



FREQUENCY CLUB

Who are we?

-We are the “To Be Engineers” who are enthusiastic about creating real world projects according to industry and societal requirements. We bridge problems with the basic technologies available to make our life easier.

Mission and Vision:

- We aim at contributing to our society by working on the new age technology in both software and hardware domains mainly focusing on Artificial Intelligence, Machine Learning and its advances.
- Prepare to act as a reinforcement to various technical associations of the college in the field of Artificial Intelligence.
- Conducting workshops in the same field of focus.
- Representing the college at inter-collegiate events.
- Fulfil the college's objective of bringing innovation to the fore and expanding our skill sets as engineers.

Perspective:

-We have been a platform for providing insight into the world of Artificial Intelligence and Machine Learning and encouraging students to pursue their interests in it. We being a socially responsible club have conducted various workshops in Bangalore to develop interests among students in the field of AI and ML. We have also conducted many classes during summer for the students of our college about basics of Arduino and Internet of Things. We have also done many minor projects during summer which are very innovative.



Objectives:

-Our project aims to contribute to society through quality engineering and to empower the Indian masses with sustainable mobility solutions and green mobility technology



Timeline and Achievements:

1) Year 2015-16:

- Club Foundation
- The Tech Quiz: More than 400+ students participated in the inaugural quiz.
- Tech Talk: Application development using cloud computing by Prabha Subramani
- PCB Design Workshop: In association with Team JATAYU
- IOT Workshop: In association with IEEE PES society
- Aero Modelling Workshop: In association with Team JATAYU



IOT Workshop conducted in association with IEEE PES

2) Year 2017:

- Partnered with ETA pro Technologies and Lions Circuit
- FIRST PROJECT: Initiative to set-up "AUTOMATED HYDROPONIC FODDER UNITS" at 26 locations across Karnataka.



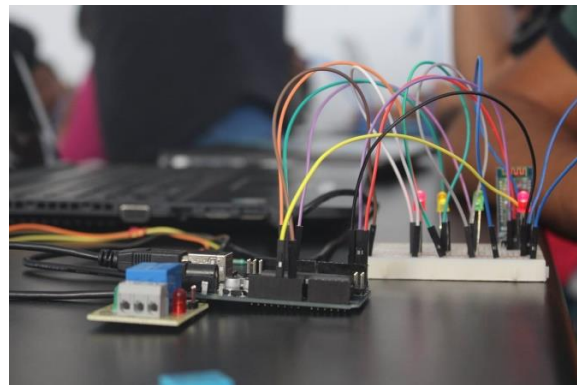
3) Year 2018:

- Machine Learning Workshop by Mr. Srikanth KS
- IGVC – Ongoing: Intelligent ground vehicle competition organized by Oakland University, USA
- Introduction to micro-controllers and session on Python Basics was organized for the juniors.
- E-Yantra and Techathlon: Students from the club participated and even qualified for final rounds
- Cisco-Hackathon: Two Teams from the club participated and competed against 300+ teams. One of the teams won consolation prize.
- Code Fundo++: One of the members from the club emerged as Runner-up
- Pixealton: Organized by IIT Kharagpur, we participated and solved their task which was to develop a maze solving BOT using wireless communication and image processing.

4) Year 2019:

- SMART INDIA HACKATHON: Many teams had participated in SIH India's one of the biggest hackathons. One of the team was shortlisted for the final round.
- I HACK: Five teams from Frequency Club, RVCE, were shortlisted for round 1 of IHACK (three-month long hackathon organised by International Society of Automation, VIT Vellore) held at VIT University, Vellore
- APP & WEB DEV WORKSHOP: Week long sessions on app dev and web dev were held, followed by an app dev competition called APPATHON
- WORKSPACE AUTOMATION: Transitioned the frequency club workspace into a smart workspace by connecting lights, fans inside the workspace to the internet. using smartphones, club members can control lights, fans through internet access
- OUR OWN APP!: Developed a stable release of frequency club smartphone application through which club members can get club updates, project status, register for workshops and get iot access to the frequency club workspace

- SMART WATCH: Developed a smart wearable wrist gear that is capable of geo positioning, health monitoring via pulse rate analysis and distance measurement using pedometer technology
- OPEN SESSIONS: Workshops on hardware and software domains were held, the sessions were open for all interested students
- HARDWARE SESSIONS: Workshop on basics of iot, interfacing and communication protocols.
- TOYOTA HACKATHON 2019: Mentoring the participants of the hackathon in technical domains like iot, deep learning and image processing.



Open sessions where hardware and software domain workshops were conducted for all interested students



Exhibiting club's works and achievements



5) Year 2020:

- MINI PROJECTS: Workshops to build mini projects and hobby projects using Bluetooth and Wi-Fi modules, different motion detectors etc.
- INFI-ZEAL WORKSHOP: Conducted dual-day workshops on ‘super 6 robotics’, ‘Fitbit/cardio fitness band’, ‘3d augmented reality’ for all interested students.
- CODE FOR GOOD EVENT: Many teams had participated in the hackathon conducted by JP Morgan chase & co. and one of them bagged the prize.
- SOFTWARE SESSIONS: Software sessions were held on fundamentals of python, machine learning, deep learning and image processing.
- RESONANCE HACKATHON: To provide a platform to build projects solving societal concerns for the members of the club.

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