Department of Computer Science & Engineering

BITS AND BYTES

AJIET

ENIGMA

Volume 2
SEP 2020

Our Patrons

Dr. A. J. Shetty
President, LMET

Mr. Prashanth Shetty
Vice-President, LMET

Dr Shantharama Rai C.
Principal, AJIET

Vision of Institute

To produce top-quality engineers who are groomed for attaining excellence in their profession and competitive enough to help in the growth of nation and global society.

Mission of Institute

- To offer affordable high-quality graduate program in engineering with value education and make the students socially responsible.
- To support and enhance the institutional environment to attain research excellence in both faculty and students and to inspire them to push the boundaries of knowledge and base.
- To identify the common areas of interest amongst the individuals for effective industry-institute partnership in a sustainable way by systematically working together.
- To promote the entrepreneurial attitude and inculcate innovative ideas among the engineering professionals.

HOD's Message

Dr Antony PJ

It gives me great pleasure for releasing the first volume of our CSE department newsletter "Bits&Bites". I would appreciate and congratulate the staff chief editor Mr. Nithin Kumar Heraje, the editorial board, students and staff of Computer Science & Engineering department of AJIET for the sincere hardwork and coordination for bringing out this newsletter beautifully. I express my sincere gratitude to our management, Laxmi Memorial Educational Trust (R.), for providing the excellent facilities. The various activities conducted by the department, Academic and extracurricular achievements of both students and faculties are beautifully captured in the first edition of this department newsletter. The CSE department has been travelling in right direction by providing outcome based, value based and skilled IT education. To cope up with today's evolutionary changes in IT field, we train our students to become more critical thinker and real problem solver, so that they can achieve excel in future. Right now we are just a beginner and we have travelled very little. For the rest of our journey, I assure our subsequent department newsletter volumes definitely would come up with more and more insights focusing the growth of the CSE department. Once again I thank each and every one and wish all the very best.

Vision of Department

To adapt the evolutionary changes in computer science and expose the students to the cutting-edge technologies to produce globally competent professionals.

Mission of Department

1. To mould the students by providing quality computer education and by strengthening the Industry-Academic interface.
2. To impart the professional skills, innovative research activities and entrepreneurial capabilities in students

Editorial Board

Program Specific Outcomes(PSOs)

At the end of the program, graduates will be able to

PSO1

Apply engineering principles, professional ethics and fundamental science in designing systems and communication models (protocols).

PSO2

Design and develop smart and intelligent based applications in computational environment.

Program Educational Objectives (PEOs)

PEO1

To develop in students, the ability to solve real life problems by applying fundamental science and elementary strengths of computer science courses.

PEO2

To mold students, to have a successful career in the IT industry where graduates will be able to design and implement the needs of society and nation.

PEO3

To transform students, to excel in a competitive world through higher education and indulge in research through continuous learning process.

Program Outcomes (POs)

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 one's 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.

Student Achivements

- Karthik of the third year has secured second place in the event PICHARADS at national level techno-cultural fest "ENVISION 2020" on 4th,5th March 2020 Srinivas institute of technology
- Sethu S Pillai of the third year has secured second place in the event PICHARADS at national level techno-cultural fest "ENVISION 2020" on 4th,5th March 2020 Srinivas institute of technology
- Sethu S Pillai of the third year has secured first place in the event COGNIZANCE at national level techno-cultural fest "ENVISION 2020" on 4th,5th March 2020 Srinivas institute of technology
- Karthik V Bhat of the third year has secured first place in the event HACKATHON during AAKRITHI 2020 intercollegiate techno-cultural fest on 27th-29th Feb 2020 at Canara engineering college
- Shashank S Mayya of the third year has secured first place in the event HACKATHON during AAKRITHI 2020 intercollegiate techno- cultural fest on 27th-29th Feb 2020 at Canara engineering college
- Shashank S Mayya of third year secured 6th place in the 2020 Regional Finals of the statewide TCS TECH BYTES organized by the board for IT Educational Standard (BITES) and Tata Consultancy Services
- Keith Lennor Veigas of third year secured 6th place in the 2020 Regional Finals of the statewide TCS TECH BYTES organized by the board for IT Educational Standard(BITES) and Tata Consultancy Services
- Shradha Shetty of the second year has secured 1st place in the event BEHIND THE MASK of TECHNOFIA'20 held on 10,11th March 2020 at Alvas Institute of engineering & technology
- Vishakha of the second year has secured 2ND place in the event KALAKAAR at national level techno-cultural fest "ENVISION 2020" on 4th,5th March 2020 at Srinivas institute of technology

