



# JYOTHY INSTITUTE OF TECHNOLOGY

Moving

From

Percentage

To

Product



# JITIMES

2023-24

Contact us

Address: Tataguni, off Kanakapura  
Road, Bengaluru-82  
Phone: 99005 29066  
E-mail: [info@jyothyit.ac.in](mailto:info@jyothyit.ac.in)

# BEST OUTGOING STUDENTS 2024



Deepak P  
AIML  
Silver



Krishna Koustub  
CSE  
Silver



Prerana R  
ISE  
Silver



Deepthi G  
ISE  
Silver



Sameer Pantrajj Kumble  
AIML  
Silver



Chinmayi Rajaram  
CSE  
Gold



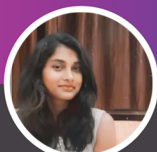
Harshitha N  
ECE  
Silver



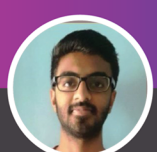
Pavitra P S  
CIVIL  
Silver



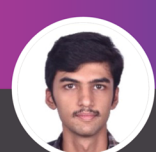
Suhas C  
ME  
Silver



Deepadarshini  
CIVIL  
Silver



Siddhant Achar  
ME  
Silver



Aditya S  
ECE  
Silver

*Benedictory Message from our Kulaguru*  
**Jagadguru Shankaracharya**  
**Sri Sri Bharati Tirtha Mahaswamiji,**  
**Dakshinamnaya Sri Sharada Peetham, Sringeri**



**Company of Mahatmas Elevates People**

Some people have a complex that they do not possess any merit; that they do not have any status in the society. Such persons should seek the blessings of Mahatmas (Self-realised souls).

Associations with Mahatmas bestows a number of benefits. First, they see that the person does not tread the wrong path. They show him the right way and develop a spirit of devotion.

Above all, they see that the person gains respect in the society. Have we not seen many people, though devoid of merit, accomplish things by proclaiming their association with Mahatmas?

Take the example of an ordinary thread. Nobody notices it or gives it any respect. But when it strings flowers into a garland, it is offered to God. People place it on their heads. By associating with the flower, the thread gains the respect which it did not have earlier.

Similarly, people can lead an honourable life in society by associating with great persons.

Therefore, all should seek the company of Mahatmas.

गुणवज्जनसंसर्गात् याति नीचोपि गौरवम् ।

पुष्पमालानुषङ्गेण सूत्रं शिरसि धार्यते ॥



*With Blessings from  
His Holiness Sri Sri Sri Bharathi Thirtha Mahasannidhanam Sringeri  
Sharada Peetam, Sringeri*



*With Blessings from  
His Holiness Sri Sri Sri Vidushekara Bharathi Sannidhanam Sringeri  
Sharada Peetam, Sringeri*



*With Best Wishes from  
Padma Shri Dr. V R Gowrishankar  
CEO and Administrator, Sringeri Mutt and its Properties*

Dr.B.N.V. JYOTHY MEMORIAL EDUCATIONAL TRUST  
**JYOTHY INSTITUTE OF TECHNOLOGY**  
Affiliated to Visvesvaraya Technological University -  
Belagavi  
Approved by AICTE - New Delhi

**JYOTHY CHARITABLE TRUST**

**JYOTHY INDUSTRIES**

**JYOTHY KENDRIYA VIDYALAYA**

Recognized by CBSE, New Delhi &  
Government of Karnataka

**JYOTHY KENDRIYA VIDYALAYA  
COMPOSITE PRE UNIVERSITY COLLEGE**

Recognized by Government of Karnataka

**JYOTHY BOYS & GIRLS HOSTEL**

**JYOTHY KALAKENDRA**

**JYOTHY AQUATIC CENTRE**

**SANDHYA JYOTHY (OLD AGE HOME)**

**MALLIKARJUNA SAMSKRITA VEDA PATASHALA**

Dr.B.N.V. JYOTHY MEMORIAL EDUCATIONAL TRUST  
**JYOTHY INSTITUTE OF COMMERCE  
AND MANAGEMENT**  
(Affiliated to Bangalore University)

Courses Offered

**B.Com.**

**B.B.A**

**B.C.A**

[info@jyothyit.ac.in](mailto:info@jyothyit.ac.in)

**JITIMES |**



## *VISION*

To be an institution of excellence in engineering education, innovation and research, and work towards evolving great leaders for the country, meeting global needs.



## *MISSION*

To provide a vibrant, intellectually and emotionally rich teaching-learning environment with state-of-art infrastructure and recognizing and nurturing the potential of each individual to evolve into one's own self and contribute to the welfare of all.

*"Six Colors, One Vision: Weaving Excellence, Radiating Passion. In each line's vibrant hue, a department's unique mission. A brown circle, 360 degrees of growth we embrace, with a golden square, global mastery takes its place."*

## THE JITIMES INSIGNIA EXPLAINED!

JITimes' insignia was pitched for the first time three years ago. It seemed to be prudent to arrive at one that captured the essence of the institution's belief system rather than just having some fancy design with fancy colours. A simple, yet compelling, design that conveys its message succulently, without much ado, and portrays the interaction of the intertwining values inspired and instilled at JIT.

The six lines represent the six branches of engineering offered at JIT. Equal lengths of the lines signify no one branch is more important than the other. Each, in its own standing, has the potential to catapult graduates to great heights through the application of the knowledge, skills and wisdom acquired during their tenure at JIT. The colour blue reflects the orderly, peaceful, secure and tranquil environs of JIT. It also signifies the stability and reliability of JIT-ians.

The circle represents the 360° all-round grooming and rigmarole JIT-ians receive at the campus that lay equal emphasis on academics, co-curricular and extra-curricular engagements, and sports, in regional, national and international arenas, embodying a friendly and congenial attitude with a competitive frame of mind to excel in the choices they make in their lives. The colour brown is the colour of the Earth and reflects learnability, fertility, growth, and wholesomeness all of which are instilled in JIT-ians.

The square represents the fact that JIT-ians, with the all-rounded grooming they receive in their chosen field of engineering, will be able to express themselves and achieve their life's goals in all four corners of the world, regardless of the organization they work for or country they work in. Colour gold reflects compassion, warmth, tradition, wisdom, and sparkle all values students imbibe at JIT. It also signifies wealth and prosperity which the management, faculty and staff wish for all students wherever they are, with their families.

# FROM THE CHAIRPERSON'S DESK

*“From the modest mansion to the down to earth domain: building big through example and experience”*



Smt. B V Seetha [Maami]

*“Embodiment of humility”*

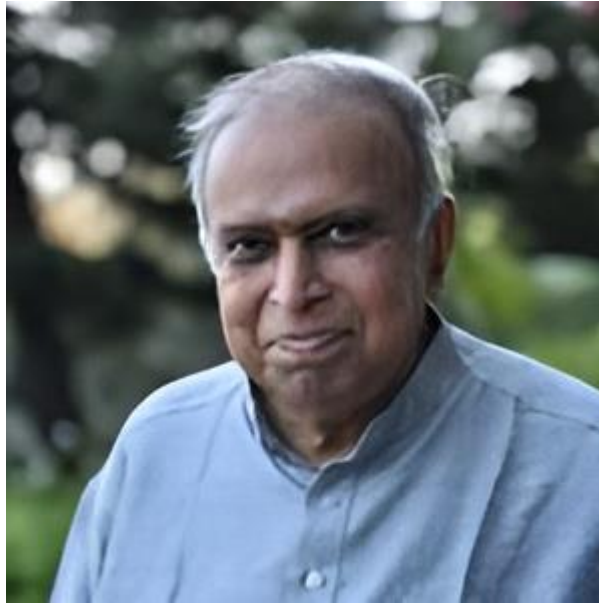
I am elated that JIT is continuing its tradition of releasing its Annual Magazine in its relentless journey of developing responsible, professionally-equipped and service-oriented engineering graduates. Students at the institution are ensured they imbibe both technical and social skills to excel in any endeavour. JIT strongly believes in academic excellence and leaves no stone unturned to instil high teaching learning standards. Faculty are dedicated, dynamic and committed to the vision and mission of the institution. We are fortunate to be of service to the student community that needs continued inspiration, encouragement and guidance to achieve and live their life goals.

It is heartening to acknowledge that JIT continues to hold good NBA, NIRF and ARIIA standings, made possible through instituting and following the required systems and procedures.

I congratulate the Magazine Committee Team for its effort to bring out JITimes 2023-24 successfully!

# FROM THE VICE CHAIRPERSON'S DESK

*"The Charming Chamber: Where the Vice-Chairperson creates Harmony and Synergy."*



Sri M. Narasimhan

*"The facilitator who enables and enriches."*

JIT exemplifies Swami Vivekananda's ideology of taking up an idea and incessantly working towards achieving it through concentrated effort. The institution, through its R&D arm, the Centre for Incubation, Innovation, Research and Consultancy (CIIRC), provides excellent opportunities to students interested in research, regardless of their branch. They are strongly encouraged to develop socially impactful products that can be commercialized. With support from the government and guidance from willing investors, educational institutions such as JIT play a crucial role in developing young entrepreneurs of tomorrow. In this essence, JIT drives students to discover and tap into their own hitherto concealed skills.

On this occasion, I congratulate the Principal and the Magazine Committee for their contribution towards JITimes 2023 - 24.

# FROM THE DIRECTOR'S DESK

*"The intellectual island: where the director drives research and innovation."*



**Dr. Krishna Venkatesh**

*"The wise scholar who explores and discovers"*

I am immensely pleased that the JIT fraternity comprising of its faculty and students are bringing out JITimes year after year, this time with JITimes 2023-24. The decade young institution has, within a short period of time, made an indelible mark in the academic world by way of its unflinching and consistent commitment to providing the best of technical and social education through its highly qualified and experienced faculty, convincingly evidenced through its NBA accreditation and NIRF and ARIIA rankings.

JIT students get the unique opportunity to team up with academicians and researchers on real-time projects funded by national and international organizations. Understanding and solving industrial and social problems forms a crucial part of the JIT system of education and training. In doing so, the institution actively hones the intellectual and spiritual aspirations of its students.

I compliment the Magazine Committee for the high standards and quality, and for coming out with an attractive JITimes 2023 – 24.

# FROM THE PRINCIPAL'S DESK

*"The catalyst who fosters innovation and creativity."*



**Dr. K Gopalakrishna**

*"The champion who leads by example and motivates others."*

JITimes 2023-24, our College Magazine, kindles the imagination of our learners. Cradled in the lap of technology on one hand and innovation on the other, swaying from serious thinking to playful inventiveness, JIT students are brimming with zeal for life, empowering themselves with skills and creativity. In less than a decade since its inception, JIT has accomplished several laurels such as NBA accreditation, and good rankings in NIRF and ARIIA. Credit goes to the Management and Director for their support, and to the Heads and the faculty for their application to the cause of education through the principle of learning by doing.

I congratulate all those who presented their ideas in the form of articles. As long as our ideas are expressed and thoughts kindled, we can be sure of learning. I appreciate every student who shared the joy of participation in co-curricular and extra-curricular activities along with their commitment to curriculum.

I thank the Management and Director for their unrelenting and constant encouragement and support. I also thank the Editorial Board for its mammoth contribution in preparing this treatise. I wish all a very Happy reading!

# CHIEF EDITOR'S NOTE

*"In the world of words, we are architects of thought. crafting bridges between minds with every stroke of our editorial pen."*



**Mrs. Usha Sundaresh**

*Department of Humanities (English)*

I sincerely express gratitude for accepting and giving me an opportunity to lead the magazine committee in the capacity of the Chief Editor. JITimes magazine brings before you the essence of JIT life. It has come out in a true class of its own unique colours of fresh talent that should inspire in some way or the other. The essential purpose of our college magazine is to inspire and entertain a diverse readership including faculty, and other readers of the magazine.

By presenting a timely and honest portrait of our college magazine, the magazine endeavours to reflect the values and qualities of our institution which itself maintains the respect and interests of our readers.

We truthfully thank our faculty members of every department with their respective HoDs for their valuable contribution in motivating and collating the write ups.

Gratitude extends to our editorial board and magazine committee coordinators for their commitment in laying each stone for the foundation of the magazine and in completion of our publication. Our appreciation for the non-teaching staff who showed their presence through thick and thin in the journey of the magazine. Our heartfelt gratitude to our management and our Principal Dr. Gopalakrishna K for providing us the freedom "to wet our feet" and have this phenomenal experience.

I hope the magazine has continued to serve all its readers, patterns and others in line with the previous ones apart from setting unprecedented standards.

# EDITORIAL BOARD



**USHA SUNDARESH**  
Editor-in-Chief



**PRABHAVA R BHAT**  
Creative Head



**B S SHREESHA**  
Sub Editor



**S THANUSHREE**  
Sub Editor



**NIKHITHA A**  
Sub Editor



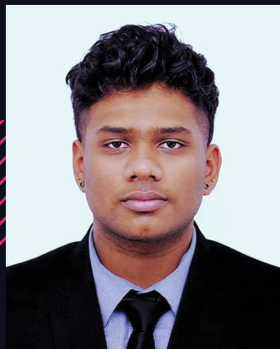
**DIYA K BHAT**  
Assistant Editor



**KHUSHI S SORATHIA**  
Graphics Designer



**AKASH M ATHREYAS**  
Assistant Editor



**DHIRAJ B S**  
Sub Editor



**KUSHAL KUMAR B P**  
Cover and Color Designer



**NAMRATA SINGH TANWAR**  
Proof Reader



**VIVIN JAYANTH A M**  
Layout and Color Designer



**MANOHAR N**  
Photo Editor

# GOVERNING COUNCIL MEMBERS

## THE TORCH BEARERS OF JCT

Name	Designation
Mrs. B V Seetha, Managing Trustee, JCT	Chairperson
Mr. M Narasimhan, Trustee, JCT	Member
Shri PA Murali	Member
Dr. H S Nagraja, Director, Prayoga, Bengaluru	Member
Dr. E S Dwarkadasa, Former Professor, IISc., Bengaluru	Member
Dr. M S Mohan Kumar, Former Professor, IISc., Bengaluru	Member
Mr. Pravin Rao, COO, Infosys, and Chairman, NAASCOM	Member
Dr. B V V Subrahmanya, Trustee, JCT	Member
Mr. B K Ramesh, Trustee, JCT	Member
Mr. B K Sathyanarayana, Trustee, JCT	Member
Dr. Krishna Venkatesh, Director, CIIRC, Bengaluru	Member
Mrs. Suma Jagadeesh, Principal, JKV, Bengaluru	Member
Mr. K Rajesh, Serial Entrepreneur	Member
Dr. C B Mohan, Vice Principal, JIT	Member
Dr. Vadiraj V Katti, Principal KLS VDRIT, Haliyal	Member, VTU Member
Dr. K Gopalakrishna, Principal, JIT	Member Secretary

# INDEX

*“Expecting surprises? Unravel them here!!”*

SL NO.	CONTENTS	PG NO.
1)	Annual Report – Principal Dr. K. Gopalakrishna	1 - 30
2)	International Gameathon	31 – 32
3)	JIT Hackathon	33 – 34
4)	Enigma	35 – 36
5)	Robothon	37 – 38
6)	Pranathi 2024	39 – 43
7)	Open Day and Induction	44 – 54
8)	World Language Club – WLC	55 – 59
9)	<b>Departments Of JIT:</b> i. Computer Science Engineering ii. Information Science Engineering iii. Electronics And Communication Engineering iv. Artificial Intelligence And Machine Learning v. Civil Engineering vi. Mechanical Engineering vii. <b>Basic Science</b> <ul style="list-style-type: none"><li>• Department of Mathematics</li><li>• Department of Physics</li><li>• Department of Chemistry</li><li>• Department of Humanities</li></ul> viii. NCC ix. Department of P.ED x. Library xi. Extended family of JIT: Non – teaching staff photos	60 – 296
10)	Training and Placements	297 – 302
11)	CIIRC – Centre for Incubation, Innovation, Research and Consultancy	304 – 317
12)	Atal Incubation Centre	318 – 323

# ANNUAL REPORT 2023 - 24



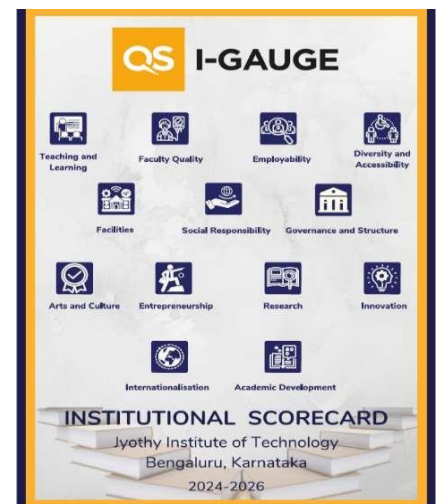
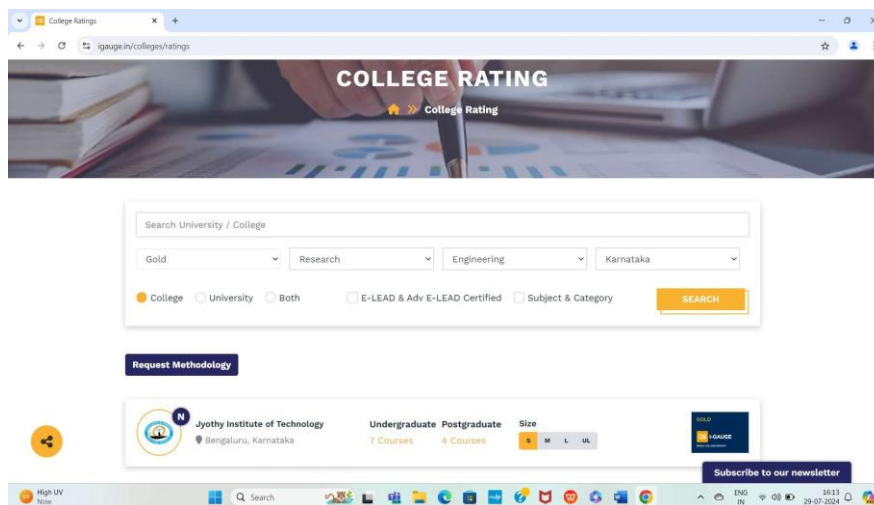
The annual report of JIT will throw light on the accomplishments and achievements of the academic Year 2023-24. JIT has been on an upsurge in terms of its achievements, accomplishments, and

## QS-I-GAUGE RATING

JIT had applied for institutional rating by a professional body QS-GAUGE. QS IGAUGE is a brand incorporated in India as an independent private-sector initiative specialised in rating colleges, Universities and Schools. It brings together the global expertise, experience, and reputation of UK-based (QS) Quacquarelli Symonds and a deep local knowledge of luminaries from Indian education.

QS-IGAUGE rated JIT with a **GOLD** rating and is valid for two years.

The parameters of the assessment are as shown in the image below:



## SAE AERO USA 2024

JIT has been participating in the SAE AERO competition for the last 5 years. In the last edition, JIT participated in the SAE AERO ADVANCED category and stood 12<sup>th</sup> globally.

### SAE AERO TEAM



### SAE AERO ADVANCED 2024 SCORE SHEET

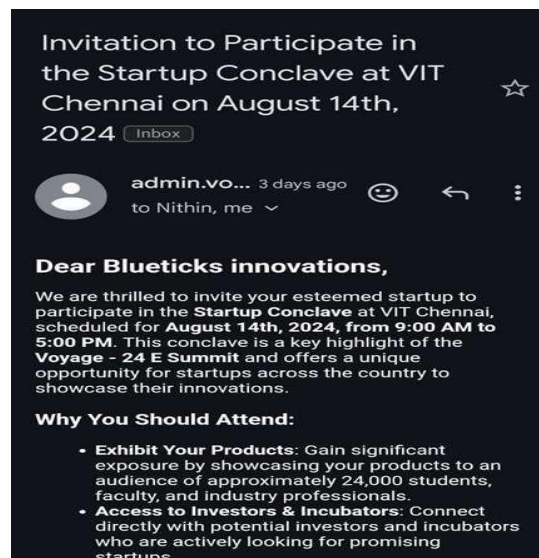
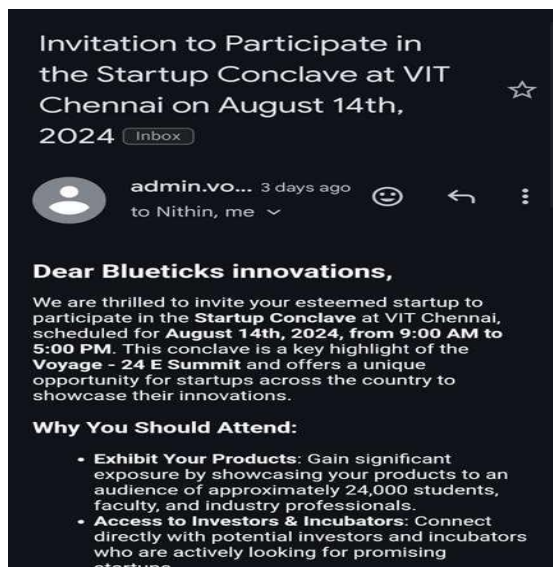
4/29/24, 10:15 AM

SAE-STAR Admin

Rank	#	Country	University (Team)	Design	Presentation	Mission	Tech Deduction	Score
9	212	Egypt	Alexandria Univ (Lycans)	33.6823	27.7000	0.0000	0.0	61.3823
10	229	Mexico	Universidad Autonoma de Baja California (RAMS Aerospace - UABC)	30.2574	26.1600	0.0000	0.0	56.4174
11	227	India	Dwarkadas J Sanghvi College of Engrg (DJS SKYLARK-ADVANCED)	24.0629	31.8600	0.0000	0.0	55.9229
12	224	India	Jyothy Institute of Technology (Garuthmaan)	18.1836	26.8100	0.0000	0.0	44.9936
13	215	India	Fr Conceicao Rodrigues College of Engrg (Team Vaayushastra)	12.8861	24.5700	0.0000	0.0	37.4561
14	225	Mexico	Universidad Nacional Autonoma de Mexico (UNAM)	8.5089	25.6100	0.0000	-3.0	31.1189

## STUDENT ENTREPRENEURSHIP

A startup, BLUE TICKS INNOVATIONS, of our institution owned by Mr. Satvik P Narayan, a student of Information Science and engineering is one amongst the top 15 startups (out of 150) shortlisted for the cohort in IIT, Mandi. The same company is invited to Startup conclave at VIT Chennai on 14<sup>th</sup> Aug 2024 to present the product of the company.



Mr. Mallikarjun, a student of electronics and communication engineering has been invited by East Africa to present his product biodegradable pouch for packaging material.


## ACCREDITATION TO CIVIL ENGINEERING PROGRAM

**राष्ट्रीय प्रत्यायन बोर्ड**

चौथा तल, ईस्ट टावर, एन. बी. सी. सी. प्लेस, भीष्म पितामह मार्ग, प्रगति विहार, लोधी रोड, नई दिल्ली -110003

**NATIONAL BOARD OF ACCREDITATION**

4<sup>th</sup> Floor, East Tower, NBCC Place, Bhisam Pitamah Marg, Pragati Vihar, Lodhi Road, New Delhi 110003



**NBA**  
NATIONAL BOARD  
OF ACCREDITATION

---

File No. 25-193-2017-NBA Date 08-07-2024

To  
The Principal  
Jyothy Institute of Technology,  
Tataguni, Off Kanakapura Road,  
Bengaluru-560062, Karnataka

**Subject: Further accreditation status of the program on the basis of Compliance Report submitted by Jyothy Institute of Technology, Tataguni, Off Kanakapura Road, Bengaluru-560062, Karnataka.**

Sir,

This is regarding Compliance Report submitted by **Jyothy Institute of Technology, Tataguni, Off Kanakapura Road, Bengaluru-560062, Karnataka** for the UG Engineering program which was accredited by NBA in Tier-II for Academic years 2021-2022 to 2023-2024 i.e. upto 30/06/2024.

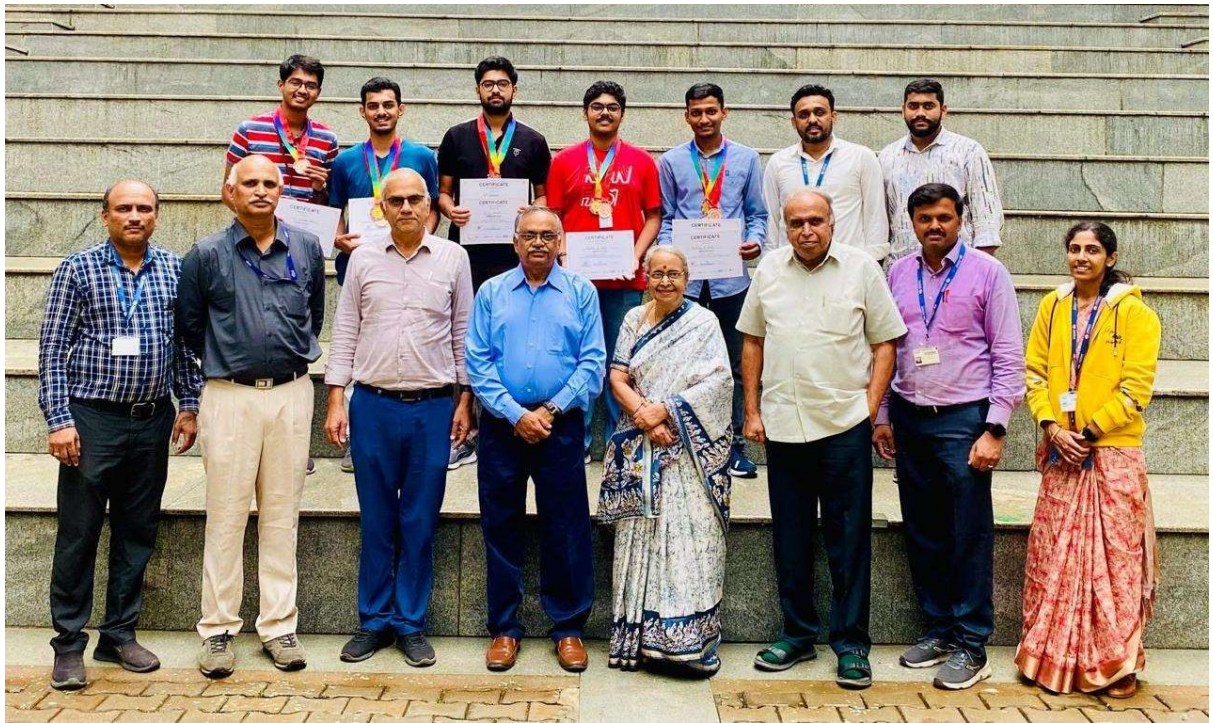
2. An Expert Team conducted data verification of the program on **1<sup>st</sup> June, 2024**. The report submitted by the Expert Team was considered by the concerned Committees constituted for the purpose in NBA. The Competent Authority in NBA has approved the following accreditation status to the program as given in the table below:

Sl. No	Name of the Program(s) (UG)	Basis of Evaluation	Accreditation Status	Period of validity	Remarks
(1)	(2)	(3)	(4)	(5)	(6)
1.	Civil Engineering	Tier-II June 2015 Document	Accredited	Academic Years 2024-2025 to 2026-2027 i.e. upto 30-06-2027	Accreditation status granted is valid for the period indicated in Col.5 or till the program has the approval of the Competent Authority, whichever is earlier

3. It may be noted that only students who graduate during the validity period of accreditation will be eligible to...

## ROBOT COMPETITION AT SINGAPORE

A batch of students from ECE program participated in the international robotic competition at Singapore University for Technology and Design, Singapore and won the third place (out of two categories namely, Smorphi Imaginary Robotics Challenge & Smorphi Single Robotics Challenge).





## Jyothy Institute of Technology Bengaluru



*Congratulations*

**Competitors From**

1. USA
2. Phillipines
3. Singapore
4. Malaysia
5. China
6. India









**We are happy to inform you that our team of**

<b>6th sem ECE</b> <ul style="list-style-type: none"> <li>• Sri Ranga Rao</li> <li>• Abhijay</li> <li>• Nitin</li> </ul>	<b>Mentored by</b> <b>Madhukar M</b> Assistant Professor Department of ECE	<b>4th sem ECE</b> <ul style="list-style-type: none"> <li>• A P Krishna</li> <li>• Sudhesh G Kote</li> </ul>
--	---	--

**JIT has secured a Third Position out of 55 teams in the category of Smorphi Imaginary Robotics Challenge and Smorphi Single Robotics Challenge in**  
**ROBOROARZ INTERNATIONAL**  
 held at  
**the Singapore University of Technology and Design**  
 from 13-14 July 2024.

# AICTE QIP PG CERTIFICATION

Two of our faculty, Dr. Srikeshava and Mr. Ganesh C R were selected (based on examination) for the AICTE QIP PG Certification Program.



**List of Selected Candidates under AICTE QIP PG CERTIFICATE PROGRAM**

S.No	Name of the Applicant	Email id of the Applicant	Parent Organization name	Parent Organization state	Institute Name	Emerging Area	Remarks
228	Dr. Sreekeshava K S	sreekeshava.ks@jyothyit.ac.in	Jyothy Institute of Technology	Karnataka	Indian Institute of Information Technology(IIIT), Nagpur	Artificial Intelligence and Machine Learning	Sponsored
237	Ganesh C R	ganesh.cr@jyothyit.ac.in	Jyothy Institute of Technology	Karnataka	Indian Institute of Information Technology(IIIT), Nagpur	Artificial Intelligence and Machine Learning	Sponsored

## ROBOTHON 2024, ROBOTIC COMPETITION AT JIT

Robothon 2K24, a prestigious 24-hour robotics competition, organized by the department of Electronics and Communication Engineering was held from July 5, 2024, to July 6, 2024 at Jyothy Institute of Technology, Bengaluru. This event was conducted as a part of the e-Yantra Lab established in ECE department at JIT. Robothon 2K24 brought together 52 teams from different states of India, each demonstrating their technical prowess and creativity in robotics. The success of the competition was significantly enhanced by the comprehensive support provided by Dr. K. Chandrasekhar, HOD-ECE, Dr.K.Gopalakrishna, Principal, the management. The competition was marked by a series of well-structured activities, including inauguration, progress checks, and final evaluations, and concluded with a grand valedictory function. The event was sponsored by IEEE, PANIC, Loginware, Skandish, Siri Technocrats, Technilab Instrument, RGS Instruments, Prolific and MachBee.



### ಯಶಸ್ವಿಯಾಗಿ ಜರುಗಿದ ರೋಬೋಥಾನ್

ಜಿತ್ಯೂನಿ ಸಾಂಸ್ಕೃತಿಕ ಮಹಾವಿದ್ಯಾಲಯದಲ್ಲಿ ಜುಲೈ 5 ಮತ್ತು 6ರಂದು ಜರುಗಿದ 'ರೋಬೋಥಾನ್-2024' ಸ್ಪರ್ಧೆ ಯಶಸ್ವಿಯಾಗಿ ಕೊನೆಗೊಂಡಿದೆ. ಈ ಸಂದರ್ಭದಲ್ಲಿ ವಿವಿಧ ರಾಜ್ಯಗಳಿಂದ ಭಾಗವಹಿಸಿದ 52 ತಂಡಗಳು ತಮ್ಮ ತಂತ್ರಜ್ಞಾನ ಮತ್ತು ಸೃಜನಶೀಲತೆಯನ್ನು ಪ್ರದರ್ಶಿಸಿದವು. ಈ ಸಂದರ್ಭದಲ್ಲಿ ವಿವಿಧ ರಾಜ್ಯಗಳಿಂದ ಭಾಗವಹಿಸಿದ 52 ತಂಡಗಳು ತಮ್ಮ ತಂತ್ರಜ್ಞಾನ ಮತ್ತು ಸೃಜನಶೀಲತೆಯನ್ನು ಪ್ರದರ್ಶಿಸಿದವು.





## TWO DAYS FDP ON SMART CITIES & MOBILITIES

JIT Conducted an FDP on Smart cities and Mobilities – a bilingual (Kannada & English) FDP sanctioned by AICTE with a funding of Rs.2. Lakhs. The FDP was held on 9<sup>th</sup> and 10<sup>th</sup> of Aug 2024. The chief guest was Dr. Chikkanna, BoS member VTU. There were 60 participants from various colleges.

**ಕೌಶಲ ತರಬೇತಿಯ ಕುರಿತು**

ಸ್ಮಾರ್ಟ್ ಸಿಟೀಸ್ ಮತ್ತು ಮೊಬಿಲಿಟಿ ಕುರಿತು ಎರಡು ದಿನಗಳ ಅಧ್ಯಾಪಕ ಕೌಶಲ ತರಬೇತಿ ಕಾರ್ಯಕ್ರಮವು ಜ್ಯೋತಿ ಅಂತರಿಕ್ಷ ಮಹಾವಿದ್ಯಾಲಯದಲ್ಲಿ, AICTE-VAANI (Vibrant Advocacy for Advancement and Nurturing of Indian Languages) ಧನಸಹಾಯ ಯೋಜನೆಯಡಿ ನಡೆಯಿತು. ಈ ಕೌಶಲ ತರಬೇತಿಯಲ್ಲಿ ಪ್ರಾದೇಶಿಕ ಭಾಷೆಗಳ ಮೂಲಕ ಜ್ಞಾನವನ್ನು ಪ್ರಚಾರ ಮಾಡುವಾಗ ತಂತ್ರಜ್ಞಾನದ ಉಪಯುಕ್ತತೆಯನ್ನು ನಮಗೆ ಅರ್ಥವಾಗುವಂತೆ ಮಾಡಿ ಪರಿಚಯಿಸಿತು. ಭಾಗವಹಿಸುವವರು ಸ್ಮಾರ್ಟ್ ಸಿಟೀಸ್ ಪರಿಕಲ್ಪನೆಯನ್ನು ಅವುಗಳ ಗುಣಲಕ್ಷಣಗಳು, ಪ್ರಯೋಜನಗಳು ಮತ್ತು ಯಶಸ್ವಿ ಕೆಲಸ ಸೈದಿಧ್ಯ, ಎಲ್ಲವನ್ನೂ ಸ್ಪಷ್ಟವಾಗಿ ಪರಿಚಯಿಸಿಕೊಳ್ಳುವುದು, ಕೈಪಿಡಿಯಾಗಿ, ಮುಂದುವರಿದ ಯೋಜನೆಗಳಿಗೆ ಮಾರ್ಗನೋಡಿಗಳನ್ನು ರಚಿಸಲು ಮತ್ತು ಹೊಸ ಸಂಶೋಧನಾ ಮಾರ್ಗಗಳನ್ನು ಅನ್ವೇಷಿಸಲು, ಕನ್ನಡದಲ್ಲಿ, ಪುಸ್ತಕಗಳ ಅಂಶಗಳಾದ ಅರಿವನ್ನು ಪಡೆಯಲು ಮಾರ್ಗದರ್ಶನ ನೀಡುತ್ತದೆ. ಕನ್ನಡದಲ್ಲಿ ಸಂಶೋಧನಾ ಲೇಖನಗಳನ್ನು ಬರೆಯುವವರು ಪ್ರತಿಷ್ಠಿತ ಜರ್ನಲ್ ಗಳಲ್ಲಿ ಪ್ರಕಟಿಸುವ ಸಾಮರ್ಥ್ಯವನ್ನು ಈ ಕಾರ್ಯಕ್ರಮವು ಒದಗಿಸುತ್ತದೆ. ಪ್ರಾದೇಶಿಕ ಭಾಷೆಯಲ್ಲಿ ಹೊಸ ದೇಶವಿತ್ತಿಗೆಗಳನ್ನು ಸಂಯೋಜಿಸುವ ಇತ್ತೀಚಿನ ಅಂತರಿಕ್ಷ ಜ್ಞಾನದ ಉಪಯೋಗವನ್ನು ಅನ್ವೇಷಿಸುತ್ತದೆ ಮತ್ತು ಪ್ರಾದೇಶಿಕ ಭಾಷೆಗಳ ಮೂಲಕ ಕಲಿಕೆಯ ಪ್ರಕ್ರಿಯೆಯನ್ನು ಬಲಪಡಿಸುವ ವಿಶೇಷ ಭಾರತ 2047 ಕನಸಿಗೆ ಇದು ವಿಶಿಷ್ಟ ಪ್ರಯತ್ನವಾಗಿದೆ.

**AICTE- VAANI ಬಗ್ಗೆ**

AICTE- VAANI (Vibrant Advocacy for Advancement and Nurturing of Indian Languages) ಯೋಜನೆಯ ತಂತ್ರಜ್ಞಾನದ ಪ್ರಚಾರವು ಎಲ್ಲ ಕಡೆಯಲ್ಲಿಯೂ ಪರಿಗಣಿಸಿ ಎಂಬ ಉದ್ದೇಶದಿಂದ ಪ್ರಾದೇಶಿಕ ಭಾಷೆಗಳ ಮೂಲಕವೂ ತಂತ್ರಜ್ಞಾನದ ಕಾರ್ಯಾಗಾರಗಳನ್ನು ಮಂಡಲು ಅಂತಿಮಗೊಳಿಸಿದೆ. ಕನ್ನಡದಲ್ಲಿ, ಸಂಶೋಧನಾ ಲೇಖನಗಳನ್ನು ಬರೆಯಲು ಪ್ರೋತ್ಸಾಹಿಸುತ್ತಿದೆ.

