathon was** conducted by the Department of **Computer Science and Engineering, Information Technology, Artificial Intelligence & Data Science** and **Eshikhya team** on 30.12.2020. The winners and the participants were honored with certificates by our Managing Director **Dr. Ashok Bakthavatsalam.**

Placement Initiatives

"Choose a job you love, and you will never have to work a day in your life."

Mr. Joel Anandraj. E& Mr. Suresh Kumar C of The Department of Information Technology have organized an online placement training program towards UGAM placements for the students on 29.12.2020 to train the students with the skill set and to gain experience over the placement methods and preparations.



Placement Meeting was conducted for the final year CSE students by Mr. Suresh Kumar.R, AP/CSE, Placement Coordinator and Prof. Srikanth Janarthanan, HOD/CSE to raise awareness on the importance of attending placement training and interviews, upcoming Ugam placement drive, history of students placed from the department and also discussed general points regarding placement

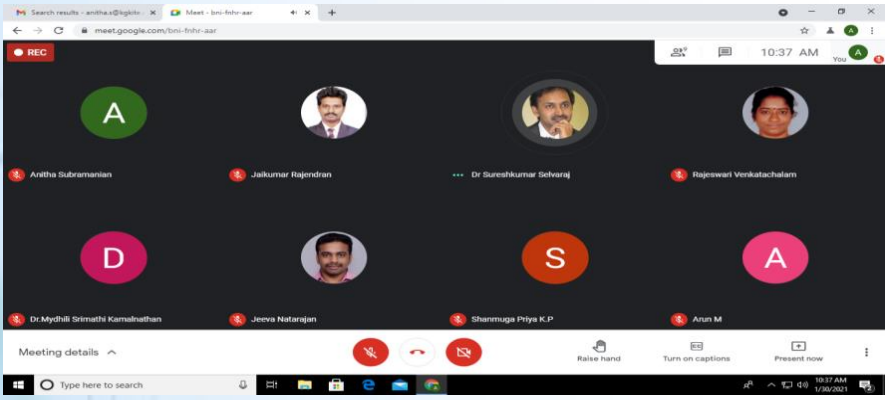
Meetings Discussions

Department Faculty Meeting was conducted by the Head of the Department, Prof. C. Narayanaswamy on 25.01.2021 at 3.30 p.m. for discussing the various activities such as Review of the meeting previously held on 18/01/2021, E-Magazine, Updating of Faculty personal file, Lab maintenance report for the month of Jan 2021, Activities as per MOU, AQIS proposal, Updating of Quality objectives, Updating of Activity status report, Admission related activities, Placement oriented programme, New MOU, Consultancy, Internship, ED Cell, Alumni Cell, AU Affiliation related activities, Faculty requirements and Academic activities.

Department meeting was held on 30.01.2021 with all the faculty members through online mode.

AGENDA:

1. Admission
2. Faculty Recruitment
3. Placement
4. Self- Referral
5. Faculty Contribution
6. Project for School Students



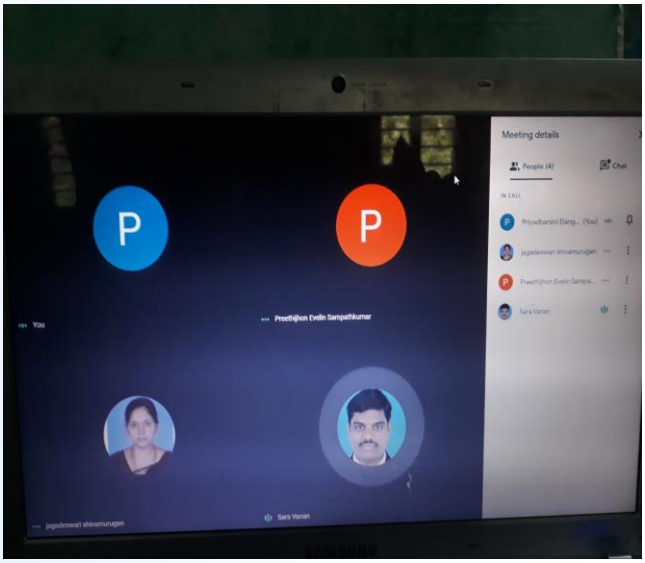
Department of Information Technology conducted a faculty meeting on 25.01.2021. The agenda of the meeting was as follows:

