

Department of Computer Engineering

Academic Year 2020~2021

“Abhiyanta” Newsletter

for

ODD SEM

Volume – I



About Department:

The Computer Engineering department was established in the year 2001 for providing excellent education to all students with an aim to foster creativity in Learning, research and building a knowledge base along with imparting quality education. The department possesses well qualified and motivated faculty members and support staff. The laboratories are adequately equipped with state-of-the-art facilities. The department offers add-on courses to cope with the latest trends in technology. It organizes industry visits and many series of expert lectures for the students on the latest developing trends in Computer Industry. Students of our department have won prizes in various national and international level paper presentation competition and project exhibitions. Every year a remarkable number of students place in companies such as Infosys, TCS, Accenture, Cognizant, L&T Infotech, CSC, Tech Mahindra, Mastek, TPG Axon, Artistivity etc.

Vision:

To be an excellent centre of learning, by imparting quality teaching in the field of computer engineering and to create dynamic young engineers.

Mission:

- To prepare students to be ready for the constantly changing scenario in the field of computer engineering.

- To inculcate in the students the ability to analyse, design and develop software projects and work in a multidisciplinary environment.
- To mould students into responsible and principled citizens who will utilize their potential for the need of society and industry.

Program Educational Objectives (PEOs)

Students will possess:

- PEO-I:** To prepare the students with sound knowledge of computer engineering fundamentals to build a lifelong career in computer engineering domains.
- PEO-II :** To train the students to design and develop software projects for solving real world problems with the use of modern tools and techniques.
- PEO-III:** To inculcate professional ethics, leadership qualities and social awareness in the students.

Highlights of the Department:

- Faculties actively involved in R&D, consultancy, Projects and has collaboration with several industries and institutes
- Result of BE Sem VII-100%, TE Sem V-100% and SE Sem III-98.52%
- **Dr. Sunita Patil** appointed as reviewer of papers of the 4th Biennial International Conference on Nascent Technologies in Engineering for Fr. C. Rodrigues Institute of Technology, Vashi, Navi Mumbai, (India) in its

premises in association with IEEE & IAS on

January 15-16, 2021

- **Ms. Kavita Bathe** appointed as reviewer of papers of the 4th Biennial International Conference on Nascent Technologies in Engineering for Fr. C. Rodrigues Institute of Technology, Vashi, Navi Mumbai, (India) in its premises in association with IEEE & IAS on January 15-16, 2021.
- **Ms. Kavita Bathe**, Working on the consultancy project B2B: Funding Agency: Godavari Biorefineries Ltd, Karnataka

Remarkable Milestones:

ISRO selected KJSIERT's student satellite teams proposal for launching experimental satellite platform aboard PS4-Orbital Platform program.

'इस्रो'च्या मोहिमेअंतर्गत 'केजेएसआयईआयटी'चे विद्यार्थी बनवणार नॅनो उपग्रह

म. टा. विशेष प्रतिनिधी

श्रीच : के. जे. सोमय्या इन्स्टिट्यूट ऑफ इंजिनीअरिंग अँड टेक्नॉलॉजीच्या (केजेएसआयईआयटी) विद्यार्थ्यांनी तयार केलेला उपग्रह लवकरच अवकाशात झेपावणार आहे. 'ओपनसोर्स'चा वापर करून उपग्रह काम करू शकतो यावर या विद्यार्थ्यांनी विशेष संशोधन करून हा उपग्रह विकसित केला आहे. त्याची निवड 'इस्रो'ने अंतराळात पाठविण्यासाठी केली आहे.