**ವಿಶ್ಲೇಷಣೆಯ ಅಂತಿಮ ಮಹಾವಿದ್ಯಾಲಯದ ಕುರಿತು**

ವಿಶ್ಲೇಷಣೆಯ ಅಂತಿಮ ಮಹಾವಿದ್ಯಾಲಯವು ಭಾರತ ದೇಶದ ಪ್ರಮುಖ ವಿಶ್ವವಿದ್ಯಾಲಯಗಳಲ್ಲಿ ಒಂದಾಗಿದೆ. 24 ವರ್ಷಗಳ ಅನುಭವಿ ವಿಶ್ವವಿದ್ಯಾಲಯ ಯಂದು ಗುರುತಿಸಿಕೊಂಡ ಇದು ಅಂತರಿಕ್ಷ ಶಿಕ್ಷಣ ಸಂಶೋಧನೆ, ಅಭಿವೃದ್ಧಿಗಳಲ್ಲಿ ವಿಶೇಷ ಮುಖ್ಯಾಂಶವನ್ನು ಸಾಧಿಸಿದೆ. ವಿಶ್ಲೇಷಣೆಯ ಅಂತಿಮ ಮಹಾವಿದ್ಯಾಲಯದ ಕೆಳಗೆ ಅನೇಕ ಅಂತರಿಕ್ಷ ಶಿಕ್ಷಣ ಸಂಸ್ಥೆಗಳು ಅಂಗಸಂಸ್ಥೆಗಳಾಗಿ ಸಮರ್ಥವಾಗಿ ಕೆಲಸ ನಿರ್ವಹಿಸುತ್ತಿದೆ.

**ಜ್ಯೋತಿ ಅಂತರಿಕ್ಷ ಮಹಾವಿದ್ಯಾಲಯದ ಕುರಿತು**

ಜ್ಯೋತಿ ಅಂತರಿಕ್ಷ ಮಹಾವಿದ್ಯಾಲಯವು 2011 ರಲ್ಲಿ ಪ್ರಾರಂಭವಾಗಿದೆ. ಕರ್ನಾಟಕ ರಾಜ್ಯೋತ್ಸವ ಪುಸ್ತಕ ವಿಶೇಷವಾದ ಧಾರ್ಮಿಕ ಪುಸ್ತಕ ದಿ|| ಡಾ|| ಬಿ.ಎನ್.ವಿ ಸುಬ್ರಮಣ್ಯ ಇವರು ಇದರ ಸಂಸ್ಥಾಪಕರು. ಈ ಸಂಸ್ಥೆಯಲ್ಲಿನ ವಿದ್ಯಾರ್ಥಿಗಳು ಅಧ್ಯಾಪಕ, ಒಂದುವಿಧ ಶಿಕ್ಷಣವನ್ನು ಪಡೆಯುವಂತೆ ಮತ್ತು ಉನ್ನತವಾಗಿದೆ ಮತ್ತು ಅನಿರೀಕ್ಷಿತ ಇದು ಸಾಧಿಸಿದೆ.

**ಮಹಾಪೋಷಕರು**

ಶ್ರೀಮತಿ ಬಿ ವಿ ಸೀತಾ ಚೇಲಾ ಪರ್ವಣ, ಜ್ಯೋತಿ ಅಂತರಿಕ್ಷಲಾ ಪ್ರಭು

**ಪೋಷಕರು**

ಶ್ರೀ ಎಮ್ ನರಸಿಂಹನ್  
ವೈಸ್ ಚೇಲರ್ ಪರ್ವಣ, ಜ್ಯೋತಿ ಅಂತರಿಕ್ಷಲಾ ಪ್ರಭು  
ಶ್ರೀ ಬಿ ವಿ ಸುಬ್ರಮಣ್ಯ  
ವಿವಾಕೇಶ್ವರ್, ಜ್ಯೋತಿ ಅಂತರಿಕ್ಷಲಾ ಪ್ರಭು  
ಶ್ರೀ ಬಿ ಕೆ ರಮೇಶ್  
ಇಂಡಸ್ಟ್ರಿಯಲಿಸ್ಟ್, ಜ್ಯೋತಿ ಅಂತರಿಕ್ಷಲಾ ಪ್ರಭು

**ಸಲಹಾ ಮಂಡಳಿ**

ಡಾ|| ಕೃಷ್ಣವೆಂಕಟೇಶ್, ನಿರ್ದೇಶಕರು, CIIC  
ಡಾ|| ಕೆ.ಗೋಪಾಲಕೃಷ್ಣ, ಪ್ರಾಂಶುಪಾಲರು, ಜ್ಯೋತಿ ಅಂತರಿಕ್ಷ ಮಹಾವಿದ್ಯಾಲಯ

**ತರಬೇತುದಾರರು**

1. ಡಾ|| ಪಿ.ಬಿ ಕೊಟೂರ, Corporate Leader L & T Technology
2. ಶ್ರೀ ಟಿ ಜಿ ಶ್ರೀನಿಧಿ, senior manager data engineering, TE Connectivity
3. ಡಾ|| ರಾಜೇಶ್ವರಿ, CEO Chisel Craft
4. ಡಾ|| ಗುರುರಾಜ್, ಪ್ರಾಧ್ಯಾಪಕರು, ಬಿ ಎಂ ಎಸ್ ಕಾಲೇಜ್
5. ಶ್ರೀ ಶ್ರೀನಿಧಿ ಕಲ್ಯಾಣಿ

**ಸಂಯೋಜಕರು**

- 1) ಡಾ|| ಚಂದ್ರಶೇಖರ್ ಕೆ (HoD, Dept. of ECE, JIT)
- 2) ಶ್ರೀ ಶ್ರೀನಿಧಿ ಪುಲ್ಕರ್ತಿ (Asst. Professor, Dept. of CSE, JIT)  
Ph: 9008663466  
E-mail: srinidhi.kulkarni@jyothyit.ac.in

**ಯಾರು ನೋಂದಾಯಿಸಿಕೊಳ್ಳಬಹುದು**

ಸಂಶೋಧಕರು, ಪ್ರಾಧ್ಯಾಪಕರು, ಸಹ ಪ್ರಾಧ್ಯಾಪಕರು, ಇಂಡಸ್ಟ್ರಿಯಲಿಸ್ಟ್, ಸ್ನಾತಕೋತ್ತರ ವಿದ್ಯಾರ್ಥಿಗಳು ಮೊದಲು ಬಂದವರಿಗೆ ಅರ್ಹತೆ

Registration Link: <https://forms.gle/TFp9w2Vz396932r8>  
Registration Fees: Nil.  
The selection is based on first come first serve basis.  
Resource persons:  
Eminent speakers from Renowned Universities and Industries




**AICTE - VAANI**  
(Vibrant Advocacy for Advancement and Nurturing of Indian Languages)  
ಧನಸಹಾಯ ಯೋಜನೆಯಡಿ

ಎರಡು ದಿನಗಳ ಕೌಶಲ ತರಬೇತಿ ಕಾರ್ಯಾಗಾರ

**ಸ್ಮಾರ್ಟ್ ಸಿಟೀಸ್ ಮತ್ತು ಮೊಬಿಲಿಟಿ**

ದಿನಾಂಕ 9 ಮತ್ತು 10 ಆಗಸ್ಟ್ 2024



Organized By  
**ಜ್ಯೋತಿ ಅಂತರಿಕ್ಷ ಮಹಾವಿದ್ಯಾಲಯ**  
**ತಾತಗುಣಿ, ಕನಕಪುರ ಮುಖ್ಯರಸ್ತೆ**  
**ಬೆಂಗಳೂರು 560082 ಕರ್ನಾಟಕ**

Ph: 90711 17475

ಮುಖ್ಯ ದಿನಾಂಕಗಳು

ನೋಂದಣಿ ಮಾಡಿಕೊಳ್ಳಲು ಕೊನೆ ದಿನ - 31/07/2024  
ಕಾರ್ಯಕ್ರಮ ಪ್ರಾರಂಭವಾಗುವ ದಿನ - 09/08/2024

AICTE- VAANI (VIBRANT ADVOCACY FOR ADVANCED AND NURTURING OF INDIAN LANGUAGE) CALENDER FOR 2024-25						
48.	GIET University, Gunupur	AE48D703	Odisha	09-08-2024	Advanced Computing (Supercomputing, AI, Quantum Computing)	Odia
49.	Jyothy Institute of Technology	4F16350B	Karnataka	09-08-2024	Smart Cities & Mobility	Kannada
50.	Shri Jairambhai Patel Institute of Business Management and Computer Studies	FF82195D	Gujarat	10-08-2024	Energy, Sustainability & Climate Change	Gujarati



## ABVP SRISHTI COMPETITION

JIT participated in the Srishti Design competition held at Nagarjuna College of Engineering from 24<sup>th</sup> to 26<sup>th</sup> May 2024. Many students participated in the event. Few of them won awards.



# JIT HACKATHON 2K24

JIT conducted the flagship technical national competition HACKATHON 2024.

It was conducted on 7,8 June 2024. It was a 24 hours hackathon event. It was conducted the Devfolio platform. Around 100 teams from Karnataka and other states such as Tamil Nadu, Kerala, Maharashtra and West Bengal participated in the event. Around 38 teams from JIT and 68 teams from other colleges have participated in the event. Mr. Vadiraj Beejadi, AVP, Accenture was the chief guest for the inaugural function. Mr. Piyush Ranjan, AVP and Dileep Padiya, AI Expert were the juries for the hackathon. Sports facilities like carrom, chess and table tennis were provided to the participants for recreation.

Following teams have won the prizes.

Prizes	Team	Institution
Winner	Extraterrestrials	Sri Eswar college of Engg
Runner	Mirage	DY Patil College of Engg
Consolation 1	Outsourcing	Jyothy Inst of Tech
Consolation 2	Snack overflow	MS Ramaiah Inst of Tech
Consolation 3	Dhwani	Jyothy Institute of Tech



# SAMSUNG INNOVATION CHALLENGE

As a part of the Samsung Innovation Challenge conducted by CoCreate, top 50 -teams from across Institutions were shortlisted. Five teams out of fifty teams from JIT are shortlisted for the competition. The details of the teams and selected students are as below: The students stand an opportunity to win prizes from Samsung and Funding from CoCreate.

The students are to attend the Final Pitchday Event on 27th August, 2024 in RVCE Auditorium, Bangalore.

## Team1

P2P Payment Networks	Jyothy institute of technology	Bangalore	Jahnavi P	jahnavi03p@gmail.com	1JT21AI017	6TH
P2P Payment Networks	Jyothy institute of technology	Bangalore	Yuvaraj S	yuvaraj35brave608@gmail.com	1JT21AI056	6TH
P2P Payment Networks	Jyothy institute of technology	Bangalore	Dayanand K	dayanandkda2003@gmail.com	1JT21AI013	6TH
P2P Payment Networks	Jyothy institute of technology	Bangalore	Adithya	adithya2002karnataka@gmail.com	1JT21AI001	6TH
P2P Payment Networks	Jyothy institute of technology	Bangalore	Sooraj GV	soorajgvaidya@gmail.com	1JT21AI047	6TH

## Team2

DECENTRALISED CREDIT LENDING SYSTEM	JYOTHY INSTITUTE OF TECHNOLOGY	Bangalore	SHIVAPRASA	shivaprasadas29@gmail.com	1JT21AI041	6th
DECENTRALISED CREDIT LENDING SYSTEM	JYOTHY INSTITUTE OF TECHNOLOGY	Bangalore	AMRUTHA SU	amruthasurabhi22@gmail.com	1JT21AI002	6th
DECENTRALISED CREDIT LENDING SYSTEM	JYOTHY INSTITUTE OF TECHNOLOGY	Bangalore	NANDAN KUM	nksmkn02@gmail.com	1JT21AI026	6th
DECENTRALISED CREDIT LENDING SYSTEM	JYOTHY INSTITUTE OF TECHNOLOGY	Bangalore	ANANYA V AD	ananyaadiga767@gmail.com	1JT21AI003	6th
DECENTRALISED CREDIT LENDING SYSTEM	JYOTHY INSTITUTE OF TECHNOLOGY	Bangalore	MOHAMMED S	mohammedsuhail5@gmail.com	1JT21AI023	6th

## Team3

Semiconductor cooling system using peltier effect	JYOTHY INSTITUTE OF TECHNOLOGY	Bangalore	Srisumukh NB	srisumukh343@gmail.com	1JT21EC075	6th sem
Semiconductor cooling system using peltier effect	JYOTHY INSTITUTE OF TECHNOLOGY	Bangalore	Harith C M	harithcm123@gmail.com	1JT21EC024	6th Sem
Semiconductor cooling system using peltier effect	JYOTHY INSTITUTE OF TECHNOLOGY	Bangalore	Adhijay K Bhat	adhijayrbhat@gmail.com	1JT21EC002	6th Sem
Semiconductor cooling system using peltier effect	JYOTHY INSTITUTE OF TECHNOLOGY	Bangalore	Udith Kumar AK	udithk754@gmail.com	1JT21EC082	6 sem

## Team4

Treatment of used books to remove ink	Jyothy Institute of Technology	Bangalore	Vishal M Koti	vishal1032100000@gmail.com	1JT21CS124	6th Sem
Treatment of used Books to remove ink	Jyothy Institute of Technology	Bangalore	Siddhartha Mahesha Pundit	siddhartha.pundit@gmail.com	1JT21CS102	6th Sem

## Team5

Industrial robotic arm which can sort different objects	Jyoti Institute of Technology, Bangalore	Bangalore	S Shasank Simna	itzcyphehexus@gmail.com	1JT21EC061	6th Sem
---	--	-----------	-----------------	-------------------------	------------	---------

## PROJECT EXHIBITION

The project exhibition competition for the final year students was held on 6<sup>th</sup> May 2024. The competition was held department wise. The juries were drawn from industry.

### AIML DEPT -Winners



### ISE DEPT- Winners



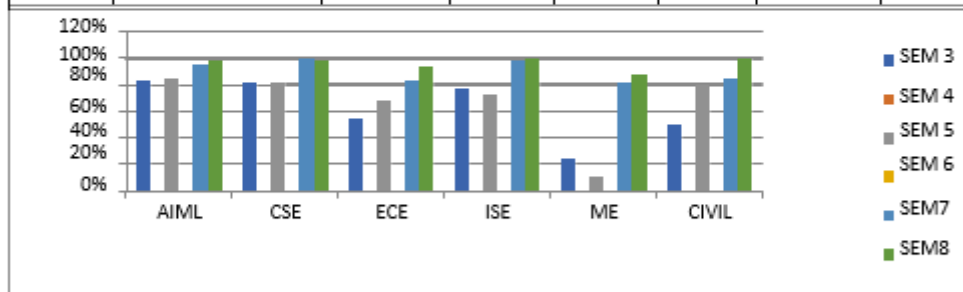
## PH.D AWARDED

Sl.No	Research Supervisor	Scholars
1	Dr.Balaji	Dr.Nayana Bhat
2	Dr.Kemparaju	Dr.Srelatha M
3	Dr. Chetana K	Dr. Somesh Nandi

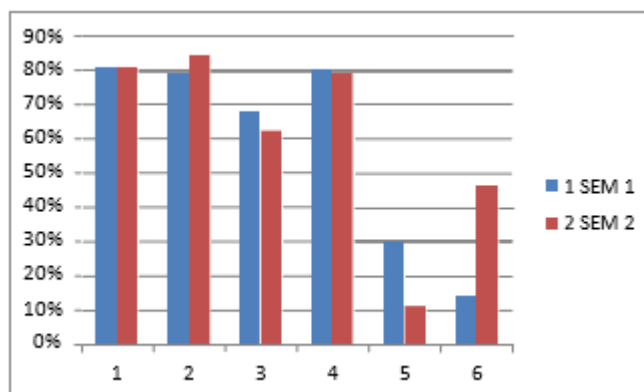
# RESULTS OF THE ACADEMIC YEAR 2023-24

## RESULT ANALYSIS ODD AND EVEN SEMESTER

Sl No	PROGRAMME	AIML	CSE	ECE	ISE	ME	CIVIL
1	SEM 3	84%	82%	54%	78%	24%	50%
2	SEM 4	NA					
3	SEM 5	85%	82%	68%	72%	10%	80%
4	SEM 6	NA					
5	SEM7	96%	99%	83%	98%	81%	85%
6	SEM8	98%	98%	94%	100%	87%	100%



Sl No	PROGRAMME	AIML	CSE	ECE	ISE	ME	CIVIL
1	SEM 1	81%	79%	68%	80%	30%	14%
2	SEM 2 (Before RV & Makeup)	81%	84%	62%	79%	11%	46%



## NIRF

JIT has been in the news regarding NIRF Rank ever since 2020. In the year 2020, JIT was in the 201-300 rank band in the NIRF ranking. In the year 2021, JIT could not make it into the ranking. However, JIT took entry into ARIIA 2021 ranking and secured a rank in the band of 25-50. The ARIIA ranking was scrapped and it was renamed as NIRF INNOVATION. In the year 2022, JIT secured Performance Band rating. In the year 2023, JIT ended up in the rank band of 101-150 in the NIRF INNOVATION ranking.

In the year 2024, JIT has not secured any rank, However, NIRF declared only 1- 50 rankings this year with a change in the parameters for assessment.

# SCHOLARSHIPS

JIT students were awarded with scholarship from various organizations. The Leela Poonawala Foundation has offered scholarships to 14 girl students based on Merit and income. The students would get the scholarship in the following years too based on their academic performance. The IEEE has awarded scholarship to 6 Girl students. The AICTE has been funding education of students from Kashmir. The state govt offers scholarship to students based on economic background. The SC/ST scholarships are in place.



Sl.No	Full Name	College Name	Stream
1	Deeksha Asha Subramanya	Jyothy Institute Of Technology	Computer Science Engineering
2	Saloni Nirmala Sanjeev Majannavar	Jyothy Institute Of Technology	Information Science Engineering
3	Harshitha Shankari Mani K	Jyothy Institute Of Technology	Computer Science Engineering
4	Lalitha Bhagyamma Raveesha Reddy	Jyothy Institute Of Technology	Computer Science Engineering
5	Rakshitha Raghavendra Rao	Jyothy Institute Of Technology	Electronics & Communication Engineering
6	Bhoomika Roopa Ravishaiah	Jyothy Institute Of Technology	Information Science Engineering
7	Yashaswini Gange Manjunatha	Jyothy Institute Of Technology	Computer Science Engineering
8	Varnika Venkatesh Murthy	Jyothy Institute Of Technology	Electronics & Communication Engineering
9	Shrilakshmi Triyambaka Hegde	Jyothy Institute Of Technology	Computer Science Engineering
10	Mahima Joseph Marcus	Jyothy Institute Of Technology	Electronics & Communication Engineering
11	Sinchana Vanishwari Vishwanath Patil	Jyothy Institute Of Technology	Electronics & Communication Engineering
12	Kushalini Sukrutha Umeha	Jyothy Institute Of Technology	Electronics & Communication Engineering
13	Poomima Narayana Reddy	Jyothy Institute Of Technology	Electronics & Communication Engineering
14	Anjali Gajanana Hegde	Jyothy Institute Of Technology	Computer Science Engineering
15	Namita Nitu Venkatesh	Jyothy Institute Of Technology	Information Science Engineering
16	Akanksha Krishna Kumar Dubey	Jyothy Institute Of Technology	Computer Science Engineering
17	Sinchana Geetha Puttaraju	Jyothy Institute Of Technology	Electronics & Communication Engineering
18	Likhitha Rathnamma Rajanna	Jyothy Institute Of Technology	Electronics & Communication Engineering
19	Nishmitha Somashekar K. S	Jyothy Institute Of Technology	Electronics & Communication Engineering

## DAY WORKSHOP ON FULL STACK DEVELOPMENT

A three-day workshop on full stack development using Django Framework was conducted by the Department of ISE at ECE Seminar Hall on 3rd, 4th, and 6th June, 2024.

The Workshop had the following Sessions

4 Sessions for 3 days

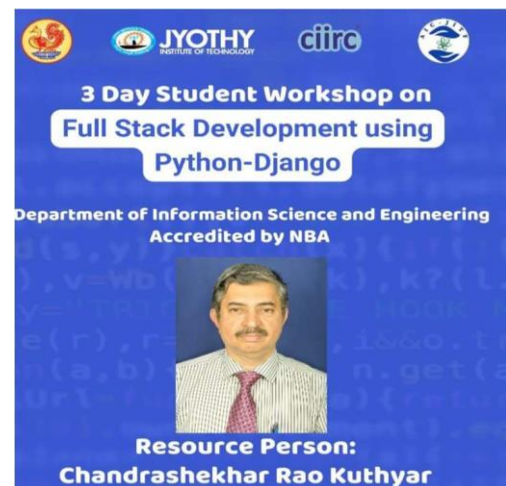
Session 1: 9:30 to 11:20

Session 2: 11:35 to 1:00 pm

Session 3: 2:00 to 3:30

Session 4: 3:45 to 4:30 pm

It went well and was appreciated by the students. The overall feedback was encouraging and on the concluding session, the external expert Chandrashekar Rao Kuthyar expressed gratitude to the Department of Information Science & Engg.





## A TWO DAYS' WORKSHOP ON JAVA SERVER-SIDE PROGRAMMING

The workshop was conducted by the Dept of ISE & CSI through the CSI chapter for the students of 4<sup>th</sup> semester ISE students on the 22<sup>nd</sup> and 23<sup>rd</sup> of July 2024. Prof. Nagaraj and Sri. Manjesh was the expert.

## MOU WITH WEFAA ROBOTICS

JIT has signed an MoU with WEFAA robotics, Singapore to train students on the design and development of Robots. The students were trained on two verticals

- i. Smorphi Imaginary
- ii. Smorphihands on.

After the training, a batch of students participated in the Robotics competition Roboroarz held at Singapore by SUTD. The students won the third place in two categories.

## EC COUNCIL FOR CYBER SECURITY CERTIFICATION

JIT signed an MoU with EC Council for professional certification in Cyber Security. The students can become certified ethical hackers after certification.



## CENTRE OF EXCELLENCE

JIT established a Centre of Excellence in Embedded Systems in collaboration with Login Ware Solutions. This company facilitates hands-on training, Consultancy, and placement.

## LEADERSHIP WORKSHOP

A leadership workshop for cooperative society personnel was held on campus sponsored by Maheshwaramma Cooperative Society on 10<sup>th</sup> Feb 2024.

## AIJYOTHY

A batch of students with the Head AIML and one of the faculty from the CSE dept developed this product AIJYOTHY. This is used to ask questions by students and the device will search the databases and get the correct answer.



## WOMAN CYBER SECURITY CELL

JIT established the woman's cyber security cell of our institution. The members of the cell initiate action on the cybercrime reported by staff/students on campus. The cell would suggest the next course of action to be taken including engaging the Private/Govt Cyber Crime stations.

## VTU SOUTHZONE VOLLEYBALL TOURNAMENT

The VTU SZ Volleyball tournament was inaugurated by Dr. Krishnappa, SAI, Blore and Sri. M.Narasimhan Trustee today.



## MARATHON

Marathon was organized at Jyothy Institute of Technology, on 10-02-2024, Saturday from 7.00 am onwards. Marathon was conducted for creating Cancer Awareness among students. The event was conducted under the banner of Rotaract club, JIT and IEEE Computer Society.

Dr. P S Raghavendra, Charter President of Rotary Bengaluru, Bharatha Vistara, was the chief guest.

Chief guest addressed the gathering and spoke about the prevention of cancer.

The Marathon was inaugurated jointly by chief guest Dr P S Raghavendra, Sri. Ramesh B K, Trustee, Jyothy Charitable Trust and Dr Gopalakrishna K, Principal, JIT. Chief guest, Principal, Heads of Departments, Teaching and non-teaching staff, students participated in the marathon. Marathon was for a distance of 5 KM, covering Rachenamadu.



## PUBLICATIONS, COPYRIGHT AND PATENTS (2024)

Sl. No	Name of the Patent (P)/ Copyright (C)	Authors
1	Beach sand Rover -Software (C)	Mr. Avinash and Students
2	Beach Sand Rover: Autonomous wireless Beach Cleaning Rover (P)	Mr. Avinash and Students
3	"Data Wizard": The ultimate machine learning solution	Dr. Madhu & Students
4	ScriptScribe: Empowering Less Known languages through Handwriting Recognition (C)	Sri. Srinidhi Kulkarni and Students

## NATIONAL SCIENCE DAY

JIT celebrated the national science day at our institution on 29<sup>th</sup> Feb 2024. Dr. Satish V Kailas, Professor of Mechanical Engineering, IISc, Bangalore.

## SPORTS AND GAMES

JIT won VTU institutional excellence award with a cash prize of Rs. 1,00,000/- in sports for the Academic year 2021-22. JIT earned 264 points for being host to various sports competitions and having won many sports competitions.

One of our students won the weight lifting bronze in this academic year.



**ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ**  
**Visvesvaraya Technological University**  
 (State University of Government of Karnataka Established as per the VTU Act, 1994)  
 "Jnana Sangama" Belagavi-590018, Karnataka, India

Prof. B. E. Rangaswamy  
 Registrar  
 Ref. No: VTU/BGM/PES/2024-25/ 1262

Phone : (0831) 2405468  
 Fax : (0831) 2405467  
 Date: 13 JUN 2024

To:  
 The Principal,  
 Jyothy IT,  
 Bengaluru

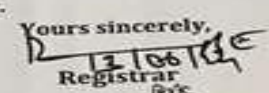
Sr.  
**Subject: Institutional Cash Awards for the year 2021-22 - reg.**

We are happy to inform you that, VTU is awarding Institutional Cash Awards for the year 2021-22 based on the points secured by the colleges. This Award is instituted under the Scheme for promotion of Sports to the Institutions by VTU. The following colleges have been selected based on the points secured by the colleges.

Sl No	Name of the Institutions	Previous year awarded	Points scored	Cash Award
1	Sahyadri CEM, Mangaluru	2015-16	553	1,00,000/-
2	KLS VD Institute of Tech., Haliyal	2014-15	305	1,00,000/-
3	G M Institute of Technology, Davangere	First Time	290	1,00,000/-
4	Jyothy Inst. of Technology, Bengaluru	First Time	264	1,00,000/-
5	Bengaluru Institute of Tech., Bengaluru	2014-15	261	1,00,000/-
6	S J B Institute of Tech., Bengaluru	2015-16	239	1,00,000/-
7	B N M Institute of Technology, Bengaluru	2015-16	217	1,00,000/-
8	K S Institute of Technology, Bengaluru	2015-16	190	1,00,000/-
9	G S S S IETW, Mysuru	First Time	187	1,00,000/-
10	East West Institute of Tech., Bengaluru	First Time	186	1,00,000/-

The Institutional Cash Awards will be awarded during the "Achievers Day Function" scheduled on 26<sup>th</sup> June 2024 along with the inauguration of 25<sup>th</sup> VTU Inter Collegiate Athletic Meet 2023-24" at VTU, Regional Office, Mysuru.  
 You are requested attend the award ceremony along with Physical Education Director to receive the award.

Thanking you,  
**NOTE: The Institutional Cash Awards will be awarded in person only.**

Yours sincerely,  
  
 Registrar



# JYOTHY PREMIER LEAGUE- FOR JIT FACULTY AND STAFF

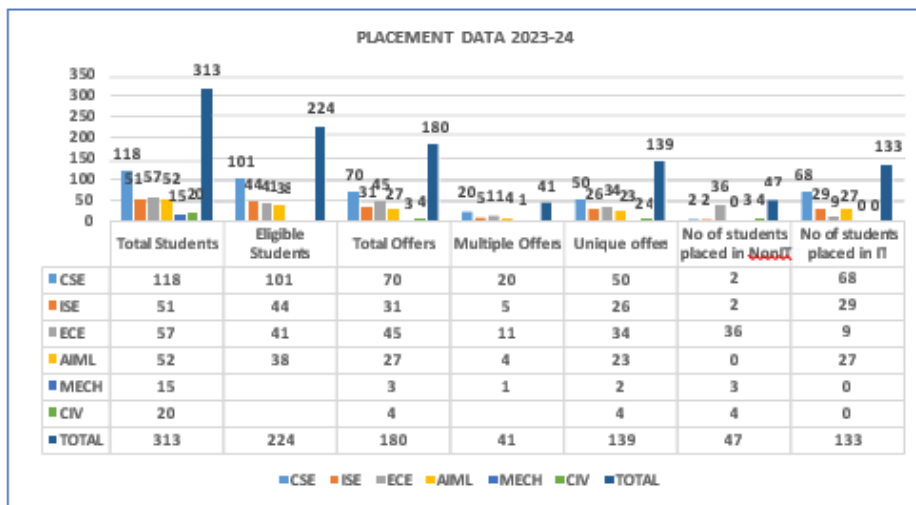
JIT conducts staff sports and games competition every year for the staff of JIT. The prizes for the winners will be distributed in the engineer's day on 15<sup>th</sup> Sep 2024.

Dr. Madhu won the TT championship held for the faculty at PESU Bangalore.



## PLACEMENTS 2023-24

Highest Package: 9.6 Lakhs (Smart Data Solutions) Next Highest: 8 Lakhs (Math Co), 7.56 Lakhs LGSOFT. Select Companies: Aidin, Smart Data Solutions, Optiv Nation, Shyena, Ace Micromatic, ITC Infotech, PEOL



## INTERNSHIPS OFFERED IN 2023-24

Total Number of Paid Internships: 95: Range of Pay: Rs.2000-45000/-  
SELECT: AIDIN, BENZ, SHEYNA, Etc

Happy to note that two of our students, one from 2014 batch and the other from 2023 batch are working as interns at Arizona State University USA under Dr. Bharatesh Chakravarthy, Assistant Professor, Arizona State University, USA.

# KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY(KSCST) PROJECTS SANCTIONED BY KSCST

FUNDED PROJECTS FROM KSCST							
YEAR	ME	CSE	ISE	ECE	CIVIL	AIML	TOTAL
2023-24	01(UG)+ 01(PG)	06	03	05	02 (PG)	05	23
2022-23	02	05	03	03	01		14
2021-22	2	1	2	2	2		9
2020-21	1	1	1	1	1		5
2019-20	1	2	1	1	1		6
2018-19	2			2	1		5
2017-18	2		3	2	1		8
2016-17	1	2		1	2		6
2015-16	2	2					4
							57

## KSCST AWARD

The project "Data Wizard" from AI&ML bagged the Best Exhibit Project Award in the 47th Series KSCST Annual State Level Poster Presentation and Project Exhibition held at Sharan Basava University, Kalburgi on 9<sup>th</sup> & 10<sup>th</sup> Aug 2024. The award includes a certificate with a cashprize of 1500/ batch member. By and Large, 48 projects were awarded as the best projects out of 6000 projects submitted to KSCST. This work has been copyrighted vide.



## NCC

The NCC unit of JIT has been performing very well. Several cadets have put on excellent performance. Mr. Vinod, selected for TSC IGC 2024, has achieved second place for the entire Karnataka and Kerala Directorate. CDT Sangeetha M has been selected for SNIC-2024. CDT Vivek G Vasistha has been chosen for AP Trek, Araku, AP. CPL Tharun Subramanaya has been chosen for RCTC Gwalior.

# PROUD NCC CADETS OF OUR INSTITUTION



**PRIZES WINNERS IGC/TSC: AUGUST 2024**

EVENT: RIZING DISTANCE

GROUP	REG NO	RANK	NAME
SW	BA KAZ20W13828	CDT	KARUNA
SO	BA KAZ20A10804	CDT	WIRANDY C M

EVENT: FIELD SIGNAL

SW	BA	KAZ20W13877	CDT	IRASHI DSHAL
SO	BA	KAZ20A02385	CDT	YSIRU VANDHAN B V S S S

EVENT: MR

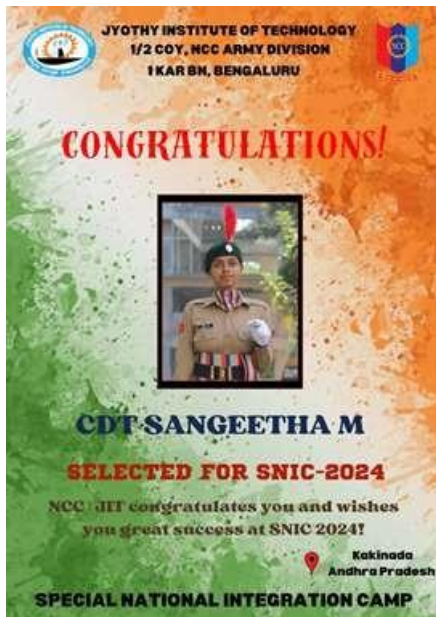
SO	BB	KAZ20A02709	LCPL	Vandany Prabhu
SW	BA	KAZ20W14101	CDT	BHUVANA M

EVENT: HIGH

SO	BA	KAZ20A02897	CDT	MADAN K S
SW	BB	KAZ20W02726	CDT	SHWETHA MAURITA

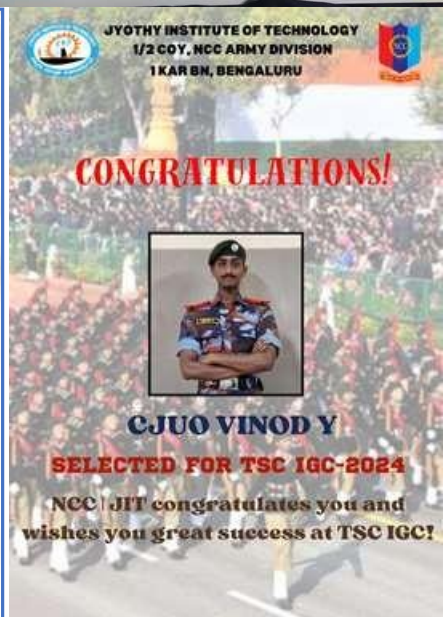
EVENT: FRING

EP-SD	BB	KAZ20A02870	SDO	PRVIN KUMAR R
EP-SW	BY	KAZ20W04029	JCO	SAMEENA ANJUM
EP-SD	MM	KAZ20A02998	LCPL	JYOTHRADITHYA B T
EP-SW	MM	KAZ20W04817	LCPL	SHRUTI C RAU
APPN-SD	MY	KAZ20A02835	CDT	LOKESH S
SNAP-SD	BB	KAZ20A22305	CDT	ANUSH KUMAR
SNAP-SW	BY	KAZ20W04265	CDT	M SAHANA
SNAP-SD	MM	KAZ20A02930	LCPL	ROSHAN VI
SNAP-SW	BB	KAZ20W02867	CDT	PRANNA S



**INTER GROUP COMPETITION / THAL SENNA CAMP / CATC-2024**

IN-REG GROUP	REG NO	RANK	NAME	UNIT	
1	BA	KAZ20A10803	CDT	YSIRU VANDHAN B V S S S	1 KAR BN
2	BA	KAZ20A10813	JCO	VINOD Y	1
3	BB	KAZ20A04098	LCPL	SHRUTI C RAU	1
4	BB	KAZ20A04029	CDT	SANJAY K RAMESH	39
5	BA	KAZ20A02867	CDT	KARUNA	1
6	MM	KAZ20A02998	CDT	ROSHAN VI	33
7	BA	KAZ20A02897	CDT	MADAN K S	1 KAR BN
8	MM	KAZ20A02930	CDT	ROSHAN VI	33
9	MM	KAZ20A02998	CDT	ROSHAN VI	33



## NSS

The NSS unit of our institution has been performing well. The NSS, NCC and sports have been included a single credit course into the curriculum of VTU. This unit regularly conducts Blood Donation Camp on campus. The Cauvery Blood Bank, a constituent unit of LIONS CLUB conducted the Blood Donation camp on our campus on 18-6 -2024. 100 units of blood was collected.



## FOREIGN LANGUAGE CLASSES

JIT senior students have been involved in coaching students on Japanese, Korean languages to students. Close to 100 students are learning Japanese and 10 are learning Korean. Two of our students were placed in Japan last year and in this year, ZENKEN Corporation have already interviewed couple of students for placement. Ms. SINCHANA Gajanan Hegde and Varsha N have cleared the N4 exams and are likely to be placed in ZENKEN.



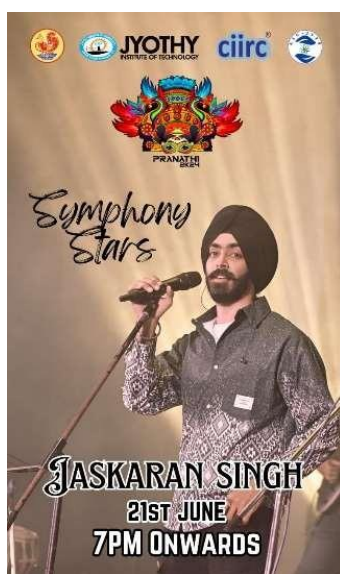
## FAREWELL TO FINAL YEAR STUDENTS

The farewell for the final year students was held on 25<sup>th</sup> May 2024. Dr. Subramanya Sharma and Mr. Srikanth Kadur, from AIDIN TECHNOLOGIES were the Chief Guest and Guest of Honor of the day. Sri. Narasimhan presided over the function. Ms. Chinmayi from CSE Department bagged the Gold Ring with citation. All other 11 finalists won silver ring with citation. Many thanks to Dr. H S Nagaraja for all the support and encouragement.



## PRANATHI 2024

JIT Celebrated the annual Cultural extravaganza, PRANATHI 2024 on 21st and 22nd of June 2024. Mr. DARSHAN NARAYAN, Mr. JASKARAN SINGH, Ms. SHIVANI NAVEEN and MysoreExpress Concert were the professionals who performed on stage. The college students and faculty also performed on stage. Several cultural competitions were conducted and the prizes were distributed by the juries who were from industry.