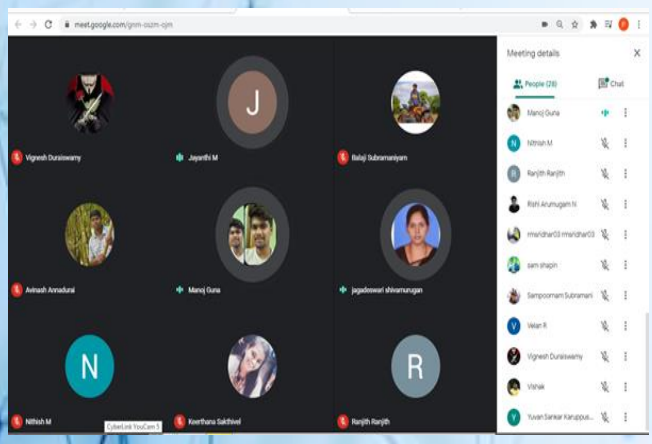
- Conduct University exam
- Mock Test
- Students Fee Payments

Department faculty Meeting was held on 24.01.2021 in Google meet at 2.30 p.m

The following points were discussed

- A discussion was made with class advisor and subject handling faculties regarding
  - Payment of student fees dues.
  - Students online class attendance and also discussed with actions will take to regular absentees
  - Syllabus completion
- A discussion was made with faculties for Anna university online examinations like,
  - students mail id and phonenumber updation in annauniversity webportal.
  - Revision timetable
  - Materials preparation





Department faculty and students Meeting was held on 28.01.2021 in Google meet at 4.30 a.m. The following points were discussed

A discussion was made with students regarding upcoming university online examination preparation like : Revision ,materials collection and etc..,mail id and phone number updation in annauniversity webportal, AnnaUniversity mail confirmation, Mock test details, A discussion was made with students regarding university online examinations quarries and doubts.

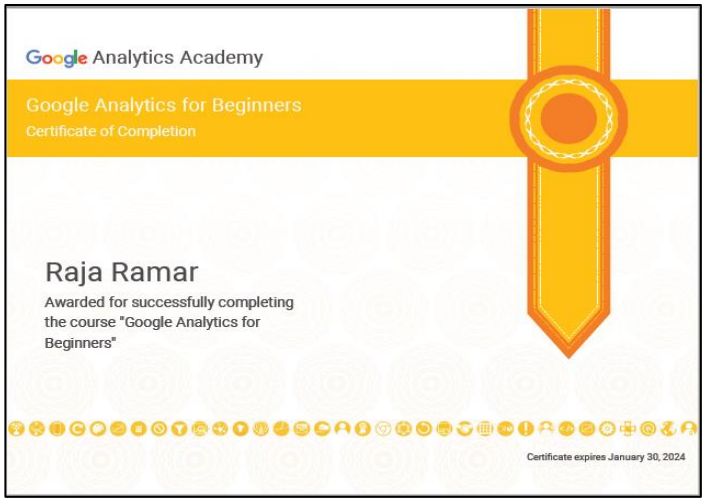
The Department of Information Technology conducted an exam cell meeting to give a clarity on the conduct of University exam – ONLINE.

Class Advisor Meeting was conducted by the Department of Computer Science and Engineering on 28.01.2021 for the discussing about Mock Test & University Exam Rules. The advisors were instructed to convey the same to the students. Head of the Department, Class Advisors and Department Exam Coordinator were a part of this meeting.

Class Advisor Meeting was conducted by the Department of Electronics and Communication Engineering on 30.01.2021 for the discussing about Mock Test & University Exam Rules. The advisors were instructed to convey the same to the students. Head of the Department, Class Advisors and Department Exam Coordinator were a part of this meeting.