विद्यार्थ्यांना अवकाश विज्ञानात आवड निर्माण व्हावी या उद्देशाने भारतीय अंतराळ संस्था 'इस्रो'ने 'विद्यार्थी उपग्रह' हा उपक्रम हाती घेतला आहे. या उपक्रमाअंतर्गत विद्यार्थ्यांनी तयार केलेले उपग्रह अवकाशात सोडले जातात, ज्याचा वापर विविध संशोधनासाठी होतो. यंदा मुंबई आयआयटी, सीओईपी-पुणेसोबतच

विद्यार्थ्यांच्या संशोधनाची अवकाशभरारी

'केजेएसआयईआयटी'च्या विद्यार्थ्यांनी तयार केलेल्या उपग्रहाची निवड करण्यात आली आहे. इस्रो'कडून पॉकेट क्युब स्टॅण्डर्ड उपग्रह तयार करण्याचे आवाहन कॉलेज विद्यार्थ्यांना करण्यात आले होते. यानुसार या संस्थेतील ज्योती गाडगीळ, मानस साबळे, निखिल शिंदे या विद्यार्थ्यांनी कॉलेजेचे प्राचार्य डॉ.

सुरेश उकरंडे आणि डॉ. उमेश शिंदे यांच्या मार्गदर्शनाखाली एका उपग्रहाची संकल्पना मांडली. त्याची अंतिम तीनमध्ये निवड झाली. आता विद्यार्थी त्यांच्या संकल्पनेनुसार प्रत्यक्ष उपग्रह तयार करणार आहेत. 'उपग्रहाच्या विविध चाचण्या पूर्ण झाल्यानंतर तो पुढील वर्षी जुलै किंवा ऑगस्टमधील

'इस्रो'च्या मोहिमेत अवकाशात झेपावू शकेल', असे प्राचार्य डॉ. उकरंडे यांनी सांगितले. हा एक नॅनो उपग्रह असून, त्याचा आकार ५ सेमी बाय १० सेमी असेल. त्याचे वजन ५०० ग्रॅमपेक्षा जास्त नसेल. विद्यार्थ्यांनी या उपग्रहाला 'बीलिफसेंट' असे नाव दिले आहे.

रेडिओ संदेशासाठी वापर, ५ सेमी बाय १० सेमी आकार

वजन ५०० ग्रॅमपेक्षा कमी, उपग्रहाचे नाव 'बीलिफसेंट'

पुढील वर्षी जुलै किंवा ऑगस्टमध्ये अंतराळात झेपावणार

रेडिओ कम्युनिटीला संदेश रेडिओ कम्युनिकेशनसाठी या उपग्रहाचा वापर केला जाणार आहे. 'अर्म्युअर रेडिओ लायसन्स' असलेल्यांना ४२ अक्षरांचा संदेश पाठवता येईल व तो दहा सेकंदांत संपूर्ण रेडिओ कम्युनिटीला पोहोचेल. त्याला कॅमेरा बसविण्यात आला असून, तो दर दहा मिनिटांनी छायाचित्र टिपेल. तेही कम्युनिटीला मिळेल. हा उपग्रह किमान तीन महिने कार्यरत राहू शकेल. यामध्ये भारतीय बनावटीचे हार्डवेअर आणि सॉफ्टवेअर वापरले आहे.

Divya Jain and Vinayak Malviya Final year Computer Engineering students (2020-21) along with team members from Information Technology department won First Prize (INR 1 Lakh) in Smart India Hackathon 2020 for Problem Statement Unified System for Agricultural Prediction using Artificial Intelligence (USAPA)

REC

@jainy/vmalviya and 42 more

SMART INDIA HACKATHON 2020

CGC Chandigarh Group of Colleges

Ankur Singh

Campus Director



Divya Jain



Valedictory Session - SIH 2020

At Nodal Centre - Chandigarh Engineering College, Landran, Mohali (PB)

- KJSIEIT REDX AI club serves as entry point to the creativity of innovators who are creating solutions to satisfy significant social needs. Club Form on 17/06/2020. Senior board members of this club are industry experts from industries like *Corporate Strategy*, *10X Growth*, *CognitoIT Consulting P. Ltd*, *Innorkit Inventions* and Senior members from academics. KJSIEIT REDX AI Club aims to provide solutions in the domains like Agriculture, Healthcare, Education and Differently abled people. Currently 8 teams are working on the projects. Club regularly organizes expert sessions by industry experts. REDX AI clubs receive \$500/year to support training events.
- Vaibhav Lakhani, Aziz Bohra and Prince Gada, had initiated a new student club "Developer Student Club (DSC)", in January 2020. This club aims to collaborate and become a chapter of Google Developer Student Club.