## CELEBRATION OF GURUVANDANA, THYAGRAJARA ARADHANE

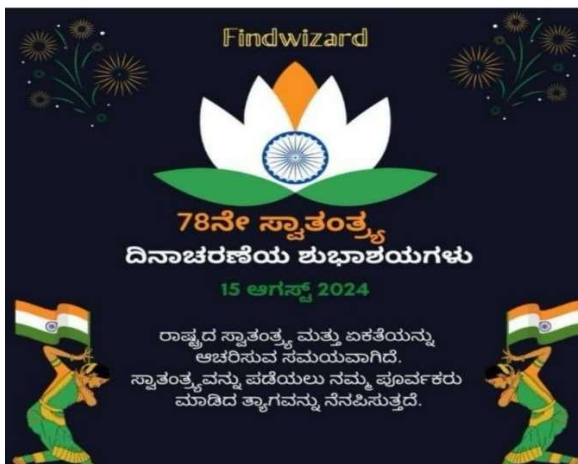
Report on Tyagaraja and Purandara Susmarane dt 26-02-2024

Tyagaraja and Purandaradasa Susmarane event was conducted under the banner of KalaMilana on 26-02-2024 from 03.30 to 05.00 PM, at the Main Auditorium, Jyothy Institute of Technology.

Around 20 students comprising of Vocalists, Violinists, Mridanga artists, Tabla artists, Harmonium artists etc, performed 2 Tyagaraja Pancharatna kritis and Purandara dasa Keerthanas. The event was well appreciated by faculty members and students' community. The artists were honored with appreciation letter and mementos.



## CELEBRATION OF INDEPENDENCE DAY 2024



## INTERNATIONAL DAY AGAINST DRUG ABUSE & ILLICIT TRAFFICKING

### International Day against Drug Abuse and Illicit Trafficking Event

The International Day Against Drug Abuse and Illicit Trafficking, observed on June 26th each year, serves as a reminder of the global effort to combat drug abuse and trafficking. This day raises awareness about the devastating impact of illicit drugs on individuals, families, and communities worldwide. It emphasizes the need for preventive measures, treatment programs, and international cooperation to tackle this complex issue effectively.

Drug addiction is a global problem. Youngsters around the world are known to consume drugs of different kinds. Unfortunately, a large number of youngsters who take drugs belong to India. This is because corruption lies at the heart of our country. Illegal supply of drugs is common in India. Drug suppliers target the youth of our country to boost their sales. Young people often fall prey to them and ruin their future.

Addictions are causing various kinds of physical and mental health problems among the youth. These problems may seem small initially, however, most of them aggravate with time and can prove to be life threatening. It is important to address them on time to save the future of the youth of India.

Chief Guest	Mr. Venkatesh K, Circle Inspector of police, Kaggalipura police station
Presided by	Dr. Prabhanjan S, HOD, Dept of CSE
ANO	Lt. Dr. Manoj Kumar M
Faculty	05
Police staff	05
Total No. of cadet	30 Cdts
No. of participants	180 students



## INDUSTRIAL VISITS

Industrial Visit of ISE students to MCF Hassan

On the 28th of June 2024, the students of 4<sup>th</sup> semester ISE had the unique privilege of visiting the Indian Space Research Organisation's (ISRO) Master Control Facility (MCF) located in Hassan. The visit provided us with a comprehensive insight into the intricate world of satellite technology, its functions, and the impressive efforts that go into managing space operations.



## Industrial visit of AIML students to U R RAO Satellite Centre (URSC)

The Dept of AI & ML organized a one-day industrial visit to URSC to provide participants with an in-depth understanding of satellite development and the various technologies involved in space missions. The purpose of our industrial visit to ISRO Bangalore was to gain firsthand knowledge and insights into the functioning of one of the world's leading space research organizations.



## Industrial visit of CSE students

Around 80 students from our department participated in the industrial visit. Students at MCF were guided by a senior person of the company, where he gave a brief introduction on India's space program and the role of MCF in monitoring the satellites. Later an elaborated video was shown explaining various work done at the MCF and on the progress achieved by ISRO. Students got the opportunity to learn about the various types of satellites present in the orbit ranging from 400kms upto 40000kms and beyond. Also, they have learnt about the history of astronomy and India's journey in this field from Aryabhatta to IRNSS.

Students got the opportunity to know about the different stages of GSLV rocket starting from booster, liquid core stage, cryogenic stage and payload released in the space. They learnt how the Geostationary and Geosynchronous satellites are launched in the orbit and are controlled from ground station located at Hassan and Bhopal. Students viewed 11-13m antennas spread over the vast area of MCF.



## INDUSTRIAL VISIT TO BIS BY STUDENTS OF ECE

Department of ECE, JIT, organized an industrial exposure visit on 22<sup>nd</sup> February 2024 to the Bureau of Indian Standards located at, Jalahalli Metro, Peenya Industrial Area 1<sup>st</sup> Stage, Tumkur Rd, Vivekananda Nagar, Peenya, Bengaluru, Karnataka 560058 for the students of ECE.



## INTERNATIONAL CONFERENCE

IEEE Conference & Events

### 2025 International conference on computing Technologies (ICOCT)

JIT is conducting an international conference on Computing Technologies on 13<sup>th</sup> and 14<sup>th</sup> June 2025. The authors have been asked to submit articles in the following domains:

**Track 1:** Data Science & Engineering Big Data Analytics High-Performance Computing Computational Biology & Bioinformatics Data-Centric Programming Data Modeling & Semantic Engineering Data, Text, Web Mining, & Visualization Domain-Specific Data Management Knowledge.

**Track 2:** Computing Technologies Algorithms Programming Languages Computing, Architectures and Systems Computer Graphics, Vision and Animation Software and Database System Multimedia Engineering Networks, IoT and Cyber Security Cluster, Cloud, & Grid Computing.

**Track 3:** Computational Intelligence Data Mining Neural Networks and Deep Learning Meta heuristic, algorithms Machine Learning

IEEE Conference & Events Search Results

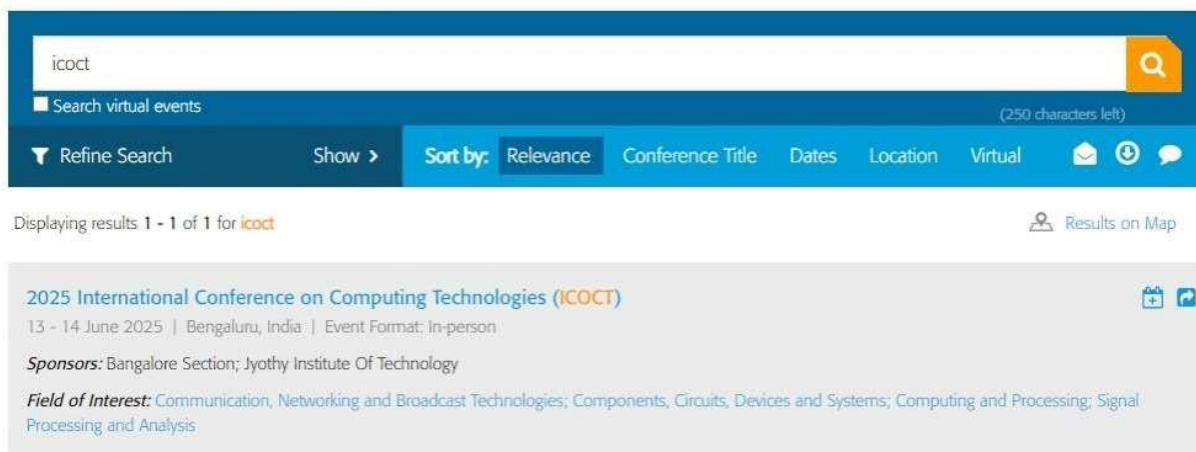
**Date:** 13 - 14 June 2025

**Location:** Bengaluru, India Event Format: In-person

**Sponsors:** Bangalore Section; Jyothy Institute of Technology

**Call for Papers Deadline:** 5 December

## IEEE Conference Search Results



Search results for 'icoct' showing the 2025 International Conference on Computing Technologies (ICOCT) details.

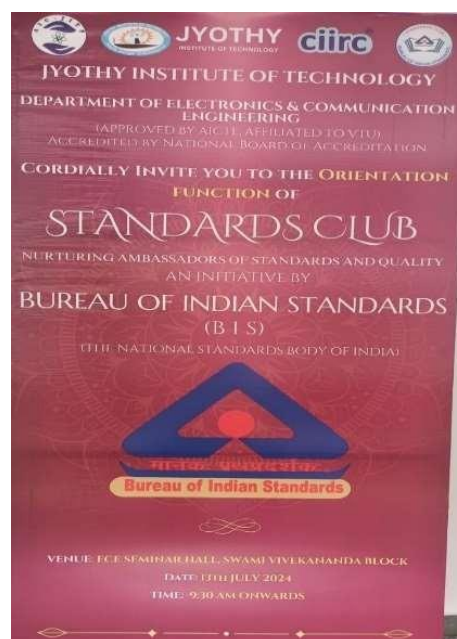
2025 International Conference on Computing Technologies (ICOCT)  
13 - 14 June 2025 | Bengaluru, India | Event Format: In-person  
Sponsors: Bangalore Section; Jyothy Institute Of Technology  
Field of Interest: Communication, Networking and Broadcast Technologies; Components, Circuits, Devices and Systems; Computing and Processing; Signal Processing and Analysis

## ORIENTATION PROGRAM ON STANDARDS

JIT conducted an orientation workshop on Indian Standards supported by Bureau of Indian Standards on 13th Feb 2024. The formal inauguration of the Standards club was done by Dr. Bhanuprakash, BIS member, Former Director 'E.' The orientation program was conducted for the students of ECE dept to create an awareness on Standards and its uses. JIT also started a Standards club to spread the awareness about Indian Standards among all stakeholders. BIS also conducted a competition VIRTUAL TALENT HUNT as a part of Standards day to students from various colleges.

The following students from Department of ECE under the mentorship of Sumangala Gejje participated and won prizes in VIRTUAL TALENT HUNT, organized by BUREAU OF INDIAN STANDARDS, BANGALORE

- 1st prize-poetry: Harith C M Rs. 5000 Cash Prize
- 2nd prize-Painting - Bhumika G Nadig, Rs.2500 Cash prize
- 3rd prize-poetry- Abhijat R Bhat Rs.1,000.



## **OVERSEAS EDUCATION**

JIT has established Overseas Education Help Desk (OEHD) taken care of by a senior faculty member who coordinates seminars by reputed organizations providing overseas education services, in terms of highlighting higher studies opportunities available in universities abroad. The OEHD serves the need of the fourth and sixth semester students of all branches. Jitians nurture the idea of continuing their master's in countries such as Australia, Canada, Germany, Ireland, Netherlands, Singapore, the UK, and the USA. Since it requires more than a year from the time of planning till the time the confirmed letter of admission is received, and finally visiting the consulate/embassy for the visa, and preparing for travel, general awareness meetings and programs are organized to help students keep abreast of university selection, fees, credits, application process, preferences, CGPA required, language proficiency requirements, LORs and SOP. Senior faculty support the OEHD by providing students with strong LORs to reinforce their candidature for admission. Approximately, a tenth of the students graduating from JIT proceed for their higher studies abroad every year.

## **PMSSS**

JIT is registered for the Prime Minister's Special Scholarship Scheme for Jammu & Kashmir students. As its Chairman, the Principal has nominated two faculties as Nodal Officers to directly interact with AICTE PMSSS J&K for official pursues. Nodal Officers are also mentors for the PMSSS J&K students. Students admitted through this scheme are awarded scholarships to meet their expenditure towards tuition fees, and maintenance (hostel, mess, cost of books and other incidental expenses).

## **HEALTH CARE**

One's health is very important and is critical to achieve his/her goals. To this end, JIT, according paramount importance to the health its faculty, staff and students, has established a Primary Health Care Centre equipped with first aid kit, medical bed stretcher, and an evacuation wheel chair in case of an emergency

## **MEMBERS OF INSTITUTION**

Jyothy Institute of Technology is an Institutional Member of the following professional bodies:

- Board for IT Education Standards (BITES)
- Computer Society of India (CSI)
- Indian Concrete Institute (ICI)
- Institution of Engineers (IE)
- Institution of Electrical and Electronics Engineers (IEEE)
- Institute of Electronics and Telecommunication Engineers (IETE)
- Indian Society for Technical Education (ISTE)
- Indian Green Building Council (IGBC)
- Society of Automotive Engineers (SAE) - Student Chapter

## **REASERCH CENTERS**

Following is the list of Research Centres at JIT approved by VTU:

- Bio Technology
- Chemistry
- Civil Engineering
- Computer Science and Information Science Engineering
- Electronics and Communication Engineering
- Food Technology
- Material Science and Engineering
- Mathematics
- Mechanical Engineering
- Physics
- Polymer Science

## COLLEGE COMMITTEES

The following Committees have been constituted at JIT to ensure effective governance at the campus:

- Alumni Interaction Cell
- Infrastructure Development Committee
- Anti-Ragging Committee
- Internal Complaints Committee
- Anti-Ragging Squad
- JITimes Magazine Committee
- Anti-Sexual Harassment Cell
- Jyothy Cultural Committee
- Anti-Sexual Harassment Squad
- Jyothy Sports Activity Team
- Ethics & Discipline Enforcement Cell
- Magazine Newsletter Team
- E-Works Cell
- Proctorial Team
- Grievance Redressal Cell
- SC/ST/OBC Welfare Committee
- Hostel Management Team
- Time Table and Exam Committee
- Central Mentoring Cum Counselling Committee

## PTM

All departments conduct regular Parent-Teacher Meeting to hear any grievance from parents. A detailed academic performance report of their student is presented during this meet for their scrutiny. Both students and parents can submit their suggestions, if any, on the website through the e-JIT gate way. A grievance redressal cell, headed by the Vice Chairman, directly addresses grievances at the earliest possible.

## **CDP**

Community Development Program (CDP) is an annual voluntary initiative taken up by JIT for children of rural government schools. Its objective is to proactively contribute to the overall development of rural school children. As part of the program, school children from villages adopted by JIT, are invited to the campus at a time convenient to them to work on instrumentation related to the concepts of science and mathematics. They are given practical, hands-on training on the use of such scientific instruments so as to instill in them an eagerness to explore new frontiers of science and technology.

## **AISHE**

JIT is registered with the All-India Survey on Higher Education. The survey covers institutions engaged in imparting higher education. Data is collected on parameters such as teachers, enrolment, programs, exam results, education finance, and, infrastructure. Indicators of educational development such as institution density, enrolment ratio, pupil-teacher ratio, gender parity, and per student expenditure are calculated from this data. These are useful to frame policy decisions and research for development of education sector.

## **E-SHIKSHANA**

The institution is part of E-Shikshana, an e- learning platform offered through the VTU e- Learning Centre. The Centre at VTU has taken up a new initiative in enriching student knowledge and empowering education through implementing this powerful, virtual interactive e-learning platform. The platform enables VTU students to interact with eminent scholars in an immersive e-learning environment. JIT facilitates this value-based program by extending all facilities essential for the same.

# GAMEATHON 6.0

**Insta Link:** bitsnbytes

**Start Date:** 07/12/2023

**End Date:** 08/12/2023

**Number of Students Participated:** 600

**Number of Faculty participated:** 30

**Number of Externals participated if any:** 320

**Expenditure amount if any:** ₹Rs. 5 lakh (approximately)

**Remarks:** Gameathon 6.0, a renowned global event organized by the esteemed BitsnBytes Club of the Information Science division, took place on 7th and 8th of December, 2023. This flagship event, characterized by its robust history and escalating participation rates, experienced a remarkable turnout. Participants engaged enthusiastically in crafting their unique games. Notably, the event benefitted from the expertise of judges hailing from Zimbabwe, contributing to the event's diversity and global representation.

**Objective:** Gameathon mandates participants to craft a game within a 24-hour timeframe, unveiling the theme a dozen hours before commencement. Acknowledging excellence beyond mere winners and runners, distinctions await for exceptional character design, captivating music, and compelling storyline. The total prize pool allocated for this esteemed event amounts to \$2000, promising recognition and reward for prowess across these creative facets.

**Benefits in terms of learning/ Skill/ Knowledge obtained:** Participation in the Gameathon presents an invaluable opportunity for individuals keen on the gaming realm. Through this event, participants gain hands-on experience and proficiency in a diverse array of essential tools like Unity, Blender, Photoshop, Spriter, Audacity, and more. Beyond skill enhancement, it serves as a substantial platform for aspiring gaming enthusiasts, offering exposure and networking within the industry. The Gameathon cultivates not just technical prowess but also fosters collaboration, problem-solving, creativity, preparing participants for the multifaceted demands of the gaming field while facilitating a significant leap in their understanding and expertise.



# SIH-2023 INTERNAL HACKATHON

Date of event: 04-09-2023

Semester: Students of all programs

No. of Students Participation: 30 teams (30 x 6 = 180 students)

Event Coordinator: Prof. Nagaraj. A, CSE  
Prof. Srinidhi Kulkarni, CSE  
Prof. Manjesh B N , ISE  
Prof. Archana V R, AI ML

SIH-2023 Internal Hackathon was conducted on 04-09-2023. The event was hosted under the banner of JIT Tech Club and CSI Student Chapter.

180 software problems and 50 hardware problems were listed in the SIH-2023 website.

Mr. Vikas Bholotia, CEO, Euphoria Technologies and Ms. Raksha, Software Engineer, Philips were the judges for the event. 30 teams participated in the event.

We thank The Principal, JIT and JIT Management for approving the cash prizes for the first 3 teams. We thank all the Heads of Departments for their help in conducting the event.

We express our heartfelt gratitude to all the teaching and non-teaching staff of JIT for their direct and indirect support in making the event a success.

This report is prepared by Prof. Nagaraj A, Associate Professor, Dept of CSE.

CSI Coordinators :

Prof. Srinidhi Kulkarni, JIT TechClub Coordinator and SIH-2023 SPOC, CSE  
Prof. Nagaraj. A, CSI Coordinator, CSE  
Prof. Manjesh B N, CSI Coordinator, ISE  
Prof. Archana, V R, CSI Coordinator, AI&ML



# ENIGMA: A TECHNICAL EXTRAVAGANZA

**Start Date:** 22/12/2023

**End Date:** 23/12/2023

**Number of Students Participated:** 270

**Number of Faculty participated:** 45

**Number of Externals participated:** 146

**Expenditure amount if any:** ₹ Rs. 3.5 lakh (approximately)

**Remarks:** ENIGMA was an event of one of its kind in which the problem statements were taken from corporate industries and was posted to the participants 2 days earlier with initial challenge of 8 requirements. On the day of the event, few more critical requirements were given to the participants and were asked to integrate the solution as a whole. The participants were enthusiastic in approaching the problem statement and solving the challenge. Overall, all participants had a great time and enjoyed the ENIGMA challenge.

**Objective:** ENIGMA, a 24-hour immersive event, tests participants' technical prowess and creativity. Focused on AI, ML, and cutting-edge tech, teams collaborate to solve real-time IT challenges, addressing the latest trends. A demanding test of skills, ENIGMA evaluates technical expertise and innovative problem-solving. The event fosters competition and collaboration, providing a platform for participants to showcase abilities in information technology. Prizes and recognition await those who excel, making ENIGMA a dynamic arena where talent shines in the ever-evolving landscape of emerging technologies.

**Benefits in terms of learning/Skill/Knowledge obtained (in 150 letters):**

ENIGMA provided invaluable learning experiences. The challenges presented were authentic issues encountered by industry professionals, fostering practical problem-solving skills. Participants gained insights, enhancing their critical thinking and creativity. Emphasizing teamwork, the event encouraged collaboration and idea exchange. Carefully crafted challenges evaluated and elevated participants' skills. With a focus on AI, ML, and cutting-edge technologies, ENIGMA aligned with the forefront of the IT landscape. Participants applied theoretical knowledge to real scenarios, honing expertise in advanced fields. This hands-on approach deepened understanding and application of concepts. ENIGMA served as a dynamic platform, not only for competition but as a crucible for cultivating skills, fostering innovation, and preparing participants for the challenges of contemporary IT environments.



# ROBOTHON

Robothon-2024, a 24-hour robotics competition, was launched on June 25, 2024, at Jyothy Institute of Technology, organized by the Electronics and Communication Department in collaboration with e-Yantra lab and IEEE JIT SB. The event aimed to inspire students in robotics, attracting around 100 students from various branches. The competition, scheduled for July 5-6, 2024, included teams from across India.

## **Day 1 - July 5, 2024:**

The inauguration ceremony featured guests like Mr. Jaison Jose from IIT Bombay and Dr. K Chandrashekar. The principal, Dr. K Gopalakrishnan, announced plans for an international Robothon in collaboration with Skandish Ventures. Following the opening, Phase 1 and Phase 2 evaluations were conducted, with a flash mob providing a lively break for participants.

## **Day 2 - July 6, 2024:**

Phase 3 evaluations concluded the competition, and the valedictory ceremony recognized the top three teams:

- First Place: Robo Dudes, Maharaja Institute of Technology Mysore
- Second Place: IRIS, NMAM Institute of Technology, Nitte
- Third Place: WSR, NMAM Institute of Technology, Nitte

Consolation awards were given to four other teams. The event successfully showcased innovation and dedication, and excitement is building for the international Robothon in 2025.



# PRANATHI 2K24

## INTRODUCTION

Pranathi 2k24, the annual cultural fest, was a grand celebration held on the 21st and 22nd of June 2024, bringing together students, faculty and guests for two days of exhilarating activities, competitions, and performances. This year's fest aimed to showcase the diverse talents of students and foster a spirit of camaraderie and cultural appreciation.

## DAY 1: 21ST JUNE 2024

### INAUGURATION CEREMONY

The fest began with a vibrant inauguration ceremony attended by the Principal, the Trustees and faculty members. The chief guests, V Manohar and Snake Shyam delivered an inspiring speech emphasizing the importance of cultural events in holistic student development.





## COMPETITIONS

The first day featured a variety of competitions that highlighted the diverse talents of the participants:

- Western Vocal Solo: Participants showcased their vocal skills in Western music genres.
- Duet Singing: Duos performed songs in perfect harmony.
- Group Song: Singing groups presented coordinated performances.
- Quiz: Teams competed to answer questions on a range of topics.
- Classical Vocal Solo: Singers performed classical music pieces.
- Instrumental Solo: Musicians displayed their prowess with various instruments.
- Beat Boxing: Contestants impressed with their beatboxing skills.
- Light Vocal Solo: Participants sang light music pieces.
- Collage: Students created artistic collages on given themes.
- Spot Painting: Artists painted creative pieces on the spot.
- Creative Photography: Photographers captured stunning images.
- Debate: Teams debated on various contemporary issues.
- Elocution: Participants delivered speeches on selected topics.
- Clay Modelling: Artists sculpted impressive clay models.
- Fashion Show: Participants walked the ramp in creative and traditional attire.
- Solo Ramp: Individuals showcased their ramp-walking skills.

## SPECIAL PERFORMANCE

In the evening, the audience was treated to a spectacular performance by the Symphony Stars, featuring Darshan Narayan, Shivani Naveen, and Jaskaran Singh. Their melodious renditions and captivating stage presence were a highlight of the day.



## **DAY 2: 22ND JUNE 2024**

### **COMPETITIONS CONTINUE**

The second day continued with more engaging competitions:

- Duet Dance: Pairs performed coordinated dance routines.
- Western Solo Dance: Solo dancers showcased their Western dance styles.
- Classical Dance Solo: Dancers performed classical dance forms.
- Skit: Theatre groups enacted short plays.
- Mad Ads: Teams created humorous advertisements.
- Standup Comedy: Comedians entertained with their humor.
- Rangoli: Participants designed colorful rangoli patterns.
- B Boy: Breakdancers impressed with their moves.
- Best Out of Waste: Creative projects made from waste materials.
- BGMI Solo/Squad: Gamers competed in solo and squad matches in BGMI.
- Free Fire Squad: Teams battled it out in Free Fire matches.
- Treasure Hunt: Teams solved clues to find hidden treasures.
- Poster Project: Creative poster designs on various themes.
- Dumb Charades: Teams acted out phrases without speaking.
- Cartooning: Artists drew humorous and satirical cartoons.
- Creative Clash (Digital Designing): Digital artists competed in creating unique designs.
- Choreography: Dance teams performed choreographed routines.

### **SPECIAL PERFORMANCE**

The Mysore Express band performed in the evening, energizing the crowd with their dynamic music and engaging stage presence. Their performance was a fitting finale to the day's events.



## **CLOSING CEREMONY**

The fest concluded with a grand closing ceremony, where winners of various competitions were awarded trophies and certificates. The Principal gave a closing speech, congratulating all participants and organizers for making Pranathi 2k24 a huge success. The ceremony ended with a spectacular fireworks display, leaving everyone with unforgettable memories.

## **CONCLUSION**

Pranathi 2k24 was a vibrant celebration of culture and talent, providing students with a platform to showcase their skills and creativity. The fest was a resounding success, thanks to the hard work and dedication of the organizers, participants, and volunteers. It not only entertained but also inspired everyone involved, leaving a lasting impact on the entire college community.

# OPEN DAY REPORT

A one day “open –day” was organized for the students of the following PU colleges

in our JIT campus:

- Jyothy kendriya vidyalaya PU college, Yelachenahalli.
- Adhyayana PU college, Kengeri.
- Kumarans PU college, Padmanabhanagar.

The students along with their faculty members got an opportunity to visit and experience our JIT campus first hand. Buses were arranged from the college both to

and fro to ease and make the students comfortable.

The event started with our principal Dr.K Gopalkrishna addressing the students in

our auditorium and he gave a glimpse of the campus and various activities performed in the CIIRC, with a ppt presentation.

The students were then divided into ten batches along with a faculty coordinator from our college and were given a guided tour of various departments of CIIRC.

A sumptuous lunch was arranged for everyone including the students which they relished thoroughly. Books and pens were distributed to the students from the college.

The students thoroughly enjoyed the visit as they got familiarized with the facilities and the college’s learning culture. They toured the college, observed teacher-student interactions and got “behind the scenes” look into college life.

The event concluded by 3.30 pm and the students were safely dropped back to their college.

Event Organizers:

Dr. Madhusudhan, Hod dept. of Mathematics.

Dr. Vishwanath, Hod dept. of Chemistry.





## INDUCTION PROGRAMME

Induction is a part and parcel of any engineering colleges as per the VTU guidelines for the first-year batch students. During this induction programme, colleges have to brief about the new curriculum implemented from the academic year 2023-24.

The induction programme creates an atmosphere that minimizes anxiety, promotes positive attitude and stimulates an excitement for learning. The first semester classes for the batch of 2023-24 started off on a positive note with students geared up to join the portals of our college. The atmosphere at JIT was vibrant with the corridors filled with bustling sound of newly admitted students

Hence a one-week induction was conducted for the first-year batch-2022 in our college from 19/9/23 to 22/9/23 from 9.30am to 4pm in our campus. A neat and well-maintained timetable was chalked out catering to the needs of the young minds to make it interesting, informative and entertaining.

The first semester classes for the batch of 2022-23 started off on a positive note with students geared up to join the portals of our college. The atmosphere at JIT was vibrant with the corridors filled with bustling sound of newly admitted students.

Jyothy Institute of Technology hosted the Induction Program, for the newly joined Engineering students. The program was designed to include engineered academic and non-academic activities, to nurture, mould and fortify engineering entrants for the days to come. The weeklong' phase -1 induction program commenced from 19/9/23 to 22/9/23 from 9.30am to 4pm in our campus. Students from all the Engineering programs Civil, Compute Science, Electronics and Communication, Mechanical, Information Science and Artificial Intelligence and Machine Learning participated enthusiastically and obtained benefits from the program.

The sessions were divided into three groups (A, B and C) and the chalked programmes were conducted simultaneously. The speakers were both internal and outsource resource persons.

The pre- lunch sessions comprised of motivational and inspirational talks to motivate the students.

## Chief Coordinators

**Dr. Madhusudan R**

**HoD, Dept of Mathematics, JIT**

**Dr. Viswanatha R**

**HoD, Dept. of Chemistry, JIT**



**Speaker: Mr. H.A. Jayasimha  
(Human Resource Trainer)**

**Topic: Power Positive Thinking**

Mr. Jayasimha has rich experience of over 25 years in conducting experiential and life improving workshops to participants from different walks of life, Corporates, Colleges, Schools etc.

He specializes in an area that dwells on managing one's mind and attitude, a key attribute to an individual's success. He has delivered more than 8600 Presentations, Workshops, Seminars and Motivational Talks all over the country. He has also greatly contributed for the last 13 years to the NIE edition of Times of India.

The most unique thing about Mr. Jayasimha's approach is the tool that he chose to use for his programs – MAGIC. Many wonder how to identify Mr. Jayasimha – A Trainer who is Magician or a Magician who is a Trainer.

He is a visiting faculty in over 20 educational institutions, inspiring young minds. A special mention is that he was invited to deliver a workshop to the Prisoners of Central Jail, Bangalore and to Raj Bhavan for the Governor's secretariat.

He takes great interest in counseling students and visits many schools for conducting 'Effective Study Skills' program.

He has been on air many times through All India Radio and Door darshan sharing his thoughts. A certified handwriting expert, he is also the recipient of the Karma Yogi award from one of the NGOs.



**Topic: Entrepreneurship Motivational Training Program**

**Speaker: Mr. Srinidhi Kulkarni**

**Topic: Language Proficiency.**

Mr. Srinidhi Kulkarni (Kan)-Dept of CSE, JIT presented a ppt on Language Proficiency Module. The students took keen interest to comprehend and imbibe the same in the coming years.

Srinidhi Kulkarni V obtained his bachelor's degree in information science and engineering from Visvesvaraya Technological University Belgaum, master's in computer science and engineering from Visvesvaraya Technological University Belgaum. He has 7 years of teaching experience at the undergraduate level of Engineering. He has guided more than 7 projects and 8 mini projects at undergraduate level. He has numerous research papers in his credit in national and international conferences. He has also published a paper in the referred Journal. He has also participated in several Faculty Development Programs and workshops. His areas of interest include Social Networks, Cloud Computing, IOT, Big Data, Design and analysis of algorithms, Data Structures. He has the honors of Life Member of ISTE, CSI and is an Assistant Professor.



**Topic: Career Enhancement through MOOCS.**

**Speaker: Dr. Manoj Kumar-Associate prof. Dept. Of CSE**

Career Enhancement through Moocs was the titled presentation by Dr. Manoj Kumar-Associate prof. Dept. Of CSE. It was an interactive session.

Dr. Manoj Kumar M, Associate Professor in the Department of Computer Science and Engineering, received his doctoral degree from Jain University, Bangalore in the year 2021. He has studied M. Tech. in Computer Science and Engineering from Nitte Meenakshi Institute of Technology, Bangalore and BE in Computer Science and Engineering from Dr. Ambedkar Institute of Technology, Bangalore, M. Tech. in Computer Science and Engineering from

Nitte Meenakshi Institute of Technology, Bangalore affiliated to Visvesvaraya Technological University, Karnataka in 2010 and 2012 respectively.

He has 2 years of Industry experience and 10 years of academic experience. His research interests include Cloud Computing, Artificial Intelligence and Machine Learning, Data Science and IOT. He has published 18 research papers in various international journals. He has one patent his name. He is a life member in CSI, ISTE. He has reviewed several research articles for reputed journals and international conferences. He is also an EMC Academic Associate, AWS academy graduate. He has introduced Coursera for campus programme to institution, under JIT-Coursera for campus programme more than 1150 students got benefitted. He is a coordinator for Coursera, AWS academy courses and Redhat academy courses.



### **Topic: Universal Human Values**

**Speaker: Mr. Rakesh B K- Asst. Prof- Dept. Of MECH Engg**

Mr. Rakesh B K-Asst. Prof-Dept. Of MECH Engg gave a talk on Universal Human Values which is also a part of curriculum.

Rakesh B K has obtained his bachelor's degree in mechanical Engineering, master's degree in Thermal Power Engineering from Visvesvaraya Technological University (VTU) and is pursuing his Doctoral degree on "Fuel Cell Technology" from Visvesvaraya Technological University (VTU).

He has 6 months of Industrial exposure and 8 years of academic experience in teaching undergraduate and post graduate level of engineering. He has guided several undergraduate projects, a few towards societal concern. He has several research papers to his credit in national, international conference and refereed journals and has participated in several seminars, workshops, and conferences. His areas of interest include Fluid Mechanics & Dynamics, Thermodynamics, Internal Combustion Systems, Fuel Cell technology and allied fields. He has the honors of life as a member of ISTE and SAE.

## Topic: Health Awareness

**Speaker: Dr. Kavya (Ayurvedic Research Centre)**

A Health Awareness talk was delivered by Dr. Kavya (Ayurvedic Research Centre). She also clarified the doubts of the students.



**Topic: Incorporation of Company.**

**Speaker: Dr. Jayaprakash H N**

Dr. Jayaprakash H N is PS to Principal, JIT, and has completed M. Com, MBA- Finance, Diploma in Material Management (DMM), and Diploma in Financial Management (DFM) respectively. He has also completed PhD in Management in the year 2022.

He has completed State Government NCVT Course in Machinist Trade, and National level NAC (Government of India) and secured first rank with National Level Bronze Medal Award.

Dr. Jayaprakash H N has total 25 years of Industrial experience as Executive-Planning and Materials, Deputy Manager-Finance, Manger -HR & Finance, as CEO in Co-operative Bank, Manager-HR and Finance in Media Company, and Branch Manager in Software Company

Dr. Jayaprakash H N currently engages classes for first and fourth semester students.



**Topic: Post-Lunch Session.**

**Co-Ordinator: Mrs. Usha Sundaresh**

To rejuvenate the students and enhance their skills, the post lunch session was conducted by Ms. Usha (Dept of Humanities) along with student coordinators.

They were also given a chance to prove their mettle in “Fun with Learning” (Quiz, Rebus and Dumb Charades).

The stage was all set for the students to showcase their talents individually. It was overwhelming to see students participating in large numbers and proved their capabilities.

They were provided the cursory view of various dimensions of engineering and the career opportunities in the field and the systems and procedures of the college to ease their transition to the core engineering program. They were enlightened about the prospective scope of the arena that they had opted for their success. The college committee for Induction programme invited experts from different leading industries and esteemed institutions to interact with the entrants and brief the learners with their expertise in various fields. Along with expert talks, the students were exposed to village for catering their social as well as technical side of learning.

**The Main Objectives of the Phase-1 Induction Program was:**

- To help the engineering entrants feel at ease and feel comfortable in the new environment
- To help them transit to mainstream engineering studies through the introduction of ethos and culture of the institution.
- To help entrants build progressive and emotional bonds with peers and faculty members to self-explore and comprehend the larger purpose
- To promote holistic development through the exposure of wide gamut of curricular, co-curricular and extracurricular activities.

## Yoga Session

Later in the day a Yoga session was organized for the students as a part of the induction program. The students were given an insight into the Yoga Culture in India by leading them through a practice session of various Yoga postures (Asanas) breathing exercises (Pranayama) and mindfulness (Meditation ) by Mrs. Manjula, a renowned yoga trainer .They were also introduced to various yogic concepts through a brief lecture session by Dr. Lakshmi Narayan Bhatt, Professor, CIIRC to encourage the students to take up the practice of yoga in order to improve their mental health, reduce stress and increase relaxation.

## Pottery and Painting session



## Afternoon session: Your Talent Our Stage

Ms. Usha (Dept of Humanities) along with student coordinators set up the stage for the amateur talent to be showcased on a platform wherein lots of hidden talent will be discovered and given the right kind of exposure.

These events not only nurture the intrinsic qualities of students but also remove stage fear in them, which helps in their personality development.

Your Talent Our Stage proved to be a boost as students participated enthusiastically and exhibited their talent in various activities. Some sang songs; some showcased their foot tapping moves, some showcased their comedy flair through standup comedies.

It was a fun-filled event that appealed to all. The students were excited to see their fellow students and staff there to support them.”

## **CONCLUDING REMARKS**

The induction program for Batch of 2021 was conducted successfully at JIT with the complete support and cooperation of the faculty members and students. The students were engrossed in various activities such as field trips, music, dance arts and crafts workshop, quiz and many more. By the end of the induction program, the students were comfortable and felt at home. They slowly shed their inhibitions and were ready to embark on the long journey ahead.

A feedback was taken from the students with respect to all the activities of the program.

# THE WORLD LANGUAGE CLUB

## ZENKEN DAY: BRIDGING CULTURES, OPENING DOORS

The World Language Club (WLC) had hosted a dynamic and informative event, Zenken Day, in collaboration with Zenken, an organization dedicated to connecting Indian talent with Japanese corporations. The event aimed to enlighten students about lucrative career opportunities in Japan and foster cultural exchange.

Kashiwabara-san and Tarana-san, distinguished representatives from Zenken, graced the occasion with their insightful talk. Targeting pre-final year students, they delved into the intricacies of the Japanese job market, emphasizing the high demand for skilled Indian professionals. The duo also highlighted how students passionate about Japanese culture and anime could leverage their interests to secure coveted positions in prestigious companies.

Following the formal presentation, an informal Q&A session allowed WLC members to engage directly with the guests. The lively exchange covered a wide range of topics, from Japanese work culture to daily life. Both students and guests found the session enriching, building a deeper understanding of each other's cultures.

Beyond the informative session, Zenken introduced an element of fun with engaging activities like Kendama, a traditional Japanese toy, and Yukata (not to be confused with Yakuza) try-outs. These interactive experiences provided students with a firsthand glimpse into Japanese culture.

Zenken Day proved to be a resounding success, inspiring students to explore career prospects in Japan while immersing themselves in the rich tapestry of Japanese culture. The event not only bridged cultural gaps but also empowered students to envision a promising future in the land of the rising sun.



## KOTOSHI NO KANJI: A DAY OF CULTURE AND CONNECTION

The World Language Club also hosted an unforgettable event, "*Kotoshi no Kanji*," celebrating the annual Japanese tradition of selecting a kanji to encapsulate the year's significant events. The event was a vibrant tapestry of culture, competition, and culinary delights.

Participants were immersed in Japanese culture through a series of engaging games, including *Hayaku Kaku* (speed writing) and a quick chopsticks challenge. The highlight of the event was the unveiling of the "Kotoshi no Kanji" for the year, followed by a lively discussion about its significance.

