



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

**NAAC Accredited Institute with 'A' Grade  
NBA Accredited 3 Programs**

**(Computer Engineering, Electronics & Telecommunication Engineering & Electronics Engineering)  
Permanently Affiliated to University of Mumbai, Best College Award by University of Mumbai, Urban region, A.Y 2018-19  
UGC Recognized Institute under section 2(f) and 12 (B) of the UGC Act, 1956**



**Department of Computer Engineering**

**Academic Year 2020-21**

**"Abhiyanta" Newsletter**

**For**

**Even Semester, Volume – II**



### **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):**

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

### ●Dr. Sunita Patil:

- Conducted Experts Talks on “Academic and Examination scheme for cycle 1 under KJSIEITs Autonomy”, on 14th May 2021 under Short Term Training Program for faculty and staff on “Being Autonomous Institute: Roles, Responsibilities and Action Plan” from 14th May-12th July 2021 (Saturdays only) organised by KJSIEIT, Sion, Mumbai
- Conducted Experts Talks on “AI-DS Academic and Examination scheme for cycle 1 under KJSIEITs Autonomy”, on 5th June 2021 under Short Term Training Program for faculty and staff on “ Being Autonomous Institute: Roles, Responsibilities and Action Plan” from 14th May-12th July 2021 (Saturdays only) organised by KJSIEIT, Sion, Mumbai
- Appointed as PG/PHD Expert at UoMs Pillai HOC, Rasaini Research Centre Internal/External PhD evaluator for IPS and APS (Half Yearly)
- Appointed as PG/PHD Expert at UoMs KJSCE, Vidyavihar Research Centre Internal PhD evaluator for IPS and APS(Half Yearly)
- Appointed as PG/PHD Expert at UoMs RAIT, Nerul Research Centre External PhD evaluator for IPS and APS(Half Yearly)
- Appointed as PG/PHD Expert at UoMs KJSIEIT ME-AI PG centre, Internal/External PG evaluator for IPS and APS
- District Coordinator, University of Mumbai Project Competition & Student Convention, “Avishkar- 2021 for Engineering and Technology, Online mode.
- Appointed as Member, BoS in Computer Engineering, Syllabus preparations for New courses under University of Mumbai by AICTEs 9 emerging Areas of Technology, Honors and Minor programs for “AI-ML Group”, Rev 2019, C scheme, Sem I to VIII, 2020-2021
- Appointed as Coordinator UoMs Special Backlog, KT, Regular Examination Nov, Dec 2020, Jan 2021, June 2021 Computer Engineering Semester III invite Judge
- Invited Judge for University of Mumbai Project Competition & Student Convention, “Avishkar- 2021 at UG/PG/PPT Engineering and Technology, Online mode.

### ● Dr. Sarita Ambadekar:

- conducted a session on “Implementation of Computer Engg. Curriculum under KJSIEITs Autonomy”, on 29th May, in the STTP “Being an Autonomous Institute: Roles, Responsibilities & Action Plan” from 14th May- 12th July 2021 (Saturdays only) organised by KJSIEIT, Sion, Mumbai
- appreciation as a reviewer of papers in the track “Signal and Image Processing” in international conference on Communication, Information and Computing Technology ICCICT 2021 by SPIT, Mumbai (25- 27 June 2021)
- appreciation as a Track Co-ordinator for the 4th International Conference on "Advances in Science & Technology (ICAST-2021)” organized by K J. Somaiya Institute of Engineering and Information Technology, Sion.

### ● Ms. Mrunali Desai:

- Working on the consultancy project B2B: Funding Agency: Godavari Biorefineries Ltd, Karnataka.
- Technical Program Committee -Reviewer ICCICT-2021 at Sardar Patel Institute of Technology, Mumbai (25-27 June ,2021)

### ● Ms. Chitra Bhole:

- has contributed as a reviewer of papers in the track Signal and Image Processing for ICCICT 2021 at Sardar Patel Institute of Technology, Mumbai (25-27 June ,2021)
- Co-ordinator for one month Internship Program on “Web Development, Python and ML, Cloud Computing” at KJSIEIT online mode, on 13thth June to 12th July 2021.
- worked as a reviewer for MAT Journal (A.Y 2020-21).

● **Ms. Jyoti Wadmare:** research proposal title “A Vision Based Approach for Solid Waste Material Detection using Deep Learning Techniques” is selected at Avishkar Research Convention final round 2021, on 12th June, 2021

● **Ms. Kavita Bathe:**

- working on the consultancy project B2B: Funding Agency: Godavari Biorefineries Ltd, Karnataka.
- working on the consultancy project Examination Software for K J Somaiya College of Science and Commerce, Vidyavihar
- working as an advisor for REDX-AI Club and working on the project FarmaBot through REDX.

● **Ms. Jignasha Dalal :** Co-ordinator for a webinar on “Gate preparation tips” organized by the Training and Placement Committee

● **Ms. Nisha Vanjari :** judge for a Technical Paper Presentation as a Technical Festival “Renaissance 2020-21” at K J Somaiya Institute of Engineering and Information Technology, Sion.

● **Ms. Pradnya Patil :** worked on the project “AI based stick for blind people” under Redx club.

● **Ms. Mamta Borle :** worked on the project “AI based stick for blind people” under Redx club.

