



2021 - 2023

President: Shreeshail Arolkar

Secretary: Aldrige Luis

Treasurer: Joevita Lourenco

"FSAI Student Chapter" Column featuring Goa Engineering College (GEC)

National Fire service day Observance Speical coverage of an event held on 20th April

The proceedings began with an opening session chaired by Shri. Nilesh Cabral, Hon. Minister for Public Works, Legislative Affairs, Environment, Law and Judiciary, Govt of Goa as Chief guest. He delivered a befitting inaugural address.

Shri.Sanjeev Singhal, Executive director of the Institute of Petroleum Safety, Health and Environment Management (IPSHEM), ONGC graced the function as Guest of honor and spoke on the occasion.

Besides a galaxy of other dignitaries inspired the program by their presence and illuminating talks.They included:

- Mrs. Deepali Naik, Director, Women and Child development, Goa
- Dr. Jennifer Lewis, President, FSAI Goa chapter.
- Dr. Rajesh Lohani & Dr. Ganesh Hegde, College Principal and Faculty advisor to the FSAI student chapter respectively.
- Mr. Shrees hail Arolkar, incoming President of Student Chapter.

In addition, the elite group also included

- Mr. Mahesh Bakal, Head of Aqua Division, EP Kamat Group
- Mr. Shawn D' Sousa Joint Secretary, FSAI Goa Chapter
- M/S.Sanjay Kumar and Alok Kumar, training faculties from IPSHEM (ONGC) Goa.

M/S. S. Sushil Moraskar, Station Officer and Rajesh Talwar - Sub Officer representing the Directorate of Fire & Emergency services, Goa

- All the Incoming and outgoing Office bearers of the Student chapter at GEC

The first agenda was the National Fire service day (14th April) observance which was spread over a week. This was followed by the Installation ceremony of Newly reconstituted Office bearers of Student chapter to be complemented through a Fire safety sensitization and hands on trainig.



Inaugural Function - Seated on the dais (from left to right) Mrs. Deepali Naik, Dr. Rajesh Lohani, Mr. Nilesh Cabral, Mr. Sanjeev Singhal, Dr. Jennifer Lewis and Mr. Shrees hail Arolkar



Mr. Nilesh Cabral delivering the inaugural speech

Mr. Nilesh Cabral spoke about the need for staying sensitive, alert and active by all members of the society at large and contributing their best in the field of Fire safety – prevention, control, protection and mitigation. He and the Govt. machinery shall always be ready to help students of GEC in whatever means possible and also assured about improving the infrastructure and Public utility facilities all around the campus.



Mr. Sanjeev Singhal addressed the gathering highlighting the importance of Fire, Safety and Security of infrastructure



Mrs. Deepali Naik speaking at the gathering; wherein she narrated a highly emotional case study drawn from the sharp presence of mind and quick action by an emulative girl child who prevented a catastrophic fire incident!



Dr. Rajesh Lobani sharing his views and advises on how the FSAI Student chapter can also serve as a winged arm in empowering the student community and society at large.



Dr. Ganesh Hegde sharing few interesting data about the evolution of student chapter and its successful journey progression till date



Dr. Jennifer Lewis gave an enlightening talk followed by the administering the oath of office to the newly elected office bearers of Student chapter



A view of the oath taking ceremony by the president elect and all other office bearers



Members of the newly installed council: M/S.

- Shreeshail Arolkar, President
- Shri Krishna Pillai, Vice President
- Aldrige Luis, Secretary.
- Ms. Sinthiya Lobo, Joint Secretary
- Ms. Joevita Lourenco, Treasurer.
- Avnish Cabral, Joint Treasurer.

The Central Working Committee (CWC):

- Vasudev Vaze,

- Mayur Mandrekar,
- Ms. Sneha Kudchadkar,
- Yashil Vasta,
- Dakshat Patil,
- Nikhil Kocharekar,
- Valois Fernandes,
- Saideep Dessai and
- Ashvek Sawat.



Mr. Shrees hail presenting the Chapter Report which included activities, events, workshops, training programs, Industry - Student Meet and much more on the anvil for the benefit of all members

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- Saideep Dessai and
- Ashvek Sawat.