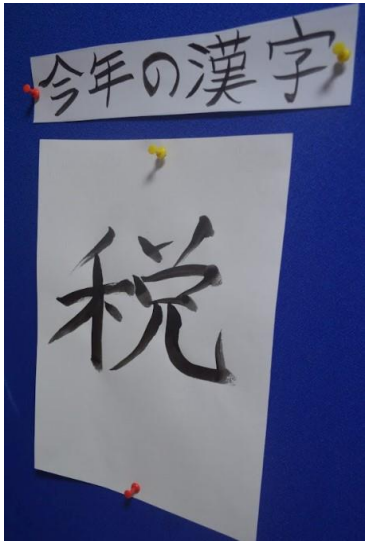
A culinary journey awaited attendees with the introduction to authentic homemade Japanese cuisine, including vegetarian sushi, Japanese garlic pickles, and onigiri, prepared by our esteemed guests. The delectable spread was a testament to the richness of Japanese gastronomy.

The event was further enriched by the presence of Sampei-san, CEO of ASIA TO JAPAN, and Prajwal-san, the Indian representative. Their insightful talk provided valuable insights into the Japanese workforce and career opportunities.

A cultural exchange ensued as WLC members, proficient in Shodou (Japanese calligraphy), interacted with Sampei-san, exchanging calligraphy tips and writing each other's names in Kanji. Sampei san was delighted to be guided by the students to write "ಕನಡ" (*Kannada*).

The event concluded with an informative talk by Sampei-san and Vishal Panja, an alumni who secured a placement through ASIA TO JAPAN. Their shared experiences underscored the impact of the organization in bridging cultural and professional divides.

Kotoshi no Kanji was more than an event; it was a celebration of Japanese culture, a platform for knowledge sharing, and a testament to the enduring spirit of collaboration between India and Japan.



# Ph.D. Awardees AY 2023-24

*“A monumental achievement deserves grand applause!”*

*Congratulations to our Ph.D. awardees on completing their doctoral journey. We wish you continued success in your future endeavours.*

*Kudos to our dedicated Ph.D. guides as their mentorship and expertise have made a significant impact on their research journey*



*Dr. M Sreelatha*



*Dr. Kemparaju M C*

Name: M Sreelatha

Department: Mathematics

Guide: Dr. Kemparaju M C

Research title: Numerical Solution of Flow and Heat Transfer of Boundary Layer Problems



*Dr. Nayana G. Bhat*



*Dr. S. Balaji*

Name: Nayana G. Bhat

Department: CSE

Guide: Dr. S. Balaji

Research title: Whole-cell Modelling and Accelerated Simulation on a Heterogeneous Parallel Platform.



*Dr. Somesh Nandi*



*Dr. Chethana K*

Name: Somesh Nandi.

Department: ECE

Guide Name: Dr. Chethana K

Co-Guide: Dr. T Srinivas IISC.

Title: Analysis of Fiber and Waveguide Bragg Grating for Sensor Applications

# COMPUTER SCIENCE



*“Binary Dreams, Infinite Realities: Navigating the coded Frontier.”*

# COMPUTER SCIENCE ENGINEERING

## Magazine co-ordinator



Dr. Annie Sujith  
Associate Professor

## Student co-ordinators



Srujana S G  
3<sup>rd</sup> semester



Varsha Ravi  
3<sup>rd</sup> semester



K R Hari Prajwal  
5<sup>th</sup> semester



Srujana K  
7<sup>th</sup> semester



Vandana R  
7<sup>th</sup> semester



Shravya  
7<sup>th</sup> semester

# COMPUTER SCIENCE AND ENGINEERING DEPARTMENT



Dr. S. Prabhanjan  
Head of Department

## *Vision*

To be a centre of excellence in Computer Science and Engineering education, focusing on research, innovation and entrepreneurial skill development with professional competency.

## *Mission*

**M1:** To provide state-of-the-art ICT infrastructure and innovative, research-oriented teaching-learning environment and motivation for self-learning & problem-solving abilities by recruiting committed faculty.

**M2:** To encourage Industry Institute Interaction & multi-disciplinary approach to problem-solving and adapt to ever-changing global IT trends.

**M3:** To imbibe awareness of societal responsibility and leadership qualities with professional competency and ethics.

## Message from the HOD

It gives me immense pleasure to note that the college is bringing out the annual college magazine, JITimes. "Learning is a continuous process from the minute we are born until we die." JIT provides a platform for every student to develop their learning skills through the annual magazine.

The Department offers graduate, post-graduate, and doctoral programs in Computer Science and Engineering. The graduate program is approved by the NBA.

The department has a team of highly experienced and motivated faculty members. All are well qualified and very competitive in preparing young minds, the students, for global competition. Students are highly motivated and industry-ready with hands-on experience in current technologies and programming languages.

Students are facilitated with Personality Development Programs. Competitive exams, quizzes, and other co-curricular activities are a part of the schedule. Sports, co-curricular, and extracurricular activities are conducted with students participating in inter- and intra-college events, and several inter-university fests/competitions.

The department works for the overall growth of students and inculcates qualities that are required and acceptable by society. Turning a student into a good citizen is the prime aim of the department.

TEACHING FACULTY			
SL NO	NAME	QUALIFICATION	DESIGNATION
1	Dr. Prabhanjan S.	Ph.D.	Professor & HOD
2	Dr.S. Balaji	Ph.D.	Professor
3	Lt. Dr. Manoj Kumar M.	Ph.D.	Associate Professor
4	Dr. Chidananda Murthy P.	Ph.D.	Associate Professor
5	Dr. Swathi K.	Ph.D.	Associate Professor
6	Dr. Annie Sujith	Ph.D.	Associate Professor
7	Dr. Madhusudhana G K.	Ph.D.	Associate Professor
8	Dr. Raghavendra K	Ph.D.	Associate Professor
9	Mr. Srinidhi Kulkarni.	M.Tech. (Ph.D.)	Assistant Professor
10	Mrs. S. Nikitha	M.Tech. (Ph.D.)	Assistant Professor
11	Mrs. Nayana G Bhat	Ph.D.	Assistant Professor
12	Mrs. Madhu G.	M.Tech.	Assistant Professor
13	Ms. Namratha B. S.	M.Tech.	Assistant Professor
14	Mr. Basavesh D.	M.Tech.	Assistant Professor
15	Mrs. Roopa Onkar D.	M.Tech.	Assistant Professor
16	Mr.Navile Nageshwara Naveen	M.Tech. (Ph.D.)	Assistant Professor
17	Mrs. Rekha V.	M.Tech.	Assistant Professor
18	Mr. Venkateshwara N.	M.Tech.	Assistant Professor
19	Mr. Akhilesh S Narayan	MSE, DiMAP	Assistant Professor
20	Mrs. M. Rajeswari	M.Tech.	Assistant Professor
21	Mrs. Prathibha K. N.	M.Tech.	Assistant Professor
22	Mrs. Geethapriya G H.	M.Tech. (Ph.D.)	Assistant Professor
23	Mrs. Kaveri	M.Tech.	Assistant Professor

PG IN COMPUTER SCIENCE AND ENGINEERING			
SL NO	NAME	QUALIFICATION	DESIGNATION
1	Dr. Raju G.	Ph.D.	Professor
2	Mr. Nagaraj A. (PG)	M.Tech. (Ph.D.)	Associate Professor
3	Mr. Keshav Gowtham N S	M.Tech. (Ph.D.)	Assistant Professor

NON TEACHING STAFF			
SL NO	Name	Qualification	Designation
1	Mrs. Jayashree Nagaraj	BE	Programmer
2	Mrs. Sarvamangala D.S.	Diploma	Instructor
3	Ms. Nandini R.	BCA	Instructor
4	Mr. Vijeth J.	BCA	Instructor
5	Mr. Jayanth M	Diploma	Instructor
6	Mr. Shashikiran K S	Diploma	Instructor
7	Mrs. Manju M	BE	Instructor
8	Mr. Raghavendra Timmappa Naik	BCA	Instructor
9	Mrs. Padmavathi V.	M.Com	SDC

DEPARTMENT ADVISORY BOARD	
N A M E	D E S I G N A T I O N
DR. DINESH R	Principal Engineer, Samsung Electro-Mechanics
DR. R BALAKRISHNA	Professor, CSE Dept., Rajarajeshwari College of Engineering
DR. S. BALAJI	Professor, CSE Department, JIT
DR. PRABHANJAN S	Professor and Head, CSE Department, JIT

## KSCST FUNDS APPROVAL

Faculty Name	Project Title	Project Type	Amount	Approval Date
<b>Guide:</b> <b>Dr. Chidananda Murthy P</b>  <b>Students:</b> Ms. Sanjana S Daivagna Ms.Nishitha D Ms. Pragnya V Prasad Ms. Riona Loba	Data Driven Trading Strategy	Research	5,500/-  <b>Duration:</b> 1 Year	24.04.2024
<b>Guide:</b> <b>Dr. Annie Sujith</b>  <b>Students:</b> Ms. Neeharika G Ms. Aisiri P Mr. Chandan S Mr. Darshan VJ	Resume Analyser For Applicants And Recruiters	Research	4,000/-  <b>Duration:</b> 1 Year	24.04.2024
<b>Guide:</b> <b>Dr. Swathi K</b>  <b>Students:</b> Mr. Varun Kumar D Ms. Varsha S Mr. Vishnu Prasad Pai Mr. Sai Gowrav P	Breed Classification of Dogs	Research	5,000/-  <b>Duration:</b> 1 Year	24.04.2024

<b>Guide:</b> <b>Mr. Basavesh D</b>  <b>Students:</b> Mr. Sharath Kumar U S Mr. Tarun T R Mr. Sharath K B Mr. Rakshith Gowda N	Urban Alert	Research	5,000/-  <b>Duration:</b> 1 Year	24.04.2024
<b>Guide:</b> <b>Mr. Srinidhi Kulkarni</b>  <b>Students:</b> Ms. Sanjana A Hiremath Mr. Punith S Y Mr. Sanjay H P Mr. Gnanesh C S	Three Way Emotion Detection	Research	4,000/-  <b>Duration:</b> 1 Year	24.04.2024
<b>Guide:</b> <b>Dr. Madhusudhana G K.</b>  <b>Students:</b> Ms. Sahana V Somani Ms. Rakshitha M Prabhu Ms. Rakshitha Kashyap Mr. Roshan Kashyap	Doctor's Prescription Recognition	Research	4,000/-  <b>Duration:</b> 1 Year	24.04.2024

## FACULTY INTERACTION WITH THE OUTSIDE WORLD

- Dr. Annie Sujith was invited as a Resource Person for a Technical Session on "Digital Transformation and Innovation Using Artificial Intelligence" on 28th Dec 2023 at AMC Engineering College, Bengaluru.
- Dr. Prabhanjan S. was invited to preside as Session Chair at the Second International Conference on Advances in Information & Computing by The Hinweis Research on 27th – 28th April 2024.
- Mr. Navile Nageshwara Naveen was a Resource Person for a thirty days workshop on the "Internet of Things" conducted by the Department of Science & Technology, TEDP/WEDP, Government of India at AIC, JIT, Bengaluru, in April 2024.
- Dr. Manoj Kumar delivered a technical talk on "Past, Present, and Future of Mobile Computing" on 10th June 2024 at SSMRV College, Bengaluru.
- Mr. Navile Nageshwara Naveen was invited as a Resource Person for a 2 two-day workshop on "Android Mobile Applications Development from 3rd July to 6th July 2024 at Ballari Business College.
- Dr. Manoj Kumar was invited to deliver a technical talk on "Cloud Computing Trends and its Applications" on 15th July 2024 at Kalpataru Institute of Technology, Tiptur.
- Dr. Annie Sujith was invited to preside as Session Chair for the National Conference on "Computational Intelligence and Applications" held on 16th July 2024, at AMC College, Bengaluru.
- Mr.Srinidhi Kulkarni V reviewed the technical papers received at the International Conference on Distributed Computing and Optimization Techniques (ICDCOT-2024) held at SJB Institute of Technology, Bengaluru.
- Dr. Annie Sujith reviewed the Technical Manuscript "Scientific Landscape on the Topic of Programming Language and Game Development" for the Asian Journal of Research in Computer Science. For her outstanding contribution to the journal's quality, the Asian Journal awarded her a Certificate of Excellence in Reviewing (2024).

## ACTIVITIES

### POSTER PRESENTATION

The IEEE society at Jyothy Institute of Technology organized a grand poster presentation event on August 17, 2023, centered around the theme "Life - A Self Exploration" under the Universal Human Values (UHV) subject. The event aimed to transcend traditional learning methods, offering a dynamic platform for students across various engineering branches to creatively present their research on self-discovery and personal growth. Esteemed judges Mr. Kaushik S V, an IT professional and yoga trainer, and Mrs. Shylaja Pradeep, a visual artist and yoga teacher, evaluated the presentations, which were judged on criteria including creativity, content, and clarity. The event saw enthusiastic participation, with 37 IEEE members among the 378 participants, fostering a rich exchange of ideas and promoting holistic development. The event's success was attributed to the dedication of IEEE execom members, core committee members, and volunteers, along with guidance from Branch Counsellor Dr. Asha Bharathi and Branch Advisor Mr. Srinidhi Kulkarni.



## MINIOTRON - PHASE1 ONLINE EVENT

The IoT-themed students club at Jyothy Institute of Technology organized the Phase 1 of the minIoTron online quiz qualifier event on August 17, 2023, from 7:00 PM to 8:00 PM. Open to all departments, the event saw participation from 43 teams, each comprising 2 to 4 members from the 2nd and 4th semesters. Coordinated by Mr. Akhilesh S. Narayan, the quiz aimed to select participants for the upcoming Phase 2 offline circuit-building event scheduled for August 21<sup>st</sup>. The top eight participants advanced to the next round, with three teams proceeding directly to Phase 2 and five teams competing in tie-breaker rounds to secure the final two spots. The final selection round was conducted on joinmyquiz.com, focusing on IoT knowledge and time accuracy.

Sl. No	Team Name	Dept.	Sem	Member1, USN	Member1, USN	Member1, USN	Member1, USN
1.	Wildest Dreams	CSE	2nd	Harshitha R 1JT22CS062	Akshara S Arshi 1JT22CS010	Dhatri Kashyap 1JT22EC026	Monisha Bharadwaj 1JT22EC063
2.	Team "R-IOT"	ECE	2nd	Vinod kashyap 1JT22EC118	Prathap Nadig 1JT22EC076	Sai Sudhanva 1JT22EC087	Swaroop N.K 1JT22EC102
3.	Team dalle	CSE	2nd	Shreya HR Nadig 1JT22CS148	Rakshith c 1JT22CS117	Sudhanshu 1JT22CS129	Samrudh g rao 1JT22CS134
4.	Four of clubs	CSE	4th	Navneeth C 1JT21CS065	Anirudh P Nayak 1JT21CS014	M Sakshi Rao 1JT21CS057	Nagendra Prasad B G 1JT21CS063
5.	Wired Wizards	ECE	2nd	Shreya L 1JT22EC092	Swathi Bhat 1JT22EC103	Chirag 1JT22EC020	Chitraksh 1JT22EC022

## MINIOTRON-PHASE2 OFFLINE EVENT

On August 21, 2023, the IoT-themed students club CREA at Jyothy Institute of Technology organized the Phase 2 offline circuit building event for the minIoTron competition. Five teams, composed of 2 to 4 members each from the 2nd and 4th semesters, participated in this fun-filled activity that was hosted by Mr. Akhilesh S. Narayan, Assistant Professor in the Department of Computer Science and Engineering. The challenge involved constructing a smart street lamp, testing their understanding of electronic components such as breadboards and sensors. Team Four of Clubs emerged victorious by successfully demonstrating the working circuit, followed closely by the Wired Wizards as runners-up.



## YOUTH FOR SEVA: “WHEEL- CHAIR CRICKET”

Youth For Seva organized a transformative "Wheelchair Cricket" event at YMCA Grounds from September 22nd to 24th, 2023, with the active participation of 96 students from Jyothy Institute of Technology. Supported by dedicated staff members including Dr. Swathi K. and Ms. Namratha B. S. from the Department of Computer Science and Engineering, alongside Dr. Jayathirta Patil from Mechanical Engineering dept., the event aimed to promote inclusivity and empower persons with Disabilities through sports. Students enthusiastically volunteered, assisting players, managing logistics, and fostering a supportive environment that underscored the event's broader impact on empathy and community engagement.



Position	Team Name	Dept.	Sem	Member1, USN	Member1, USN	Member1, USN	Member1, USN
Winners	Four of clubs	CSE	4th	Navneeth C 1JT21CS065	Anirudh P Nayak 1JT21CS014	M Sakshi Rao 1JT21CS057	Nagendra Prasad B G 1JT21CS063
Runners	Wired Wizards	ECE	2nd	Shreya L 1JT22EC092	Swathi Bhat 1JT22EC103	Chirag 1JT22EC020	Chitraksh 1JT22EC022

### TALK ON CYBER SECURITY CAREER AND ME

On September 20th, 2023, the 4th semester students attended a talk on "Cyber Security Career and Me" delivered by Dr. Shubhamangala Sunila, a respected Cyber Security expert from Bangalore. The event provided 143 students with insights into career opportunities in Cyber Security, internships, Offensive Hacking Security Certification (OHSC), and various professional paths within the field. Dr. Sunila's interactive approach allowed students to engage actively, seeking answers to their queries and gaining a deeper understanding of Cyber Security as a career choice.



### INDUSTRIAL VISIT TO AURIGENE ONCOLOGY LTD., BANGALORE

On October 13th, 2023, 1st semester students along with two faculty members visited Aurigene Oncology Ltd., Bangalore. The visit organized by Dr. Annie Sujith began with an engaging presentation highlighting Aurigene's pivotal role in biotechnology, particularly their groundbreaking advancements in cancer therapy research. Students explored various specialized labs including Preclinical Research, Cell Culture, Molecular Biology, and Drug Discovery, gaining firsthand exposure to sophisticated technologies like Alpha Fold for protein structure prediction and Artificial Intelligence applications in drug development. This immersive experience underscored Aurigene's dedication to pioneering oncological treatments and fostering a culture of innovation and scientific excellence within the company.



## OPTIV CYBERSECURITY ALL GIRLS HACKATHON

The Optiv CyberSecurity All Girls Hackathon, held at JIT, Bangalore on October 14th and 15th, 2023, was a transformative event empowering college women in cybersecurity. With 196 registrations and 115 final participants organized into 34 teams, the hackathon provided an intensive platform to tackle pressing cybersecurity challenges. Supported by 20 tech mentors and a committed team of volunteers, including 26 from Optiv and 22 from JIT, the event offered exceptional learning and networking opportunities. Keynote speeches by industry leader, Lokesh Gowda and Dr. K Gopalakrishna underscored the event's significance, emphasizing cybersecurity's critical role and the potential of women in IT. Participants leveraged cutting-edge technologies to develop solutions spanning security architecture, cryptography, and AI applications, refining technical prowess alongside strategic, teamwork, and communication skills. The event culminated in awards for top teams and overwhelmingly positive feedback, affirming its impact in fostering expertise and enthusiasm among aspiring cybersecurity professionals.



## **TECHNICAL TALK ON ARTIFICIAL INTELLIGENCE & MACHINE LEARNING**

On November 9th, 2023, the CSE dept. hosted a technical talk on Artificial Intelligence & Machine Learning by Dr. Sujata Joshi, an esteemed Associate Professor from Nitte Meenakshi Institute of Technology, Bangalore. Dr. Joshi, known for her extensive research in prediction modeling and machine learning, particularly in the medical domain, brought a wealth of knowledge to the session attended by 60 enthusiastic students and faculty members.

## **STUDENT ENABLEMENT PROGRAM (SEP) ON ARTIFICIAL INTELLIGENCE**

The Student Enablement Program (SEP) on Artificial Intelligence organized by Infosys Springboard was held from November 27th to 29th, 2023, catering to the 5th semester students. The program aimed to equip students with essential skills in Artificial Intelligence (AI) and its practical applications, encouraging them to pursue relevant certifications for professional accreditation. The webinar provided invaluable insights to prepare students for industry demands by covering foundational topics such as Introduction to AI, Natural Language Processing, and Deep Learning.



## DIGITAL TRANSFORMATION AND INNOVATION IN HEALTHCARE: TELEMEDICINE SERVICES

The technical session titled "Digital Transformation and Innovation in Healthcare: Telemedicine Services," held on December 27th, 2023, for the 5th-semester students of the Department of CSE was organized by Dr. Annie Sujith. Mr. Kevin Devasia, Vice President of Rajagiri Telemedicine Services, served as the distinguished resource person for the session. His illustrious career includes pioneering initiatives such as the Apollo I-SEE-U Project and the e-Home Visits Project, which have earned him recognition at global healthcare forums. Mr. Devasia's impactful projects, including the Hospital on Wheels Service using VSAT technology, exemplify his dedication to democratizing healthcare access, especially for underserved populations. The session provided students with a comprehensive understanding of telemedicine's role in digital transformation within healthcare. Mr. Devasia's insights ignited curiosity and enthusiasm among participants, highlighting the evolving opportunities and challenges in leveraging technology to enhance healthcare delivery.



## **INVITED TALK ON “START-UP INDIA”**

On January 16, 2024, the Department of CSE hosted an insightful talk on "Start-up India" by Adv. Kiran Bettadapur S. This event was organized for the 3rd semester students and was introduced by Dr. M. G. Anantha Prasad, CEO of AIC-JITF. Adv. Kiran Bettadapur S. delivered a comprehensive and engaging talk on the Start-up India initiative, emphasizing the government's efforts to foster a conducive environment for budding entrepreneurs. He outlined the initiative's objectives, such as providing financial assistance, various benefits, and incentives designed to encourage innovation and entrepreneurship. Adv. Bettadapur also underscored the importance of start-ups in driving economic growth, innovation, and job creation, sharing success stories that demonstrated how start-ups have disrupted traditional industries and introduced new technologies. The talk also delved into the government's support measures, including streamlined regulatory processes, tax benefits, incubation centres, and funding schemes. He also discussed the availability of various funding options like venture capital, angel investors, and government-backed schemes that are vital for start-up growth. Additionally, the significance of protecting intellectual property rights (IPR) was stressed, with insights into the government's initiatives to simplify patent filing and safeguard innovative ideas.

## **CHOOSING THE RIGHT CAREER PATH**

On January 5, 2024, an insightful talk on "Fostering the Right Skills, Attitude, and Behaviour through the Strategic Choice of a Career Path" was held for 5th semester students from the CSE, AI/ML, and ISE branches. Delivered by Ms. Shubha S, Customer Success Manager at Vodafone Global Services Pvt Ltd, the session aimed to guide students in making career choices that align with their personal skills, attitudes, and behaviours. The talk also focused on aligning career choices with personal attributes and nurturing essential skills required in the modern workforce. Furthermore, the session underscored the importance of developing skills such as communication, critical thinking, problem-solving, collaboration, and leadership.

**JYOTHY** Institute of Technology  
 Department of Information Science & Engineering  
 Accredited by NBA  
 Presents  
**Workshop on**  
**"Fostering the right Skills, Attitude and Behaviour through the strategic choice of a Career path."**  
**Resource Person**  
  
**Shubha S**  
 Customer Success Manager  
 Vodafone Global Services Pvt Ltd  
**Co-ordinator** Prof. Anupama Vijaykumar, Dept. of ISE, JIT  
**HOD** Dr. Divakar Harekal, Dept. of ISE, JIT  
**Venue:** Auditorium, Jyothy Institute of Technology | **Date:** 05-01-2024 | **Timings:** 02:00 P.M.



## VIKASIT BHARAT: THE PROCESS OF DESIGN – PRODUCTS AND... (NATIONAL SCIENCE DAY)

On the occasion of National Science Day, JIT hosted an expert talk on "Vikasit Bharat" on 29 February 2024 at 11:00 AM, focusing on "The Process of Design – Products and..." This technical session, attended by 5th-semester students and faculty from the Department of CSE aimed to deepen participants' understanding of the design process in product development, emphasizing its practical applications and importance in fostering innovation and technological advancement. The resource person for the session, Prof. Satish V Kailash from IISc, Bangalore, provided invaluable insights into the intricate stages of the design process, from conceptualization to prototyping. He highlighted the importance of user-centric approaches and iterative refinement in creating successful products.

On Occasion of National Science Day - 28<sup>th</sup> Feb  
**JYOTHY** INSTITUTE OF TECHNOLOGY ORGANISES  
**VIKASIT BHARATH**  
 Expert Technical Talk on  
**"The Process of Design - Products and ..."**  
 By  
**Dr. Satish V Kailash**  
 Professor  
 Department of Mechanical Engineering  
 Indian Institute of Science (IISc) - Bangalore  
 29<sup>th</sup> FEBRUARY | THURSDAY | 11AM  
 विकसित भारत अभियान | ciirc | nif-innovation | 907117475  
 www.jyothyit.ac.in | info@jyothyit.ac.in



## TECHNICAL TALK ON INTELLECTUAL PROPERTY RIGHTS

On February 23, 2024, a technical talk on Intellectual Property Rights (IPR) was held for 5th-semester CSE students, led by Kiran Bettadapur, a seasoned advocate and patent attorney. Organized by the Department of CSE, and coordinated by Mr. Basavesh D., the event had an audience of 140 students and faculties. The session covered tangible and intangible property rights, major IP types like patents, copyrights, trademarks, and registered designs. Bettadapur, an alumnus of IIT-Kharagpur and IISc Bangalore, shared insights on patenting processes, challenges in patents, trademarking, and geographical indications. The event concluded with a Q&A session that clarified various doubts, greatly enhancing the attendees' understanding of IPR.



## JIT HACK 2024

The 24-hour national-level hackathon, JIT Hack 2024, hosted on the Devfolio platform, saw participation from 100 teams across various states, including Karnataka, Tamil Nadu, Kerala, Maharashtra, and West Bengal. Among these, 38 teams were from JIT, while 68 teams represented other colleges. The event was coordinated by Prof. Srinidhi Kulkarni and Prof. Nagaraj A. The inaugural function featured Mr. Vadiraj Beejadi, AVP at Accenture, as the chief guest. Judges for the hackathon included Mr. Piyush Ranjan, AVP, and Mr. Dileep Padiya, an AI expert. The winning teams were Extraterrestrials from Sri Eswar College of Engineering, and Mirage from DY Patil College of Engineering. The consolation prize winners were Outsourcing from Jyothy Institute of Technology, Snack Overflow from MS Ramaiah Institute of Technology, and Dhwani from Jyothy Institute of Technology.



## CSI CODING CHALLENGE FOR 4 SEMESTER STUDENTS

The CSI Coding Challenge for 4th-semester students of CSE, ISE, and AIML was held on May 23, 2024, with participation from 65 teams, each consisting of two students. Coordinated by Prof. Nagaraj A. (CSE), Prof. Manjesh B. N. (ISE), and Prof. Ushasri (AIML), the event required students to solve two out of three provided problems using C, Java, or Python. Starting at 09:30 hours and concluding at 13:00 hours, the challenge fostered critical thinking and problem-solving skills, with students thoroughly enjoying the experience.



## CSI CODING CHALLENGE FOR 6 SEMESTER STUDENTS

The CSI Coding Challenge for 6th-semester students of CSE, ISE, and AIML was held on May 28, 2024, with 25 teams, each consisting of two students, participating. Coordinated by Prof. Nagaraj A. (CSE), Prof. Manjesh B. N. (ISE), and Prof. Ushasri (AI ML), the event tasked students with solving a real-time problem scenario from 09:30 to 14:00 hours. Students utilized their problem-solving skills and enjoyed tackling the given challenge.



## CONFERENCES ATTENDED BY FACULTIES

Sl. No.	Faculty Name	Title of FDP/ WORKSHOP	Period
1	Dr. Prabhanjan S	AUTOBOT "Advancement on Information Technology (NCAIT)" by JSS Academy of Technical Education	30.04.2024
		Emerging Research in Computing, Information, Communication, Artificial Intelligence & Machine Learning by NIITE Meenakshi Institute of Technology	23.02.2024 to 24.02.2024
		Second International Conference on Advances in Information & Computing by The Hinweis Research	27.04.2024 to 28.04.2024
2	Dr. Annie Sujith	2-Day IEEE International Conference on "Optimization Techniques for Learning" (ICOTL 2023) by Madanapalle Institute of Technology and Science	07.12.2023 to 08.12.2023
		National Conference on Computational Intelligence and Applications by AMC College	16.07.2024
3	Mr. Srinidhi Kulkarni	International e-Conference on Advances in Computer Engineering & Communication Systems	22.09.2023 to 23.09.2023
4	Dr. Manoj Kumar M	Emerging Research in Computing, Information, Communication, Artificial Intelligence & Machine Learning by NIITE Meenakshi Institute of Technology	23.02.2024 to 24.02.2024
		AWS Academy Educator Conference by AWS Academy	05.06.2023

		Oracle Devlive Bangalore 24	03.04.2024 to 04.04.2024
5	Mr. Akhilesh S Narayan	Advancements in Information Technology Conference by JSS Academy of Technical Education	30.04.2024

### FACULTY FDP/WORKSHOP DETAILS

Sl. No.	Faculty Name	Title of FDP/WORKSHOP	Organized by
1	Dr. S. Prabhanjan	1 day Workshop on "Rapid Mobile App Development"	Palle Technologies
		10 days Workshop on "Cyber Security"	E&ICT Academy
		5 days FDP on "Exploring Neural Networks and Advanced NLP Techniques"	IQAC, Institutions Innovation Council
2	Mr. Nagaraj A	Data Science & Machine Learning Internship Program	Edureka
		Full Stack Web Development Internship Program	Edureka
		3 days FDP on "Full Stack Development"	GSSS Institute of Engineering & Technology for Women
3	Dr. Annie Sujith	5 days FDP on "Outcome Based Education"	RV Institute of Technology & Management
4	Mr. Srinidhi Kulkarni	2 Weeks FDP on "Entrepreneurship and Innovation "	JIT, Bangalore
		1 day workshop on Embracing AI in Engineering	IEEE Computer Society
		5 days FDP on Advancing Ethical Practices in Research And Publication	Jain Centre for Research in Social Sciences And Education
5	Mrs. S. Nikitha	5 days FDP on "Exploring Neural Networks and Advanced NLP Techniques"	IQAC, Institutions Innovation Council
6	Ms. Namratha B. S.	2 days Workshop on Operating System Laboratory	

			Sri Krishna Institution of Technology
		3 days FDP on "Full Stack Development"	GSSS Institute of Engineering & Technology for Women
7	Mr. Akhilesh S Narayan	Ethical Hacking & Cyber Security: Scope & Future ahead-2023: Poster Presentation Competition	SJB Institute of Technology
		3 days "Ethical Hacking & Cyber Security Workshop"	NICC & SJB Institute of Technology
		2 Weeks FDP on "Entrepreneurship & Innovation"	JIT, Bangalore
		5 days FDP on "Exploraing Neural Networks and Advanced NLP Techniques"	IQAC, Institutions Innovation Council
8	Mrs. Madhu G	2 days Workshop on Operating System Laboratory	Sri Krishna Institution of Technology
		5 days FDP on "Exploraing Neural Networks and Advanced NLP Techniques"	IQAC, Institutions Innovation Council
		2 Weeks FDP on "Advancement in Quantum Computing and Sensor Technology for Viksit Bharath @ 2047"	The Oxford College of Engineering, Bangalore
9	Mr. Navile Nageshwara Naveen	Ethical Hacking & Cyber Security: Scope & Future ahead-2023: Poster Presentation Competition	SJB Institute of Technology
		3 days "Ethical Hacking & Cyber Security Workshop"	NICC & SJB Institute of Technology
		2 days on Bites Annual Convention 2024	BITES (Board for it education standards)
		1 day work shop on "Full Stack Development"	AICTE
		5 days FDP on "Exploraing Neural Networks and Advanced NLP Techniques"	IQAC, Institutions Innovation Council

10	Mrs. Rekha V	5 days FDP on "Cloud Infrasastructure (AWS)	Don Bosco Institute of Technology
11	Mrs. Geethapriya G H	6 days FDP on "Blockchain Technology & Its Application"	Electronics & ICT Academy India Institute of Technology Roorkee
		5 days FDP on "Exploraing Neural Networks and Advanced NLP Techniques"	IQAC, Institutions Innovation Council
12	Mrs. Prathibha K N	2 Weeks FDP on "Entrepreneurship and Innovation "	JIT, Bangalore
		5 days FDP on "Exploraing Neural Networks and Advanced NLP Techniques"	IQAC, Institutions Innovation Council
13	Mr. Venkateshwara N	2 Weeks FDP on "Entrepreneurship & Innovation"	JIT, Bangalore
14	Mrs. Rajeswari M	5K Marathon fro Cancer Awareness	JIT, Bangalore
		5 days FDP on "Viksit Bharath 2047- Role of Engineering Faculty	Institutions Innovation Council
		5 days FDP on "Exploraing Neural Networks and Advanced NLP Techniques"	IQAC, Institutions Innovation Council
		5 days FDP on "Advancing Power Grid Operations: Integrating Renewable Sources and Evs at Scale"	SR University, Warangle, Telangana
15	Mrs. Kaveri	5 days FDP on "Exploraing Neural Networks and Advanced NLP Techniques"	IQAC, Institutions Innovation Council

## FACULTY ONLINE COURSE CERTIFICATION DETAILS

Sl. No	Faculty Name	Title of Course	Score	Organized by
1	Dr. S. Prabhanjan	"Best Practices for Improving NIRF Ranking"	Completed	DELNET - Developing Library Network
		Sardar Unity Trinity Quiz - Samriddh Bharat	Completed	Sardar Unity Trinity Quiz - Samriddh Bharat
2	Mr. Akhilesh S Narayan	Counselling Practitioner (Beginner to Advanced)	Completed	Udemy
		Diploma In Modern Applied Psychology	Completed	Udemy
		Hacking For Beginners	Completed	Udemy
3	Mrs. Rajeswari M	UI/UX for Beginners	Completed	
		Introduction to Data Science	Completed	
4	Ms. Namratha B. S.	Big Data 101 (BD0101EN)		IBM - Simplilearning

### FACULTY/STUDENT PAPER PUBLICATION DETAILS

Sl. No	Faculty/Student Name	Papers Published	Journal	Volume / ISSN NO
1	Mr. Nagaraj A	"Wearable Aerobic Activity Classification: A Survey"	International Research Journal Of Modernization in Engineering Technology & Science (IRJMETS),	Volume 06, Issue: 03/03/2024 ISSN: 2582 - 5208
2	Mrs. S Nikitha	Literature Survey of Plant Disease Detection using CNN	International Journal Journal of Creative Research Thoughts (IJCRT),	3Volume 10, Issu4e10, May 2024 ISSN: 2320 - 2882
3	Dr. Nayana G Bhat	Computer Physics Communications	Visvesvaraya Technological University, Belagavi, Research & Consultancy (CIIRC), Jyothy	ISSN: 0010-4655

			Institute of Technology, Tataguni - 2023, 13 November 2023	
4	Dr. Annie Sujith	Efficient Network Management and Security in 5G Enabled Internet of Things using Deep Learning Algorithms	International Journal of Electrical and Computer Engineering (IJECE)	Vol. 14, No.1, Feb 2024, pp. 1058-1070 ISSN 2088- 8708
		Surface Electromyograp hy (sEMG) Signal-Based Speech Recognition of Using Depressor Anguli Oris, Mentalis, and Masseter Muscles of Human Being	Journal of Chemical Health Risks	07 Nov 2023, JCHR (2023) 12(4s), 439- 455 ISSN 2251- 6727
		A Novel Approach To Identify Diabetic Macular Edema Using A Mini- Mal CNN Model	IEEE Xplore,2024	ISBN:979- 8-3503- 2805-9
5	Faculty: Dr. Prabhanjan S  Students: Rishi V Surya N B Sushanth MS	Deepfake Image Detection: Harnessing the Power of CNN	TIJER - International Research Journal TIJER. ORG,	Vol. 11, Issue 4, Impact Factor: 8.57, May-2024. ISSN: 2349- 9249
	Faculty: Dr. Prabhanjan S	3D Mapping and Exploration Using Autonomous	Lecture Notes in Civil Engineering Springer Nature	LNCE volume 459 26 March 2024

	<b>Students:</b> Sudhanva S. Chinmayi R. Deepa U.	Robots and NeRF		
2	<b>Faculty:</b> <b>Mrs.</b> <b>Kaveri A</b>  <b>Students:</b> Akshay S Ashok Kumar Deepanshu KN Ajay Adithya RR	Detection of crop loss by multiple feature detection : A Survey	International Research Journal of Modernization in Engineering Technology and Science,	Volume:06/ Issue:05/M ay-2024 e- ISSN:2582- 5208, Impact Factor- 7.868
3	<b>Faculty: Dr.</b> <b>Annie Sujith</b>  <b>Students:</b> Aisiri P Chandan S Neeharika G Darshan VJ	NLP Techniques in Resume Analysis for applications and recruiters	International Research Journal of Modernization in Engineering Technology and Science	Volume:06/ Issue:05/M ay-2024 e- ISSN:2582- 5208
4	<b>Faculty:</b> <b>Mrs.</b> <b>Rajeswari</b>  <b>Students:</b> Archana MN DC Veena Pooja G Supritha AV	Smart Health AI: Revolutionizing Health care with AIOT and Machine Learning.	International Research Journal of Modernization in Engineering Technology and Science	Volume:06/ Issue:05/M ay-2024 e- ISSN:2582- 5208
5	<b>Faculty: Ms.</b> <b>Namratha</b> <b>BS</b>  <b>Students:</b> Chethan BR Satish M	Cancer Prediction System	International Research Journal of Creative Reseach Thoughts(IJCRT)	Volume:12 Issue 5 May 2024 ISSN-2320- 2882
6	<b>Faculty: Mr.</b> <b>Nagaraj A</b>  <b>Students:</b> Ankita Karmakar Astha Narayan	Wild Animal Detection in Residential areas and Apartment complexes	International Research Journal Of Modernization in Engineering Technology & Science (IRJMETS),	Volume 06, Issue: 05, May 2024 ISSN: 2582 - 5208

