

Department of Computer Engineering

Academic Year 2020~2021

"Abhiyanta" Newsletter

For Semester, Volume 1

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 the finest centre of learning by imparting quality teaching in the field of computer engineering.

Mission:

- *To inculcate in student the ability to analyse, design and develop software projects.*
- *To prepare students to be ready for ever changing scenario in the field of Computer Engineering.*
- *To help the students to attain and utilize their potential for successful carrier and to the need of society and industry.*

Program Educational Objectives (PEOs):

Students will possess:

PEO 1: *Sound knowledge of mathematics, science and engineering fundamentals required for a lifelong career in computer engineering domains.*

PEO 2: *Skill to design and develop software projects for solving real world problems with the use of modern tools and techniques.*

PEO 3: *Professional ethics, leadership qualities and social awareness in the students.*

Highlights of the Department

Ms. Kavita Bathe : ● Working on the consultancy project B2B: Funding Agency: Godavari Biorefineries Ltd, Karnataka

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.

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

K.J.Somaiya Institute of Engineering and Information Technology, Sion, Mumbai-22

premises in association with IEEE & IAS on

January 15-16, 2021

: ● Result of BE Sem VII-100%, TE Sem V-100% and SE Sem III-98.52%

: ● Faculties actively involved in R&D, consultancy, Projects and has collaboration with several industries and institutes

Remarkable Milestones:

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.

ISRO selected KJSIEIT'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

शीर्षक : के. जे. सोमया 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 अवकाशमरारी

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 उकरडे 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. उकरडे यांनी सांगितले. हा एक नॅनो उपग्रह असून, त्याचा आकार ५ सेमी बाय १० सेमी असेल. त्याचे वजन ५०० ग्रॅमपेक्षा जास्त नसेल. विद्यार्थ्यांनी या उपग्रहाला 'बीलिफसॅट' असे नाव दिले आहे.

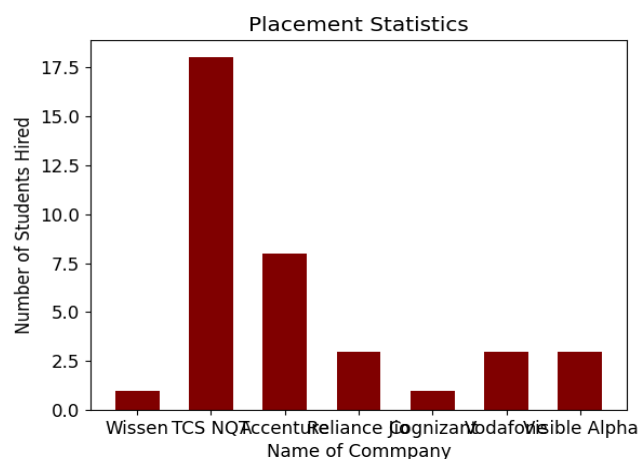
■ रेडिओ संदेशासाठी वापर; ५ सेमी बाय १० सेमी आकार
■ वजन ५०० ग्रॅमपेक्षा कमी, उपग्रहाचे नाव 'बीलिफसॅट'
■ पुढील वर्षी जुलै किंवा ऑगस्टमध्ये अंतराळात झेपावणार

रेडिओ कम्युनिटीला संदेश रेडिओ कम्युनिकेशनसाठी या उपग्रहाचा वापर केला जाणार आहे. 'अर्मेच्युअर 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)

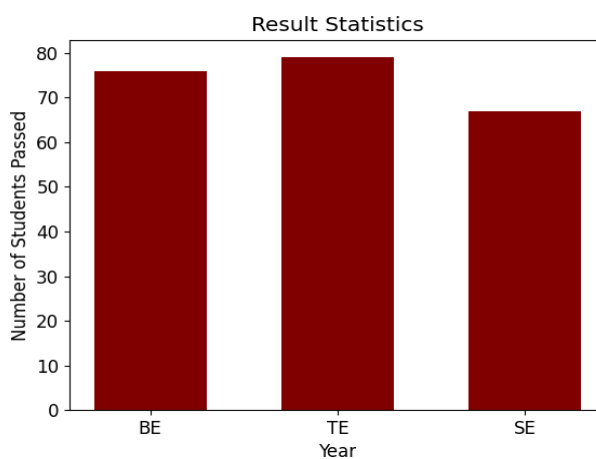


Placement Statistics



Students placed in various Companies

Result Statistics



Percentage of Students Passed

Student Achievements

Vaibhav Lakhani - Acknowledged by National Critical Information Infrastructure Protection Centre an organization of Government of India for reporting around 74 vulnerabilities (and still reporting them)

Umag Somani - Selection of project idea based on "Smart helmet with 5G enabled technology" for Indian Mobile Congress (IMC)

PhD Pursuing Faculties

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