Following officials were specially felicitated by the Chief guest:

*Mr. Tanmay Kholkar of Manas Developer along with M/S. Manoj Dhukle, and Mandar Khandeparkar dealing with own Construction firms as well Alumni of GEC and Mr. Anil, Savoikar for facilitating the execution of civil works pertaining to FSAI Skill Development Centre Lab at the college.

**M/S. Sunay Dharwadkar (President), Vardhan Kamat (Secretary) and Suhail Khan (Treasurer) of 2018-'19 spell as well as M/S. Aditya Kamat (President) and Viddesh Padiyar (Treasurer) of the 2020- '21 spell of earlier Office bearer's terms for their exceptional efforts in bringing up the student chapter over the years.



View of a large group of participants keenly watching the proceeding

Training segment



Mr. Alok Kumar, Manager of IPSHEM, Goa led the activity from the front through a sensitizing pep talk, presentation and sharing of a number of experiences including case studies. This was followed up through 'live' exercises on the application of proper techniques, how to choose right type of extinguishers and carrying out their effective operation. Special emphasis was given on handling of highly vulnerable oil and gas related serious fire incidents. Tips were also given about the risks when the responders have to face serious hazards while standing and moving around the affected locations. Accordingly, different ways and means were also explained with reg. to own safeguards while managing the tough and tiring tasks.

Other than the training officials, following supporting staff of the fire brigade demonstrated commendable competency, communication expertise and personal skills during the practical exercises.

- Mr. Sachin Gokarnek (Leading fireman)
- M/S. Rohit Phadte, Madhu Pednekar, Manoj Naik and Jitendra Bhandari (Firemen) and
- M/S. Gunulo Parab and Ganesh Sangodkar, (Driver cum operators).

Images of the Practical Drills





ONGC faculties flanked by Student chapter office bearers



Proud teammates of the fire brigade featured along with the student chapter group With a 'picture – perfect' backdrop of the coveted Fire Safety Education Van



Mr. Aldrige Luis proposing a hearty vote of thanks symbolizing grand conclusion of the meet



Ms. Sneha Kudchadkar and Mr. Avnish Cabral elegantly and gracefully anchoring the full proceedings.

The student chapter gratefully acknowledges the kind gesture of M/S. EP KAMAT GROUP which is headed by Mr. Rajkumar Kamat, an alumnus of Goa College of Engineering for rendering full support in the execution of the whole event.

Jai Hind; Jai Surakshit Bharat

FIRE SENSING ROBOTICS WORKSHOP BY FSAI – GEC – GOA STUDENT CHAPTER

The Fire and Security Association of India (FSAI) Student Chapter at Goa Engineering, Goa in collaboration with Acronix India organized a two-day Robotics Workshop for student fraternity between 21st and 22nd of May, 2022. Participants were drawn from different technology groups and seniority (year wise) at undergraduate level. The exercise was guided by leading Industry experts in the region like M/S. Aaditya Kamat (Ex. President of FSAI GEC student chapter), Pratik Phadte and Emmanuel Lobo, all representing Acronix India.



The main objective of the sessions was to offer an opportunity to the smart, ingenious and energetic younger brains to learn more on coding, help them to perform experiments on using electronic gadgets and get a hands-on experience in building their bots.

The field of Robotics is fast-growing in India and there is a large scope for qualified engineers with expertise to handle them. Hence, the colleges also must pitch in to bring out students who would be equipped with the desired skills, competence as well as expertise to be deployed in jobs having high-value potentials and capitalise on emerging opportunities in this unique technique - be it higher studies, academics career or industrial profession.