7	<p><b>Faculty: Mr. N N Naveen</b></p> <p><b>Students:</b> Lakshmi N Nishmitha K Owais Ayoub Pooja</p>	<p>Identifying Criminal Behavior live CCTV Feeds Involves Analyzing Footage for MOB Gatherings and suspect body language</p>	<p>International Research Journal of Modernization In Engineering Technology And Science (IRJMETS)</p>	<p>Volume 06, Issue 05 May 2024 ISSN: 2582 - 5208</p>
8	<p><b>Faculty: Mrs. Rekha V</b></p> <p><b>Students:</b> Pavan H B Vijay Surya VV Kiran Kumar R</p>	<p>AVI-Audio Net</p>	<p>International Journal of Creative Reseach Thoughts(IJCRT)</p>	<p>Volume:12 Issue 5 May 2024 ISSN-2320-2882</p>
9	<p><b>Faculty: Dr. Madhusudh ana GK</b></p> <p><b>Students:</b> Sahana V S Rakshitha P Rakshitha K Roshan K</p>	<p>Doctor's Prescription Recognition Learning: A Survey</p>	<p>International Research Journal of Modernization in Engineering Technology and Science</p>	<p>Volume:06/ Issue:05/M ay-2024 e- ISSN:2582-5208</p>
10	<p><b>Faculty: Mrs. Prathibha K N</b></p> <p><b>Students:</b> Manu S Salimath Giridhar J Nikhil S</p>	<p>Smart Switchboard with automated scheduling, gas leakage detection, and window roll-down automation.</p>	<p>International Research Journal of Modernization In Engineering Technology And Science (IRJMETS)</p>	<p>Volume 6 Issue 05, May 2024 ISSN: 2582-5208</p>

11	<b>Faculty:</b> <b>Mrs. Nikitha S</b>  <b>Students:</b> Vishnu V R Vithesh Shetty Sai Kiran Sai Praneeth	Development of A 6- Wheeled Autonomous Rover for robust navigation using ROS2 and Slam	International Journal of Creative Research Thoughts (IJCRT)	ISSN-2320-2882
12	<b>Faculty: Dr. Swathi K</b>  <b>Students:</b> Sai Krishna Arul Joshua Ananya D Gayatri YS	Revolutionary Agriculture: A Machine learning driven portal for informed agricultural decisions and effective direct to consumer sales	International Research Journal of Modernization in Engineering Technology and Science	Volume:06/ Issue:05/May-2024 ISSN: 2582 – 5208
13	<b>Faculty:</b> <b>Mrs. Geethapriya GH</b>  <b>Students:</b> Anusha HG Likitha M Numan Shabir Padmapriya R	Comprehensive Environmental surveillance: Unifying forest fire and wild life mobility for ecosystem conservation	International Research Journal of Modernization in Engineering Technology and Science	Volume:06/ Issue:05/May-2024 e- ISSN:2582-5208
14	<b>Faculty: Mr. Srinidhi Kulkarni</b>  <b>Students:</b> Amrutha S H Ashwin Kumar HV Pavani Jeevan N	Script Scribe: Empower Less Known Languages Through Handwriting Recognition	International Research Journal of Modernization in Engineering Technology and Science	Volume:06/ Issue:05/May-2024 e- ISSN:2582-5208
15	<b>Faculty:</b> <b>Mrs. Madhu G</b>	Digital Asset Marketplace using blockchain Technology	International Journal of Creative Research thoughts (IJCRT)	Volume:12 Issue 5 May 2024 ISSN-2320-2882

	<b>Students:</b> Pranav S Sujan S Spoorthi NS Tejas N			
16	<b>Faculty:</b> <b>Dr.Chidana  nda Murthy  P</b>  <b>Students:</b> Nishitha D Sanjana S D Pragya V Riona L	Data-Driven Trading Strategy	International Research Journal of Modernization in Engineering Technology and Science	Volume:05/ Issue:04/Ap ril-2023 e- ISSN:2582- 5208
17	<b>Faculty: Mr.  Basavesh D</b>  <b>Students:</b> Sharath Kumar U S Sharath K Tarun TR Rakshith GN	Advance Emergency and Traffic Management system	International Journal of Scientific Research in Engineering and Management(IJSR EM)	Volume: 08 Issue:05/ May -2024 ISSN: 2582- 3930
18	<b>Faculty:</b> <b>Mrs. Nayana  G Bhat</b>  <b>Students:</b> Samanvita Sathya K Sharanya Shastri K R Sinchana Patel GD	Smart Cultivation Using IOT and ML for Carnation Flowers: A Survey	International Journal of Creative Research thoughts (IJCRT)	Volume:12 Issue 5 May 2024 ISSN-2320- 2882
19	<b>Faculty:</b> <b>Mrs. Nikitha  S</b>  <b>Students:</b> Bhavana S Ankitha H Monisha S Namrath KN	Synthetic Image Generation Using DCGAN	International Research Journal of Modernization in Engineering Technology and Science	Volume:06/ Issue:05/M ay-2024 e- ISSN:2582- 5208


## STUDENTS CULTURAL ACTIVITIES DETAILS


Sl. No	Student Name	Title of the Event	Organized by	Award
8	J Manu	Classical Solo Dance	SJC Institute of Technology	Gold Medal
9	Yashas R	Cartooning - Indian Politics	SJC Institute of Technology	Silver Medal
		Poster Making - Mobile Addiction		
10	Bhanushree Jayasimha	Elocution	SJC Institute of Technology	Bronze Medal
12	Akshay J	Installation - India ancient Education System	SJC Institute of Technology	Silver Medal
13	Kishan S			
14	Kruthika C S	Clay Modelling - India Traditional Face Mask	SJC Institute of Technology	Bronze Medal
15	Sukruth Kumar N	Spot Photography - Awesome in the Campus	SJC Institute of Technology	Bronze Medal
16	H S Aprameya	Instrumental Solo	RNS Institute of Technology	1 <sup>st</sup> place
17	Sakshi Rao M	Fashion Show	Sri M Visvesvaraya Institute of Technology	1 <sup>st</sup> place

## BEST OUTGOING STUDENT 2024

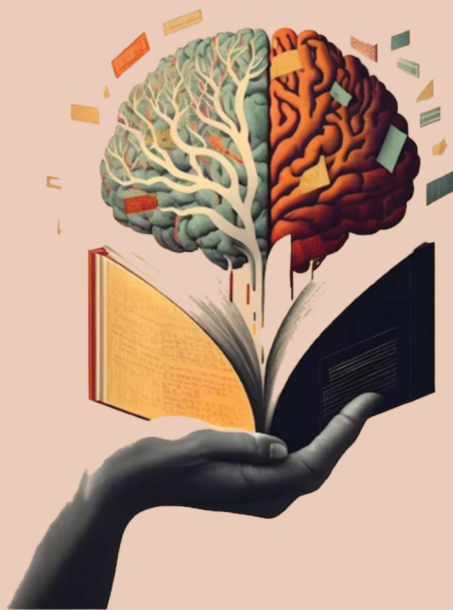
Ms. Chinmayi Rajaram received a distinguished honour by being nominated as the best outgoing student from the batch of 2024. In recognition of her outstanding academic and co-curricular achievements and contributions, the institution awarded her the prestigious Gold Ring.

## CSE DEPARTMENT TOPPERS (BATCH OF 2020)

Surya N Bharadwaj		
USN: 1JT20CS103	Sem.	GPA
	I	<b>9.35</b>
	II	<b>9.50</b>
	III	<b>9.34</b>
	IV	<b>9.39</b>
	V	<b>9.24</b>
	VI	<b>9.23</b>
	VII	<b>9.00</b>
	VIII	<b>9.50</b>

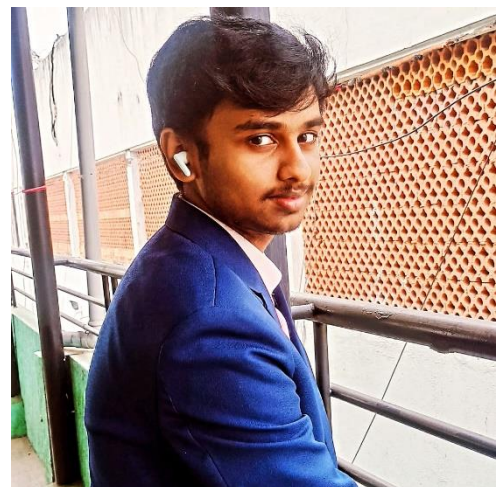
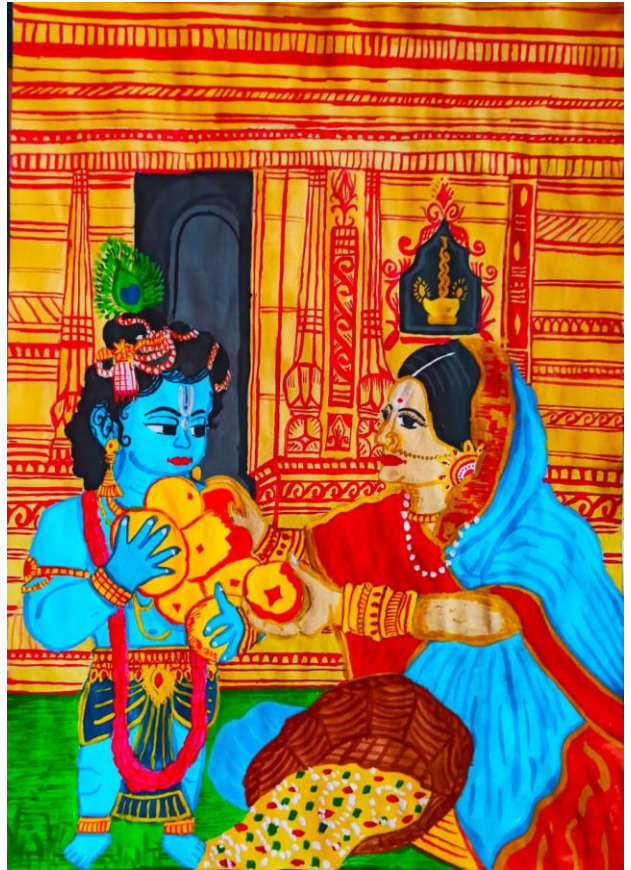
E Sai Krishna		
USN: 1JT20CS029	Sem.	GPA
	I	<b>8.50</b>
	II	<b>8.95</b>
	III	<b>8.79</b>
	IV	<b>8.75</b>
	V	<b>8.52</b>
	VI	<b>9.17</b>
	VII	<b>8.50</b>
	VIII	<b>9.67</b>

# STUDENTS' ARTICLES

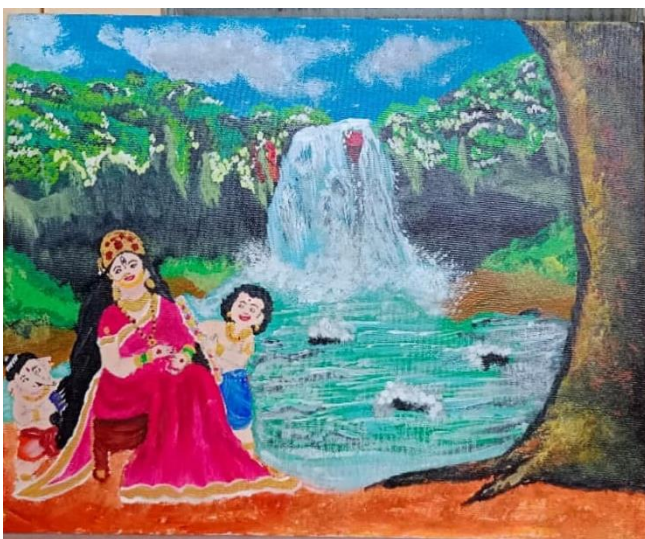
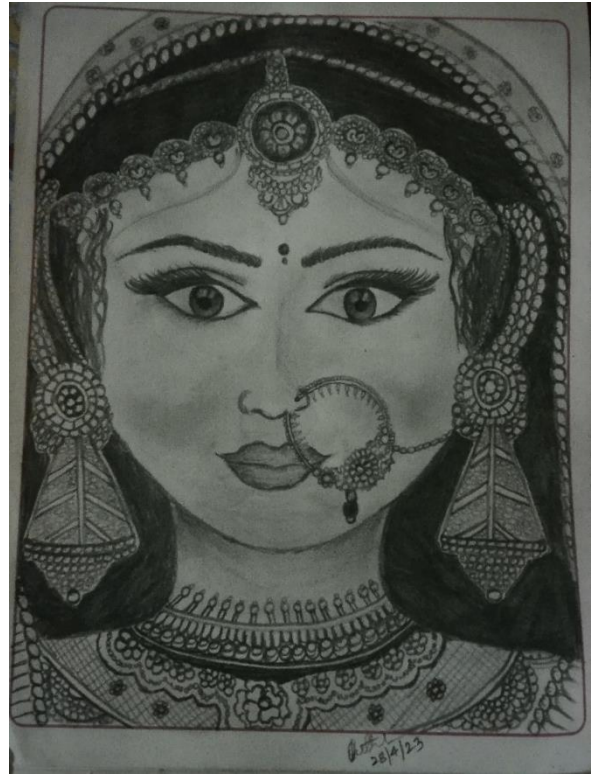


*“Engineering Minds, Creative Minds Exploring Finds.”*

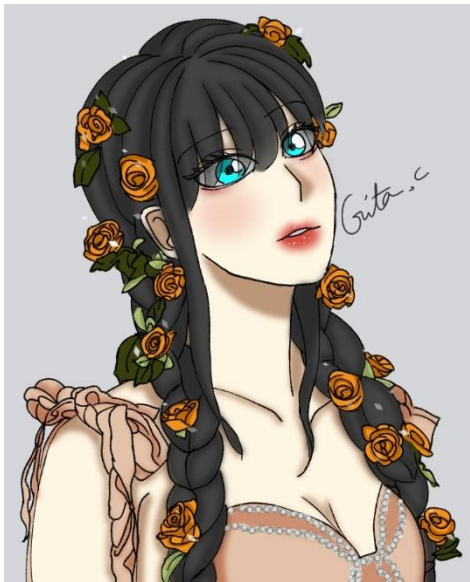
# DRAWINGS



Karan Kumar S  
3<sup>rd</sup> semester

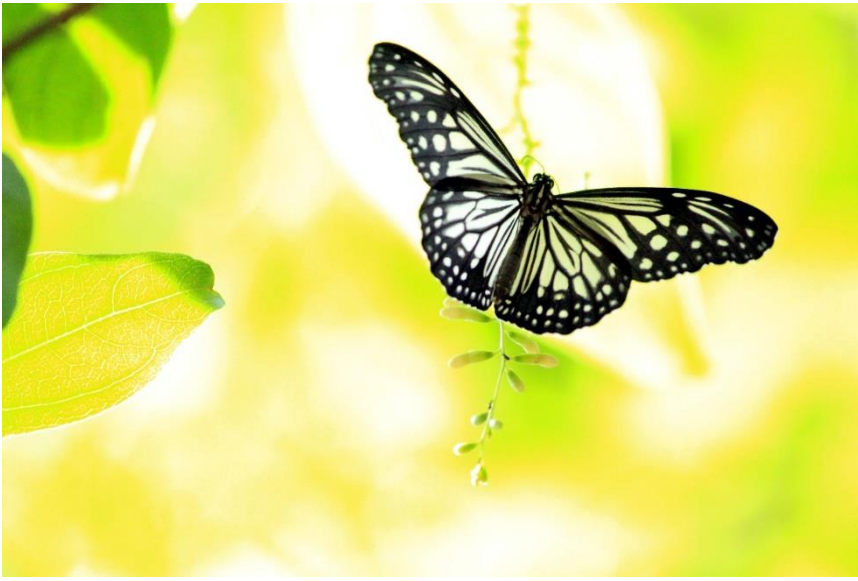


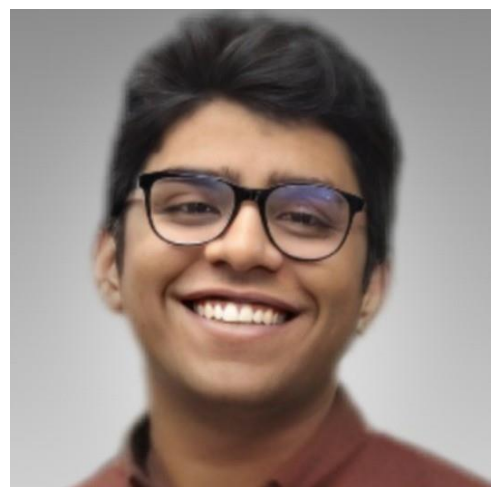
Kruthika C S  
7<sup>th</sup> semester



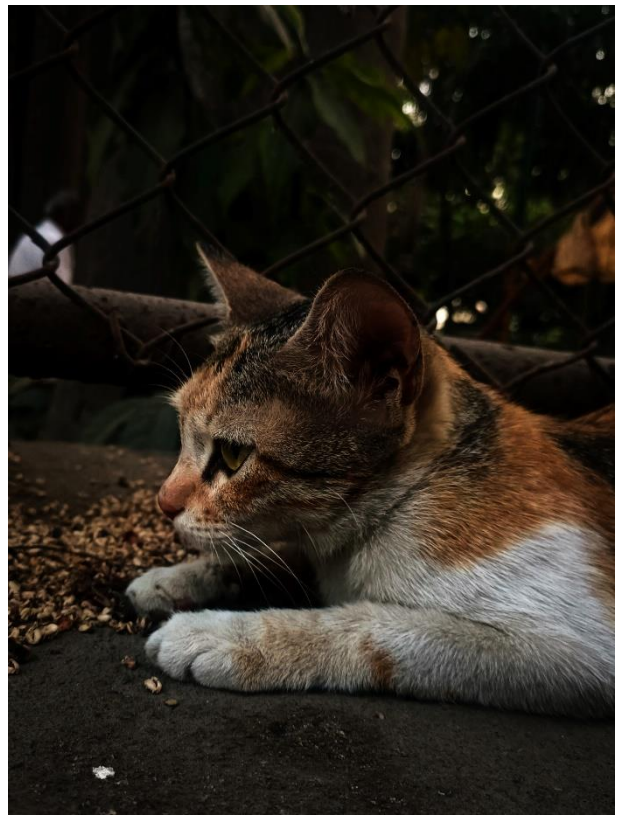
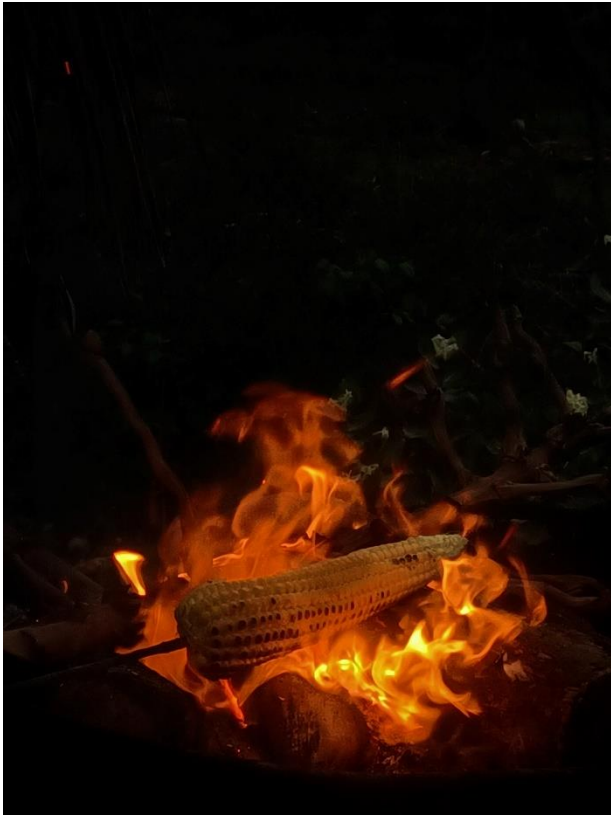
Geetha C  
5th semester

# PHOTOGRAPHY





**Gourang A M**  
**3<sup>rd</sup> semester**



Sumanaa B S  
3<sup>rd</sup> semester



# INFORMATION SCIENCE



*“Bytes of Brilliance: Weaving Insights from Information.”*

# INFORMATION SCIENCE ENGINEERING

## Magazine co-ordinator



**Mrs. Nandini D**  
Assistant Professor

## Student co-ordinators



**Nidhi**  
7<sup>th</sup> semester



**Esha**  
7<sup>th</sup> semester



**Shreyas**  
7<sup>th</sup> semester

# DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING



**Dr. DIVAKAR HAREKAL**  
Professor and Head

## *VISION*

To be a department for excellence in education in information science and engineering, research, innovation, and work towards empowering students for professional competence and entrepreneurial skills

## *MISSION*

- M1:** To provide state-of-the-art infrastructure with modern and innovative teaching methodologies.
- M2:** To encourage and nurture collaborative and interdisciplinary projects that aid academic and industrial research.
- M3:** To promote activities that helps our students inculcate ethical practices and entrepreneurial Skills.

## Message from the HOD

I am extremely happy that **JITimes 2023–24** is being released. The magazine is a means for students and faculty to exhibit their creative skills. It provides a vibrant platform for sharing their technical knowledge and innovative ideas. The faculty of the department leaves no stone unturned in nurturing the students to express themselves within and outside of their classes.

The department's endeavors produce confident professionals, tuned to a real-time working environment.

Students actively team up with the faculty to work on collaborative projects, from which they tend to imbibe the required skills and benefit a lot from their understanding of current opportunities and challenges while developing new technologies within the realm of information science.

# TEACHING FACULTY

NAME	DESIGNATION	QUALIFICATION
Dr. Divakar Harekal	Professor and Head	M.Tech., Ph.D.
Dr. Kishore G.R.	Associate Professor	M.Tech., Ph.D.
Dr. Abhishek Kulkarni	Associate Professor	M.Tech., Ph.D.
Mrs. Rashmi K S	Assistant Professor	M.Tech, (Ph.D)
Mrs. Anupama V P	Assistant Professor	M.Tech, (Ph.D)
Mrs. Nandini D	Assistant Professor	M.Tech
Ms. Rakshatha S	Assistant Professor	M.Tech, (Ph.D)
Mr. Manjesh B N	Assistant Professor	M.Tech, (Ph.D)
Mr. Avinash N Rao	Assistant Professor	M.Tech
Ms. Shilpa Narayan	Assistant Professor	M.Sc
Mr. Mukesh Kamath Bola	Assistant Professor	M.Tech

## NON TEACHING FACULTY

NAME OF STAFF	DESIGNATION
Mr. Prajwal Patil	Instructor
Mr. Rahul N	Instructor
Mr. Abhishek G S	Programmer
Mr. Naveen Kumar P R	SDC
Mr. Sunila V	Programmer

## DEPARTMENT ADVISORY BOARD

NAME	DESIGNATION
Dr. Dinesh R	Principal Engineer, Samsung Electro-Mechanics
Dr. R Balakrishna	Professor, CSE Dept. Rajarajeshwari College of Engineering
Dr. S. Balaji	Professor, CSE Dept., JIT
Dr Divakar Harekal	Professor and Head, Department of ISE, JIT

## FACULTY CERTIFICATIONS

Prof. Nandini D was awarded a certificate for successfully completing the “**Effective Teaching Workshop**”, hosted by Distinguished Professor Pankaj Jalote from IIT Delhi on 9<sup>th</sup> October, 2023.

Prof. Rashmi KS was awarded a certificate for successfully attending the “**AI-MPOWER**” Program offered by ZenteiQ from November 6 to December 9, 2023.

Prof. Mukshesh Kamath was awarded a certificate for completing the “**Certified ScrumMaster (CSM)**” on April 28<sup>th</sup>, 2024, issued by the Scrum Alliance, Inc located in Denver, CO, US.

Prof. Rashmi K S successfully completed the “**NSM HPC Systems & AI: From Theory to Practice**” course under the CSIR-4PI Skill Development Programme in collaboration with C-DAC from July 4 to July , 2024 and was awarded a certificate of participation and completion for the same.

## FACULTY PUBLICATIONS

Shilpa Narayan published a paper titled “**Air-Writing Segmentation using a single IMU-based system**” in the 2023 19th International Conference on Intelligent Environments (IE), Unicity, Mauritius, 2023

Prof. Anupama V P published a paper titled “**Redefining Mobility: Deep Learning-Assisted Obstacle Detection**” in IJERT -International Journal of Engineering Research & Technology during May 2024.

Prof. Nandini D published a paper titled “**Deep Trace: Unravelling Deepfakes Through LTSM Analysis** ” in IJRESM - International Journal of Research in Engineering, Science and Management during April 2024.

Dr. Kishore G R was published an article with paper ID “TIJER2403126” entitled “**Determination of age and gender using dental X-ray:-forensic**” in TIJER-INTERNATIONAL RESEARCH JOURNAL Published in Volume 11 Issue 3, March-2024, ISSN: 2349-9249.

Mr. Avinash N Rao published an article with paper ID “TIJER2404082” entitled “**BEACH SAND ROVER: Autonomous Wireless Beach Cleaning Rover**” in TIJER-INTERNATIONAL RESEARCH JOURNAL in Volume 11 Issue 4, April-2024, ISSN: 2349-9249.

Dr. Kishore G R published an article with paper ID “TIJER2404045” entitled “**AI-Driven resume and company screening for Optimized candidate and company selection process**” in TIJER-INTERNATIONAL RESEARCH JOURNAL Published in Volume 11 Issue 4, April-2024, ISSN: 2349-9249.

Mr. Avinash N Rao was awarded the certificate of publication for publishing the article with paper ID “TIJER2405102” entitled “**Real-Time Multi-Gases Detection and Alert System**” in TIJER-INTERNATIONAL RESEARCH JOURNAL Published in Volume 11 Issue 5, May-2024, ISSN: 2349-9249.

## **STUDENT-RESEASRCH PUBLICATIONS**

M.Abhishek, M.Adithya, G.Anirudha, V. Charmyka Reddy were awarded the certificate of publication for publishing the article entitled **Deep Trace: Unravelling Deepfakes Through LSTM Analysis** in Volume 7, Issue 4, April 2024 in the International Journal of Research in Engineering, Science and Management, ISSN: 2581-5792.

Charan B A, Vivek Singh, R Jeevan Kashyap, Harshil S were awarded the certificate of publication for publishing the article with paper ID “IRJMETS60500211468” entitled “**ALZCARE: MOBILE-ACCESSIBLE IOT SOLUTION FOR ALZHEIMER’S LOCATION AND HEALTH TRACKING**” in International Research Journal Of Modernization In Engineering Technology And Science (IRJMETS), Volume 06, Issue 05, May 2024, e-ISSN: 2582-5208.

Chaitanya B K, Hemanth Kumar N P, Koustubh Krishna Sadalagi, Naveen Kumar N were awarded the certificate of publication for publishing the article with paper ID “IRJMETS60500148863” entitled “**BRAIN TUMOR DETECTION USING CNN AND INTEGRATING GEMINI PROVISION MODEL**” in International Research Journal Of Modernization In Engineering Technology And Science (IRJMETS), Volume 06, Issue 05, May 2024, e-ISSN: 2582-5208.

Rakshith Tarun S, Mithun R, Deepak R P, Ujwal S C were awarded the certificate of publication for publishing the article with paper ID “TIJER2404082” entitled “**BEACH SAND ROVER: Autonomous Wireless Beach Cleaning Rover**” in TIJER-INTERNATIONAL RESEARCH JOURNAL Published in Volume 11 Issue 4, April-2024, ISSN: 2349-9249.

Deepthi G, Prerana R, Ananya M N, Adithi S were awarded the certificate of publication for publishing the article with paper ID “TIJER2403126” entitled “Determination of age and gender using dental x-ray:-forensic” in TIJER-INTERNATIONAL RESEARCH JOURNAL Published in Volume 11 Issue 3, March-2024, ISSN: 2349-9249.

Chandra Lekha C, Manohar S, Mahalakshmi H C, Niharika N S was awarded the certificate of publication for publishing the article with paper ID “TIJER2404045” entitled “AI-Driven resume and company screening for Optimized candidate and company selection process” in TIJER-INTERNATIONAL RESEARCH JOURNAL Published in Volume 11 Issue 4, April-2024, ISSN: 2349-9249.

Shalini H, Nireeksha N were awarded the certificate of publication for publishing the article with paper ID “TIJER2405102” entitled “Real-Time Multi-Gases Detection and Alert System” in TIJER-INTERNATIONAL RESEARCH JOURNAL Published in Volume 11 Issue 5, May-2024, ISSN: 2349-

## **CONFERENCE/WORKSHOP/FDP ATTENDED BY FACULTY**

Prof. Nandini D successfully completed the “Effective Teaching Workshop”, hosted by Distinguished Professor Pankaj Jalote from IIT Delhi on 9<sup>th</sup> October, 2023.

Prof. Rashmi KS successfully attended the “AI-MPOWER” Program offered by ZenteiQ from November 6 to December 9, 2023.

Prof. Rashmi K S successfully completed the “NSM HPC Systems & AI: From Theory to Practice” course under the CSIR-4PI Skill Development Programme in collaboration with C-DAC from July 4 to July 5, 2024.


## **BEST OUTGOING STUDENTS**

Prerana R and Deepthi G were awarded the silver ring for the title of best outgoing students from the department of ISE.

Prerana R was a core member of the BitsNBites club for the position of “NAPSTER” and was also the “President” of the Rotaract Club of JIT.

Deepthi G was a core member of the BitsNBites club for the position of “F.R.I.D.A.Y” and was also “The Sergeant in Arms” of the Rotract Club of JIT.

<b>PRERANA R</b>		
<b>USN:1JT20IS028</b>	<b>Sem</b>	<b>GPA</b>
	<b>I</b>	<b>8.05</b>
	<b>II</b>	<b>8.95</b>
	<b>III</b>	<b>8.75</b>
	<b>IV</b>	<b>7.67</b>
	<b>V</b>	<b>8.30</b>
	<b>VI</b>	<b>8.92</b>
	<b>VII</b>	<b>8.45</b>
	<b>VIII</b>	<b>9.00</b>
<b>Cum. GPA(CGPA): 8.51</b>		

<b>DEEPTHI G</b>		
<b>USN:1JT20IS013</b>	<b>Sem</b>	<b>GPA</b>
	<b>I</b>	<b>7.30</b>
	<b>II</b>	<b>8.70</b>
	<b>III</b>	<b>7.46</b>
	<b>IV</b>	<b>7.63</b>
	<b>V</b>	<b>7.36</b>
	<b>VI</b>	<b>7.67</b>
	<b>VII</b>	<b>7.25</b>
	<b>VIII</b>	<b>8.67</b>
<b>Cum. GPA(CGPA): 7.76</b>		

## GAMEATHON

The 6th annual gameathon was held from December 7th to 8th, 2023, at Jyothy Institute of Technology, with a lot of people who love gaming eagerly awaiting it. It was a platform for showcasing skills and creativity in gaming developed by gamers, developers, and other people who have a passion for it.

Organized by the Department of Information Science and Engineering in association with the student club BitsNBytes, it is recognized as one of the most interesting and popular game development competitions across the country. This 24-hour game development competition attracts budding developers and gaming enthusiasts, providing them with a platform to showcase their creativity, technical skills, and innovation in game development.

The game creation marathon received positive feedback for allowing participants to learn, innovate, and connect with peers and professionals in the field who appreciated the opportunity while giving it a touch of excellence. Notably, the event benefitted from the expertise of judges hailing from Zimbabwe, contributing to the event's diversity and global representation. It created an environment of collaboration that encouraged quite a number of people to consider furthering their education or taking up game development as a career.



# BITSNBYTES

BitsNBytes is a student coding club established in the year 2021 by ISE student Ruthvik under the guidance of Dr. Harsha and Prof. Vadiraj. This is a non-profit club that aims to help the students bridge the gap between their theoretical and practical knowledge in various fields of engineering at our college.

## Roles And Responsibilities

1. Captain Code – Pranav Prasad - Lead of the club
2. F.R.I.D.A.Y – D Yashaswini - Lead of the club
3. J.A.R.V.I.S – Srivatsa G, Anirudh Bharadhwaj, Kushal Kumar B P
4. Code Siren – B S Shreesha, Prajna G, Pranav K R
5. Napster – Vandana S, Sudeepthi Rao, Amogh N K

## Project Exhibition:

Project exhibition was held as a national level inter-collegiate event in association with CSI, which was held online where students can showcase their projects on various topics. It was started in the year 2021

## Various activities held under the club:

# 1. AL-GO-RHYTHM

The introduction of department members to freshmen is a celebration, welcoming new students into the academic community. Held at the start of the year, it features speeches from key faculty and senior students, sharing insights, guidance, and experiences. The event includes ice-breaking activities, mingling sessions, and a celebratory meal, fostering a sense of belonging and motivation among new students.



A website-building competition that challenges participants to create innovative and functional websites within a specified timeframe. Teams or individuals are judged on criteria such as design, usability, content, creativity, and technical proficiency. Competitors often use various programming languages and tools, showcasing their web development skills. Such competitions provide an excellent platform for networking, learning, and gaining practical experience in web development.



# FULL STACK DEVELOPMENT WORKSHOP

On a recent date, a three-day workshop on full-stack development took place, intending to give people the necessary knowledge needed to create and control web applications. This type of training was meant to serve people who are either newcomers in the field of IT or those who have been around for some time now; hence, it provided real-life examples that touch on the use of both front-end and back-end technologies.

The workshop was taken care of by Chandrashekar Rao Kuthyar, and the sessions were held on full-stack development concepts. The workshop involved resourceful and very engaging topics, which were covered with conscious effort and sincere dedication.

## Front-End Development

### Topics Covered:

1. HTML & CSS:
2. JavaScript:
3. Frameworks and Libraries:

## Day 2: Back-End Development

### Topics Covered:

1. Databases:
2. Authentication and Security:

## Day 3: Full Stack Integration

### Topics Covered:

1. Connecting Front-End and Back-End:
2. Deployment



### 3. Version Control

The workshop concluded with the sharing of experiences and suggestions by participants in a feedback session. This was followed by a networking section that enabled the attendees to connect with others from their industries in peer groups and with some professionals, thereby promoting cooperation that may lead them to prospects regarding full-stack development areas.

## ISE INDUSTRIAL VISIT : MASTER CONTROL FACILITY(MCF), HASSAN

On June 28, 2024, the students of the 4th semester of ISE had the unique privilege of visiting the Indian Space Research Organization's (ISRO) Master Control Facility (MCF), located in Hassan. The visit provided us with a comprehensive insight into the intricate world of satellite technology, its functions, and the impressive efforts that go into managing space operations.

The day began with an engaging hour-long presentation that delved into the fundamental principles of satellites. The presentation covered their various functions, including communication, navigation, remote sensing, and scientific research. We were introduced to the complexities of satellite orbits, understanding how they are positioned in space and the factors that influence their trajectories. This foundational knowledge laid the groundwork for a deeper understanding of the subsequent experiences during our visit.

Following the presentation, we embarked on a guided tour of the MCF facility. Our first stop was a workspace where experts were meticulously scanning images of Earth. These images were not only visually captivating but also held great significance in the field of weather forecasting. We learned how the images captured by satellites are processed and analyzed to provide accurate and timely weather predictions. Witnessing the convergence of advanced technology and meteorological science was truly inspiring.



# PROJECT EXHIBITION:

Jyothy Institute of Technology organized a one-day project exhibition and competition showcasing all 8th-semester projects across departments. The Department of Information Science and Engineering (ISE) welcomed Dr. Vindhya P. Malagi as the jury for the event, which featured presentations from all ISE final year projects.

Approximately 50 final-year students participated, presenting their projects in 13 groups. Projects spanned diverse fields such as IoT, AR/VR, health care, natural language processing, and artificial intelligence in education.

Teams that won the accolades for their work-

## First prize

USN	Student Name	Guide	Project Title
1JT20IS031	Rakshitha K R	Prof. Nandini D	Sign2Sound Assistant: Empowering Sign Language with voice
1JT20IS034	Samraddha M S		
1JT20IS043	Surabhi R Rao		
1JT20IS050	Venkat C		

## Second Prize

USN	Student Name	Guide Name	Project Title
1JT20IS010	D KS Jhanavi	Prof. Rakshatha S	Rightsmate: Virtual Assistant for Indian Constitutional Fundamental Rights Awareness
1JT20IS035	Sathvik P Narayan		
1JT20IS038	Shishira S Bayari		
1JT20IS040	Soumya M Hebbar		

USN	Student Name	Guide Name	Project Title
1JT20IS039	Shreyas S	Dr. Kishore G R	Missing Person and Vehicle Recognition using Computer Vision
1JT20IS049	Varun V		
1JT20IS045	Tejas Raghavendra		
1JT20IS032	Saatvik S Shastry		

## Consolation prize

1JT20IS020	Koustubh K S	Prof. Manjesh B N	Explainable Brain Tumor Detection
1JT20IS018	Hemanth Kumar N P		
1JT20IS024	Naveen Kumar		
1JT20IS007	Chaitanya B K		

## Snapshots of the event:



# BLUETICKS

Born from the vibrant minds of Information Science Engineering students at JIT College, Blueticks is more than just a start-up—it's a testament to the power of youthful creativity and technical prowess.

Blueticks is an IT company that provides tailored solutions for creating high-quality web applications, delivering exceptional digital experiences. Founded by Satvik P Narayan and his dedicated team, Blueticks has successfully addressed numerous IT challenges, driving improved business outcomes.

**Vision** - Everybody wants to build technology for big companies like McDonalds and Dominoes ... We are building technology for standing and eating fast food restaurants, small restaurants and cloud kitchens.