Student Achivements

- Hitesh Kumar of the fourth year has secured 1ST place the event HACKATHON during AAKRITHI 2020 intercollegiate techno-cultural fest on 27th-29th Feb 2020 at Canara engineering college
- Sethu Pillai of third year Awarded rupees 10,000 cash prize for getting selected under the top 5 business start-up idea award in Karnataka state, organized by Vijay Karnataka (the Hindus) newspaper in association with Gillette 2019-20
- Sethu Pillai, Keith of third year Awarded 1st in Paper Presentation - Alva's Technofia, in National level technical and cultural fest, at -Alva's Institute Of Engineering MARCH 2020
- Sethu Pillai, Keith Lennor Veigas of third-year Secured 1st place for Bid-Buzz competition held in a National level Technical and cultural fest at Alva's Institute Of Engineering
- Sethu Pillai of third-year Secured 1st place for Interview Buddy Competition, a competition held in a National level Technical and cultural fest at Alva's Institute Of Engineering
- Sethu Pillai, Keith Lennor Viegas Secured 1st in Paper Presentation at National level technical and cultural fest, -" AJIET AAKAR", Kannan, Keith, Karthik, Shashank has secured 1st prize in 24-hours Virtual Hackathon by Yi InnovIndia-2020 Mangalore region
- Sethu S Pillai has secured 1st prize in dumb charades, SAMBHRAM 2020, Shree Devi college
- Roopa s Nayar has secured second place in Dumb Art at Tambaram 2020 Shreedevi Institute of Technology
- Karthik V Bhat has secured 2nd place in TikTok at envision 2020, Srinivas institute of technology
- Shashank s Mayya, Keith Lennor Veigas has secured second place in INQUEST at Technofia, Alvas Institute of technology
- Shashank S Mayya has secured second place in a national-level chess tournament at BMS college Bangalore, January 2020.

Student Achivements

- Shashank s Mayya has secured second place in Quiz at SAMBHRAM 2020, Shree Devi college
- Shashank s Mayya has secured first place in digital poster making at SAMBHRAM 2020, Shree Devi college
- Shashank s Mayya, Keith Lennor Veigas has secured first place in TECHNOBUZZ, Envision 2020, SIT Valachil
- Keith Lennor Veigas has Secured 2nd place for Interview Buddy Competition, held in TECHNOFIA National level Technical and cultural fest at Alva's Institute Of Engineering
- Keith Lennor Veigas has secured first place in digital poster making at SAMBHRAM 2020, Shree Devi college
- Keith Lennor Veigas has secured 2nd place in QUESTIONARIA at SAMBHRAM 2020, Shree Devi college

Gems Who Made Us Proud

Company	Name
SilverPeak Global	Adhya Rai K
	Anvitha Rai A
	Ashika Sab
	Ishwarya Lakshmi
	K Vishal Shet
	Nayana Krishna P
	Ramya R
	Shrijal JK
DXE Technology	Ashika Sab
	Ishwarya Lakshmi
	Prajwal Rao
	Ramya R
	Varsha Shetty
	Ashwitha K Titty

