



**Byte MAGAZINE(2021-2022)**

**Computer Science & Engineering**

**Volume 2,Issue 2**



## **Dr.T. THIMMAIAH INSTITUTE OF TECHNOLOGY**

(Estd. 1986) Oorgaum, Kolar Gold Fields, Karnataka – 563120

(Affiliated to VTU, Belgaum, Approved by AICTE - New Delhi)

NAAC Accredited 'A' Grade

### **DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**



#### **Principal's Message**

Dear Readers,

I am delighted to welcome you to the Second issue of “BYTE” student’s Technical Magazine, a technical publication that showcases the latest developments and innovations in Computer Science and Engineering. I would like to congratulate and appreciate the efforts of Dr. S Sreedhar Kumar, Head of the Department, and his editorial team for this magazine. They have done a commendable job in bringing out this issue, which features articles on topics for the overall development for the student’s fraternity. The magazine also highlights some of the achievements and activities of our students, faculty and industry partners of Computer Science and Engineering Department. I hope you enjoy reading this magazine and find it informative and inspiring. I urge you to keep learning and exploring new horizons in your field. Computer Science Engineers are well-positioned in using technology to solve crucial engineering issues and improve the living conditions of the modern world making things more efficient. Hence, a great opportunity to make a positive impact on the society and environment.

**Dr. Syed Ariff Principal**

**Dr. T. Thimmaiah**

**Institute of Technology, KGF**



## [HOD of CSE Department Message](#)

### **From the Editor's Team**

Dear Readers,

I am delighted to welcome you to the Second Issue of "BYTE" Technical Magazine, a student-led publication that showcases the latest developments in of Computer Science and Engineering field. This magazine is a platform for our students, faculty and industry partners to share their insights, experiences and achievements in of Computer Science and Engineering. In this issue, you will find articles on topics such as Technical publications, students and faculty achievements. You will also learn about some of the exciting projects and activities that our department is involved in, student competitions programs. I would like to thank the editorial team for their hard work and dedication in preparing this magazine. I would also like to thank all the authors who contributed their valuable content to this issue. Without their efforts, this magazine would not have been possible. I hope you enjoy reading this magazine and find it informative and inspiring. I look forward to hearing your feedback and suggestions for future issues. Together, we can make this magazine a success and a source of pride for our department and our profession.

Sincerely,

**Dr. S Sreedhar Kumar**

**Head, Department of Computer Science and Engineering**

## EDITORIAL COMMITTEE

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**Dr. S Sreedhar Kumar**

**HOD CSE, Professor**



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STUDENTS EDITORIAL



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**VISION**

To produce technically competent engineers having innovative skills positive attitude, leadership and professional ethics, with a focus on developing sustainable and new technology.

**MISSION**

- Create a conducive environment for teaching, learning and innovation by providing state of the art infrastructure.
- Learn sustainable and new technologies through industry institute collaborations.
- Produce technically competent engineers with ethics, discipline and social consciousness through holistic education.

## DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

### VISION

“To produce highly competent and innovative Computer Science professionals through excellence in teaching, training and research.”

### MISSION

To achieve the vision, the department will

- To provide appropriate infrastructure to impart need-based technical education through effective teaching and research.
- To involve the students in innovative projects on emerging technologies to fulfill the industrial requirements.
- To render leadership skills and ethical responsibilities in students that leads them to become globally competent professionals.

# CONTENTS

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## STUDENTS ACTIVITIES AND THEIR ACHIEVEMENTS

### 1. Eduskil virtual Internship

- 98 students completed virtual Internship provided by Eduskil cohort4 during December 2022 - February 2023
- Cloud Virtual Internship - 44
- AI-ML Virtual Internship - 18
- Cyber Security Virtual Internship - 20
- Process Mining Virtual Internship - 11
- Robotic Process Automation - 05

### Sports

- 2 Students from the Department of Computer Science and Engineering Dr T Thimmaiah Institute of Technology had participated in the intra College Cricket Tournament and thrived as the winners.



Students of CSE cricket team has won the winner cup in the DrTTIT Intra College Cricket Competition(2021-2022)which organized by DrTTIT during period from Jan 2022 to Feb 2022.