Final year project, first review was conducted for the final year CSE A & B section students on 29.01.2021 in presence of Head of the Department, final year project coordinator, and the department faculty members. This review was conducted to assess the percentage of project modules completion.

Faculty Certifications



Mr.R.Raja, Assistant Professor, Department of Computer Science and Engineering successfully completed an online course on **"Google Analytics for Beginners"**, provided by Google Analytics Academy on 30.01.2021 and also he successfully completed an online course module on **"Successful Research Grant Application – getting it right"**, provided by Google Analytics Academy on 30.01.2021.

Ms.Poongothai K, Assistant Professor, Department of Computer Science and Engineering successfully completed n online course module on **"How to prepare a proposal for a review article"**, provided by Elsevier Researcher Academy on 30.01.2021.

Mr.Suresh Kumar C successfully completed the AICTE – ISTE approved orientation programme on "Data Analysis using Deep Learning" held from 16.11.2020 to 21.11.2020 organized by National Engineering college,K.R.Nagar, Kovilpatti, Tamilnadu.

Faculty Participation

Dr.P Vignesh Kumar, Head of the Department of Science and Humanities of KGiSL Institute of Technology participated in **DST-PURSE Phase II** sponsored, a four day webinar on **"Recent Trends in Chemistry(RTC-2021)"** organized by The Department of Chemistry, Bharathiar University,Coimbatore from 04.01.2021 to 07.01.2021. He also participated in Two-Day State Level Faculty Development Program on "**ARE YOU PREPARED & NEW APPROACHES TO TEACHING & LEARNING"** organized by Faculty Development Cell with Internal Quality Assurance Cell, Mangayarkarasi College of Arts & Science for Women on 27.01.2021and 28.02.2021.

Prof. C. Narayanaswamy, Head of the Mechanical Engineering Department participated in the **IEI Technical Webinar** on the theme **"E-bike Design, Retrofitting and EV Charging"** organized by **Kattankulathur Local Centre of the Institution of Engineers (India)** under the aegis of Electrical Engineering Division on 12.01.2021. He also attended a **Webinar** on the theme **"SDG-13: Climate Action"** organized by **National Skill Development Forum, Shimla** on 28.01.2021.

Mr. T. A. Arun, faculty of Mechanical Engineering Department participated in a **Webinar** on **"Applications of Environmental Isotopes"** organized by the **Department of Chemistry, Arasu Engineering College, Kumbakonam** on 29.01.2021.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ARASU ENGINEERING COLLEGE

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Chennai Main Road, Kumbakonam - 612 501, Tamil Nadu, India.

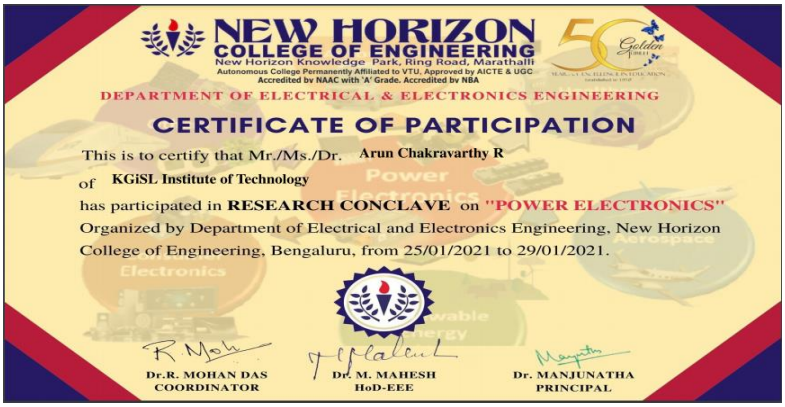
CERTIFICATE OF PARTICIPATION

This is to certify that Kaleeswaran J has actively participated in the Webinar on **"Applications of Environmental Isotopes"** organised by the Department of Chemistry, Arasu Engineering College, Kumbakonam on 29.01.2021 through online pedagogy.

Dr. T. Balamurugan,
PRINCIPAL

Made for free with Certify'em

Mr. J. Kaleeswaran, faculty of Mechanical Engineering Department participated in a **Webinar** on **"Applications of Environmental Isotopes"** organized by the **Department of Chemistry, Arasu Engineering College, Kumbakonam** on 29.01.2021.