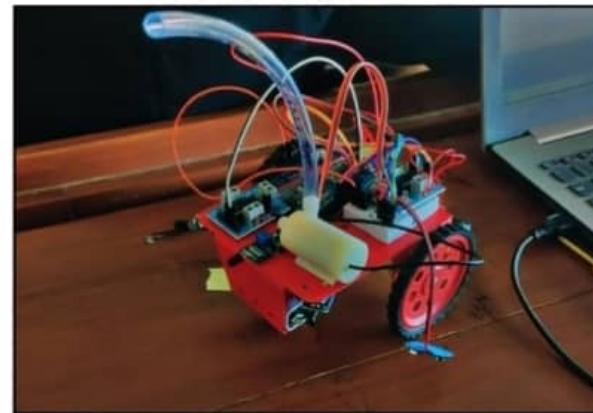
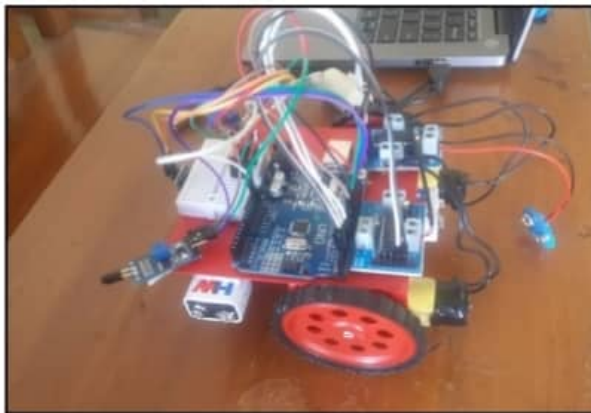


In addition to reinforcing concepts from earlier and concurrent courses, the workshop served as a platform for offering exposure to the students pertaining to cross-domain knowledge and achieving collaborative learning through team work. All these were aimed at enhancing and developing their problem-solving acumen during the learning process

On the first day, students were appraised as well as familiarized on the underlying theoretical concepts of Robotics. Training Kits were also distributed among all. The whole group were divided into ten teams of 3 students each. The workshop was conducted in such a way that the basics were made easy for everyone who attended the session. The programming of the robot was done using the Arduino (which is derived from C and C++ languages) UNO microcontroller.

An introductory talk on Arduino was given on how to make programs for the robots. Subsequently, they got tinkering effect while actually working out on Arduino and the functions of various embedded components. Later on, simple applications of Arduino like Blinking and Fading LEDs and their coding were explained. By using the physical robotics kit provided to them, the students were proactively able to learn what robots can do for them!

By the second day, the students had already learned to create a program from scratch. They were also in a vintage position to write own Arduino project report and work around more complex sensors like IR, UV and LDR and motors with ease. At the end of the workshop, the participants each of the teams jointly built their own autonomous Fire Extinguisher Robot cars (working model type) which detect the fire location through heat sensors and automatically moves towards the fire and put it out through the actuation of water pump. In fact, it also produced a 'fun fare' while testing them successfully. The engaging team also encouraged each other to build & pursue more such projects now having gained a real - life experience with Designing and Building of Robots.



The whole workshop had also been shot on video camera. Viewing this would be beneficial to those who could not participate. Besides it can again be used by same participants to bring in improvement in the study process.

The Student Chapter wishes to thank Principal Dr. R.B. Lohani and Faculty Advisor Professor Dr. Ganesh Hegde for their role in ensuring the success of the workshop.

The event was nicely coordinated by M/S. Mayur Mandrekar and Dakshat Patil under the able leadership of Mr. Shreeshail Arolkar- President, FSAi GEC student chapter. We are indebted to all participants who have actively joined the workshop and made it a grand success. In all there were 30 students.

NATIONAL & CHAPTER LEVEL ACTIVITY REPORT

Chapter level Activities (Off-line) – Program Highlights and Images galore

Special Introductory Note: Deservingly and befittingly, seamless execution of scheduled targets along with unique achievements within them are the performance indicators of any organization – smaller or larger. They could be in relation to regular activities as well as their relevance, occasions and/or specific events. In this context, FSAI at National level as well as pan India chapters are putting diligent efforts. In fact, many of the chapters have made it habitual not only to excel in routine tasks but establish new targets, raise the bars and cross them! What all we experienced this year during the first half year spell and easier to recollect bears testimony to that.

In the above context, 30th June'22 will be specially cherished as Hon. Chief Minister of Goa, Mr. Pramod Sawant inaugurated the the FSAI Skill Development Centre (FSDC) in Goa College of Engineering at the behest of its Goa Student Chapter. He specifically mentioned about the significant need of additional courses in professional institutes like GEC by way of creating more such SDC's and upgrading the ones which are already available. According to him, along with creation of graduates/ post graduates, the technological institutes must also think of exploring as well as enhancing the skill potential of country's vibrant and energetic youth segment. He specifically touched upon an MOU between National Construction Institute and his Govt. which is on the anvil. This too would be part of the skill development initiative. He assured that those possessing certification from FSDC will hold an edge for the prospective aspirants while seeking employment at Fire & Emergency service directorate of the state.

