Newsletter

Vol. - XVI, Issue - II, July 2023 - December 2023

Department of Computer Engineering SSBT's College of Engineering & Technology, Bambhori, Jalgaon, Maharashtra

Vision: To emerge as the leading Computer Engineering department for inclusive development of students

Mission: To provide student-centered conducive environment for preparing knowledgeable, competent and value-added computer engineers

SSBT's College of Engineering & Technology, Bambhori, Jalgaon

Vision, Mission and Objectives of the Institute

Vision: Today we carry the flame of quality education, knowledge and progressive technology for global societal development; tomorrow the flame will glow even brighter
Mission: To provide conducive environment for preparing competent, value added and patriotic engineers of integrity of par excellence to meet global standards for societal development
Objectives:

- To impart innovative teaching and learning
- To provide quality education with futuristic trends in engineering and technology
- To develop the institute as a research center for academic excellence
- To ensure continual improvement in quality management system
- To inculcate social values, patriotism and professional ethics among the students

Our Inspirations

Smt.PRATIBHA DEVISINGH PATIL
Former President of India
Founder Chairperson, Shram Sadhana Bombay Trust

Dr.DEVISINGH R. SHEKHAWAT
An Eminent Educationist
The Founder President of Vidya Bhartai Shaikshanik Mandal, Amravati

Shri.RAOSAHEB D. SHEKHAWAT
Chairman & Managing Trustee
Shram Sadhana Bombay Trust

About the Department

The Computer Engineering Department offers both Bachelor's and Master's degrees in Computer Engineering. These degree programs prepare graduates for successful, profitable and lifelong careers in Computer Engineering. Computer Engineering students study hardware and software systems through innovative classroom instructions, supported by laboratories equipped with the state of-the-art hardware and software. The department ensures that the students are introduced to both fundamental and advanced knowledge in areas such as embedded systems, networking technology, computer security and software engineering etc.

Salient Features of the department are as follows.

- State of the Art Computing Facilities
- ICT in Teaching and Learning
- Teacher as Mentor
- Research & Publications with Social Impact
- Supportive Learning for Placements
- Professional Development for Industrial Engagement

Various activities conducted by the department for the students are as follows.

- Value Added Courses
- Career Oriented Add-On Courses
- Special Training for Competitive Examination
- Expert Lectures for Industry Interaction
- Report Writing & Paper Presentation
- Personality Development & Soft Skill Training

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Program Educational Objectives (PEOs)

PEO 1. Core Knowledge
Computer engineering graduates will have the knowledge of basic science and Engineering skills, Humanities, social science, management and conceptual and practical understanding of core computer engineering area with project development.

PEO 2. Employment
Computer engineering graduates will have the knowledge of Industry-based technical skills to succeed in entry level engineering position at various industries as well as in academics.

PEO 3. Professional Competency
Computer engineering graduates will have the ability to communicate effectively in English, to accumulate and disseminate the knowledge and to work effectively in a team with a sense of social awareness. ■

Program Outcomes (POs)

Computer Engineering Graduates will be able to:

- Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

- Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to ones own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

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Program Specific Outcomes (PSOs)

Computer Engineering Graduates will be able to:

- Software Systems Development: Apply the theoretical concepts of computer engineering and practical knowledge in analysis, design and development of software systems.
- Open Source Software: Demonstrate familiarity and practical competence with a broad range of programming languages and open source platforms.
- Computer Proficiency: Exhibit proficiency through latest technologies in demonstrating the ability for work efficacy to the industry and society.

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Campus Placement

Sr.No	Name of Company	Package in Lakh	No of Students selected
1	Santronix Sol. Jalgaon	3.00	2
2	Profound Edutech, Pune	2.6	3
3	Eaglebytes Sol. Nasik	2.4	4
4	Dhoot Transmission Sambhajinagar	2.0	20
5	Networcx, Pune	2	2
6	Qspiders	2.8	15
7	Pentagon Space, Pune	2.8	3
8	Cyber success pune	2.5	5
Total			54