NEW HORIZON COLLEGE OF ENGINEERING

New Horizon Knowledge Park, Ring Road, Marathalli
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade. Accredited by NBA

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

CERTIFICATE OF PARTICIPATION

This is to certify that Mr./Ms./Dr. **Arun Chakravarthy R**
of **KGiSL Institute of Technology**
has participated in **RESEARCH CONCLAVE** on **"POWER ELECTRONICS"**
Organized by Department of Electrical and Electronics Engineering, New Horizon College of Engineering, Bengaluru, from 25/01/2021 to 29/01/2021.

Dr.R. MOHAN DAS
COORDINATOR

Dr. M. MAHESH
HoD-EEE

Dr. MANJUNATHA
PRINCIPAL

Dr.Arun Chakravarthy participated in a five day **FDP in Research conclave on "Power Electronics" organized by the Department of Electrical and Electronics Engineering, New Horizon College of Engineering, Bengaluru,** held from 25.01.2021 to 29.01.2020.


No:ATAL/2021/1610719089

ATAL

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION
Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070

AICTE Training And Learning (ATAL) Academy

Certificate

This is certified that SHIRLEY JOSEPHINE MARY R, Assistant Professor of KGiSL INSTITUTE OF TECHNOLOGY participated & completed successfully AICTE Training And Learning (ATAL) Academy Online FDP on "Computer Science & Biology" from 2021-1-18 to 2021-1-22 at MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR.

Director ATAL Academies

Coordinator

Ms.Shirley Josephine Mary R participated in a one week AICTE ATAL sponsered online FDP in Computer Science and Biology from 18.01.2021 to 22.01.2021 organized by the Malaviya National Institute of Technology, Jaipur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(an Autonomous Institution, Affiliated to Anna University, Chennai)
Coimbatore – 641 032

DEPARTMENT OF MECHATRONICS ENGINEERING

Certificate

This is to certify that

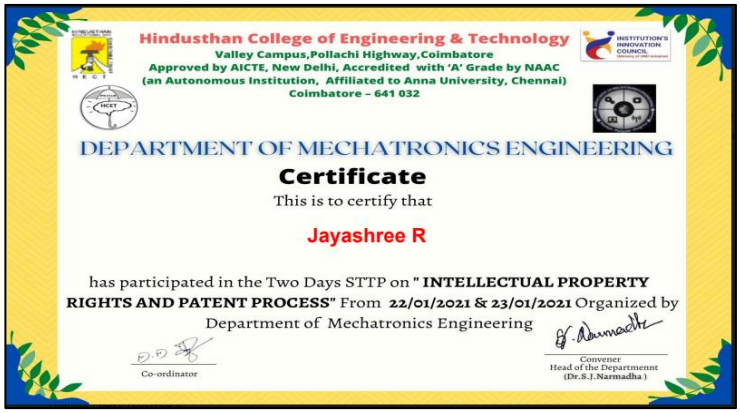
SUGANTHI A

has participated in the Two Days STTP on **" INTELLECTUAL PROPERTY RIGHTS AND PATENT PROCESS"** From **22/01/2021 & 23/01/2021** Organized by Department of Mechatronics Engineering

Co-ordinator

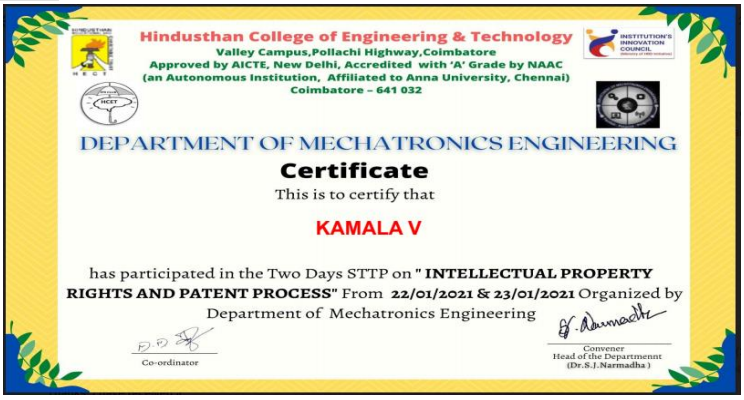
Convener
Head of the Departmennt
(Dr.S.J.Narmadha)