3. Mr. Danush, 3<sup>rd</sup> year student has won first prize in the solo dance competition in “Technical & Cultural Hackathon”, organized by Department of ECE and EEE, DrTTIT in the association with IETE Chapter, Bangalore during on 30.10.2021



## PLACEMENT DETAILS

SL.N O	NAME	USN	DEPARTM ENT	COMPAN Y	PACAKAGE(CT C)	STATU S	BATC H
1	NIKITHA.G.N	1GV17CS044	CSE	AMAGI	6.4 LPA	Offered	2021
2	HARSHITHA.N.S	1GV18CS024	CSE	SASKEN	5 LPA	Offered	2021
3	MOHAMMED AKHIL	1GV18CS037	CSE	HCL	4.75 LPA	Offered	2021
4	PUJITH	1GV18CS045	CSE	VERZEO	4 LPA	Offered	2021
5	VARSHA YADAV J	1GV18CS075	CSE	VERZEO	4 LPA	Offered	2021
6	NANDITHA.S	1GV18CS039	CSE	CAPGEMI NI	4 LPA	Offered	2021
7	DIVYA DARSHINI.J	1GV18CS017	CSE	CAPGEMI NI	4 LPA	Offered	2021
8	MEGHANA.M.S	1GV18CS036	CSE	CAPGEMI NI	4 LPA	Offered	2021
9	SWARNA PRIYA	1GV19CS404	CSE	VERZEO	4 LPA	Offered	2021
10	LAYA	1GV18CS033	CSE	INFOSYS	3.6 LPA	Offered	2021
11	SINDHU LAKSHMI.K	1GV18CS064	CSE	WIPRO	3.5 LPA	Offered	2021
12	NIKHIL KUMAR	1GV18CS040	CSE	WIPRO	3.5 LPA	Offered	2021
13	THARUN KUMAR.R	1GV19CS406	CSE	WIPRO	3.5 LPA	Offered	2021
14	DARSHINI.R	1GV18CS016	CSE	TCS	3.36 LPA	Offered	2021
15	KIRAN KUMAR	1GV18CS032	CSE	TCS	3.36 LPA	Offered	2021
16	DHANUSH.N	1GV18CS015	CSE	TCS	3.36 LPA	Offered	2021
17	NIZBA IQRA.A	1GV18CS041	CSE	TCS	3.36 LPA	Offered	2021
18	HAJIRA SAYEEDA	1GV18CS058	CSE	E&Y	3 LPA	Offered	2021
19	SYED HALEEMA SADIYA	1GV18CS073	CSE	UPSKILLZ	2.64 LPA	Offered	2021
20	TAMEEM HUDDIN	1GV19CS405	CSE	UPSKILLZ	2.64 LPA	Offered	2021
21	SAHANA.M	1GV18CS054	CSE	UPSKILLZ	2.64 LPA	Offered	2021
22	AISHWARAYA.N .B	1GV18CS002	CSE	INFOSYS	3.6 LPA	Offered	2021
23	RAMYA.M	1GV18CS047	CSE	CAPGEMI NI	4 LPA	Offered	2021

## DEPARTMENT ACTIVITIES

1. The Final year students they have presented their 24 projects in our 3<sup>rd</sup> International Conference on Recent Trends in Technology, Engineering and Applied Science(ICRTTEAS-2019),Dr.T Thimmaiah Institute of Technology,KGF,19<sup>th</sup> to 20<sup>th</sup> July 2021.
2. The final year students namely Ms. Mamtha CH, Mr. Avinash, Mr. ShoaibNumaanulla and Ms.Vaishnavi have been presented their project under the guidance of Dr. Sreedhar Kumar S with entitle“An Improved Technique for Identifying Fake News on Social Media Network Using Supervised Machine Learning Concepts” and won the first prize at the department level in the Inter College Project Expo-2021 was organized by DrTTIT,KGF on 4<sup>th</sup> August2021.
3. Several activities viz.,Painting Non technical competitions were carried out to encourage the students to enhance their skills apart from the academics.