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Smart India Hackathon-2023

Internal hackathon was conducted in September 2023 in which 50 teams were participated amonge that 15 teams were shortlisted for final Smart India Competition. Smart India Hackathon is a AICTE and Ministry of Education, Govt of India sponsered, nationwide initiative to provide students with a platform to solve some of the pressing problems we face in our daily lives, and thus inculcate a culture of product innovation and a mindset of problem-solving. Two teams including the students of Final Year Computer Engineering from our college selected to participate in the grand finale of the Smart India Hackathon on 19th - 20th December 2023. This achievement reflects the dedication and talent of our students, and we are honored to have them represent our institution and our university at such a prestigious event. The first team will introduce a project under the Ministry of Commerce and Industry to develop software that can translate problem statement resource materials and other texts from English to other Indian regional languages. CIPAM is actively involved in promoting IPR awareness, commercialization and enforcement. In this regard, CIPAM has developed various educational tools and resource materials for easy understanding by students, industry, general citizens, police, judiciary and customs officials. The software will help in the necessary translation of this information created in various formats like word document, PDF document, text in image. Software has developed techniques that recognize the correct meaning of text rather than just the literal meaning. This software can translate Hindi, Marathi, Bengali, Gujarati, Tamil and Telugu text.The participating team at Chandigarh Engineering College (Chandigarh) consists of students Nikita Shimpi from Electronics and Telecommunication Department and Kimaya Shimpi, Sakshi More, Samiksha Passe, Bhavika Patil and Harshal Patil from Computer Department.This team was guided by Dr. Dinesh Puri and Dr. Akash Waghmare. According to this, the second team explained to some individuals under social justice and empowerment The main objective of this team is to develop software that creates supplemental content therapy in different languages ??for people who have speech difficulties that prevent them from expressing themselves effectively.The software will have things that show the wrong words and help the person to improve the pronunciation through therapy-actions. The treatment will focus on oral language and reading skills, in-depth information on various therapy activities from different languages, as well as an application with version level, sound level and picture level information to facilitate the correct pronunciation of words by individuals.The team participating in Techno India NJR Engineering College, Udaipur (Rajasthan) consists of Lubdha Borole, Neha Baviskar, Yogita Mahajan, Rekha Mahajan Gunjan Chaudhary, Trishita Mahajan from Computer Department. Got guidance from Dr.Manoj Patil and Dr. Dinesh Puri.

SIH: Shortlisted Teams

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Faculty Publication

- Dr. Girishkumar K. Patnaik, Akash D. Waghmare, Dinesh D. Puri published a paper on Identification of Source of Misleading Information and Stop the Dissemination through Blocking the User in The Ciencia and Engenharia -Science and Journal , ISSN: 0103-944X Volume 11 Issue 1, July 2023, pp: 1364-1375 UCG CARE - II.

- Dr. Girishkumar K. Patnaik, Dinesh D. Puri,Akash D. Waghmare published a paper on Generation of Regular Expression from Aligned Sequences of Text Snippets in Ciencia and Engenharia -Science and Journal , ISSN: 0103-944X Volume 11 Issue 1, July 2023, pp: 1376-1385 UCG CARE - II.

- Shital Patil,Dr. K. P. Adhiya,Dr. Girishkumar K. Patnaik, published a paper on Various Feature Extraction and Selection Techniques for Lexicon Based and Machine learning Sentiment Classification in Ciencia and Engenharia -Science and Journal , Volume 11 Issue 1, ISSN: 0103-944X, July 2023, pp: 1939-1951 UCG CARE - II.

- Pankaj Zope, Vinodkumar Pradiprao Patil, Prashant Thakre, published a paper on Hardware Implementation and Closed Loop Simulation of SPWM and PI based Hybrid Control for Matrix Converter fed Single Phase Induction Motor Powered by PV system in International Journal of Renewable Energy Research (IJRER) , Volume 13 Issue 4, ISSN: 1309-0127, December 2023 UCG CARE - II, Scopus Indexed

- Dr. D. K. Kirange, published a paper on Recursive feature elimination and optimized hybrid ensemble approach for early heart disease prediction in International Journal of Computing and Digital Systems

, ISSN: Volume 14 Issue 1, ISSN: 2210-142X, July 2023.

- Dr. M. E. Patil, Akashy Mahajan published a paper on Artificial Immune System using Memetic and C5.0 algorithms in PRATIBHA Journal.

- Dr. M. E Patil published a paper on An Iot Based Monitoring System For Single Phase Grid Connected Photovoltaic System in Journal of Namibian Studies: History Politics Culture , ISSN: 2197-5523 Volume 33 Issue 1, August 2023.

- Dr. S. R. Suralkar published a paper on Early Detection System for Epileptic Seizures By Using Machine Learning in International journal of innovations in engineering and science , ISSN: 2456-3463 Volume 8 Issue 3, September 2023.