The overview highlights how the start-up leverages ONDC (Open Network for Digital Commerce) to enhance efficiency and satisfaction by streamlining kitchen orders and reducing delivery costs for both standing-eating restaurants and cloud kitchens.

A special thanks to Shreyas Kashyap and Varun D Kumar for their initiative and support in building this startup and making a positive impact.



## INTERNSHIP DETAILS (2020 BATCH)

Sl.No	Name	USN	Company	Stipend
1.	Adithi S	1JT20IS002	Appzui Technologies Pvt Ltd	Rs.3000/-
2.	Ananya MN	1JT20IS004	iCube Consulting Services	Rs.10,000/-
3.	Ananya MN	1JT20IS004	Shyena Solutions	Rs.8000/-
4.	Chanda Lekha C	1JT20IS008	Celominds Pvt Ltd	Rs.12,000/-
5.	Charan B A	1JT20IS009	ATS Power Solutions Pvt Ltd	Rs.5000/-
6.	D K S Jahnavi	1JT20IS010	Celominds Solutions Private Limited	Rs.12,000 /-
7.	Dashami raj	1JT20IS011	Scontinent technologies	Rs.5000/-
8.	Dashami raj	1JT20IS011	Locate us	Rs.5000/-
9.	Deepak R.P	1JT20IS012	Seventh sense solutions	Rs.6000/-
10.	Deepthi.G	1JT20IS013	ScienceUtsav	Rs.5000/-
11.	Harsha S	1JT20IS014	Animisha Technologies Pvt. Ltd.	Rs.1500/-
12.	Harsha S	1JT20IS014	Codesight Global Solutions Pvt. Ltd.	Rs.5000/-
13.	Harshil	1JT20IS015	ATS Power Solutions Pvt Ltd	Rs.5000/-
14.	Harshitha BS	1JT20IS016	Codesight Global Solutions Pvt. Ltd	Rs.5000/-
15.	Harshitha M Gudibande	1JT20IS017	HSMCIL	Rs.15,000/-
16.	Harshitha M Gudibande	1JT20IS017	Shyena Solutions	Rs.8000/-
17.	Keerthana R	1JT20IS019	Locate Us	Rs.5000/-
18.	Keerthana R	1JT20IS019	Scontitent Technologies Pvt Ltd	Rs.5000/-
19.	Koustubh	1JT20IS020	Oregano solutions	Rs.25,000/-
20.	Mahalakshmi H C	1JT20IS021	Shyena Solutions	Rs.8000/-
21.	Nireeksha N	1JT20IS026	Codesight Global Solutions Pvt. Ltd	Rs.5000/-

22.	Nishan N	1JT20IS027	Animisha Technology Pvt Lt	Rs.3000/-
23.	Nishan N	1JT20IS027	Codesight Global Solutions Pvt. Ltd	Rs.5000/-
24.	Prerana R	1JT20IS028	Science Utsav	Rs.5000/-
25.	R Jeevan Kashyap	1JT20IS029	ATS Power Solutions Pvt Ltd	Rs.5000/-
26.	Rakshitha K R	1JT20IS031	Fidelis Technologies	Rs.15,600/-
27.	Saatvik Shastry	1JT20IS032	Next Big Innovation Labs	Rs.15,000/-
28.	Sathvik P Narayan	1JT20IS035	Animisha Technology	Rs.3000/
29.	Shalini H	1JT20IS036	Airobosoft	Rs.1000/-
30.	Sharanya	1JT20IS037	Shine logistics solutions	Rs.5000/-
31.	Shishira Bayari	1JT20IS038	Briobrill technology	Rs.8000/
32.	Shishira Bayari	1JT20IS038	Xtendr	Rs.6000/-
33.	Shreyas	1JT20IS039	Zolve	Rs.30,000/-
34.	Shreyas	1JT20IS039	Zolve	Rs.30,000/-
35.	Sriram B.S	1JT20IS041	Codesight Global Solutions Pvt. Ltd	Rs.5000/-
36.	Surabi R Rao	1JT20IS043	ZenDynamix Software pvt ltd	Rs.4500/-
37.	Tejas Raghavendra	1JT20IS045	Bosch Global Software Technologies	Rs.25,000/-
38.	Tejas Raghavendra	1JT20IS045	Fisdome	Rs.20,000/-
39.	Thanuja Shree K	1JT20IS046	AI robosoft	Rs.1000/-
40.	Varun V	1JT20IS049	Celominds	Rs.12,000/-
41.	Venkat C	1JT20IS050	Celominds Solutions Pvt Ltd	Rs.12,000/-
42.	Vijayalakshmi.R	1JT20IS051	Scontii technologies	Rs.5000/-
43.	Vivek Singh	1JT20IS052	Odigma consultant solution	Rs.4000/-

# CELEBRATING OUR RECENT SPORTS ACHIEVEMENTS:

Our college is committed to providing extensive exposure and opportunities for our students to excel in sports. By actively participating in various sports events across the state, we ensure that our athletes gain valuable experience, develop their skills, and build camaraderie. This dedication to fostering a vibrant sports culture is evident in our recent achievements.

We are thrilled to announce our remarkable success in recent tournaments. Their hard work, dedication, and team spirit have truly paid off, and we are proud to share their accomplishments with our community.

First, our team emerged as the champions of the VTU State Level Women's Throwball Tournament (South Division). This highly competitive tournament brought together top teams from universities across the southern division. Our players demonstrated exceptional skill and strategy, overcoming formidable opponents through a series of intense matches. Their victory in this tournament is a testament to their relentless effort and the excellent coaching they have received.



Additionally, our team secured the winners' title at the Dr. B. N. V. Subramanyam Memorial Sports Meet. This prestigious event, named in honor of Dr. B. N. V. Subramanyam, features a wide array of sports competitions. Our women's throwball team shone brightly, dominating the competition with their coordination and teamwork. Winning this title not only highlights their talent but also brings honor to our college.



Furthermore, our team made a significant mark at the Bhavana Gangadhar Memorial State-Level Tournament, where they finished as runners-up. This state-level event is known for its high standard of play and attracts the best teams from across the state. Our players faced intense challenges and displayed remarkable resilience and sportsmanship. Their journey to the finals was filled with memorable moments, showcasing their determination and skill. Although they narrowly missed the top spot, their performance was truly commendable and has set a high standard for future competitions.

These achievements reflect the dedication and hard work of our athletes and coaches. We congratulate them on their outstanding performances and look forward to their continued success in the future. Let's celebrate our team's victories and support them as they aim for even greater heights!

# CELEBRATING OUR ACHIEVERS

At Jyothy Institute of Technology, we are dedicated to nurturing the growth and development of our students. Our institution provides a supportive environment that encourages academic excellence, innovative thinking, and holistic development. We believe in recognizing and celebrating the achievements of our students through various accolades and awards. One such honor is the Achievers Award, which is bestowed upon students who excel in various fields, demonstrating exceptional talent, dedication, and hard work.


We are proud to announce that three of our outstanding students, Sathvik P. Narayan (1JT20IS035), Harsha S. (1JT20IS014), and Swaroop B. N. (1JT20IS044), have received the prestigious Achievers Award from the college. This recognition is a testament to their commitment to excellence and their remarkable contributions to our academic community.


These students exemplify the values and standards that Jyothy Institute of Technology strives to instill in all its students. We congratulate Sathvik, Harsha, and Swaroop on their remarkable achievements and are confident that they will continue to excel and make us proud in their future endeavors. Let's celebrate their success and support them as they continue to reach new heights!

## **NPTEL/EXTERNALCOURSES COMPLETED BY STUDENTS**

<b>Name</b>	<b>USN</b>	<b>Certification</b>
Aditya Sharma	1JT21IS002	Red Hat Certified System Administrator
Hariharan R	1JT21IS020	Red Hat Certified System Administrator
Nidhi M R	1JT21IS033	Red Hat Certified System Administrator
Nishitha S	1JT21IS036	Red Hat Certified System Administrator
Srivatsa G	1JT21IS053	Red Hat Certified System Administrator
Sudhanva N	1JT21IS056	Red Hat Certified System Administrator

## BRANCH TOPPERS - 2024

<b>D K S JAHNAVI</b>		
<b>USN:1JT20IS010</b>	<b>Sem</b>	<b>GPA</b>
	<b>I</b>	<b>7.70</b>
	<b>II</b>	<b>8.75</b>
	<b>III</b>	<b>8.04</b>
	<b>IV</b>	<b>8.54</b>
	<b>V</b>	<b>8.56</b>
	<b>VI</b>	<b>8.71</b>
	<b>VII</b>	<b>8.60</b>
	<b>VIII</b>	<b>9.50</b>
<b>Cum. GPA(CGPA): 8.55</b>		

<b>PRERANA R</b>		
<b>USN:1JT20IS028</b>	<b>Sem</b>	<b>GPA</b>
	<b>I</b>	<b>8.05</b>
	<b>II</b>	<b>8.95</b>
	<b>III</b>	<b>8.75</b>
	<b>IV</b>	<b>7.67</b>
	<b>V</b>	<b>8.30</b>
	<b>VI</b>	<b>8.92</b>
	<b>VII</b>	<b>8.45</b>
	<b>VIII</b>	<b>9.00</b>
<b>Cum. GPA(CGPA): 8.51</b>		

# STUDENTS' ARTICLES



*“Engineering Minds, Creative Minds Exploring Finds.”*

# ARTICLES

## Godly Woman

Welcome to the Home Of Wreck! This place is all about a remarkable woman who tirelessly fills the void of hungry children. She's like a boss lady, known as the "Kaam Waali" (housekeeper), proudly strutting her stuff like a majestic peacock. She's a real superhero, with a tough exterior that's unbreakable. She's a role model in our modern society, living among snobby aristocrats and highly educated folks. And you know what? She never shows any signs of insecurity. She's just content with who she is.

No matter how tough things get, she stands strong. Even as her feet and limbs age, they never seem to tire. She works tirelessly, making our house shine as bright as the sun. Pessimism? Nope, not in her blood. She's filled with serotonin and willpower, which keeps her going strong and out of bed.

But here's the thing: she has her moments of sadness too. Every day, she battles with the feeling of being consumed. It's like she doesn't have the strength to fight back. Sometimes, it feels hopeless to stand up against the forces of evil. This has led to immense pain and misery. She often wishes she had a sword to vanquish all the wickedness.

So, welcome to the Home Of Wreck, where you'll find a remarkable woman who's both a superhero and a vulnerable human being. Stick around, and you'll discover the incredible stories that lie within.

## MANTO

Manto is often hailed as one of the most influential writers of the pre-independence era, whose impact on our understanding of human psychology and the harsh realities of society runs deep. His works primarily delve into themes like human hypocrisy, double standards, the mistreatment of women, the struggles of the poor, and more. Controversial and raw, Manto's writings vividly depict the grim truths of our society. They leave readers questioning and pondering over the complex and daring scenarios he presents.

In his stories, Manto skillfully weaves in themes and symbolism that directly reflect his views. Some notable references from his works include "Dhuan," "bu," "Kali Salwar," "Khol Do," "Thanda Ghost," and "Upar Neeche Darmiyaan." Each of his works tells a tale of chilling cruelty and a stark portrayal of reality.

Manto's bold choices and decisions often landed him in trouble, with multiple legal actions taken against him. He can be seen as a revolutionary figure in the field of literature. His pieces are both shocking and deeply moving, leaving readers immersed in a world of cynicism.

For a deeper understanding of Manto's works, let's take a closer look at "Khol Do." This tragic story revolves around a father desperately searching for his daughter, who went missing during the partition period, causing immense distress. In that chaotic time, there were groups of men who helped reunite families. The father approaches them, hoping they can find his daughter. To his dismay, once they locate a girl who matches the given description, they end up subjecting her to a horrific act of rape. This incident leaves her traumatized and scarred for life. After a few days, her lifeless body is discovered on the railway tracks and taken to the nearest hospital. When the doctor requests to examine her, she immediately opens her trousers, shocking the doctor who wasn't prepared for such a response.

This story sheds light on the unfathomable atrocities that exist within our society. Manto's works bring forth the darker shades of reality, leaving a profound impact. Through his writings, he cries out for help and subtly urges readers to bring about change. He is truly one of a kind and has undeniably left behind a legacy that challenges blind morality and explores the root causes of societal misery.

## Depiction of bonding geniuses

A bond that will never be forgotten, wondering who these two might be. Well, they are well-known mathematicians whose friendship was inseparable. They were born aristocrats in the field of mathematics.

Their strong friendship completely moved me. They showed how kindness, passion, and many virtues can improve things (morally speaking).

Mr. Hardy, an adamant atheist, was convinced to believe in God through Ramanujan's ideology. Mr. Ramanujan believed that his mathematics meant nothing without the Goddess Namagiri, in whom he had immense faith. Mr. Hardy, a man of intuition, led his life based on the belief that God was absurd and hard to believe in. He was a bit cold-hearted, with no family or emotional attachments, which made it difficult for him to form relationships with others. He didn't give much thought to human existence. The only thing he cared deeply about was mathematics. His sole aim was to contribute his work by pouring dedication and hard work into the field of numbers.

He connected so well with Ramanujan because of his works filled with immortal originality and his unique approach to problems. Every positive integer was his closest friend, as mentioned by Littlewood. The only two things he deeply admired were Goddess Namagiri and Mathematics.

They greatly impressed the world by proving that they were chosen right in their duty to carry the responsibility of beings with profound knowledge, which was one of the greatest gifts for humankind.

Ramanujan faced numerous treacherous obstacles. He wasn't well-liked by many of the noble members of Trinity University simply because he was an Indian citizen. Despite inventing groundbreaking formulas, he wasn't appreciated. However, the only person who believed in him and recognized Ramanujan's talent through his works was Mr. Hardy. In their last five years together, they worked tirelessly on the subject of partitions and achieved great success. Ramanujan was so passionate about mathematics that even

though he suffered from advanced tuberculosis, causing excruciating pain and intense coughing, he remained dedicated to working on the proofs that Mr. Hardy emphasized, as his work needed to be published, which was Ramanujan's primary goal.

Unexpectedly, Ramanujan was unaware that there was more to come his way. Yet, he faced every situation with unwavering determination, without a trace of cowardice in his eyes. He was a man of his word, consistently demonstrating originality, and he possessed a humble nature, showing no pride in being a genius. He was quite careless about his health and wasn't vigilant, which ultimately led to his passing at a very young age, leaving behind a legacy that cannot be surpassed.

**Eesha Baliga**  
7<sup>th</sup> semester



## संस्कृतभाषायाः महत्वं

संस्कृतभाषा विश्वस्य सर्वासु भाषासु प्राचीनतमा सर्वोत्तमसाहित्यसंयुक्ता चास्ति संस्कृता परिशुद्धा व्याकरणसम्बन्धिदोषादिरहिता संस्कृतभाषेति निगहाते । प्राचीने समये एबैव भाषा सर्वसाधारणा आसीत् । सर्वे जनाः संस्कृतभाषाम् एव वदन्ति स्मा एषा एवं अस्माकं पूर्वजानाम् आर्याणां सुलभा, शोभना, गरिमामयी च वाणी । संस्कृतभाषायामेव विश्वसाहित्यस्य सर्वप्राचीनग्रन्थाः चत्वारो वेदाः सन्ति येषां महत्त्वमद्यापि सर्वोपरि वर्तते । भास - कालिदास - अश्वघोष- भवभूति-दण्डि- सुबन्धु- बाण - जयदेव प्रभृतयो महाकवयो नाटककाराश्च संस्कृतभाषायाः एव । जीवनस्य सर्वसंस्कारेषु संस्कृतस्य प्रयोगः कालिदास - अश्वघोष- भवभूति - दण्डि- सुबन्धु- बाण जयदेव प्रभृतयो नाटककाराश्च संस्कृतभाषायाः एव । जीवनस्य सर्वसंस्कारेषु संस्कृतस्य प्रयोगः भवति ।

अधुनाऽपि सङ्गणकस्य कृते संस्कृत भाषा अति उपयुक्ता अस्ति । संस्कृतभाषैव भारतस्य प्राणभूता भाषा अस्ति राष्ट्रस्य ऐक्यं च साधयति । भारतीय गौरवस्य रक्षणाय एतस्याः प्रसारः सर्वैरेव कर्तव्यः । अत एव उच्यते - 'संस्कृतिः संस्कृताश्रिता ।

- सुदीप्ति राव पी.स



**Sudeepthi Rao**  
7<sup>th</sup> semester

## ಕನ್ನಡ ಸಾಹಿತ್ಯದ ಮೇಲೆ ಸಂಸ್ಕೃತ ಸಾಹಿತ್ಯದ ಪ್ರಭಾವ

ಭಾರತದ ಪ್ರಾಚೀನ ಭಾಷೆಗಳಲ್ಲೊಂದಾದ ಸಂಸ್ಕೃತ ಕರ್ನಾಟಕದಲ್ಲಿ ಬಹು ಹಿಂದಿನಿಂದಲೂ ಪ್ರಚಾರದಲ್ಲಿದ್ದು ಧೀರ್ಘವಾದ ಇತಿಹಾಸವನ್ನು ಹೊಂದಿದೆ. ಸಂಸ್ಕೃತ ಭಾಷೆ ಹಾಗೂ ಸಾಹಿತ್ಯವು ಕನ್ನಡ ಸಾಹಿತ್ಯದ ಮೇಲೆ ಒಂದಿಲ್ಲೊಂದು ರೀತಿಯಲ್ಲಿ ಪ್ರಭಾವಿಸಿದೆ ಎಂದರೆ ತಪ್ಪಾಗಲಾರದು. ಕನ್ನಡ ಸಂಸ್ಕೃತದ ಜನ್ಯ ಎಂಬುವಷ್ಟರ ಮಟ್ಟಿಗೆ ಸಂಸ್ಕೃತದ ಪ್ರಭಾವ ಗಾಢವಾಗಿ ಬೀರಿದೆ. ಕನ್ನಡ ಸಂಸ್ಕೃತದ ಜನ್ಯ ಎಂಬುದು ತಪ್ಪು ಕಲ್ಪನೆಯಾದರೂ ಕನ್ನಡ ಸಾಹಿತ್ಯದ ಮೇಲೆ ಸಂಸ್ಕೃತದ ಆಳವಾದ ಪ್ರಭಾವವಿದೆ ಎಂದರೆ ತಪ್ಪಾಗಲಾರದು.

ಕನ್ನಡ ಸಂಸ್ಕೃತದಿಂದ ಹುಟ್ಟಿದ್ದು ಎಂಬುದು ಒಂದು ಕಾಲದಲ್ಲಿ ವಿದ್ವಾಂಸರ ಅಭಿಪ್ರಯವಾಗಿತ್ತು. ಸ್ಥೂಲವಾಗಿ ನೋಡಿದರೆ, ಮೇಲ್ನೋಟಕ್ಕೆ ಅದು ಹಾಗೆ ತೋರುವುದು ಸಹಜವೇ. ಆದರೆ ವಾಸ್ತವವಾಗಿ ಕನ್ನಡ ಸಂಸ್ಕೃತದಿಂದ ಜನಿಸಿದ್ದಲ್ಲ ಅದರ ಮೂಲವೇ ಬೇರೆ ಎಂದು ಭಾಷಾ ವಿಜ್ಞಾನ ಅಧ್ಯಯನದಿಂದ ಸಂಕ್ಷಿಪ್ತವಾಗಿ ತಿಳಿದು ಬಂದಿದೆ. ಸಂಸ್ಕೃತ ಕನ್ನಡದ ಹೆತ್ತ ತಾಯಿಯಾಗದಿದ್ದರೂ, ಮಾತಾಮಹಿ ಅಥವಾ ಸಾಕು ತಾಯಿ ಎಂದೆನ್ನಬಹುದು. ಬೇರೆ ಬೇರೆ ಭಾಷಾವರ್ಗಗಳಿಗೆ ಸೇರಿದ ಈ ಎರಡು ಭಾಷೆಗಳ ನಡುವೆ ಭಾಷಿಕವಾಗಿ ಯಾವುದೇ ಸಾದೃಷ್ಯವಿಲ್ಲವಾದರೂ ಕನ್ನಡ ಪದಕೋಶದಲ್ಲಿ ಹಾಗೂ ಬರವಣಿಗೆಯ ಶೈಲಿಯಲ್ಲಿ ಸಂಸ್ಕೃತದ್ದೇ ಮೇಲುಗೈ.

ಪ್ರಾಚೀನ ಕಾಲದಿಂದಲೂ ಭಾರತದ ರಾಜಕೀಯ, ಸಾಂಸ್ಕೃತಿಕ, ಸಾಹಿತ್ಯಕ ಹಾಗೂ ಧರ್ಮ ಭಾಷೆಯಾಗಿ ಸಂಸ್ಕೃತ ಬೆಳೆದು ಬಂತು. ಕನ್ನಡ ತನ್ನ ಸ್ವತಂತ್ರವಾದ ಅಸ್ತಿತ್ವ ಪಡೆದುಕೊಳ್ಳುವ ಹೊಸತರಲ್ಲಿ ಸಂಸ್ಕೃತದ ಅಪಾರವಾದ ನೆರವನ್ನು ಪಡೆದು ಕೊಳ್ಳಬೇಕಾಯಿತು. ಸಂಸ್ಕೃತದ ಶಬ್ದಬಂಡಾರದಿಂದ ಪದಗಳು ಸಾಗರೋಪಾದಿಯಲ್ಲಿ ಕನ್ನಡಕ್ಕೆ ಹರಿದು ಬಂದವು. ಈ ರೀತಿಯ ಪದಸಿದ್ಧಿಕರಣ ಎಲ್ಲಾ ಭಾಷೆಯ ಸಾಹಿತ್ಯದ ಹಂತ ಹಂತಗಳಲ್ಲೂ ಪ್ರಭಾವ ಬೀರಿತು. ಸಾಹಿತ್ಯದ ಬೆಳವಣಿಗೆಗೆ ಸಂಸ್ಕೃತದ ಸ್ವೀಕರಣ ಕೂಡದೆಂದು ಕಾಲಕಾಲದಲ್ಲೂ ಪ್ರತಿಭಟಿಸಿದರೂ ಅದರ ಪ್ರವಾಹವನ್ನು ತಡೆಗಟ್ಟಲಾಗಲಿಲ್ಲ.

ಕನ್ನಡದ ಪ್ರಾಚೀನ ಸಾಹಿತ್ಯದಲ್ಲಂತೂ ಸಂಸ್ಕೃತದ ಆಳ್ವಿಕೆ ಗಾಢವಾದದ್ದು. ಸಂಸ್ಕೃತದ ಮಹಾಭಾರತ, ರಾಮಾಯಣ, ಮುಂತಾದ ಮಹಾನ್ ಕೃತಿಗಳು ಜನಪದರಲ್ಲಿ ಜನಪದವೇ ಎಂಬಂತೆ ಮನೆ ಮಾಡಿರುವುದು ಇದಕ್ಕೆ ತಕ್ಕ ನಿದರ್ಶನ. ಕನ್ನಡದ ವ್ಯಾಕರಣಕಾರನಾದ ಕೇಶಿರಾಜನು ಮೊದಲು ಸಂಸ್ಕೃತದಲ್ಲಿ ವರ್ಣಮಾಲೆಯನ್ನು ರಚಿಸಿ ತದನಂತರ ಕನ್ನಡ ವರ್ಣಮಾಲೆ ಹಾಗೂ ವ್ಯಾಕರಣವನ್ನು ಬರೆಯುತ್ತಾನೆ. ಇಷ್ಟೇ ಅಲ್ಲದೆ, ಕನ್ನಡದ ಮೊದಲ ನಾಟಕ ಎಂದು ಗುರುತಿಸಲ್ಪಡುವ 'ಮಿತ್ರಾವಿಂದ ಗೋವಿಂದ' ವನ್ನು ಸಿಂಗಾಚಾರ್ಯನು ಸಂಸ್ಕೃತದಿಂದಲೇ ಅನುವಾದಿಸುತ್ತಾನೆ. ಇದಲ್ಲದೆ, ಎರಡನೇ ನಾಗವರ್ಮನು ಕನ್ನಡದ ವ್ಯಾಕರಣವನ್ನು "ಕನ್ನಡ ಭಾಷಾಭೂಷಣ" ಎಂದು ಸಂಸ್ಕೃತದಲ್ಲಿ ರಚಿಸುತ್ತಾನೆ. ಇದಲ್ಲದೇ ಈತ ಸಂಸ್ಕೃತದ ವೇದಶಾಸ್ತ್ರ, ಪಾಕಶಾಸ್ತ್ರ, ಕಾಮಸೂತ್ರಗಳನ್ನು ಕನ್ನಡಕ್ಕೆ

ಅನುವಾದಿಸುತ್ತಾನೆ. ಹೀಗೆ ಸಂಸ್ಕೃತದ ಪ್ರಭಾವದಿಂದ ಕನ್ನಡ ಸಾಹಿತ್ಯಲೋಕ ಮಿಶ್ರಿತವಾಗಬೇಕಾಯಿತು.

"ಅಚ್ಚ ಕನ್ನಡ ಭಾಷೆಯ ಸಾಹಿತ್ಯಗಳ ಗ್ರಂಥಸ್ತ ರೂಪವೂ ಸಂಸ್ಕೃತದಿಂದ ಪ್ರಭಾವಿಸಿದೆ. ಕನ್ನಡ ದೇಸೀ ಮತ್ತು ಕನ್ನಡ ಛಂದಸ್ಸಿನ ಎಳೆಗಳನ್ನು ಆರಂಭದಲ್ಲಿ ಕನ್ನಡದ ನೆಯ್ಡೆಯಲ್ಲಿ ಕಾಣಬಹುದಾದರೂ, ತಮಿಳಿನ ಹಾಗೆ ಸಂಸ್ಕೃತದಿಂದ ಬಹುಶಃ ಅಲಿಪ್ತವಾದ ಗ್ರಂಥಸ್ತರೂಪವನ್ನು ಕನ್ನಡ ಹೊಂದಂತೆ ಕಾಣಲಾರದು" ಎಂಬ ಮುಗಳಿಯವರ ಮಾತು ಗಮನಾರ್ಹ. ಬರವಣಿಗೆಯ ಶೈಲಿಯಿರಲೀ, ಕನ್ನಡ ಆಡುನುಡಿಯಲ್ಲಿ ಸಂಸ್ಕೃತ ಪದಗಳು ಅನಿವಾರ್ಯವೆನಿಸುವಷ್ಟು ಮೊದಲಿನಲ್ಲಿಯೇ ಕನ್ನಡದಲ್ಲಿ ಬೆರೆತುಹೋಗಿರುವುದನ್ನು ಕಾಣಬಹುದು. ಆಡುಭಾಷೆಯ ಹಂತದಲ್ಲಿಯೇ ಕನ್ನಡ ತನ್ನನ್ನು ಸಂಸ್ಕೃತದ ಪ್ರಭಾವಕ್ಕೆ ಒಪ್ಪಿಕೊಂಡಿರುವುದನ್ನು ಗುರುತಿಸಬಹುದು.

ಬಹು ಕಾಲದಿಂದಲೂ ಜನಸಾಮನ್ಯರಲ್ಲಿ ಸಂಸ್ಕೃತ ಪದಗಳಾದಂತಹ ಸೂರ್ಯ, ಚಂದ್ರ, ಭೂಮಿ, ಆಕಾಶ, ನಕ್ಷತ್ರಗಳೇ ಪರಿಚಯ ಹೊರತು ಕನ್ನಡದ್ದೇ ಪದಗಳಾದಂತಹ ನೇಸರ್, ತಿಂಗಳ, ದಾನ, ಅರಿಲ್ ಮುಂತಾದ ಪದಗಳು ಪರಿಚಯವೇ ಇಲ್ಲ. ಸಂಸ್ಕೃತದ 'ಅನ್ನ' ಎಂಬ ಪದವು ಹೇಗೆ ಜನಮನಗಳಲ್ಲಿ ಆಹಾರವಾಗಿದೆಯೋ, ಕನ್ನಡದ 'ಕೂಳ್' ಜನಸಾಮಾನ್ಯರ ಪಾಲಿಗೆ ಹಳಸುಹೋಗಿ ಬಹು ದಿನಗಳೇ ಆದವು. ಇದಲ್ಲದೆ ಸಂಸ್ಕೃತ ಪದಗಳಾದಂತಹ ಆತ್ಮ, ಮೋಕ್ಷ, ಸ್ವರ್ಗ, ನರಕ ಹಾಗೂ ಇನ್ನಿತರ ಪದಗಳನ್ನು, ಕನ್ನಡದಲ್ಲಿ ಕಲ್ಪಿಸಿಕೊಳ್ಳುವುದು ಕಷ್ಟದ ಸಂಗತಿಯೇ!. ಹೀಗೆ ಹಂತಹಂತವಾಗಿ ಕನ್ನಡ ಸಾಹಿತ್ಯ ಹಾದು ಹೋಗುವ ದಾರಿಯಲ್ಲಿ ಸಂಸ್ಕೃತದ ಗಾಢವಾದ ಪ್ರಭಾವ ಅತ್ಯಂತ ಗಮನಾರ್ಹ.

ಒಟ್ಟಾರೆ, ಸಂಸ್ಕೃತ ಸಾಹಿತ್ಯದ ಶಿಷ್ಟತೆ ಕನ್ನಡ ಭಾಷೆಯ ಸಾಹಿತ್ಯವನ್ನು ಅಪಾರ ಪ್ರಮಾಣದಲ್ಲಿ ಪ್ರಭಾವಿಸಿದೆ ಎಂದೆನ್ನಬಹುದು. ಯಾವುದೇ ಸೃಜನಶೀಲ ಭಾಷೆಗೆ ಇಂತಹ ಪ್ರಭಾವ - ಪರಿಣಾಮಗಳು ಅವಶ್ಯಕ. ಹೀಗೆ ಭಾಷೆ ಪಡೆದುಕೊಂಡಷ್ಟು ಆಳವಾಗಿ ಸಾಗುತ್ತದೆ.

ಮೂಲ ದ್ರಾವಿಡ ಭಾಷೆಯಿಂದ ಕನ್ನಡ ಬೇರ್ಪಟ್ಟ ನಂತರ ಸಂಸ್ಕೃತ ಹಾಗೂ ಪ್ರಾಕೃತಗಳು ಕನ್ನಡವನ್ನು ವಿಶೇಷವಾಗಿ ಪೋಷಿಸಿ ಬೆಳೆಸಿದವು. ಹೀಗೆ ಕನ್ನಡ ಎರಡೂ ಭಾಷೆಗಳ ಸಾರವನ್ನು ಹೀರಿಕೊಂಡು ತನ್ನ ಸ್ವಂತಿಕೆಯನ್ನು ಕಾಪಾಡಿಕೊಂಡು ಹೆಮ್ಮರವಾಗಿ ಬೆಳೆದು ನಿಂತಿದೆ.

ಇಂತಿ ನಿಮ್ಮ ಕನ್ನಡಿಗ,

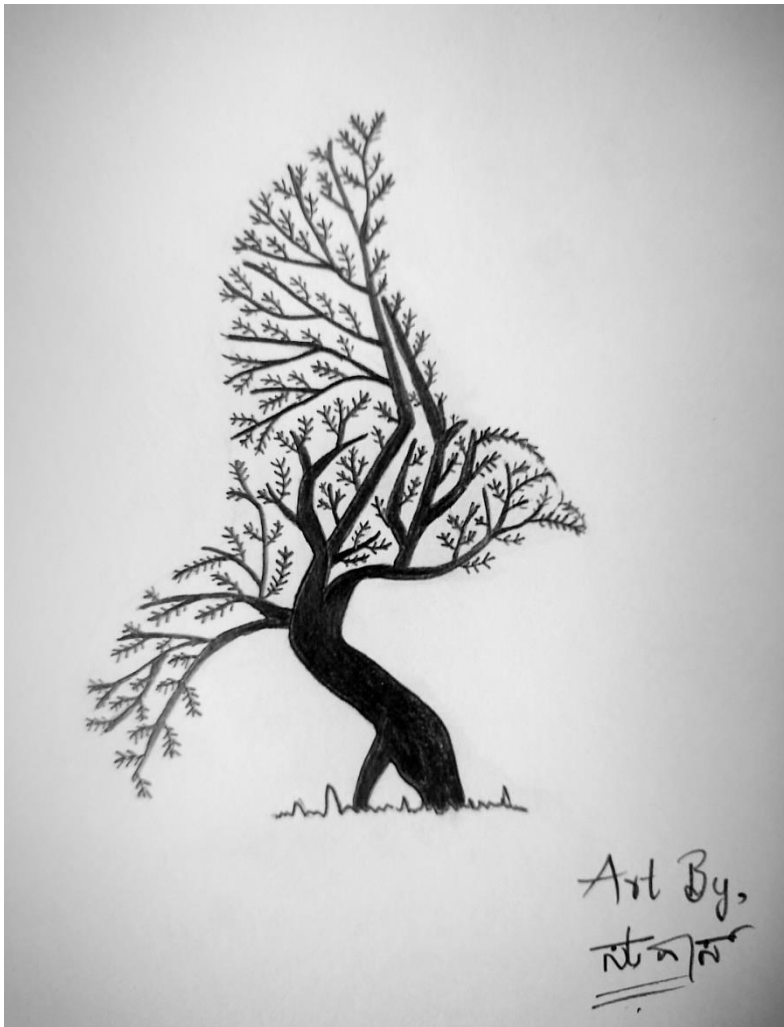
**ಸುಹಾಸ್**

"ಮರಿದುಂಬಿಯಾಗಿ ಮೇಣ್ ಕೋಗಿಲೆಯಾಗಿ ಪುಟ್ಟುವುದು  
ನಂದನದೊಳ್ ಬನವಾಸಿ  
ದೇಶದೊಳ್".♥

**Suhas U M**  
5<sup>th</sup> semester



# DRAWINGS



Suhas U M  
5<sup>th</sup> semester



# PHOTOGRAPHY



**Shrisha G Shetty**  
7<sup>th</sup> semester

# ELECTRONICS AND COMMUNICATION



*"Circuits of Possibility, Signals of Discovery: Navigating the Electronic Cosmos."*

# **ELECTRONICS AND COMMUNICATION ENGINEERING**

**Magazine co-ordinator**



**Dr. Hamsa S**  
**Associate Professor**

**Student co-ordinators**



**Shreya L**  
**5<sup>th</sup> semester**



**Udhayashri K A**  
**7<sup>th</sup> semester**

# DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



**Dr. CHANDRASEKHAR K**  
**Professor & Head**

## **Vision**

To be a department of excellence at a global level in electronics and communication engineering education, incorporating research and innovation and leadership training components.

## **Mission**

To deliver state-of-the-art infrastructure in classrooms and laboratories, fostering an environment conducive to advanced learning and research. We are committed to the all-round development of our students, providing individual attention through innovative teaching methodologies. Additionally, we aim to cultivate leadership qualities by immersing students in industry and research within the global Electronics and Communication Engineering domain.

## Message from the Head

It is my pleasure to share with you this latest edition of our college magazine. This issue celebrates the hard work, creativity, and achievements of our department, showcasing the remarkable talent and dedication within our community. Each page reflects our collective pursuit of excellence and innovation. I extend my gratitude to everyone who contributed to this edition and look forward to continuing our journey of success together.

## **Faculty List**

<b>NAME</b>	<b>Qualification</b>	<b>Designation</b>
Dr. K Chandrasekhara	B.E, M.E, PhD	Professor
Dr. Geetha Priya M	B.E, M.Tech, PhD	Professor
N. Narasimha Swamy	B.E, M.Tech	Visiting Professor
Dr. H B M Ajjaiah	B.E, M.Tech, PhD	Associate Professor
Dr. Chethana K	B.E, M.Tech, PhD	Associate Professor
Dr. Asha Bharathi S	B.E, M.Tech, PhD	Associate Professor
Dr. Hamsa S	B.E, M.Tech, PhD	Associate Professor
Mr. Chandrashekar B M	B.E, M.Tech, [PhD]	Assistant Professor
Mrs. Sumangala Gejje	B.E, M.Tech	Assistant Professor
Mr. Nagesh Kumar D N	B.E, M.Tech	Assistant Professor
Mr. Madhukar M	B.E, M.Tech, [PhD]	Assistant Professor
Mrs. Smita Agarwal	B.E, M.Tech, [PhD]	Assistant Professor
Mr. Deepak V Ingale	B.E, M.Tech	Assistant Professor
Mrs. Srilakshmi R	B.E, M.Tech, [PhD]	Assistant Professor
Mrs. Kritika P J	B.E, M.Tech	Assistant Professor
Mrs. Bhargavi N G	B.E, M.Tech	Assistant Professor
Mr. Shivaraj A	B.E, M.Tech	Assistant Professor
Mrs. Nami Susan Kurian	B.E, M.Tech, [PhD]	Assistant Professor
Mr. Dayananda LN	B.E, M.Tech	Assistant Professor
Dr. Soumya Padukone G	B.E, M.Tech, PhD	Assistant Professor
Mr. Prasanna	B.E, M.Tech	Assistant Professor

## Staff List

<b>NAME</b>	<b>Qualification</b>	<b>Designation</b>
Mr. Goutham C	B.E	Foreman
Mr. Shashi Kumar S V	Diploma, M.A	Senior Instructor
Mrs. Ranjitha Bhat	B.E	Senior Instructor
Mr. Prabhu	Diploma, B.C.A [B.E]	Senior Instructor
Mrs. Chandana T V	Diploma, B.E	Instructor
Ms. Medha Chowdhary M	Diploma, B.E	Instructor
Mr. Anand V Achar	Diploma	Instructor
Mrs. Shruthi M	M.B.A	SDC Instructor

## DEPARTMENT ACTIVITIES

**Technical Talk on Upskilling Courses on 5G Technology:** The Department of Electronics and Communication Engineering at Jyothy Institute of Technology, Bangalore, organized a technical talk titled "Insights into 5G Technology" in collaboration with the IEEE student chapter, specifically for 7th-semester students. Held on September 27th, 2023, the session was led by T. V. Saranya, Regional Business Head of the Deutsche Akademie für Digitale Bildung (DADB). The discussion provided in-depth insights into the rapid evolution of 5G technology, stressing its critical relevance to the field. The talk underscored the importance of keeping abreast of these advancements. DADB, renowned for pioneering digital education in Germany, highlighted how 5G is set to transform industrial applications, offering accessible on-site education and training opportunities.