## Hackathon

- First one day intra college technical and non technical Hackathon with entitle "PetaByte-J22" in association with DrTTIT CSI Student Branch and Institute Innovation Council (IIC) cell of DrTTIT, which was held on 10.1.2022 in our college student center. Department of CSE has organized 1st One Day Intra College Technical and Non Technical Hackathon with the title "PetaByte-J22" in association with DrTTIT CSI Student Branch and Institute Innovation Council (IIC) cell of DrTTIT, which was held on 10.1.2022 in our college student center and it t was inaugurated by Chief Guest Mr. S V Giri, Deputy General Manager (HR), Center of Excellence, BEML Limited, KGF, Karnataka.



## Workshops/FDP

1. Organized four days national level online workshop on “Real Time Applications on Artificial Intelligence, Machine Learning and Big Data Analytics (RTAAIMLBDA-D21)”in the association with CSI Student Branch and IIC Cell of DrTTIT from 15<sup>th</sup> to 18<sup>th</sup> Dec 2021.
2. Organized three days national level online workshop on “Real Time Applications on Network Security Using NS2 –(RTANS-NS2)”in the association with CSI Student Branch and IIC Cell of DrTTIT from 29<sup>th</sup> to 31<sup>th</sup> Dec 2021.

## TECHNICAL ACHIVEMENTS OF THE FACULTIES

- Dr. S Sreedhar Kumar has participated in the four days national level workshop on “Real Time Applications on Artificial Intelligence, Machine Learning and Big Data Analytics (RTAAIMLBDA-D21)” organized by Department of CSE, DrTTIT in the association with CSI Student Branch and IIC Cell of DrTTIT from 15<sup>th</sup> to 18<sup>th</sup> Dec 2021.
- Dr. S Sreedhar Kumar has participated in the three days national level online workshop on “Real Time Applications on Network Security Using NS2 –(RTANS-NS2)” in the association with CSI Student Branch and IIC Cell of DrTTIT from 29<sup>th</sup> to 31<sup>th</sup> Dec 2021.
- Dr.S Sreedhar Kumar has participated in the two days national level FDP on “Pedagogy of Research Writing” organized by Khandelwel Vaish Girls Institute of Technology, Jaipur, from 3<sup>rd</sup> to 4<sup>th</sup> Dec 2021
- Dr.S Sreedhar Kumar, has presented his research paper with entitle “Improving Medical Image Pixel Quality Using MICQ Unsupervised Machine Learning Technique”, International Conference on Computing, Communications & Cyber Physical System”, Reva University, Bangalore, 18<sup>th</sup>–19<sup>th</sup> November 2021.
- Prof. Sharmila Kumari N has participated in the Virtual session on “Prototype/Process design and development by maker space a place for creativity, innovation and product development” on May 5<sup>th</sup> 2022.
- Prof. Sharmila Kumari N also completed a three days workshop on IOT from 11<sup>th</sup> -13<sup>th</sup> Feb 2022 organised by the IEEE student’s branch.
- Prof. Sharmila Kumari N participated in One Day Online Workshop on “How to Write Research paper & Publication of Paper” on June 25<sup>th</sup> 2022.

## CSE NEWS

- The pandemic has moved almost everything to the digital platforms, increasing the demand of computer science engineers all over the world. This discipline mainly covers topics related to computation, programming languages, system and program design, computer hardware and software. Students also study artificial intelligence, web development, cloud computing, database management systems, computer networks, data mining, etc.

## PROGRAM EDUCATIONAL OBJECTIVES(PEOs) & PROGRAM SPECIFIC OUTCOMES (PSOs)

PEO 1: To succeed in computing industry through effective analysis, design and development skills.

PEO 2: To Acquire new skills to work in multidisciplinary areas with strong focus on innovation and entrepreneurship.

PEO 3: To collaborate as team members and team leaders with ethics and good communication skills.