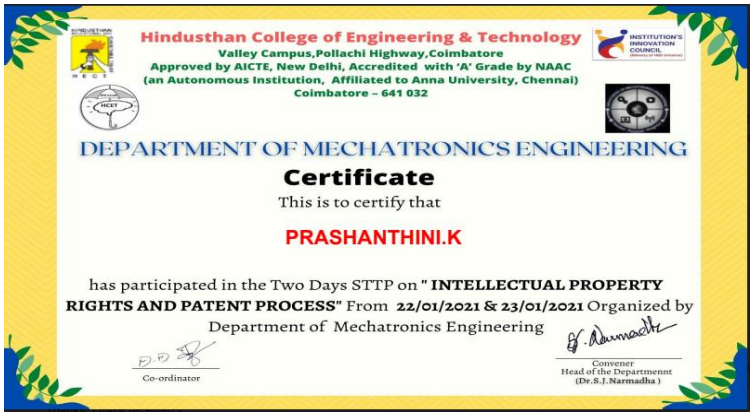
Ms.A.Suganthi, Assistant Professor, Department of Computer Science and Engineering participated in a two day Short Term Training Programme on **"Intellectual Property Rights and Patent Process"** organized by Hindusthan College of Engineering and Technology from 22.01.2021 to 23.01.2021



Ms.R.Jayashree, Assistant Professor, Department of Computer Science and Engineering participated in a two day Short Term Training Programme on **"Intellectual Property Rights and Patent Process"** organized by Hindusthan College of Engineering and Technology from 22.01.2021 to 23.01.2021

Ms.V.Kamala,Assistant Professor, Department of Computer Science and Engineering participated in a two day Short Term Training Programme on **"Intellectual Property Rights and Patent Process"** organized by Hindusthan College of Engineering and Technology from 22.01.2021 to 23.01.2021





Ms.K.Prashanthini, Assistant Professor, Department of Computer Science and Engineering participated in a two day Short Term Training Programme on **"Intellectual Property Rights and Patent Process"** organized by Hindusthan College of Engineering and Technology from 22.01.2021 to 23.01.2021

Ms.T.N.Aruna, Assistant Professor, Department of Computer Science and Engineering participated in a two day Short Term Training Programme on **"Intellectual Property Rights and Patent Process"** organized by Hindusthan College of Engineering and Technology from 22.01.2021 to 23.01.2021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Coimbatore – 641 032

DEPARTMENT OF MECHATRONICS ENGINEERING

Certificate

This is to certify that

M.SHANTHINI

has participated in the Two Days STTP on " INTELLECTUAL PROPERTY RIGHTS AND PATENT PROCESS" From 22/01/2021 & 23/01/2021 Organized by Department of Mechatronics Engineering

Co-ordinator

Convener
Head of the Departmennt
(Dr.S.J.Narmadha)

Ms.M.Shanthini, Assistant Professor, Department of Computer Science and Engineering participated in a two day Short Term Training Programme on **"Intellectual Property Rights and Patent Process"** organized by Hindusthan College of Engineering and Technology from 22.01.2021 to 23.01.2021

Info Corner

Dr.RajkumarP, Professor, Department of Computer Science and Engineering hasshared few points on the Technical topic "**BLE technology and beacons**".