### Remarkable Milestones:

ISRO selected KJSIET'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

शीघ्र : के. जे. सोमय्या इन्स्टिट्यूट ऑफ इंजिनीअरिंग अँड इन्फोर्मेशन 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 अंतराळत 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 पोकेट 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 अंतराळत झेपावणार

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

### Activities Conducted for Students

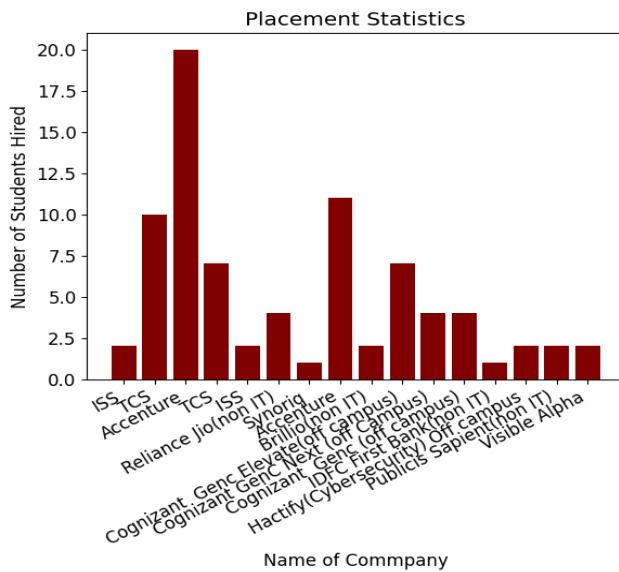
● Dr. Sarita Ambadekar – Convener, Ms. Jyoti Wadmare-Co-ordinator, organized workshop on “UI/UX design tools” on 07th May 2021 and expert for the workshop was Ms. Shradha Upadhyay Everestek Technology Solutions Pvt. Ltd.

● Dr. Sarita Ambadekar –Convener, Ms. Nisha Vanjari, Ms. Shubhada Labde - Co-ordinators, organized Special Session on “Building curriculum vitae for successful career” on 06th August 2021 and expert for session was Mr. Surajit Karmakar Engineer III, Samsung Electronics.

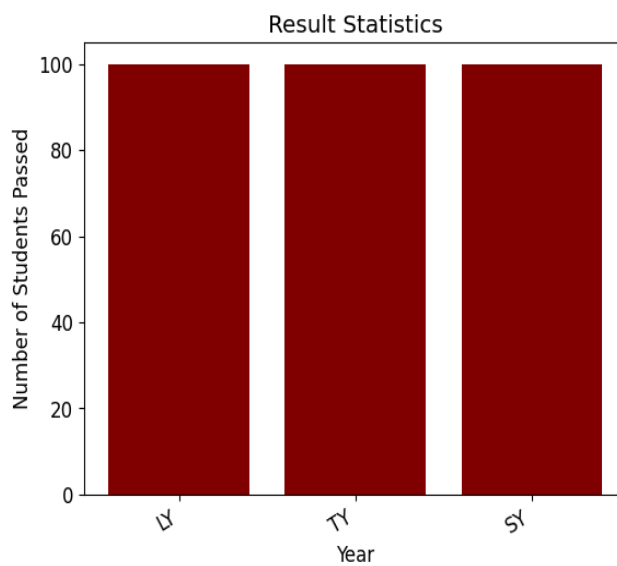
● Dr. Sarita Ambadekar – Convener, Ms. Chitra Bhole, Ms. Nisha Vanjari, Ms. Shubhada Labde-Co-ordinators, organized workshop on “Software Cost Estimation” on 28th August 2021 and expert for this was Ms. Siddhi Pota Certified Associate in Project Management.

● Dr. Sarita Ambadekar – Convener, Ms. Shyamal Virnodkar, Ms. Kavita Bathe, Ms. Mrunali Desai - Co-ordinators, organized workshop on “Universal Human Values for students” and expert for this session was Mr. Shrinidhi Gindi, AICTE Volunteer Speaker.

## Placement Statistics



## Result Statistics



Students placed in various Companies

Percentage of Students Passed

### 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



### Student Achievements

- Manasvi Sabnis Secured Runner up position in ECON hacks, Bangalore Hackathon on 9th to 11th oct 2021
- Mohil Khare(Comp) and team(IT) Secured 2nd Position in VCET Hackathon Reloaded 2021(Developed college recommendation system in the span of 30 hours), VCET on 1st and 2nd Oct 2021
- Sakshi Agrawal, Jyotika singh, Isha Patel Secured 2nd Runner up prize in HackJNU, JNU,Delhi on 4th and 5th sept 2021
- Sakshi Agrawal, Varad Sawant, Dhruv Parikh, Jyotika Singh Secured 3rd among 100+ teams in Devfest 2.0 Hackathon, BITS,Goa on 14th -16th August 2021
- Ayush Salunke(Comp) and team(other departments) Secured AIR 8 in Robocon contest, DD-Robocon on 18th August 2021
- Jay Munjapara(comp) and team(IT) Secured 1st prize in International Hackathon, University of Limerick,Limerick,Ireland on 30th August 2021

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

- International Conference on Advances in Science and Technology
- IEEE
- Springer

### Project Sponsored by Companies

Following projects getting the guidance from CTL Company

- Security Assistant
- Stock price prediction using machine learning
- A Bike Navigation Application Using Kalman Filtering For Precise Location
- Crop yield prediction and plant disease detection

### PhD Pursuing Faculties

- Ms. Shyamal Vidnorkar
- Ms. Jyoti Wadmare
- Ms. Chitra Bhole
- Ms. Jignasha Dalal
- Ms. Nisha Vanjari

### Editorial Desk

We are delighted to present the edition of the Departmental newsletter, Volume II for the month of Jan – June 2021. 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