



# Bits n' Bytes

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING  
**VIVEKANANDA**  
**COLLEGE OF ENGINEERING & TECHNOLOGY**



# take the lead



Volume 15

September 2023 – March 2024

VISION

To exceed expectations as one of the alluded specialized Department, making progress through a dynamic learning environment; creating socially capable nationals.

MISSION

- M1:** To create trained inventive and quality specialists in Computer Science.
- M2:** To encourage staff to update skills and aptitudes by teaching proficient values in the alterably evolving environment.
- M3:** To develop best in-class infrastructural facilities, making progress.
- M4:** To produce commonly valuable associations with Government, Industry, Society, Alumni and advance Entrepreneurship.

Program Educational Objectives (PEOs)

1. Work productively as Computer Engineers, including supportive and leadership roles in multidisciplinary domain.
2. Participate in life-long learning through the successful completion of advanced degrees, continuing education, certifications and/or other professional developments.
3. Promote design, research, product implementation and services in the field of Computer Science and Engineering through strong technical, communication and entrepreneurial skills.

**Teachers' Day Celebration**

Department of Computer Science and Engineering, Vivekananda College of Engineering and Technology, Puttur in association with Indian Society for Technical Education (ISTE) had organized the celebration of Teachers' day which was conducted successfully with the active participation of Management, Principal, HODs, Staffs and Students on 5<sup>th</sup> September 2023.

Sri. Harisha Shastry B, Lecturer, Vivekananda PU college, Puttur was the chief guest of the function. Sri T S Subramanya Bhat, Correspondent, VCET Governing Council was president of the function. Dr. Mahesh Prasanna K, Principal of the institution graced the occasion. Dr. Manujesh B J, HOD, Mechanical Engineering, Coordinator, ISTE, VCET, Puttur and Prof. Krishna Mohana A J, HOD, Dept. of Computer Science and Engineering were also present.

Sri. Harish Shastry recalled his beautiful experiences of his teaching career. He also remembered his students those who are in noble professions like doctors, teachers etc. He added that teaching is a noble profession which creates all other professions.



GPS Map Camera

Puttur, Karnataka, India  
 Q5JM+MXJ, Vivekananda Campus, Nehru Nagar, Puttur,  
 Karnataka 574203, India  
 Lat 12.781499°  
 Long 75.184906°  
 05/09/23 03:52 PM GMT +05:30

### Talk on “Placement Preparation-HP”

Department of Computer Science and Engineering, Vivekananda College of Engineering and Technology, Puttur in association with ACES and Alumni Cell, VCET had organized a talk on “Placement Preparation-HP” on 13th September 2023 through online platform. The resource persons were Ms. Vishmitha Shetty, Software Developer, HP, Bengaluru and K G Varun Rai, IT Engineer, HP, Bengaluru.

Ms. Vishmitha shetty said, it is recommended to know at least one of the programming languages thoroughly, i.e C, C++, Java, or Python. Most commonly used languages are C++ and Java as some companies won’t allow their employees to code in Python as they have in-built libraries. C++ is the fastest language and is most commonly used for CP ( Competitive Programming) and Java & Python are used for CP as well as development.

Mr. K G Varun Rai told, knowledge on Subject basics will add on to your programming skills. Most important subjects that students must know for any company interview are undoubtedly data structures and algorithms. But practice is very important thing to achieve success in career.



### Technical talk on “Application Of Natural Language Processing”

Department of Computer Science and Engineering, Vivekananda College of Engineering and Technology, Puttur in association with ACES and IEEE VCET Student Branch, VCET Puttur, had organized a technical talk on “Natural Language Processing” on 20th September 2023 at AV Hall, VCET Puttur. The resource person was Dr. H.L Shashirekha, Professor and Chairperson, Dept. Computer Science, Mangalore University.

Dr. H.L Shashirekha explained about Language Processing Techniques and tools required. The entire session was online in google meet platform. She gave information regarding how different Indian languages can be processed, different sources of data and how data could be extracted and stored in various software. Major technologies like Artificial Intelligence, Deep learning, Machine learning were also briefly explained.