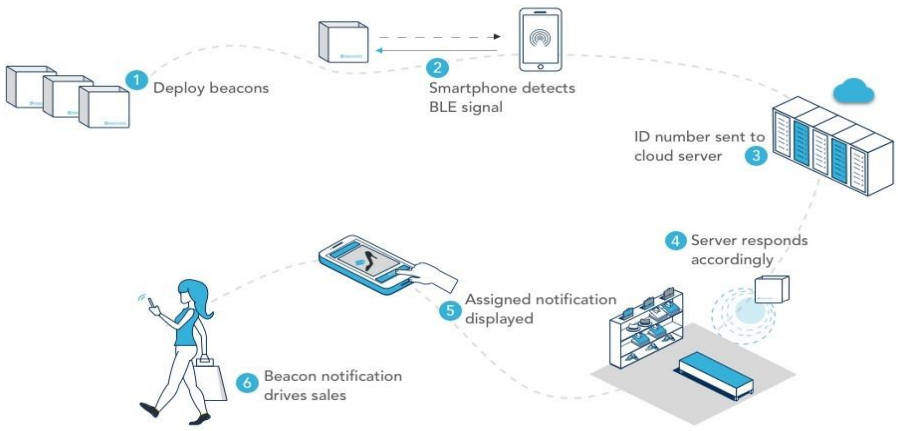
BLE technology and beacons

What is a Bluetooth Low Energy (BLE) beacon?

BLE beacons, as the name suggests are beacons that communicate via Bluetooth Low Energy. Beacon devices are small radio transmitters, strategically mounted throughout locations, to broadcast low energy Bluetooth signals in a given range. This range depends on hardware capability. On average, a beacon device can transmit BLE signals to 80 meters. This BLE signal from the beacon is capable of triggering a specific action relevant to the location.

How is BLE technology used with beacons?

Beacons send out an ID number via BLE channels, approximately 10 times every second. A Bluetooth-enabled device in proximity of the beacon picks up this ID number. When an app or pre-installed service like Google Nearby recognizes the ID number, it links it to an action, such as downloading an app, or piece of content (maybe a marketing offer) stored on the cloud, and displays it on the smartphone.



Bluetooth low energy use cases

1. Proximity marketing

Shoppers hate promotional messages which are out-of-context. Therefore, businesses have to get smarter with their marketing campaigns. These campaigns have to be extremely personalized and relevant. This not just boosts the sales but also increase brand loyalty. Companies like Macy's, McDonald's, Walmart and Lord and Taylor are making their campaigns extremely relevant, thus useful, for their visitors. (Learn more about proximity marketing using BLE beacons)

2. Hyper local check-in

BLE driven check-ins unlike Facebook or Foursquare, are highly targeted and enable visitors to point out accurately where they are in the facility. This feature could be used in conjunction with specific location-based promotions or reward-based games, like a scavenger hunt.

3. Retargeting Ads

BLE beacon solutions, like Beaconstac, empower businesses to reach out to visitors even after they check out of the store/property. Once a visitor engages with any in-store campaign, they are exposed to the same brand when they go online – Facebook or Google. (How to set up a Facebook retargeting ads using BLE beacon)

4. Asset tracking

This is another popular Bluetooth LE beacon use case. Instead of broadcasting IDs to mobile devices, the BLE beacon "listens" for the unique IDs of BLE tags attached to objects. Because these tags can be equipped with sensors—for things such as light, sound, movement and temperature—the applications are many, from the tracking of wheelchairs and infusion pumps in hospitals to monitor the movement, speed and vibration of an airport baggage conveyor.