Student achievements:

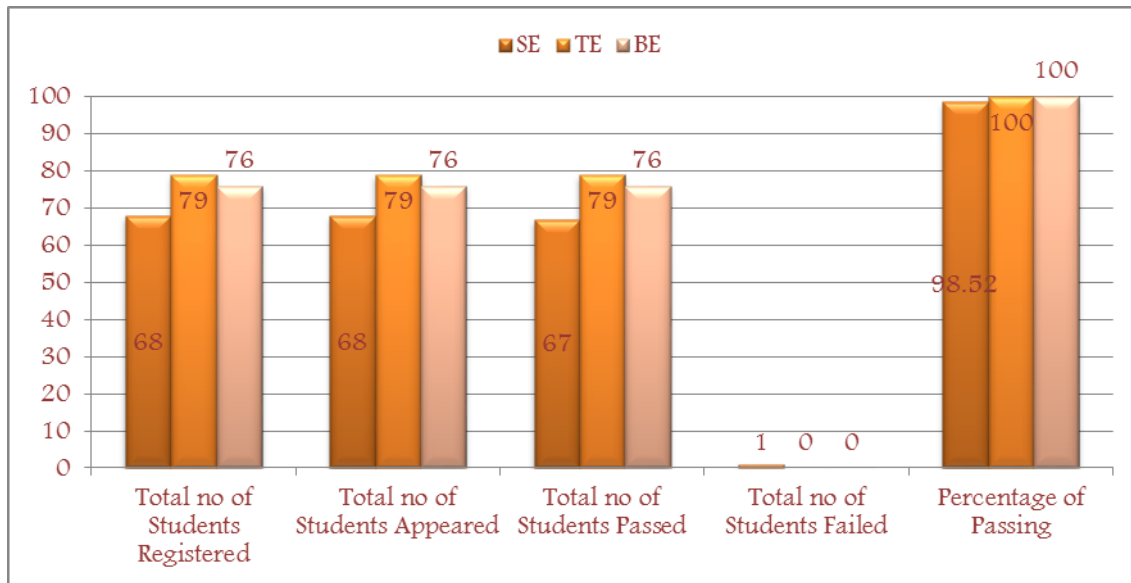
Sr. No	Name of Student	Achievements	Co-ordinated By (Venue/Association with)	Month & Year	Photo
1.	Vaibhav Lakhani	Received 3 Bounties for bugs	Bug Bounty team	10th Oct 2020	
		Recognized with Hall of Fame on Telekom DE for securing their websites with 6+ bugs categorized into 4 categories	Bug Bounty team	5th Oct 2020	
		Found a duplicate bug	Bug Bounty team	18th Oct 2020	
		Received another Bounty for a critical vulnerability in an organization	Bug Bounty team	12th December 2020	
		Acknowledged by National Critical Information Infrastructure Protection Centre an organization of Government of India for reporting around 74 vulnerabilities (and still reporting them)	Government of India	6th November 2020	
3.	Umang Somani	Selection of project idea based on "Smart helmet with 5G enabled technology" for Indian Mobile Congress (IMC)	IMC virtual 2020	November 2020	

4	Kunal Mehata	Successfully completed the Google Summer of Code(GSoC) project on “Orcasound” and received a stipend of 3000 USD for this project (June- august 2020).	Google Summer of Code(GSoC)	Sept. 2020	
5	Total nine computer dept. student's teams are selected for Mastek Deep Blue project Competition 2020-21 season-6	Student teams are selected for Mastek Deep Blue project Competition 2020-21 season-6	Mastek Ltd.	Sept 2020	
6	Rinkesh Sante	Is working with R&D team of KJSIET. He is a member of team of Students who have designed Radiosonde for Indian Meteorological Department (IMD).		Dec 2020	

Percentage of student placement in various companies:

Company Name	No. of Students Placed	CTC(In Lakhs)
Wissen	01	6.5
TCS NQT	18	3.36
Accenture	08	6.5
Reliance Jio	03	3.5
Cognizant	01	3.5
Vodafone	03	4.25
Visible Alpha	03	6.5
Total Offers		37
Total Students Placed		31

Result 2019-20 Even Sem:



Professional bodies:

Institute of Engineering and Technology (IET)



Computer Society of India (CSI)



Technical bodies:

Innovative project development by faculty and students with Major and Minor research grant through various funding agencies.