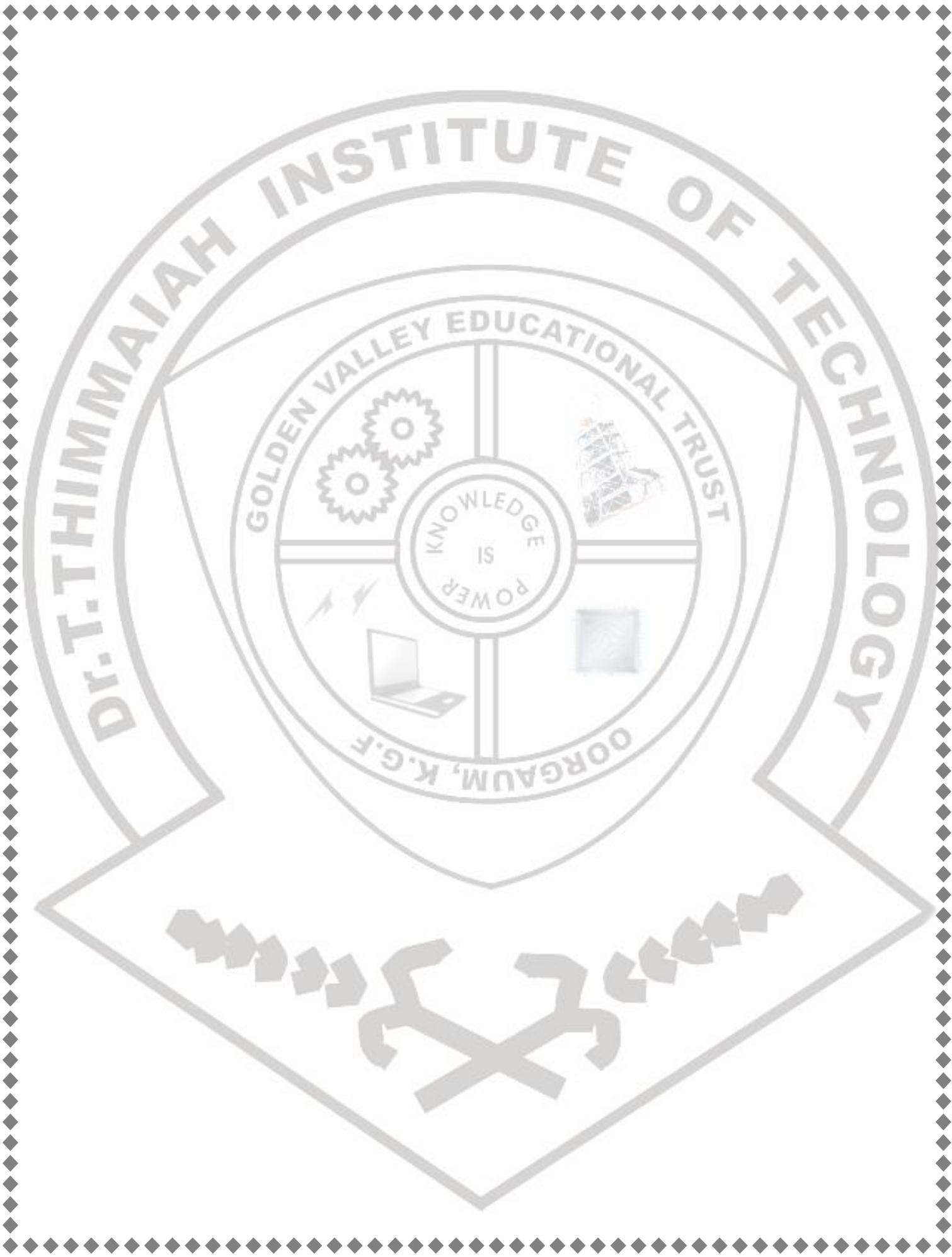
**PSO1:**To design and apply standard practices and strategies in software project development to solve real world problem.

**PSO2:**To adapt to the future technology,to fill the research gap and become entrepreneurs.

## PROGRAM OUTCOMES (POs)

At the end of the B.E program, students are expected to have developed the following outcomes:  
Engineering Knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialisation to the solution of complex engineering problems.

1. Engineering Knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialisation to the solution of complex engineering problems.
2. Problem analysis: Identify, formulate, research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. 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.
4. 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.
5. Modern Tool Usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.
6. 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.
7. Environment and Sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of need for sustainable development.
8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. Individual and Team Work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. 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.
11. 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.
12. 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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KNOWLEDGE  
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OORGAUM, K.G.F.

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