5. Indoor navigation

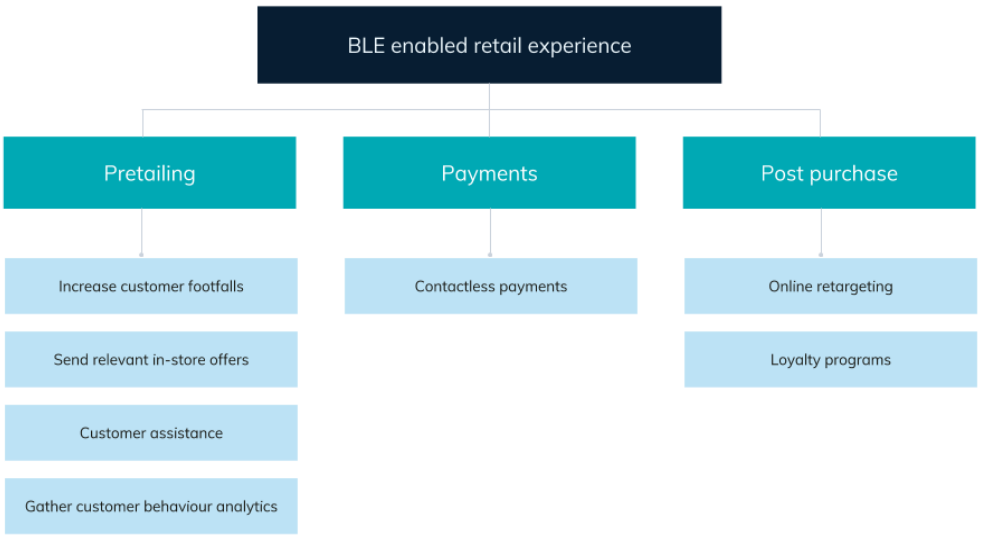
GPS works great for outdoors – but we have all seen GPS solutions go crazy indoors. BLE infrastructure works great indoors and outdoors! A combination of three indoor beacons is sufficient to find the accurate position of a smartphone. Indoor navigation using beacon technology offers turn-by-turn directions, marks the important venues and indicates the recommended route. This is especially helpful for multi-story stores, shopping malls and museums.

Virtual BLE negates the need to have a physical beacon in this particular use case. By latching onto existing Wi-Fi networks, beacon points are able to create a range that resembles a beam of a flashlight. More energy is pushed in front of the beacon antenna compared to the sides. This energy forms a power distribution resembling an ellipse.

The location of a user is determined by assigning a probability weight to each point in the map. After calculating the expected signal strength and the measured signal strength, the location of the device (user) is determined with great accuracy.

BLE beacon implementation across verticals

BLE entered the market when Microsoft announced its experimentation with BLE and facial recognition. These efforts were in the context of minimal-effort mPayments. Followed by Microsoft, many other proponents touted BLE as a viable replacement to NFC. BLE beacons, however, made some incredible progress in other applications as well – attracting visitors and enhancing the customer experience across verticals. Let's take a look at some of these BLE beacon use cases.



BLE enabled retail experience

The primary focus of retailers has always been to attract more shoppers to their venues/stores. However, in the last few years, physical stores have evolved to bring forth much more for its visitors. The needle has significantly moved towards simplifying the payment process and offering engaging and immersive shopping experience.

The entire retail experience is transformed using BLE

Pretailing: BLE beacons present strong business propositions (offers/listings) at the right time and right place to engage with the customers. Pretailing includes attracting more shoppers through location-based push marketing, relevant in-store offers to drive purchase decisions, shopper assistance and working on customer analytics to make better business decisions.

Payments: Even though beacons have witnessed tremendous growth in advertisement and customer engagement space, its applications in contactless payment are powerful. Retailers need low powered Bluetooth enabled POS machines to drive contactless payments.

Post-purchase: After the first transaction is made, the core focus of a retailer is to get the consumer back. From broadcasting loyalty offers, to retargeting consumers when they go online, beacons can be of great help!

BLE beacons in real estate

Real estate is one of those verticals where businesses have recently picked great interest in using BLE beacon technology to boost their customers' experience. Realtors are leveraging beacons for spreading awareness about open house events, capturing leads by broadcasting information about available properties, and most importantly distributing digital business cards.

For attracting buyers,

1. Mounting beacons on sale signs and lawn signs to give detailed information of the property
2. Broadcasting a list of available properties

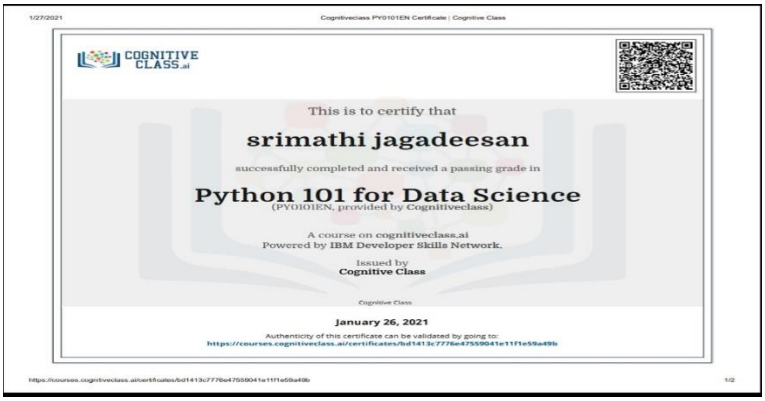
For capturing leads,

1. Sending digital business cards
2. Enabling online booking for property visits
3. Sending a property quote in return of personal details