### Technical talk on “AWS Cloud”

Department of Computer Science and Engineering, Vivekananda College of Engineering and Technology, Puttur in association with ACES and IEEE VCET Student Branch, VCET Puttur, had organized a technical talk on “AWS Cloud” on 23rd November 2023 at, Sir M Visvesvaraya Hall, VCET Puttur. The resource person was Mr. Muhammad Mubashir T, AWS Cloud Associate, Appin Technology Lab, Bengaluru. He is a skilled AWS Cloud Engineer with a strong background in computer science. With experience working as an AWS Cloud Associate at Appin Technology Lab, he has developed expertise in cloud computing and AWS services.

Mr. Muhammad Mubashir T started the session where he explained about cloud. He also said that Oracle is the good competitor of cloud. In the session, the resource person defined about AWS Cloud and explained the important terms regarding AWS and cloud.



## Technical talk on “Cyber Security and Ethical Hacking”

Department of Computer Science and Engineering, Vivekananda College of Engineering and Technology, Puttur in association with ACES and IEEE VCET Student Branch, VCET Puttur, had organized a technical talk on “Cyber Security and Ethical Hacking” on 24<sup>th</sup> November 2023 at, Sir M Visvesvaraya Hall, VCET Puttur. The resource person was Shazin Shahul, Cyber Security Analyst in TechByHeart, Bengaluru.

The resource person defined about Security and explained the important terms regarding Ethical hacking. He also described the importance of Cyber Security and the benefits obtained by it to users. Initially ways of Ethical hacking was defined and later there was very good explanation and the methods to detect it was clearly explained. Clear cut benefits of using Cyber Security and how it could be beneficial to our society to avoid ethical hacking was also explained.



## Workshop on “GIT”

Department of Computer Science and Engineering, Vivekananda College of Engineering and Technology, Puttur in association with ACES, Alumni Cell and IEEE VCET Student Branch, VCET Puttur, had organized a technical talk on “GIT” on 9<sup>th</sup> December 2023 at DBMS Laboratory, VCET Puttur. The resource person was Mr. Dwarakaanath, Software Developer, Ovyo Technology Services. He is Actively engaged in disseminating knowledge through seminars and contributed to supplementary courses, specialized in advanced Git techniques and conducted workshops to ensure optimal version control.

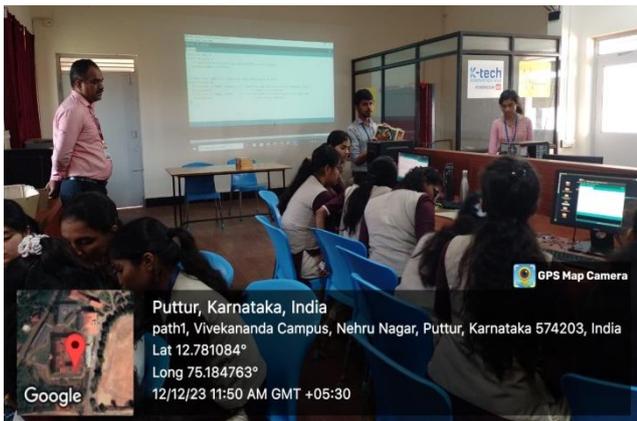
In the session, the resource person defined about Git and explained the important terms regarding the Git like clone, repository, pull request, merge request etc., He also described the importance of Git and the benefits of using it in the IT Sector.



## Workshop on “ESP-32 and its Applications”

Department of Computer Science and Engineering, Vivekananda College of Engineering and Technology, Puttur in association with ACES, ICIOT Lab and IEEE VCET Student Branch, VCET Puttur, had organized a workshop on “ESP-32 and its applications” from 11<sup>th</sup> December to 14<sup>th</sup> December 2023 at ICIOT Laboratory, VCET Puttur.

Ms. Chaitra B, Ms. Mekhala Rao, Mr. Sarosh Naik, Ms. Niveetha B, Ms. Harshitha and Ms. Rajashree successfully conducted the sessions. Around 134 students of 2<sup>nd</sup> year CSE got benefited from this workshop. Students were divided into batches and training was given to them in batches so that they will be focused on hands on experience. The workshop mainly focused on real world applications of IoT with Arduino Uno micro controller.



## Virtual Alumni meet

Department of Computer Science and Engineering, Vivekananda College of Engineering and Technology, Puttur in association with Alumni Cell, VCET Puttur, had organized virtual Alumni meet on 22<sup>nd</sup> December 2023 through Microsoft Teams platform.

We all had a good interaction with our alumni batch. They recollected all memories of VCET. Being a student, and then transitioning to the corporate field, their experiences were shared during the meet.