Gems Who Made Us Proud

Company	Name
24[7].ai	Adhya Rai K
	Anvitha Rai A
	Hitesh Kumar Siwan
	Srujana N
Wipro	Astle Russel Fernandez
	Chiranthan M V
	Nayana Krishna P
Infosys	Glen Reuben DSouza
	Sampreetha
IBM	Glen Reuben DSouza
	Varsha Shetty
	Zuha Vaseem
TCS	Alex G James
	Maneesh Raj

Gems Who Made Us Proud

Company	Name
TechFortune	Ashika Sab
	Ishwarya Lakshmi
Q Spider	Ashika Sab
	Ishwarya Lakshmi
Jaro Education	Mohammed Ashab
Capgemini	Sampreetha J
Codecraft Technologies	B N Ranjith
HashedIn	Deekshith K
NettyFish Network	K Vishal Shet
The Syndicate Tech	Ramya R

Certifications

Name	Organized By	Course Title
KARTHIK V BHAT	Google Digital Garage	Fundamentals of Digital Marketing
	Coursera	Html, CSS and Javascript for Web Developers
	Coursera	Programming for everybody (Python)
	DeepLearning.ai	Neural Networks and Deep Learning
RIFTHASHIA	Great Learning	Front end development-HTML
	SoloLearn	Python for Beginners
SNEHAL	Microsoft	Microsoft Virtual Workshop Certificate
	Coursera	Introduction to Web Development
	Coursera	Python Programming
	Coursera	Introduction to Digital Development
	J.P. Morgan	J.P.Morgan virtual Workshop Certificate
	Goldman Sachs	Goldman Sachs Virtual Workshop certificate
SAHANA SHETTY	Coursera	Responsive Website Basics
	Coursera	Introduction to ReactJS
	Great Learning	Front End Development
	Great Learning	Full Stack Development

Certifications

Name	Organized By	Course Title
LAVITA GLORIA LOBO	Udemy	HTML, CSS & JavaScript
	LinkedIn	HTML Essential Training Course
KEITH LENNOR VEIGAS	Educuba	Build Responsive Website
	Microsoft	Engineering: Virtual Experience Program
	Cognitive Class	Introduction to Data Science
	Gogle	Fundamentals of Digital Marketing
NIDHI. K	Tcsion-Nptel	Introduction to Programming in C
SHEEBA HENRITA BANGERA	Coursera	AI for Everyone
BHAVNA SHARMA	Great learning	Basics of Java
ARPITHA M.J	Great learning	Introduction to Digital marketing
	EDU Year	Java
DEEKSHA D SHENOY	Coursera	Responsive Website Basics

Workshops Conducted

A three-day hands-on workshop on Machine Learning

A three-day hands-on workshop on Machine Learning was organized by the Department of Computer Science & Engineering from 16th to 18th September 2019 for the final year students. Mr. Sachin Kumar S and Mr. Vaishnav, Data Science Consultants from Konzepts Data Innovation Labs Pvt Ltd, Thiruvananthapuram were the resource persons. Mr. Pradeep Kumar coordinated the Workshop

A hands-on Workshop on Introduction to Docker for Developers

A hands-on Workshop on Introduction to Docker for Developers was organized by the Department of Computer Science & Engineering on 20th November 2019 for the final year students. Mr. Augustine Correa from Hackerspace Mumbai and Mr. Prashanth Shenoy from MD –UniCourt Mangaluru were the resource persons.

Department Association Activity

Mini Project Exhibition

An event on MINI PROJECT EXHIBITION was organized by the Department of CS&E, on 28th August 2019 in which a total of 10 teams from final years and 12 teams from third years participated. The best project from the final year was awarded for Hithesh and the team for the project "Confab" and from the third year Harsha Krishna and team for the project "Distimeter" and Keith and team for the project "Hangman". Mrs. Aparna Shetty and Mrs. Sharon D'Souza were the coordinators.