Shri. Nilesh Cabral - Hon. Minister for Legislative Affairs, Environment, Law and Judiciary, Public Works Department, Govt. of Goa who also graced the occasion kept the whole audience in apt attention through a scintillating talk. He eloquently rolled out data on how the state Govt. is committed to implement various schemes being envisaged when it comes to good planning, adequate preparatory work and timely implementation. The SDC at GEC bears testimony as to how it the scheme could be conceived, planned, worked out and executed within an year after the Hon CM made the announcement in August '21 while inaugurating the IFSY in Goa. He concluded the talk with a call for creating not only Clean and Beautiful but Safe Goa for all the citizens to feel happy about

Significant points covered by of other speakers

a) Mr. Ajit Raghavan, National president

- Expression of gratitude to the Goa CM for appreciating the efforts of FSAI and commending this new initiative of FSDC by partnering with the GEC student chapter.
- Willingness to extend whatever type of facilitation support, human resources as well as technical guidance to take the centre forward

b) Mr. Vivek Kamat, Director, Technical education, Goa

- In the long run, SDC's would become the extended arms of Engineering /Technological colleges like GEC, IIT's, NIT'S, BITS, and Diploma institutes and even ITI's.
- Few more would join the chorus along with two types of centres of excellence with fire safety and Plumbing, which have already been conceived and being executed
- They would lead to good networking between academia, industries and other commercial establishments

c) Mr. Ashok Menon currently National Secretary and former Director, Directorate of Fire services, Goa

- Briefing of FSAI Journey from its inception 20 years ago
- Concept of exclusive Student chapter opening by FSAI and its functioning around the country.
- Vision, Mission and objectives of FSAI skill development centres and what are all on the anvil at GEC,
- He also mentioned about the benefits organizations can avail by way of conducting FSAI Suraksha Index audit followed by grading and upgradation of the same over the years

d) Dr. Jennifer Lewis, President, FSAI Goa chapter

- Interactive development and cementing of relations among Education institutions, industrial establishments and end users.
- Inculcating newer concepts of teaching technical subjects and engaging the services of the teaching fraternity

and tapping their knowledge potential to maximum extent.

> Specially appreciating the contributory efforts of sponsors by way of gifting out products/ gadgets to the centre for training

> Mentioning about the contributions from different organizations in setting up the institute

e). Dr. Rajesh Lohani, Principal, GEC

> Effective briefing of the initial journey which started last year at the behest of Hon. CM's advice, meticulously carried forward and culminated in the establishment of first ever such joint skill development centre at GEC with the signing of an MOU with FSAI.

> Highlighting the manner with which Hon. CM took the risk of taking such a firm decision by citing a line from one of FSAI's promotional videos "Khatron se Ladna Hai" and motivated all others to successfully accomplish it.

> Accomplishing fast track results in getting MOU signed at the shortest possible time by fulfilling all procedures and statutes thanks to the solid support from Mr. Nilesh Cabral Hon. minister of public works dept, Goa.

f) Dr. Ganesh Hegde, Student Chair, FSAI Goa Chapter & Faculty Advisor, FSAI GEC Student Chapter proposed a hearty vote of thanks. He also took the opportunity to extend GEC's and FSAI's indebtedness to a number of dignitaries who graced the occasion by their presence and also contributed in different ways. They included educationists around the area representing leading academic institutions, Present and past office bearers of FSAI – National team, Goa chapter office bearers as well as student chapter representatives, sponsors who chipped in with financial support and free lending of some critical equipment/ instruments, which are very essential to the functioning of Labs, workshops and research centres.

The sponsors included

M/s. AAAG, Hikvision, Orient Curtains, Fire Tech, Prolite Autoglow, KV Chemicals, Vignaharta, Shrack, Heinrich and Firefly.

Thereafter the FSDC got declared open at the hands of Hon. CM. He visited all the sections of the centre along with other dignitaries.