Software Development Cell
Providing Consultancy Services



Research Innovation Incubation Design Lab (RiIDL)
Center: Offering Incubation for Start-ups in Campus



Institution's Innovation Council (IIC)
under MHRD's Innovation Cell
Promoting Innovation Culture



Rethinking Engineering Design and Execution - Artificial Intelligence (REDX AI) Club: Providing a platform to work on Real-world AI/ML Projects under Guidance of Industry Experts

- Cyber Security and Research Cell
- CodeChef Chapter
- Programming Club
- Satellite Program through New Leap Initiative
- R & D Cell
- COEPS Cell



Project Developed by students and faculties:

Projects at KJSIET



Software Development Cell (SDC) launched mobile app “Kisan Khazana(Healthy Earth Healthy Farmer)” for farmers of Karnataka, India through Godavari Bio-refineries Ltd., Karnataka. Institute received **Rs. 46 lakhs towards the consultancy charges** for this project



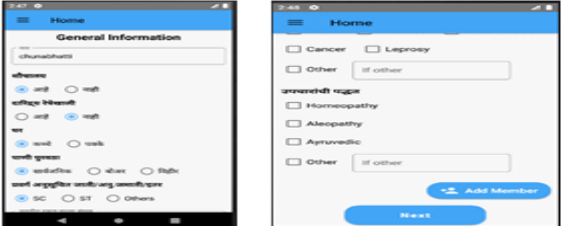
“**Help Flare app to help COVID19 Affected People**” developed by Computer Engineering Department students Idrees Dargahwala, Burhanuddin Udaipurwala, and Shivam Bhanushali under the guidance Prof. Kavita Bathe and Prof. Mrunali Desai



Dr. Sunita Patil, Vice Principal and Dr. Hariram Chavan, Professor, Department of Information Technology conducted **two weeks consultancy training program** for Rs. 2.3 Lakh for **Indian Navy Officers** at INS Valsura, Gujrat on Artificial Intelligence and Big Data analytics



Students Prince Gada & Vaibhav Lakhani under the guidance of Ms. Sarita Ambadekar developed an appointment scheduling web application for the Users of **University of Mumbai** called ‘**ALMANAC**’



Students Nayan Bhatia, Kartik Chawda, Dharmin Chothani, Harshal Patil developed **Mobile Application** for the **Asha workers** to enter the survey data directly into the centralized database.

Developer Student Club (DSC) Activities:

Timeline	Topic	Attendees
Jan - March 2020	Frontend Web Development (Hands-on)	100
March 2020	Profile Building	70
April 2020	Interviews	70
May 2020	Workshop on Flutter	20
May 2020	Workshop on PHP	16
May 2020	Workshop on SQL	16
June 2020	Workshop on UI Design	39
June - August 2020	Internship	68

Papers published by faculties and students in International Journal/Conference:

- International Conference on Advances in Science and Technology
- Web of Science
- UGC journal
- IEEE
- Springer

Project sponsored by companies: Mastek , KJSMC

PhD pursuing faculties:

- Mrs. Sarita Ambadekar
- Mrs. Shyamal Virnodkar
- Mrs. Jyoti Wadmare
- Mrs. Jignasha Dalal

Editorial Desk

We are delighted to present the edition of the Departmental newsletter, Volume I for the month of July – December 2020. We hope, this Newsletter encourage you to conquer more in your field.

Newsletter Head ~ Mrs. Nisha Vanjari

Student Co-Ordinator ~ Vaibhav Lakhani and Krisha Nagda