For in-property engagement

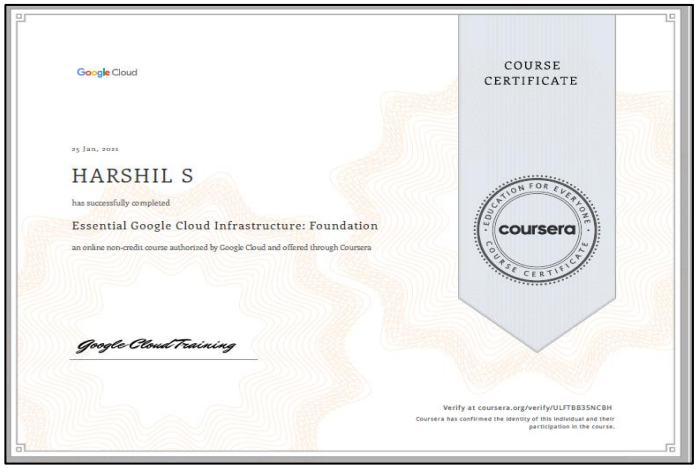
1. Virtual home tours
2. Sharing the property highlights and in-home options
3. Informing about amenities and neighbourhood

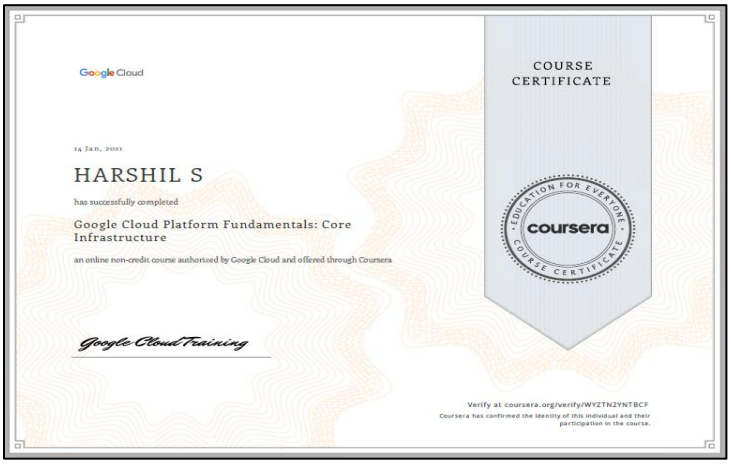
Students Corner



Ms.Srimathi Jagadeesan of III ECE completed an online course on **"Python 101 for Data Science",** conducted by **IBM on 26.01.2021.**

Mr. Dineshkumar S of I year AI & DS completed an online course on **HTML and CSS** (4 Studies and 3 Dojos) at Progate





Harshil S of II CSE B successfully completed **two online courses on "Essential Google Cloud Infrastructure: Foundation" and "Google Cloud Platform Fundamentals: Core Infrastructure"** authorized by **Google Cloud** and offered through **Coursera.**

Suveksha A of II CSE B has successfully completed course on **"Steps into Robotic Process Automation"** during GUVI's RPA SKILL-A-THON 2020 also she successfully completed course on **"C Programming"** provided by GUVI.

Suveksha A of II CSE B has participated in Newton's coding challenge January 2021 conducted by Newton School.

Patricia A of II CSE B has successfully completed "**C Programming**" provided by GUVI.

Solomon Raj A of IV CSE B has successfully completed "**AWS Cloud Practitioner Essentials**" provided by AWS.

Water Color Painting by **Sneha C I** of II CSE B

Drawing by **Suveksha A** of II CSE B