Prof. Krishna Mohana A J, HoD, Dept of CSE welcomed the gathering and Prof. Pramod Kumar P M, Asst Prof, CSE delivered vote of thanks. Session was coordinated by Prof. Swapnalaxmi K, Coordinator, Alumni cell.

**VIVEKANANDA**  
COLLEGE OF ENGINEERING & TECHNOLOGY  
NEHRUNAGAR, PUTTUR – 574203, D.K.

Department of  
Computer Science and Engineering

PRESENTS

**VIRTUAL  
ALUMNI MEET**

Stay  
Connected!

As we gather once again  
let us celebrate the spirit of  
unity that has shaped us  
into who we are today

**ALL ARE CORDIALLY INVITED**

DATE: 22.12.2023, Friday at 6.30 PM  
MODE: MICROSOFT TEAMS  
[www.vcetputtur.ac.in](http://www.vcetputtur.ac.in)



### Chathuram

Department of Computer Science and Engineering, Vivekananda College of Engineering and Technology, Puttur in association with ACES and IEEE VCET Student Branch, VCET Puttur, had organized an event “Chathuram” which was held on March 1<sup>st</sup>, 2024. It was an incredible day filled with fun and excitement. The guest for the event is Prof. Prakash Kumar P, HoD, Department of Computer Science, Vivekananda College, Puttur, adding a touch of wisdom and knowledge to the event. The President of the function was Shri T S Subramanya Bhat, Correspondent, VCET Puttur. The principal Dr. Mahesh Prasanna K spoke about the various opportunity in the computer science field. Dr. Nischay Kumar Hegde, HOD, Department of Computer science and Engineering spoke about the scope of computer science.

**Staff Activity for the  
ODD Semester of the Academic Year 2023 – 24**

**Staff Activity for the  
ODD Semester of the Academic Year 2023 – 24**

## STAFF ACHIEVEMENTS

### ○ PAPER PUBLICATIONS/ PRESENTATIONS:

Dr. Nischaykumar Hegde, "Data survivability in unattended wireless sensor networks with optimal clustering and hybrid encryption algorithm", International Journal of Wireless and Mobile Computing, 2024 Vol.26 No.2, pp.137 - 156, DOI: 10.1504/IJWMC.2024.137176

Yathish Aradhya B C, Dinesh H A, Lokesh M R, "Estimate Initial and Final Data Bounding for Big Data Progressive Sampling in Parallel Computing Environment Proceedings Of International Conference On Intelligent Systems In Computing And Communication (Iscomm - 2023) 8th & 9th Dec, 2023 pp-874-889

Manjunatha Swamy, C, Dr. S. Meenakshi Sundaram, Dr. Lokesh, M. R "ENHANCED BINARY BAT ALGORITHM BASED FEATURE SELECTION MODEL FOR BIG DATA INFORMATION EXTRACTION" The Seybold Report Journal Vol 18, No.02 (2023) Pg.no.1512-1524

[https://seyboldreport.org/article\\_overview?id=MDIyMDIzMTEyNzIxMTI5MDQ2](https://seyboldreport.org/article_overview?id=MDIyMDIzMTEyNzIxMTI5MDQ2) DOI:10.17605/OSF.IO/Z3R9N

Dr. Jeevitha B K, "Key management and access control based on the combination of cipher text-policy attribute-based encryption with Proxy Re-Encryption for cloud data", doi: 10.32629/jai.v6i3.748, Journal of Autonomous Intelligence (2023) Volume 6 Issue 3, pp.1-10, 2023

Prof. Roopa G K, "Systematic Review on Offensive Language Detection of Multilingual Texts using NLP and Machine Learning Techniques", International Journal of Science and Research (IJSR), Volume 12 Issue 8, August 2023, ISSN: 2319-7064, SJIF (2022): 7.942, DOI: 10.21275/SR23802115009

Prof. Radhika Shetty D S, "Multi-Modal Fusion Techniques in Deep Learning", International Journal of Science and Research (IJSR) ISSN: 2319-7064 SJIF (2022): 7.942 DOI: 10.21275/SR23905100554

Prof. Krishna Mohana A J, Prof. Pramod Kumar P M, Prof. Mohan A R, Prof. Shrinidhi A, "Breast Cancer Prediction using Machine Learning", Tuijin Jishu/Journal of Propulsion Technology ISSN: 1001-4055 Vol. 44 No. 3 (2023)