- Dr. S. R. Suralkar published a paper on Performance Evaluation of Light Weight Cryptographic CLEFIA Algorithm SSRG in International Journal of Electronics and Communication Engineering e , Volume 10 Issue 8, 48-58, September 2023. .

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Conferences Attended

- Dr. D. K. Kirange presented paper on A survey on deep learning methods for brain tumor and liver lesion detection in AIP Conference in July 2023

- Dr. K. P. Adhiya, Shital A. Patil presented paper on Literature Survey Of Lexicon Based Method and Machine learning method of Sentiment Analysis of Students Feedback in International conference on Recent Trends in Science , Engg and Technology ICRTSET, December 2023.

- Dr. Krishnakant P. Adhiya, presented paper on A Comprehensive Study on VANET Security in The 2nd International Conference on Advancements in Smart Computing and Information Security in December 2023.

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Result Analysis of May 2023 University Examination

Class	Number of Students Appeared	Number of Students ALL Clear	% of ALL Clear
S.E Comp.	**210**	**151**	**71.90**
T.E. Comp	**214**	**173**	**80.84**
B.E. Comp	**143**	**118**	**82.52**
B.E. IT	**70**	**52**	**74.29**

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S.E. Computer Toppers

Name of the Student	SGPA
FULE KUSH BHARAT (SANGITA)	9.00
DHAKE NISHA PARIKSHIT (KOKILA)	8.8
PATIL SANJANA BAPU (PUSHAPA)	8.65
MAHAJAN BHAGYASHRI SANJAY (PAPILA)	8.6
MAHAJAN CHINMAYI HEMANT (ROHINI)	8.6
PATIL DHANASHRI KAILAS (RINA)	8.55
PATIL AAKANKSHA PRAMOD (PRATIBHA)	8.5
UBARHANDE DIVYA SANDIP (JYOTI)	8.5
JOSHI DARSHANA JAYKISAN (MANISHA)	8.5
PATIL KALYANI SATISH (UJJWALA)	8.5

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T.E. Computer Toppers

Name of the Student	SGPA
NIKAM NIKI SANDIP (BHARATI)	9.1
MALI VAISHNAVI RAMESH (REKHA)	9.00
PATIL DURGESHWARI LOTAN (NILIMA)	9.00
TAYADE NILESH LILADHAR (JYOTI)	8.9
VAIDYA YAYATI KISHOR (BHARTI)	8.81
PATIL MANASI GAJANAN (PRITI)	8.76
SHAIKH LUIZA MAHIN WAJID (NASRIN BANO)	8.71
PATIL UNNATI RAVINDRA (ANURADHA)	8.71
KUTE NAMRATA ASHOK (SHITAL)	8.71
SATAV UNNATI RAJENDRA (ASHA RAJENDRA SATAV)	8.67

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B.E. Computer Toppers

Name of the Student	SGPA
DARA JAYA ATTAMKUMAR (REKHA)	9.33
NAIK ADITI ATUL (ANISHA)	9.29
NIKITA SUMIT HEMNANI (KAJAL)	9.29
GAIKWAD MOHIT PRAMOD (BHARATI)	9.14
MALI BHUSHAN SAMADHAN (SANGITABAI)	9.14
NEMADE CHETANA KHUSHAL (SHAILA)	9.1
DHANDARE RAJESHWARI PRAKASH (VARSHA)	9.05
JAISWAL RUSHIKESH SATISH (TAI)	9.05
SHIRSATH HEMANT PADMAKAR (SADHANA)	9
BAVISKAR LINA SHAMKANT (MANGLABAI)	9

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B.E. IT Toppers

Name of the Student	SGPA
PATIL RAKSHA ASHOK (ANITA)	9.43
BHOI RAJASHRI SUNIL (ANJANABAI)	9.33
PATIL VIJAY SAHEBRAO (MANGLA)	9.24
PATIL ASHWINI SUNIL (USHABAI)	9.14
SUPE LEENA TUSHAR (NILIMA)	9.14
SALUNKHE VAISHNAVI BHALCHANDRA (YOGITA)	9.1
DUSANE POOJA AMOL (ANITA)	9.1
SALUNKE DISHA RAVINDRA (SAU SUNITA)	9.1
CHAUDHARI HARSHADA CHARUDATTA (SUJATA)	9.05
PATIL SAYALI ANIL (MALTI)	9.00

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Newsletter Editorial Committee

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