Three days Bridge Course on C++

Three days Bridge Course on C++ for the 4th-semester students was conducted from 13-02-2020 to 15- 02-2020. Mrs. Aparna Shetty was the Co-ordinator

Industrial Visit

An Industrial visit to CEOL, Mangaluru

Students in CEOL, Mangaluru

n Industrial visit to CEOL, Mangaluru was organized by the Department of CS&E, for the 4th Semester students on 6th February 2020. Mr. Nithin K Heraje was the Co-ordinator. Ms. Meghana Ballal and Mrs. Saranya Babu were the staff Co-Coordinators.

MOU & KSCST PROJECTS

MOU AJIET/CSE PROJECTS

- MOU AJIET/CSE - TOWN HUB SOLUTION The Memorandum of Undertaking (MoU) was made on, 1 September 2019 between "TOWNHUB TECHNOLOGIES LLP", Mangaluru
- KSCST – SPONSORED PROJECTS- Three final year projects selected for funding in 43rd series SPP 2019-20. The projects are:-Automated parking system, L-Kart, Design, and Development of IoT based smart door for house security
- Received Financial Assistance of Rs. 5000 for final year project for Innovative Projects Under VTU Grant, Theme: Machine Learning, Title: "Kannada language sentiment analysis using baseline and ML algorithms – A comparative study". The project was guided by Dr. Antony P. J. . The team members are Deekshith, Hithesh, Maneesh Raj, and Shashank of the 8th RSeecmeeisvteerd. Financial Assistance of Rs. 5000 for final year project for Innovative Projects Under VTU Grant, Theme: IOT for Water Resource, Title: "THE WATER QUALITY MONITORING SYSTEM USING IOT". The project was guided by Mrs. Snitha Shetty. The team member is Vishal Shet, Mohammad Ashab, Ramya R, Zuha of 8th Semester

Faculty Achievements

Technical Talk Delivered

- Dr. Antony P J delivered a Keynote Address for the International Conference SACAIM 2019 held at St. Aloysius College, Beery Campus, on the 22nd of November 2019.
- Dr. Antony P J delivered an invited talk at Srinivasa School of Engineering, Mukka on â€œTricks for learning Engineering Applicationsâ€ for the CSE students and faculty on the 1st of October 2019.
- Dr. Antony P J inaugurated the Sports Day -2019 of Karnataka Polytechnic Mangalore on 10th October 2019 and addressed the gathering

Conference/Workshop Attended

- Dr. Antony P J attended an International Conference on Advanced IT, Engineering and Management (SACAIM 2018) organized at St. Aloysius College, Mangalore on the 21st and 22nd of November 2019
- Dr. Antony P J Attended a three-day Faculty Development Program on Machine Learning with Python held at S.G. Balekundri Institute of Technology, Belagavi from 29th to 31st Jan 2020.
- Mrs. Snitha Shetty has attended 4 days of online FDP on Applied Machine Learning Using Python organized by NMAM Institute of Technology, Nitte from 9-6-2020 to 12-6-2020.
- Mr. Nithin Heraje and Mrs. Saranya Babu has attended Five Days online Workshop on "Applications of Python Programming in Data Analytics and Machine Learning – Research Perspective", organized by Alva's Institute Of Engineering & Technology, from 15th - 19th June 2020
- Mrs. Saranya Babu and Mrs. Snitha Shetty has attended Four-Day online FDP on Image Processing and Data Science, organized by Canara Engineering College from 26-6-2020 to 29-6-2020

Paper Publication

- Mrs. Sharon C D'Souza published a paper titled Model for the flow of CCTV footage supervised machine learning rundown streaming and storage with the use of third party auditing in the cloud in Internation Journal of Advance Research, Ideas and Innovations in Technology, ISSN:2454-132X, Volume 6, Issue1, Jan 2020

Award

- Dr. Antony P J was Honored with Gadinada Dhwani Rashtrakavi Manjeshwara Govinda Pai National Award for his contribution to Kannada and Tulu Language Computerization by Kannada Sahitya Parishattu, Karnataka State in the year 2020.