Prof. Savitha M, "Student Attendance Management Automation Using Face Recognition Algorithm", International Research Journal of Engineering and Technology (IRJET) Volume: 10 Issue: 08 | Aug 2023

### ○ FDP PARTICIPATION/ FACULTY AS RESOURCE PERSON:

Dr. Lokesh M R participated in Ten Day Faculty Development Program on "Essentials of Cyber Security in Blockchain Technologies" held from 19th Feb -29th Feb 2024 Organized by Dept. of Information science and Engineering, Vidyavardhaka college of Engineering, Mysore.

One Day FDP on "Fund Raising Through Grants - The essential guide to grant success for startups." at K-tech Innovation Hub, Bejai, Mangaluru on 20th March 2024

Dr. Jeevitha B K, Dr. Uma P, Prof. Roopa G K, Prof. Deepthi M B, Prof. Shrinidhi A participated in One week faculty development program on cloud infrastructure (AWS) organized by KLG Gogte Institute of Technology, in collaboration with Brainovision Solutions and AICTE from 21- 25th August 2023

Prof. Roopa G K participated in NPTEL 8 weeks FDP Course on "Theory of Computation" from July-September 2023

Prof. Radhika Shetty D S participated in One week faculty development program on cloud infrastructure (AWS) organized by Acharya Institute of Technology, Bangalore in collaboration with Brainovision Solutions and AICTE from 21st to 25th August 2023

Prof. Bharathi K and Prof. Thapaswini P S participated in NPTEL-FDP Course on "Programming, Data Structures and Algorithms Using Python", "Python for Data Science", and "Research Methodology" July-Oct 2023

Prof. Thapaswini P S participated in 5 days Online workshop on "Scientific Content Writing and Plagiarism" organized by BioEduXperts during 17th November to 21st November 2023

Prof. Deepthi M B and Prof. Shrinidhi A participated in NPTEL 12 weeks FDP Course on "The Joy of Computing Using Python", July-Oct 2023.

Prof. Swapnalaxmi K participated in NPTEL 12 weeks FDP Course on Deep Learning. (July- October 2023)

Prof. Swapnalaxmi K participated in National Level Five Day Faculty Development Programme on: "From Data to Discovery: MATLAB Skills for Faculty Researchers", held from 4th to 8th December 2023 organized by the Department of Computer Science and Engineering, NMIT, Bangalore.

Prof. Mohan A R participated in NPTEL 4 weeks FDP Course on Python for Data Science, July-Aug 2023

Dr. Uma P and Prof. Shrinidhi A participated in 5 Days FDP on Emerging technologies held at Vidhya Vardhaka College of Engineering, Mysore between 11-12-2023 to 15-12-2023

Prof. Shrinidhi A participated in 5 Days workshop on multidisciplinary research held at Dharwad between 03-02-2024 to 07-02-2024

### STAFF ACTIVITIES

Dr. Lokesh M R, Manuscripts Reviewer for International Conference on Health Informatics, Intelligent Systems, and Networking Technologies (HINT'24) conference on 14th March 2024

Dr. Lokesh M R, Manuscripts Reviewer for International conference on Recent Advances in Information Technology for Sustainable Development on 6th Nov 2023

Dr. Lokesh M R, Resource person in the FDP "Essentials of Cybersecurity in Blockchain Technologies" held from 19th Feb -29th Feb 2024 Organized by Dept. of Information science and Engineering, Vidyavardhaka college of Engineering, Mysore.

Prof. Roopa G K Reviewed has reviewed the papers submitted to International Conference on Artificial Intelligence and Data Engineering (AIDE-2023) organized by NMAM Institute of Technology, Nitte in association with CSI Bangalore Chapter of NMAM Institute of Technology, Nitte, Karkala held during 19th to 20th December, 2023.

Prof. Roopa G K participated as judge for Mock Press event on account of National Science Day 2024 held at VCET, Puttur on 28/02/2024.

Prof. Krishnamohana A J, Prof. Pramod Kumar P M, Prof. Manasa P, Prof. Swapnalaxmi k, Prof. Shrinidhi A, Prof. Radhika Shetty D S, Prof. Deepthi M B were the judges for "Aantharya", National level event organized by MCA Dept, VCET on 29-02-2024