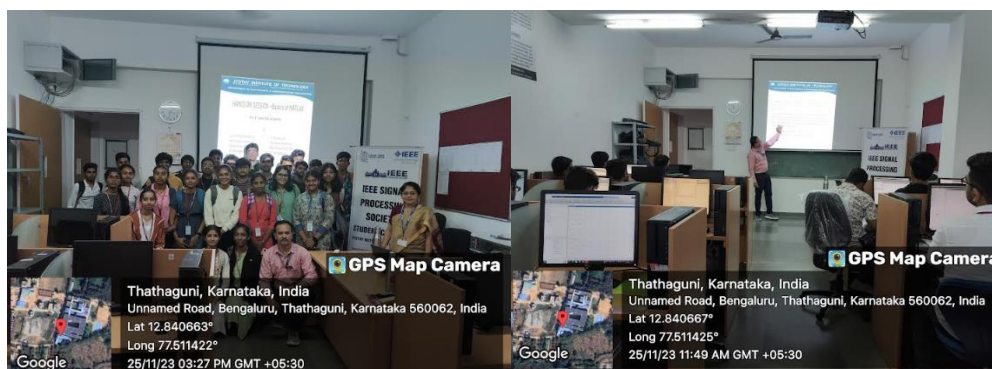
**Technical Talk on VLSI and Embedded Systems:** The IEEE and SPS JIT student branch, in association with the Department of ECE at Jyothy Institute of Technology and the IEEE Bangalore section, organized a VLSI workshop for 4th-semester ECE students on September 13, 2023. Facilitated by Epitome Circuits, the workshop featured industry experts like Mr. Ravi Siddanath and Veena Hallur from Broadcom and Ganesh Prasad from Synopsys, who shared their expertise in layout design. Established in 2011 as Kanada Technologies, Epitome Circuits aims to enhance engineering education and employability in the semiconductor industry. The workshop, attended by 20 IEEE members and 63 non-IEEE members, was informative and beneficial, contributing significantly to the students' professional development.



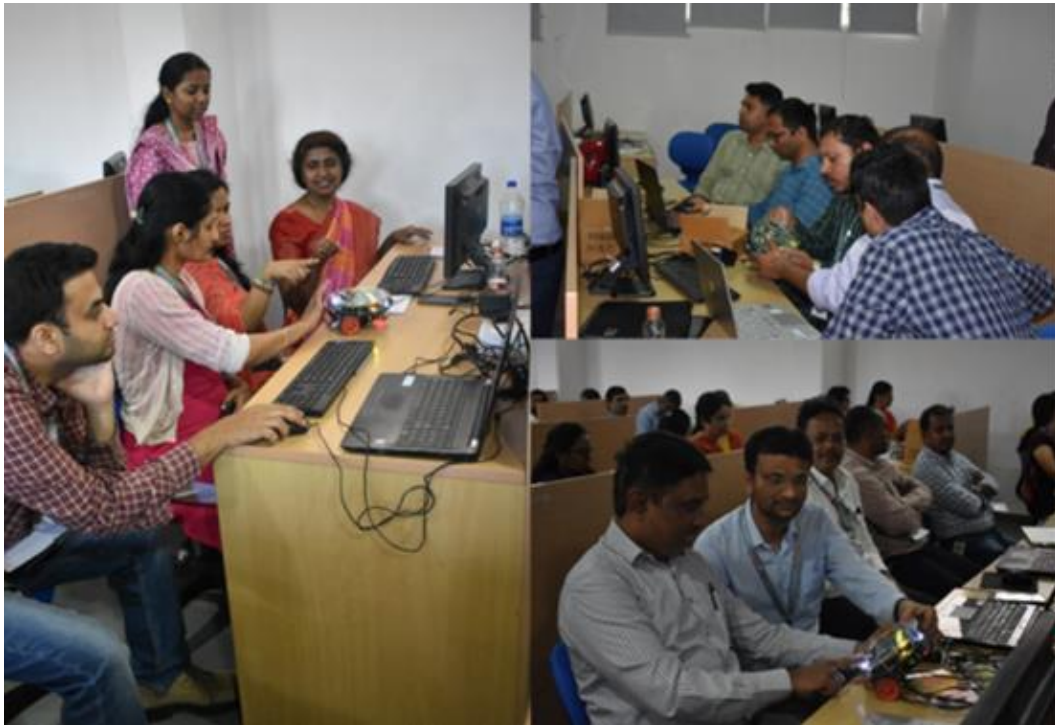
**Technical Talk on Quantum Computing:** On 11th October 2023, the Department of ECE at Jyothy Institute of Technology, in association with the IEEE Bangalore section, hosted a technical talk on 'Quantum Communications and Quantum Computing using Photonics.' Dr. Srinivas T, a professor from IISc Bangalore and an active IEEE Bangalore Section volunteer, led the session, which was attended by 8 IEEE members and 54 non-IEEE members. Dr. Srinivas elucidated the role of quantum technology in advancing modern technology, explained the difference between bits and quantum qubits, and discussed fiber optics. He also highlighted the benefits of IEEE membership for students engaged in research.



**MATLAB Workshop:** The Department of Electronics and Communication Engineering at Jyothy Institute of Technology, Bangalore, in collaboration with the IEEE student chapter, organized a MATLAB workshop specifically for 1st-year students, conducted on November 11th and 25th. The workshop sessions, facilitated by Dr. Asha Bharathi S and Mr. Shivraj A, aimed at introducing foundational skills in MATLAB programming. Participants received hands-on training in utilizing MATLAB for numerical computing and data analysis, essential for their academic journey in engineering. Dr. Asha Bharathi S and Mr. Shivraj A, through their expertise, guided students in understanding MATLAB's applications in solving engineering problems and enhancing computational proficiency. The workshop provided a valuable platform for students to develop practical skills crucial for their future studies and careers.



**Two-Day Workshop on Introduction to Robotics:** The Department of Electronics and Communication Engineering, in collaboration with e-Yantra IIT Bombay, organized a comprehensive two-day workshop on Introduction to Robotics from September 8th to 9th, 2023. Designed for faculty members from diverse colleges across Karnataka, the workshop provided expert guidance led by Ms. Roopa Avudiappan, Ms. Ruchi Sharma, and Ms. Shyama H from the e-Yantra Team. Participants immersed themselves in practical learning with the Firebird V robot, focusing initially on fundamental skills such as robot programming and interfacing with the AVR microcontroller. Hands-on sessions equipped attendees with essential



Day two of the workshop advanced into more intricate techniques, particularly interfacing and path control, allowing participants to apply their knowledge in real-world scenarios. The workshop concluded with the presentation of certificates and positive participant feedback, highlighting its success in integrating theoretical knowledge with practical skills. Beyond enhancing participants' proficiency in robotics, the event laid the foundation for future collaborations and the establishment of e-Yantra labs in participating colleges, promising a sustained impact on robotics education throughout the region.

**Introduction to Computer Networking:** The Department of Electronics and Communication Engineering at Jyothy Institute of Technology, Bangalore, in collaboration with the IEEE student chapter, organized a workshop titled "Introduction to Computer Networking with Hands-on Training on Cisco Packet Tracer" for first-year students. Conducted by Nami Susan Kurian, the workshop aimed to provide foundational knowledge and practical skills in computer networking. Held on specified dates, the sessions familiarize students with essential concepts in networking and allow them to gain hands-on experience using Cisco Packet Tracer software. Nami Susan Kurian, leveraging her expertise, guided participants through practical exercises designed to simulate real-world networking scenarios. This workshop served as a valuable learning opportunity, equipping students with fundamental skills crucial for their academic and professional journey in electronics and communication engineering.



IEEE Week Abhiyan: IEEE Week at Government School Agara in Bangalore was an action-packed four-day event from October 4th to 7th, 2023, where members and non-members of the 7th-semester ECE branch from Jyothy Institute of Technology came together to make a difference. Each day had its own unique focus and activities. On Day 1, students painted 14 school pillars with the tricolor, showcasing their artistic talents and patriotism. The following day, during the ABHIYAANA event, volunteers split into groups to teach students about various topics ranging from satellites and energy sources to career guidance, the basics of physics, environmental awareness, and English grammar.

Hands-on experiments and demonstrations about basic electrical components added excitement and curiosity among students. The event concluded with ABHIYAANA's final day on October 7th, filled with sports activities like running races, balancing games, dance, singing, and dialogue delivery competitions, allowing students to showcase their athletic and cultural prowess. It was a day of joy and happiness, bringing the community together in celebration.



**Kreedantrika:** The Department of Electronics and Communication Engineering (ECE) recently hosted "Kreedantrika," a thrilling series of sports events encompassing cricket, volleyball, basketball, and tug of war, open to students from all branches on 3rd and 4th of November 2023. This spirited initiative not only fostered a sense of camaraderie and healthy competition but also provided a platform for students to showcase their athletic prowess and teamwork skills.

As an added incentive, cash prizes, momentos were distributed for each event, recognizing and rewarding the outstanding performances of the participants. "Kreedantrika" exemplifies the ECE department's commitment to promoting holistic development among students, encouraging active participation in extracurricular activities alongside academic pursuits. Through such events, the department continues to create vibrant and inclusive spaces that nurture both physical fitness and a sense of community among its student body.



**Tech Talk on "Smorphy Educational Robotics":** The Department of Electronics and Communication Engineering, in collaboration with Wefaa Robotics, Singapore, and IEEE Student Chapter, Jyothy Institute of Technology, hosted a captivating Tech Talk on "Smorphy Educational Robotics" for 3rd and 5th-semester students on February 15, 2024. Led by Mr. Ganesh Sai Apuroop Koppaka, the session showcased groundbreaking robots developed under the National Robotics Program. These included hTETRO, Smorphi, Panthera, Wasp, Dragonfly, and Naja, each demonstrating innovative applications from shape-changing cleaning robots to snake repellents using sound and vibration technology. Mr. Koppaka underscored the importance of interdisciplinary skills and continuous learning in robotics, encouraging students to explore future careers in this dynamic field.

His presentation not only highlighted the technological advancements but also sparked enthusiasm among students to delve deeper into the potential of robotics in solving real-world challenges. The event served as a catalyst for students to envision their roles in shaping the future of robotics, emphasizing the integration of innovation and practical application in their academic and professional pursuits.



Technical Workshop on “Smorphy Imaginary Platform: The workshop was organized by the department of Electronics and Communication Engineering in collaboration with Wefaa Robotics, Singapore, and in association with the IEEE SPS Student Chapter, Jyothy Institute of Technology, for the students of ECE between February 15th and 17th, 2024. The resource person, Dr. Prabakaran Veerajagadheshwar from Wefaa Robotics and SUTD, Singapore, discussed advancements in robotics supported by the National Robotics Programme. Participants engaged in a competition to guide a Smorphi robot through a maze using predefined instructions and coding. This 2.5-hour challenge required strategic thinking and problem-solving, adding excitement and urgency to the event. Individual usernames and passwords ensured a secure and organized setup. The competition fostered teamwork and technical skills, creating a competitive yet enjoyable atmosphere. Overall, the Smorphi simulation competition offered a unique experience that enhanced participants’ learning and innovation in robotics.

Technical Workshop on “Smorphy Imaginary Platform: The workshop was organized by the department of Electronics and Communication Engineering in collaboration with Wefaa Robotics, Singapore, and in association with the IEEE SPS Student Chapter, Jyothy Institute of Technology, for the students of ECE between February 15th and 17th, 2024. The resource person, Dr. Prabakaran Veerajagadheshwar from Wefaa Robotics and SUTD, Singapore, discussed advancements in robotics supported by the National Robotics Programme. Participants engaged in a competition to guide a Smorphi robot through a maze using predefined instructions and coding. This 2.5-hour challenge required strategic thinking and problem-solving, adding excitement and urgency to the event. Individual usernames and passwords ensured a secure and organized setup. The competition fostered teamwork and technical skills, creating a competitive yet enjoyable atmosphere. Overall, the Smorphi simulation competition offered a unique experience that enhanced participants’ learning and innovation in robotics.

**Faculty Development Program on Engineering Curriculum on Robotics:** A three-day Faculty Development Program on the "Education Curriculum on Robotics" was held from February 15 to 17, 2024. Mr. Sai Ganesh Apuroop Koppaka from Wefaa Robotics facilitated the sessions, alongside Mr. Arun Joshi, founder & COO of Skandish Ventures. Wefaa Robotics, based in Singapore, specializes in educational technologies, providing educational robots along with teaching components and virtual learning tools. During the program, faculty members were trained to assemble the Smorphi v2 Educational robot, which is modular, programmable, and configurable into seven different shapes. This hands-on experience allowed users to integrate their own sensors and customize the robot for various educational contexts, enhancing their understanding of robotics in the curriculum.



**Project Exhibition:** The project exhibition for the 2024 batch of the Department of Electronics and Communication Engineering took place on May 4, 2024. Judged by Mr. Tejesh and Mr. Panish DT from Loginware Softec Pvt Ltd, the event showcased 16 innovative projects from 8th-semester ECE students, covering areas such as robotics, embedded systems, IoT, and communication systems. Three projects were recognized with cash prizes of Rs 3000, Rs 2000, and Rs 1000, celebrating the students' achievements.

The exhibition was energized by the enthusiastic participation of lower-semester students, adding a vibrant atmosphere to the event. A valedictory function in the ECE seminar hall concluded the day, attended by juries, faculty, and 57 students. Prizes were awarded to the winners, and the juries shared insights on the importance of practical projects in enhancing learning and preparing students for real-world challenges. The success of the exhibition was supported by the college management, faculty, volunteers, and the entire ECE department community.



**Industrial Visit:** On February 22, 2024, the Department of Electronics and Communication Engineering organized a visit to the Bureau of Indian Standards (BIS) for 5th-semester students. This visit aimed to provide students with an understanding of the role of BIS in setting quality standards and ensuring product safety and reliability. During the tour, students interacted with BIS officials, who shared insights on various standardization processes and the significance of quality control in industry. The experience not only enhanced the students' knowledge of regulatory practices but also emphasized the importance of adhering to standards in engineering and technology, enriching their academic and practical understanding of the field.



**Industrial Visit:** The Department of Electronics and Communication Engineering organized an industrial visit to ISRO for 6th-semester students on June 8, 2024. This enriching experience provided students with an opportunity to explore the cutting-edge technologies and innovative projects undertaken by ISRO. The visit included informative sessions with experts, showcasing the organization's contributions to space research and satellite communication. Students engaged in discussions about ongoing projects, gaining valuable insights into the practical applications of their academic studies and the importance of teamwork and innovation in the field of electronics and communication.



**MoU with Wefaa Robotics:** The Department of Electronics and Communication Engineering has forged a significant partnership by signing an MOU with Wefaa Robotics and Smorphi in Singapore. This collaboration aims to advance research and development in robotics, automation, and artificial intelligence. By combining academic expertise with industry innovation, the partnership seeks to drive advancements that will impact sectors such as manufacturing, healthcare, and smart cities. This initiative underscores their shared commitment to pushing the boundaries of technological innovation and contributing to Singapore's role as a global hub for cutting-edge research and development in robotics.



**Leadership Development Programme:** The Leadership Development Programme (LDP) for Chairpersons, Directors, and Members of Co-operative Societies, held on February 10, 2024, was a resounding success. Sponsored by the National Co-operative Union of India and organized by the Department of ECE, Jyothy Institute of Technology, in collaboration with Sri. Maheshwaramma Credit Cooperative Society Ltd. (SMCCS), Bengaluru, the event commenced with a prayer song by Ms. Bhumika N.G. and ceremonial lamp lighting. Dr. K. Gopalakrishna, Principal of JIT, delivered the inaugural address, emphasizing the importance of cooperative societies and leadership. Key sessions included Mr. Y. Kumar's talk on the collaborative nature of cooperative societies and Dr. Nagarjuna's insights into strategic vision, decision-making, and resource management within these organizations.



Electrig 3.0: On May 6, 2024, the Department of Electronics and Communication and IEEE SPS Student Chapter hosted "Electrig 3.0," a significant farewell event for the outgoing members of the IEEE Batch 2023-24 and the formal induction of the new committee for 2024-25. The evening featured heartfelt acknowledgments and inspiring speeches from key figures, including HOD Dr. Chandrasekhar K. and Branch Counselor Dr. Ashabharathi S. The former secretary, Mr. Kushadh, highlighted the year's successful initiatives, such as technical workshops and collaborative events, setting a motivational tone for the new leadership.

The event included a ceremony honoring outgoing committee members with tokens of gratitude for their contributions. The new members were introduced and received their badges, marking the start of their responsibilities. Present Chair Sai Eshwar and SPS Chair Sriranga Rao energized the audience with an overview of the upcoming year's plans. Dr. Ashabharathi concluded the event by emphasizing the importance of unity and collaboration and urging all attendees to actively participate in the IEEE club. A total of 66 members attended, marking a successful transition for the organization.



# STUDENT ACHIEVEMENTS

**SAE Aero-Design Series West Competition 2024:** The SAE Aero-Design Series West Competition 2024 Advanced Series, organized by SAE International, occurred between April 12th and 24th, 2024. Team Garuthmaan, with seventeen members, represented their club and college as ambassadors and presented their design online. Notably, Sriganesh Srikanth, Swathi Bhat, Manya, Hitha, and Sameer from the ECE department were part of the team. In terms of achievements, the team ranked 12th globally. This competition provides practical engineering challenges for undergraduate and graduate students, mirroring real-world scenarios. Around 50 teams participated, competing for a single \$1,000 prize. This event showcased the participants' talent and professionalism.



**Avishkar-2024:** Shivank, Prajwal, Divya, and Ameetha, students of the 8th semester of ECE, achieved a remarkable feat at the Avishkar-2024 Inter College Project Exhibition held at Vemana Institute of Technology. Their project titled "Implementation of RF ID-based Smart Electric Vehicle Charging System" secured the 1st prize, accompanied by a cash award of 3000 INR. This accolade not only highlights their exceptional talent but also brings great honor to our institution. We commend the team for their dedication, ingenuity, and the well-deserved recognition of their hard work and creativity.



**IEEE Student Scholarship 2024:** We're delighted to share that six of our students have received scholarships from Quest Global as part of the IEEE philanthropy initiative. Congratulations to all the recipients! Special thanks to Dr. Asha Bharathi, Associate Professor and Head of the Department of Electronics and Communication Engineering, for her exceptional guidance and support. Her efforts have been instrumental in shaping the success of our students and reinforcing our commitment to academic excellence.



**Environmental Challenges Contest:** Sriganesh S, Sai Eshwar V R, R Sumukh Aryan, and Saharsha V, students of the 5th semester in the Department of Electronics and Communication Engineering, participated in “Kalanirnay” at RV College of Engineering and represented our department with distinction at RV’s collaboration with the Energy Swaraj Foundation. Their innovative display eloquently depicted the correlation between carbon accumulation and temperature rise, highlighting the critical need for immediate climate action. As part of this collaboration, institutions like RVCE have received a Climate Clock from the Energy Swaraj Foundation, emphasizing the urgency of limiting global warming to 1.5 degrees Celsius. This initiative not only garnered significant attention but also showcased RVCE’s commitment to promoting sustainable practices. Special acknowledgment is extended to their department and faculty, especially to Lakshmi madam, for their invaluable guidance and support in fostering such impactful contributions.



IEEE R10 ERM Student Contest 2024: Congratulations to Sinchana K, Sai Eshwar V R, Saharsha S, R Sumukh Aryan, Nitin A, Rohith P, Jishnu P, Harshitha K, and Shankarshana V of ECE for their outstanding participation in the IEEE R10 ERM Student Contest 2024. Your demonstration of a deep understanding of the IEEE Code of Ethics during the event held on June 28th, 2024, is truly commendable. Your commitment to ethics and enterprise risk management (ERM) is inspiring and reflects well on your dedication to professional standards. Keep up the excellent work and continue to uphold the principles of integrity and responsibility in your future endeavors.

**Project Exhibition Winners:** In collaboration with the IEEE JIT Student Branch and the IEEE Bangalore Section, a project exhibition for final-year students of the department of ECE at JIT recognized outstanding innovation and technical prowess. Among the 16 projects showcased, three stood out for their exceptional merit and were awarded prizes of Rs. 3000, Rs. 2000, and Rs. 1000, respectively. This event not only celebrated academic excellence but also highlighted JIT's commitment to fostering a culture of innovation and practical application of engineering knowledge among its students.

Position	Project Title	Name of the Guide	Name of the Students
1 <sup>st</sup>	Design and Implementation of Smart Hydroponics System using IoT for Agriculture	Ms. Nami Susan Kurian	Raksha V N Amrutha Yukta Sri Jeeru Kushadh A
2 <sup>nd</sup>	Design and Implementation of GPS Enabled Smart Heat Jacket with Long Range Communication	Mr. Deepak V Ingale	Harshitha N Aditya S V Venkatesh Nithish Rao H D
3 <sup>rd</sup>	IoT Based Intravenous Fluid Monitoring and Alerting	Ms. Chethana K	Sonika M Tanishaa Sastry Yashwanth B R

**TECH VISTARA-2024:** Boomika S. B., a bright and innovative student in her fifth semester, has achieved remarkable success by securing second place in the Ideathon at the prestigious inter-college technical competition, TECH VISTARA, organized by the esteemed Garut Aerobotics Club. Her outstanding performance reflects her exceptional creativity and technical prowess. Guided by the insightful mentorship of Nami Susan Kurian, Boomika's project stood out among numerous competitors, showcasing her dedication, ingenuity, and passion for technological advancement. This significant accomplishment not only brings pride to her academic institution but also sets a stellar example for her peers, demonstrating the heights that can be reached through hard work, guidance, and innovative thinking.

# PLACEMENTS

Sl.No	Student Name	USN	Company
1	1JT20EC001	Aditya S	S2D Process Solutions Pvt Ltd
2	1JT20EC002	Advitha Chandrashekara.H	Loginware
3	1JT20EC005	Anurag patil	SG Technologies
4	1JT20EC007	Chaitanya G S	A3 Technologies
5	1JT20EC009	Chandana K S	Loginware
6	1JT20EC011	Dhanyashree C	Loginware
7	1JT20EC011	Dhanyashree C	SG Technologies
8	1JT20EC012	Divya M	Loginware
9	1JT20EC012	Divya M	S2D Process Solutions Pvt Ltd
10	1JT20EC014	Harshitha N	S2D Process Solutions Pvt Ltd
11	1JT20EC015	Hemanth S	Catalysts
12	1JT20EC016	Hitesh K V	SmartBrains Engineers & Technologist Pvt Ltd
13	1JT20EC019	Janhavi N	Loginware
14	1JT20EC021	Keerthana.S	Loginware
15	1JT20EC022	Kushadh A	S2D Process Solutions Pvt Ltd
16	1JT20EC022	Kushadh A	Loginware
17	1JT20EC023	M.B Chaithanya	SG Technologies
18	1JT20EC024	Manikanta R	Loginware
19	1JT20EC030	Prajwal Gowda L	Loginware
20	1JT20EC030	Prajwal Gowda L	S2D Process Solutions Pvt Ltd
21	1JT20EC035	Raksha V	S2D Process Solutions Pvt Ltd
22	1JT20EC036	Rakshith S	Loginware
23	1JT20EC040	Sharathkumar C	Loginware
24	1JT20EC040	Sharath Kumar C	S2D Process Solutions Pvt Ltd
25	1JT20EC041	Shivank V	A3 Technologies
26	1JT20EC043	Sonika M	Loginware
27	1JT20EC043	Sonika M	S2D Process Solutions Pvt Ltd
28	1JT20EC044	Srinivas T	SG Technologies
29	1JT20EC046	Sudharshan R	ECE Catalysts
30	1JT20EC049	Susheela B P	S2D Process Solutions Pvt Ltd
31	1JT20EC050	Tanishaa Sastry	Loginware
32	1JT20EC050	Tanishaa Sastry	S2D Process Solutions Pvt Ltd
33	1JT20EC053	V Venkatesh	Loginware
34	1JT20EC053	V Venkatesh	S2D Process Solutions Pvt Ltd
35	1JT20EC054	Yashwanth B R	S2D Process Solutions Pvt Ltd
36	1JT20EC056	Yashwanth Krishna L	S2D Process Solutions Pvt Ltd
37	1JT20EC056	Yashwanth Krishna L	Loginware
38	1JT20EC059	Yuktha D R	Loginware
39	1JT20EC059	Yuktha D R	S2D Process Solutions Pvt Ltd

# INTERNSHIPS

Sl.No	Student Name	USN	Company
1	Nithish Rao H D	1JT20EC028	Shine logic solutions Private Limited
2	Anurag Patil	1JT20EC005	Celominds Solutions Private Limited
3	Shreesha S	1JT20EC042	Celominds Solutions Private Limited
4	Rakshitha V	1JT20EC037	Celominds Solutions Private Limited
5	Shivank V	1JT20EC041	Celominds Solutions Private Limited

## PROJECTS SANCTIONED UNDER KSCST

Faculty Name	Student Name	Project Title	Amount Sanctioned
Mrs. Srilakshmi R & Dr. Sreeleshava KS	Srinivas T Chandana KS Harikishan K Sudeep KS	Secure Step: Advanced Home Security with Doormat Sensors Using IoT	5000
Dr. Chethana K	MB Chaitanya Anusha M Kudur Susheela BP	Design Development and Calibration of Pulse Rhythmic Dilation using fiber bragg grating for patient care	5000
Mrs. Smitha Agrawal	Sreesha S Rakshitha V Hemanth S Punyashree BM	Smart Jacket for back posture detection and alert with image analysis	5000
Dr. Chethana K	Tanishaa Sastry Sonika M Yashwanth BR	IoT based intravenous fluid monitoring and alerting	4500
Mrs. Sumangala Gejje	Darshan P Manoj KB Tejas B Shreyas SN	Lung capacity and health analyzer using IoT	4500

### *Student Paper Publications*

- R. C. Rakshita, L. Krishna, and B. Yeshwanth, "Estimation of Glacier Velocity of Ny-Ålesund, Arctic Using Sentinel-1 Remote Sensing Data," in \*Proceedings of the Conference on Remote Sensing\*, pp. 50-59, June 2024, doi: 10.1007/978-3-031-60725-7\_5.
- C. H. Advitha, A. Patil, H. V. Basri, and P. V. P. Prasanna, "Design and implementation of Automated and Radio Controlled Rover with Object Detection using Raspberry," \*Int. J. of Adv. Eng. and Manag.\*, vol. 6, no. 04, pp. 1022-1027, Apr. 2024.
- D. V. Ingale, K. Chethana, Gouthami. P. Jain, S. Aditya, and V. Venkatesh, "International Conference on Interdisciplinary Approaches in Civil Engineering for Sustainable Development," Springer Nature Singapore, Jul. 2023.

### *Best Outgoing Students 2024*

**Adithya S** received a distinguished honor on the farewell bid which was organized on May 25 2024, as he was nominated as the best outgoing student for the batch of 2024. In recognition of his outstanding academic achievements and contributions, he was awarded the prestigious silver ring by the institution.



**Harshitha** received a prestigious accolade as she was nominated as the best outgoing student for the batch of 2024 on the farewell bid, which was organized on May 25, 2024. In acknowledgment of her exceptional academic achievements and significant contributions, the institution bestowed upon her the esteemed silver ring.



# FACULTY ACHIEVEMENTS



**Dr. Chandrasekhar K.**, Professor and Head of the Department of Electronics and Communication, has received AICTE approval for his **proposal under the AICTE-VAANI** scheme for the 2024-25 academic year in offline mode. This scheme, designed to boost educational quality through enhanced resources and infrastructure, will support impactful advancements in learning and development within the department.



**Dr. Asha Bharathi S.**, Associate Professor, Department of Electronics and Communication Engineering received a Certificate of Appreciation from the **IEEE Bangalore Section SAC** for her outstanding dedication, unwavering support, and exceptional leadership as Branch Counselor in the year 2023.



**Dr. Chetana**, Associate Professor, served as the resource person for a program on fiber bragg grinding sensors for healthcare applications. Over three months, she provided internships and hands-on training at the Department of Electronics and Communication Engineering, JIT. Additionally, she facilitated internships for students of MSRIT, RNSIT, RV College, and Jyothy Institute of Technology, Bengaluru, thereby enriching students' practical experience and expertise in advanced sensor technologies for healthcare.

**Dr. S. Hamsa**, Associate Professor in Department of Electronics and Communication Engineering has been honored as a **Conference Chair Member** at the International Conference on Multidisciplinary Research & Innovation (ICMRI) 2024. This prestigious conference, scheduled for March 27-28, 2024, is jointly organized by the Department of Mechanical Engineering at Radhakrishna Institute of Technology and Engineering, Bhubaneswar, Odisha, and RSP Conference Hub, Coimbatore, Tamil Nadu.





Nami Susan Kurian, Assistant Professor, Department of Electronics and Communication and Engineering, filed and published a patent titled Deep Learning-Driven Cloud Platform for Intelligent English Literature Analysis during the month of March 2024. She also received honors as a NPTEL Believer from January to April 2024. She also received the NPTEL Discipline Star from SWAYAM NPTEL from January to April 2024. She was also honored at the 3rd World Conference on

Multidisciplinary Research and Innovation in Singapore, organized by IFERP. On April 12th, 2024, she also led a webinar on "Design and Implementation of Networks Using Cisco Packet Tracer" for Rajalakshmi Engineering College's Electronics and Communication Engineering department, offering valuable insights into network design and simulation.

## FACULTY PAPER PUBLICATIONS

- Dr. C. K. Chethana, "Measurement model of integrated FBG sensor for beam structure," J. Opt., vol. 2023, Oct. 2023. [Online]. Available: <https://doi.org/10.1007/s12596-023-01441-1>
- S. R. Srilakshmi, "Design of symmetric supercapacitor from biowaste derived carbon for flashlight applications with superior cycle's stability," Inorg. Chem. Commun., vol. 157, pp. 111404, Sept. 2023. [Online]. Available: <https://doi.org/10.1016/j.inoche.2023.111404>
- N. K. D. Nagesh Kumar, "Robotic innovation in e-delivery systems: A design and modeling approach," Nov. 2023.
- D. V. Ingale, K. Chethana, "International Conference on Interdisciplinary Approaches in Civil Engineering for Sustainable Development," Springer Nature Singapore, Jul. 2023.
- Geetha Priya M, "Exploring the frozen frontier: unmanned aerial vehicles and multispectral sensors unveiling cryosphere dynamics in East Antarctica's Dronning Maud Land," GIScience & Remote Sensing, Jan. 2024.

- Sowmya G. Padukone, "Computational process to ascertain DNA microarray using genetic marker," *\*Int. J. Inf. Technol.\**, vol. 16, no. 3, pp. 361–368, 2024. [Online]. Available: <https://doi.org/10.1007/s41870-023-01623-x>
- Geetha Priya M, "Estimation of glacier velocity of Ny-Ålesund, Arctic using Sentinel-1 remote sensing data," Scopus, Mar. 2024.
- S. Asha Bharathi, S Hamsa and C Bhargavi, "Green Steel: A Sustainable Solution for Low-Carbon Building Construction", Lecture notes in Civil Engineering, vol 464, pp 301-312, 2024, Springer, doi: 10.1007/978-981-97-0910-6\_25
- Asha Bharathi S, B Meghana, M. Akshatha, Hamsa S, "Monitoring of Smart Greenhouse using Internet of Things (IoT)", Lecture notes in Civil Engineering, vol 457, pp 213-225, 2024, Springer, doi: 10.1007/978-981-99-9610-0\_19
- K. Chethana, S. Nandi, A. P. Guruprasad, and S. Ashokan, "Structural health monitoring by simultaneous measurement of strain and temperature using different materials," in *\*Recent Advances in Civil Engineering for Sustainable Communities\**, N. V. C. Menon, S. Kolathayar, H. Rodrigues, and K. S. Sreekesava, Eds. Singapore: Springer Nature Singapore, 2024, pp. 167-176.
- Hamsa S, Asha Bharathi S and C.R Ganesh, "IoT Driven Civil Engineering Solutions for Smart Integrated Agriculture in Controlled Environment", Lecture notes in Civil Engineering, vol 459, pp 347-358, 2024
- B. Revathi, S. Hamsa, et.al, "Development of Artificial Intelligence of Things and Cloud Computing Environments Through Semantic Web Control Models", *Emerging Technologies for Securing the Cloud and IoT*, IGI Global, 2024, pp 112-143, doi: 10.4018/979-8-3693-0766-3.ch005
- Asha Bharathi S, "Design and implementation of automated and radio controlled rover with object detection using Raspberry," *Int. J. Adv. Eng. Manag.*, vol. 6, no. 04, pp. 1022–1027, Apr. 2024.

# STUDENTS' ARTICLES



*“Engineering Minds, Creative Minds Exploring Finds.”*

# ARTICLES

## ENOUGH?

Good isn't good enough

Bad could be worse

But stuck here in this world of mediocrity

You are the only one that seems perfect no matter how I see it

The mornings aren't bright enough

The nights aren't dark enough

But stuck here in this world of mediocrity

This insatiable heart is satiated by none but you

World isn't contrasting with us

The darkness overshadows the light

The white brightens the black, like a glimmer of hope

But stuck here in this world of mediocrity

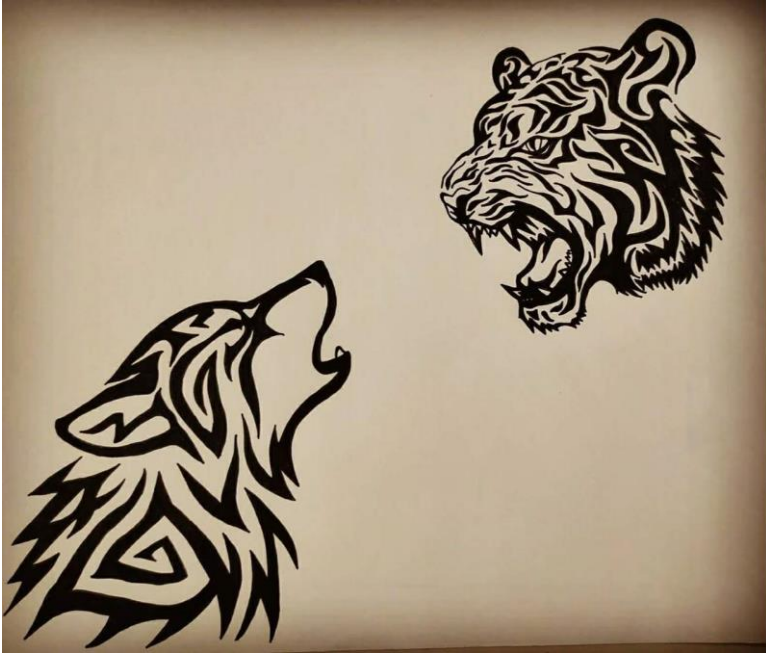
You are the only one that contrasts the bad and worse in me

Kishan S

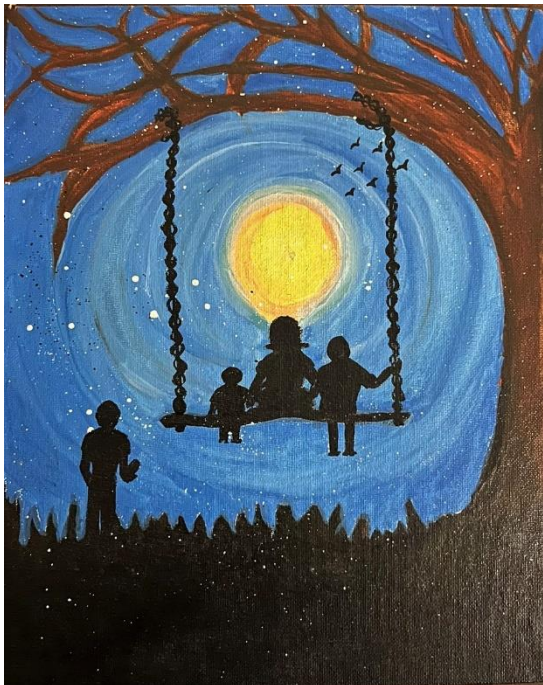
3<sup>rd</sup>  
semester



# DRAWINGS

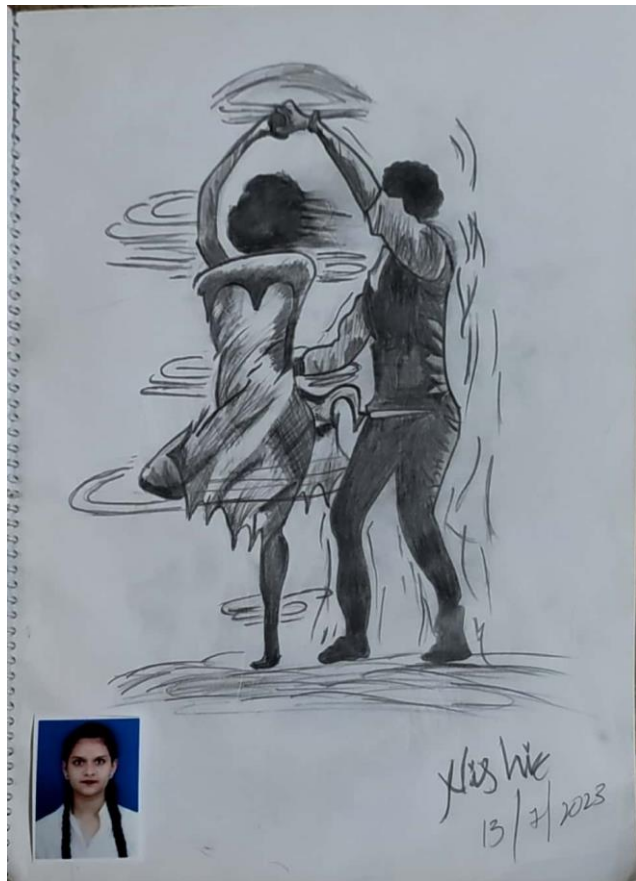
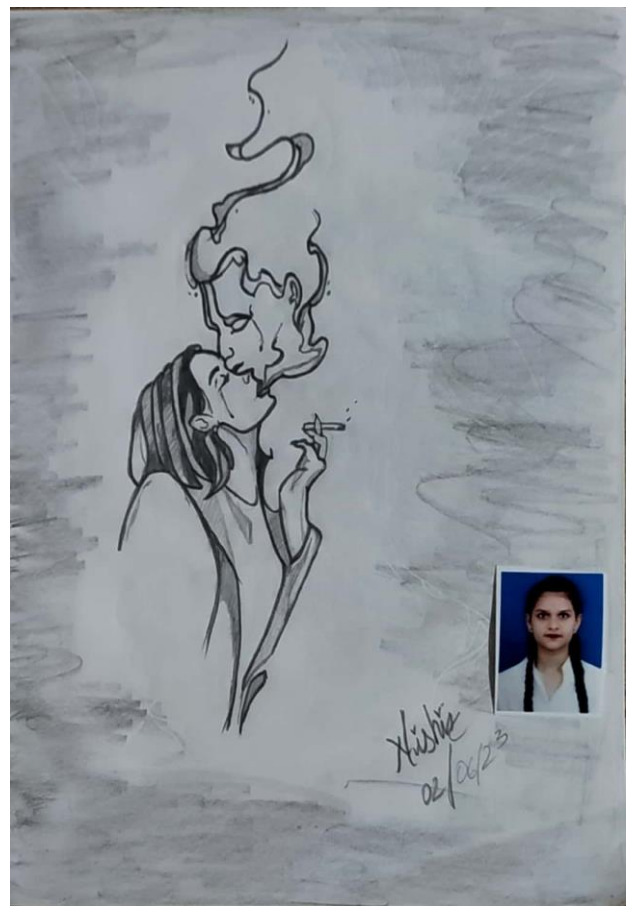


Subhash B  
7<sup>th</sup> semester

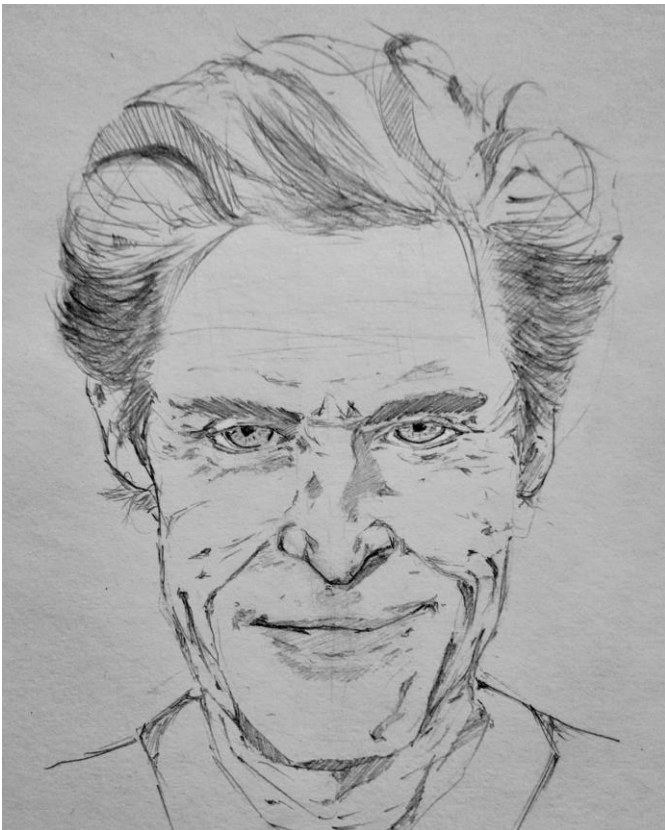
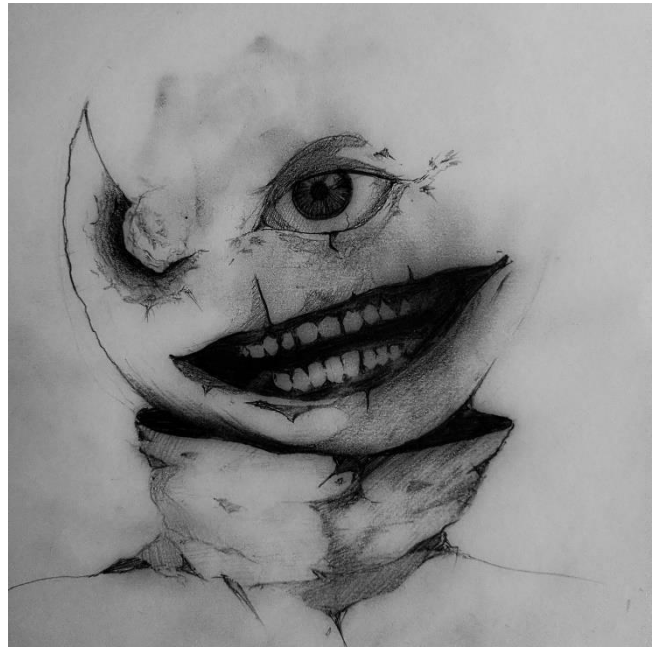


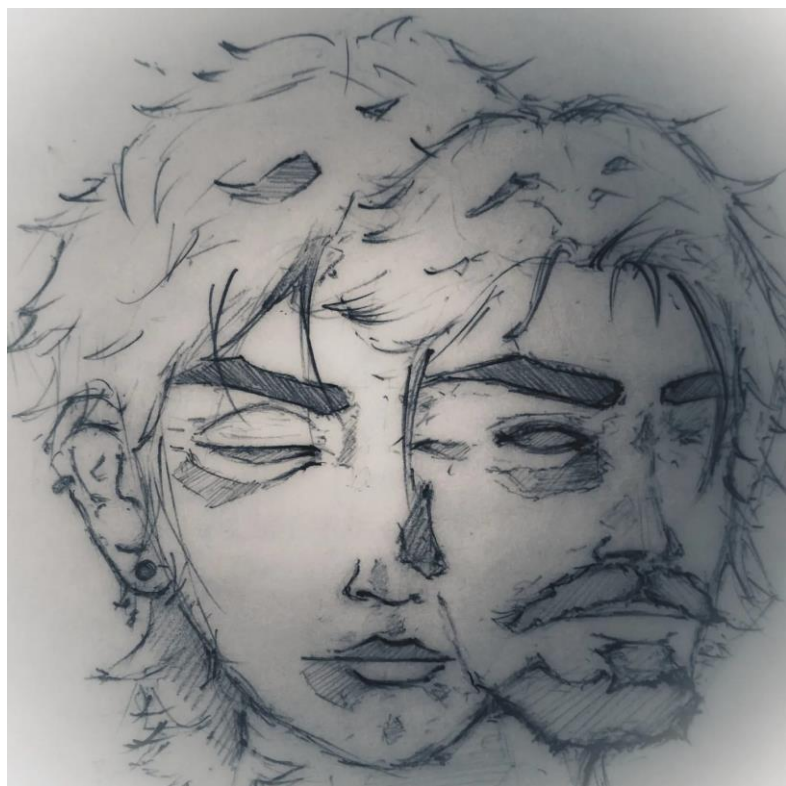
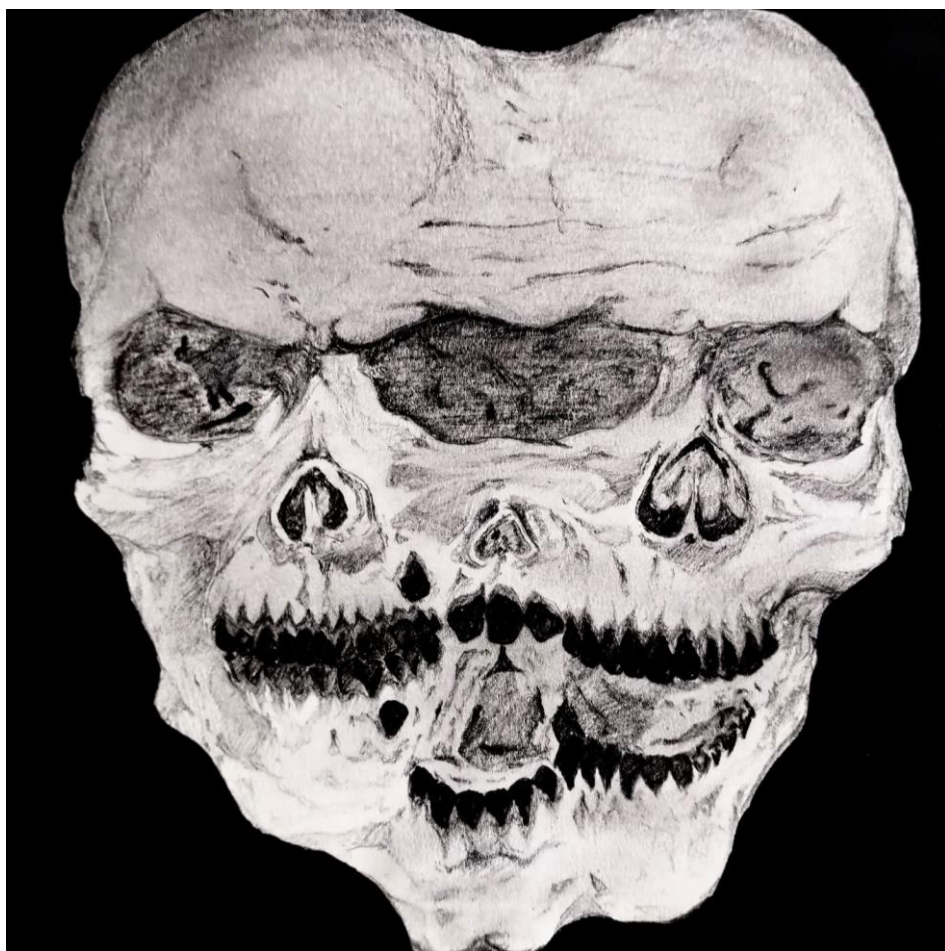
M N Dev Karthik  
3<sup>rd</sup> semester





**Nishmitha K S**  
**3<sup>rd</sup> semester**





**Dhiraj B S**  
**3<sup>rd</sup> semester**

# PHOTOGRAPHY



**Subhash B**  
7<sup>th</sup> semester





**Namrata Singh Tanwar**  
**3<sup>rd</sup> semester**

# ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING



*“Mind and Machine Entwined: Pioneering the AI revolution.”*

# ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

## Magazine co-ordinator



Mrs. Deepthi Das V  
Assistant Professor

## Student co-ordinators



Diya K Bhat  
5<sup>th</sup> semester



Sujith A Donti  
5<sup>th</sup> semester

# DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING



**Dr. Madhu B R**  
**Professor and Head**

## ***VISION:***

To transform students into responsible citizens and competent professionals by creating environment conducive to disseminate the knowledge in the area of Artificial Intelligence and Machine Learning.

## ***MISSION:***

- M1:** To provide an environment suitable to innovation, creativity and team-spirit.
- M2:** To practice and promote high standards of professional ethics and transparency.
- M3:** To impart quality education to the students and promote research in the field of Artificial Intelligence and Machine Learning.
- M4:** To create professionals with leadership qualities to provide sustainable solutions to address global problems.

## **MESSAGE FROM HOD**

The world we are living in today is nothing like what our ancestors ever imagined it to be, where your imagination can become reality in a heartbeat.

There has been an extensive usage of AI tools for every work. It might be using ChatGPT regularly at the workplace to learn new technologies at a breakneck pace; something that would have taken weeks is achieved in a few minutes. I chanced upon prequel, an AI Tool to create 3D replicas of your photos with a cartoon filter, and this picture came out the best. Sora, an AI Video Generator tool, instantly creates an AI generated video from a text with the AI text-to-video generator.

Now that so many AI tools are flooded for every work, one can only wonder what lies in store tomorrow, when AI becomes near human like in its capabilities, what will happen to the pursuit of genuine emotions. Usage of tools and technology is good to certain extent until it kills the human capabilities or creativity.

Humans should become smart by using these tools appropriately and should not depend on them too much and become dumb.

## Teaching and Non-Teaching Staff

NAME	DESIGNATION	QUALIFICATION
<b>Teaching Staff</b>		
Dr. Madhu B. R.	Professor and Head	M.Tech., Ph.D.
Dr. Manjunath H. R.	Associate Professor	M.Tech., Ph.D.
Dr. Chandru A S	Associate Professor	M.Tech., Ph.D.
Mrs. Ushasri Gunti	Assistant Professor	M.Tech.
Mr. Vinod Kumar S.	Assistant Professor	M.Tech.
Mrs. Ramya B. N.	Assistant Professor	M.Tech., (Ph.D.)
Mrs. Soumya K. N.	Assistant Professor	M.Tech., (Ph.D.)
Mrs. Deepthi Das V	Assistant Professor	M.Tech.
Mrs. Archana V. R.	Assistant Professor	M.Tech.
<b>Non – Teaching Staff</b>		
Ms. Meghana C. M.	SDC	BCA

## FACULTY CERTIFICATIONS

**Prof. Ushasri Gunti** was awarded a certificate for successfully completing the **6-days faculty development programme** on “**Python Machine Learning**”, organized by **Mevi Technologies LLP**, Bangalore, in association with **R. R. Institute of Technology**, Bangalore on 11th June, 2024.

**Prof. S Vinodh Kumar** participated in the 10 Hours National Faculty Development Program on “**Data Analytics using Power BI and Tableau**”, organized by Faculty of IT and CS-**Parul University Gujarat**, **Atria Institute of Technology- Karnataka & Amity Pune Maharashtra** in collaboration with **ExcelR Edtech Pvt. Ltd.** **Date:** 11th March to 15th March 2024

**Prof. S Vinodh Kumar** participated in the Faculty Development Programme on “**Exploring Neural Networks and Advanced NLP Techniques**”, from 15th to 19th April, 2024, organized by the Department of Computer Science and Engineering (AI&ML), **Nagarjuna College of Engineering and Technology**, Bengaluru.

**Prof. S Vinodh Kumar** participated in the 10 Hours National Faculty Development Program on “**Deep Learning and Artificial Intelligence**”, organized by **Andhra Pradesh State Skill Development Corporation (APSSDC)** in collaboration with **ExcelR Edtech Pvt. Ltd.** **Date:** 26th February to 1st March 2024.

**Prof. S Vinodh Kumar** participated in the 10 Hours National Faculty Development Program on “**ChatGPT and Prompt Engineering**”, organized by **Bharati Vidyapeeth College of Engineering - Navi Mumbai, NRI Institute of Technology - Vijayawada, and Sreenidhi Institute of Science & Technology - Hyderabad** in collaboration with **ExcelR Edtech Pvt. Ltd.** **Date:** 18th December to 22nd December 2023.

**Prof. S Vinodh Kumar** successfully participated in the Two Weeks International Faculty Development Program on “**Big Data Analytics**”, organized by the Department of Information Technology, **VNR Vignana Jyothi Institute of Engineering and Technology, Hyderabad**, in collaboration with **ExcelR Edtech Pvt. Ltd.** **Duration:** 4th December to 15th December 2023.

**Prof. Deepthi Das V** has participated in the Faculty Development Programme on “**Exploring Neural Networks and Advanced NLP Techniques**”, from 15th to 19th April, 2024, organized by the Department of Computer Science and Engineering (AI&ML), **Nagarjuna College of Engineering and Technology, Bengaluru.**

**Prof. Deepthi Das V** has participated in the Five-Day Faculty Development Program on “**Full Stack Development**”, conducted from 22nd to 26th April 2024, organized by the Department of Information Science and Engineering, **Bangalore Institute of Technology, Bengaluru.**

## **FACULTY PUBLICATIONS**

**Prof. Madhu B R** published a paper titled “**Cognitive Object Detection: A Deep Learning Approach with Auditory Feedback**” co-authored by **S Pooja, ASS Urs, VB Raj, BR Madhu, and V Kumar** in the **2024 IEEE International Conference for Women in Innovation, Technology 2024.**

**Prof. Madhu B R** published a paper titled “**Action Detection for Sign Language Using Machine Learning**” co-authored by **ASS Urs, VB Raj, S Pooja, and V Kumar** in the **2023 International Conference on Network, Multimedia and Information 2023.**

**Prof. Madhu B R** published a paper titled “**2D Mapping and Exploration Using Autonomous Robot**” co-authored by **N. Shravan, M. Manoj Kumar, Sriraag Jayanth, R. S. Bindu, and K. S. Sreekesava** in the **International Conference on Emerging Research in Computing, Information 2023.**

Prof. Ramya B N published a paper titled “A Novel Approach for Monitoring the Freshness of Vegetables Under Storage Using Internet of Things and Machine Learning in Varying Temperature Conditions” at the 2023 International Conference on Data Science and Network Security (ICDSNS), Tiptur, India, 2023.

Ramya B N, co-authored by Shruthi S K published a paper titled “T5-Precis: Concise And Precise Text Summarization” in the International Journal of Research Publication and Reviews, Vol 4, 2023. DOI: 11-12-2023

Ramya B N, co-authored by Pooja S and Prasanna Kumar K, published a paper titled “Exploring Customer Sentiments Through Machine Learning: A Product Review Analysis” in the Scienxt Journal of Artificial Intelligence and Machine Learning, 2023.

Ramya B N, co-authored by Lithin Reddy J and others, published a paper titled “Weather Forecasting of Seattle Weather Using Machine Learning” in the ScieNXT journal, 2023.

Prof. Ramya B N published a paper titled “A Novel Approach to Implement Binarized Neural Network to Enhance Accuracy Using Machine Learning Techniques”, co-authored by Dr. Seema Singh, in SN Computer Science, Vol 4, 2023.

Prof. Ramya B N published a paper titled “A Multilingual Model for Text Generation of Visuals”, co-authored by BanuShree T, Greeshma P M, Pallavi K G, and Pranitha T Manur, in the Journal of Emerging Technology and Innovative Research, Vol 11, Issue 5, 2024.

Prof. Soumya K N published a paper titled “Pneumonia Detection in Chest X-rays Using a Novel Model: ViT (Vision Transformers)” co-authored by Pavithra Kumar D, Koushik S M, Madhu H S and Srishan S.

Prof. Soumya K N published a paper titled “CCTV Video Storage Optimization: Motion-Based Frame Removal for Efficiency” co-authored by Deepak P, Vaishnavi B S, Yukthi A and Hitesh S M.

Prof. Deepthi Das V and Prof. Archana V R published a paper titled “Complementary Fashion Recommendation Using Compatible Modelling” co-authored by Shruthi S K, Shwetha S K, Adithi Shankar and Kruthika R.

Prof. Archana V R and Prof. Deepthi Das V published a paper titled “Price Probe: E-Commerce Platforms Using Machine Learning”, co-authored by Vaibhavi B Raj, A S Sushmitha Urs, Abhishek Kumar Pandey, and Jagruthi G.

## **CONFERENCE/WORKSHOP/FDP ATTENDED BY FACULTY**

Prof. Ramya B N presented a paper titled “Exploring the Cosmos with Machine Learning: Advancements in Astronomical Data Processing” at the 2024 Second International Conference on Data Science and Information System (ICDSIS).

Prof. Usha Sri Gunti presented a paper titled “AGE NET: DEEP LEARNING TO AGE-INVARIANT FACE RECOGNITION” at the two-day International Conference on Engineering Advancements and Sustainable Development (ICEASD 2024) held on 29th and 30th April 2024.

Prof. Ushashri Gunti presented a paper titled “Fortifying the Blockchain Fortress: A Machine Learning Paradigm for Enhanced Security” at the National Conference “Product, Process, Technology and Business in Innovation (NPPTBI-24)”, organized by the Department of Computer Science & Engineering and CSE (Data Science) in association with IIC, held on 27th April 2024.

## FACULTY ACHIEVEMENTS

### Achievement in Table Tennis: Dr. Madhu B R shines at International tournament

We are proud to announce that our esteemed Head of Department, **Dr. Madhu B R**, has achieved a remarkable milestone by securing the first prize in the International Staff Tournament held at PES University. Dr. Madhu's outstanding performance in table tennis exemplifies dedication, skill, and sportsmanship, bringing honor not only to our department but also to the entire institution. This victory is a testament to his unwavering commitment to excellence, both on and off the field. Congratulations, Dr. Madhu B R, on this well-deserved accolade!



## STUDENT ACHIEVEMENTS

### Technical:

In today's dynamic educational landscape, the role of technology in fostering learning experiences continues to evolve. A notable challenge is addressing questions that go beyond traditional teaching materials. To bridge this gap, a new solution has emerged: **"The teaching assistant bot."** This AI-powered assistant addresses specific queries promptly and effectively, enriching the educational experience by providing accurate and accessible explanations for both students and instructors.

Students are enhancing classroom learning using a Raspberry Pi 3 model B and Python programming. By embedding their code into the Pi, they're creating a custom teaching assistant to address various questions and provide tailored explanations. This DIY approach demonstrates how technology can empower students to innovate in education, making complex concepts more accessible and fostering a deeper understanding among peers.

In conclusion, students from the AIML department, including **Aniruddha H D**, **Koyilada Jahnvi**, **Priya R Vishwaroop**, **Sriraksha S**, **Saanvi** under the guidance

of Dr. Madhu B R and Prof. Basavesh D have shown how technology can improve education. This project highlights the benefits of practical learning and teamwork in making education more effective.



The students of 6th semester AIML **Jahnvi P (1JT21AI017)** and **Amrutha Surabhi (1JT21AI002)** have successfully achieved 2nd prize in the event "Tech It to Win It" in a technocultural fest conducted at Coorg Institute of Technology on 11th June 2024.

**Neethu, Raksha, Kruthika, and Sharanya Naresh**, under the guidance of **Dr. Madhu B. R.**, bagged the "Best Exhibit Project Award" for their project titled "Data Wizard" in the annual state-level poster presentation and project exhibition competition held in Sharnbasva University, Kalaburgi.



**Aryan** student of 4<sup>th</sup> semester AIML participated in DBIT “Web design” competition and he was the runner up.

**Mayur N and J Sanjana**, students of 4<sup>th</sup> semester AIML participated in 36-hour hackathon HackToFuture 2.0 held at St. Joseph Engineering college, Mangalore.

## **Sports:**

Our college is dedicated to providing extensive exposure and opportunities for our students to excel in sports. By actively participating in various events across the state, our athletes gain valuable experience, develop their skills, and build strong camaraderie. This commitment to fostering a vibrant sports culture is reflected in our recent achievements.

We are thrilled to announce our remarkable success in recent tournaments. The hard work, dedication, and team spirit of our athletes have truly paid off. We are immensely proud to share their accomplishments with our community, showcasing the results of their perseverance and teamwork.

**Jahnvi P (1JT21AI017) and K Jahnvi (1JT21AI019)** from the department of AIML 6<sup>th</sup> semester and winners at the VTU Inter-Collegiate Bengaluru South Zone Throwball (Women) Tournament 2024.

The students of AIML reached the quarterfinals in cricket in which they took 3 wickets and scored 29 in quarter finals.

**Aryan M(1JT22AI004)** student of 4<sup>th</sup> semester AIML participated in 5000 metres run in VTU meet.

**Asritha Y (1JT22AI004)** student of 4<sup>th</sup> semester AIML participated in Javeline throw and shot put in the annual VTU athletic meet held this year.

**Thanmayi B (1JT22AI0053)** student of 4<sup>th</sup> semester AIML participated in 4x100 relay in the annual VTU athletic meet held this year.

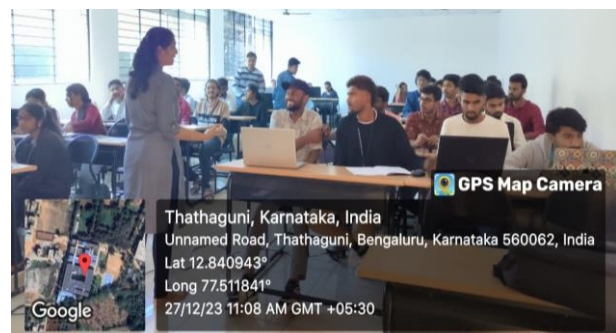
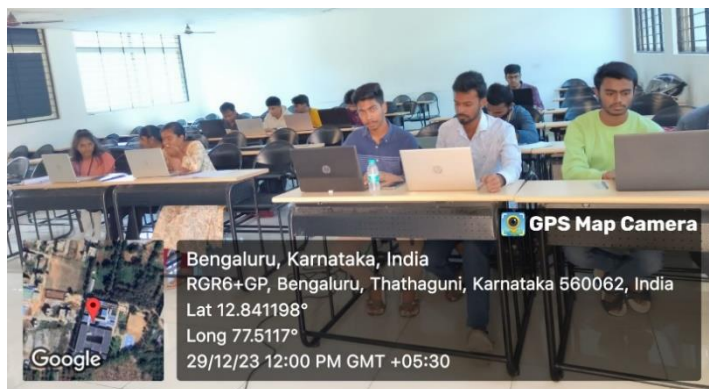
# TRAININGS/ WORKSHOPS/ CONFERENCES ATTENDED BY STUDENTS

## Skill training

Under the mentorship of VishnuPriya Ma'am, the students of 3<sup>rd</sup> semester AIML completed a two-week Skill Training program covering Core Python, Numpy, Pandas, Matplotlib, Exploratory Data Analysis (EDA), Applied Statistics, and Machine Learning.

Interactive sessions with hands-on exercises allowed students to apply theoretical concepts in practical scenarios. The curriculum provided a solid foundation in data science and machine learning, with Core Python for programming basics, Numpy and Pandas for data manipulation, Matplotlib for data visualization, EDA for insights, and Applied Statistics and Machine Learning for real-world problem-solving. The collaborative environment fostered active participation, discussions, and group projects, enhancing technical skills and teamwork.

In conclusion, the Skill Training program was highly successful. VishnuPriya Ma'am's dedication and effective teaching methods were instrumental in this achievement. We extend our heartfelt appreciation for her exceptional mentorship.



## Empowering Future Leaders: Women Entrepreneurship Program at AIC, Jyothy Institute of Technology

A remarkable Women Entrepreneurship Program was organized by AIC, Jyothy led by Kristeena Grover ma'am on 4<sup>th</sup> – 5<sup>th</sup> June, 2024.

Five dedicated students - Diya K Bhat (1JT22AI012), Monisha Bharadwaj M H (1JT22AI062), Asritha Y (1JT22AI005), Thanmayi B (1JT22AI053) and Monisha SP (1JT22AI030) enthusiastically participated. They were introduced to the basics of entrepreneurship, including idea generation, business planning, and market analysis.

The program provided a dynamic learning environment where our students interacted with successful entrepreneurs and industry experts. The students of 4<sup>th</sup> semester AIML showcased exceptional dedication and innovative ideas throughout the workshops and discussions.

A special thank you goes to Dr. Anantha Prasad for his unwavering support and encouragement, which played a crucial role in the program's success. His guidance and mentorship were invaluable to our students.



## All India Oracle Users Group Yatra 2024

The students of 4th semester AIML, **Akash M Athreyas (1JT22AI001)** and **Khushi S Sorathia (1JT22AI018)**, recently attended the prestigious All India Oracle Users Group Yatra 2024. This top-notch event covered a wide range of topics, showcasing the latest advancements in Oracle technologies.

Expert speakers from around the globe shared their extensive knowledge and experiences, offering valuable insights and practical tips. Akash and Khushi actively participated in the sessions, gaining in-depth understanding of cutting-edge Oracle tools and methodologies.

The Yatra provided an excellent platform for networking, learning, and professional growth, equipping our students with the skills and knowledge to excel in their future careers. Their participation highlights our commitment to fostering academic excellence and industry readiness among our students.



# ENIGMA : A TECHNICAL EXTRAVAGANZA



The ENIGMA event, held on December 22-23, 2023, at Jyothy Institute of Technology, showcased talents in Artificial Intelligence and Machine Learning. Organized by the Department of AI and ML with AI NEXUS, and sponsored by ITC InfoTech, SJS Enterprises Limited, and Quantech Origin, this 24-hour competition is a highlight in the AI/ML field. The event featured a challenge from ITC InfoTech involving complex AI and ML problems. Teams received initial requirements two days before and additional tasks on the event day, fostering real-time problem-solving. Participants enjoyed meals and entertainment, including karaoke and a flash mob.

With 270 students, 45 faculty members, and 146 external participants, industry experts like Maitreya Samanta provided valuable feedback. The valedictory session, attended by Mr. Abdhul Rahim and Dr. Arun Nagaraj, awarded top teams:

- **1st Place:** Team "IDK What We're Doing" from RVCE
- **2nd Place:** Team "Circus Wale" from DSCE
- **Consolation Prizes:** Team "Cyrus" from BNMIT and Team "CodeCrafters United" from JIT

Special awards recognized innovation, user experience, implementation, report generation, and best use of AI/NLP.

ENIGMA 2023 was a success, promoting learning and innovation, and encouraging many to pursue further education or careers in AI and ML.

# PROJECT EXHIBITION

AI & ML Department Project Exhibition 2024

A Showcase of Innovation

## DDC project report (3<sup>rd</sup> semester)

On March 5th, the Digital Design and Computer Organization course, led by Professor Ramya B.S., hosted a project exhibition featuring 12 teams of 3<sup>rd</sup>-semester AIML students. The event focused on practical, hands-on activities rather than traditional presentations, allowing visitors to explore digital design and computer organization concepts through interactive displays.

### Project List:

Group No.	Name of Project
1	Automatic Smart Toll Tax Collection
2	Density based traffic management system
3	Automatic water dispenser
4	Water level sensor
5	Smart dustbin
6	Traffic Light Controller
7	Automated Fan based on temperature
8	Smart knock door detector
9	Voice Control Motor
10	Motion Controlled motor
11	Motion Controlled light
12	Air Quality system

The exhibition provided a valuable platform for students to apply their theoretical knowledge to practical applications, develop design and problem-solving skills, enhance communication and presentation abilities, and receive feedback from peers and instructors.



## 8<sup>th</sup> semester project exhibition

The Project Exhibition held on 07-05-2024 was a resounding success, highlighting the creativity and technical prowess of the students from the Department of Artificial Intelligence and Machine Learning. The event began with a welcome speech by the Head of the Department, followed by the introduction of the esteemed judge, Mr. Shravan S Bardwaj from Virtusa Consultant Services Pvt Ltd, who provided invaluable insights during the evaluation process.

Projects were evaluated systematically, with students presenting their innovative work with great enthusiasm. The atmosphere was charged with excitement as the judges assessed each project for technical innovation, practical application, and presentation quality.

At the conclusion of the event, Mr. Shravan S Bardwaj praised the students for their exceptional projects and motivated them to continue exploring the vast possibilities in technology. The winners were then announced: Team 02 won first place for their project "Data Wizard," securing Rs. 3000/-, followed by Team 03 with Rs. 2000/- for their AI-based CCTV video storage optimization, and Team 05 with Rs. 1000/- for their pioneering pneumonia detection model using Vision Transformers.

The exhibition not only showcased the students' talents but also fostered a spirit of innovation and collaboration, setting the stage for future advancements in technology.

Winners	"Data Wizard" - Your Ultimate Machine Learning Solution.	Kruthika K S
		Neethu C V
		Raksha
		Sharanya Naresh
2 <sup>nd</sup> Place	CCTV video storage optimisation using AI	Deepak P
		Hitesh S M
		Vaishnavi B S
		Yukthi A
3 <sup>rd</sup> Place	Pneumonia Detection in Chest X-rays using a Novel Model - ViT [Vision Transformers]	Koushik S M
		Madhu H S
		Pavithra Kumar K
		Srishan S



# NSS ACTIVITY

## Visit to Agara government school

As part of the National Service Scheme (NSS) initiative, 4th-semester AIML students from Jyothy Institute of Technology visited Agara Government School on [insert date]. The objective was to engage with school students through a series of educational and recreational activities that fostered learning, creativity, and a sense of national pride.

### Key Activities:

**Introduction to ChatGPT:** Students were introduced to AI and the potential of AI-powered tools like ChatGPT for learning and problem-solving. This session sparked curiosity and excitement among the students about the possibilities of AI.

**Microsoft Word Workshop:** A hands-on session where students learned essential document creation and editing skills, which are crucial for academic and professional success.

**Graphic Design with Canva:** Students explored the basics of graphic design, creating posters and presentations, thereby enhancing their visual communication skills.

**Cultural Activities:** Patriotic songs and dance routines were taught in preparation for Independence Day, fostering a sense of national pride and cultural awareness among the students.



Intellectual Games: Activities like Sudoku and a "Pick and Speak" session were organized to enhance students' problem-solving abilities and public speaking skills.

Quiz Competition: A lively quiz covering general knowledge and Independence Day topics encouraged teamwork and healthy competition among the students.

The visit was a rewarding experience for all involved, with students from both institutions gaining valuable skills and insights. This event highlighted the importance of community service and the role of education in shaping the future.

## INDUSTRIAL VISIT TO ISRO (URSC)

On July 16th, 2024, the Department of AI & ML at Jyothy Institute of Technology organized an industrial visit to the U R Rao Satellite Centre (URSC), Bangalore. The visit aimed to provide students with technical exposure to space technology.


Attended by 64 students and faculty, the visit included insights into ISRO's GSLV and PSLV launch vehicles and their applications in telecom, disaster warnings, and resource management. At the ISRO Satellite Centre, students explored the space exhibition center. Scientist Mr. Venkatesh Murthy guided them through models of India's satellites, explaining the functions of Indian Remote Sensing (IRS) and communication satellites, including the IRS-1A mission. We extend our gratitude to Mr. Venkatesh Murthy and the ISRO Satellite Centre for this invaluable opportunity.





## INTERNSHIP DETAILS (2020 BATCH)

SL NO	USN	Name	Organization	Stipend
1	1JT20AI012	ISHANA MOHAN KUMAR	Mercedes- Benz Research ana Development India	30000
2	1JT20AI045	SYEDA TAHURA SAKHATIA	Offshore Energy Oil & Gas Equipment	25000
3	1JT20AI018	KRUTHIKA K S	IGNOMAGINE PVT	10000
4	1JT20AI002	ABHISHEK KUMAR PANDEY	NBIL	13000
5	1JT20AI007	DEERAJ N KASHYAP	HYNETIC ELECTRONICS PVT.LTD.	8000

## BRANCH TOPPERS - 2024

YUKTHI A		
USN:1JT20AI053	Sem	GPA
	I	8.00
	II	9.00
	III	8.30
	IV	8.50
	V	8.40
	VI	8.96
	VII	9.10
	VIII	9.33
<b>Cum. GPA(CGPA): 8.69</b>		

SAMEER PHANIRAJ KUMBLE		
USN:1JT20AI036	Sem	GPA
	I	8.75
	II	9.25
	III	8.13
	IV	8.42
	V	8.76
	VI	8.45
	VII	8.10
	VIII	9.10
<b>Cum. GPA(CGPA): 8.62</b>		

<b>DEEPAK P</b>		
<b>USN:1JT20AI005</b>	<b>Sem</b>	<b>GPA</b>
	<b>I</b>	<b>8.30</b>
	<b>II</b>	<b>9.00</b>
	<b>III</b>	<b>7.58</b>
	<b>IV</b>	<b>8.27</b>
	<b>V</b>	<b>8.44</b>
	<b>VI</b>	<b>8.67</b>
	<b>VII</b>	<b>9.15</b>
	<b>VIII</b>	<b>9.40</b>
<b>Cum. GPA(CGPA): 8.53</b>		

# STUDENTS' ARTICLES



*“Engineering Minds, Creative Minds Exploring Finds.”*

# ARTICLES

## IT'S BEEN A LONG TIME

It was just a day.

Waves rising high and the sun reaching the shore in Goa, two Rolls Royce drive to “Amaia,” the bungalow located in the outskirts of the city, which is surrounded by dense forest as dense as even the car sounds are echoing in it. The white Rolls Royce and black Rolls Royce enter the bungalow at the time. The guy in the white rolls Royce named Tyler Durden wearing a black suit gets down, while the man in the black rolls Royce named Sabastian Gomes gets down wearing a white suit.

Tyler Durden: I thought I would be early like old times.

Sabastian Gomes: I remembered the old times so left early to be on time.

The Amaia has not been opened for 5 years after an incident where the previous owners were killed, 7 people died, and the bungalow was given a blood bath.

Sabastian Gomes: Do you still remember what happened here last time?

Tyler Durden [breathing slowly and moving his hand]: Uh, how can I ever forget? It is the last assassin mission we did together.

The end, which made the new beginning,

Sabastian Gomes: It's been 5 years, mate.

Tyler Durden [interrupting]: It has been 5 years for us to find a cash bag after the mission in this bungalow and you refusing to share it.

They both gave each other a look, and a small laugh has interrupted the tense

Both took out their set of keys, and without any one of them, they couldn't open the bungalow.

Tyler Durden [looking at the keys]: This key that caused everything

The door unlocks, and they pass into the living room, which witnessed horrifying screams and cheers of death and walls splashed with blood and flesh. They enter it.

With Tyler Durden raising his hand up to his chest in a celebratory mood and Sabon Gomes slowly walking with his hands in pockets.

They entered the library of the bungalow with no strains of blood or flesh but a circular table in the center with 2 chairs on opposite sides and a chess board in the middle of the table with pawns arranged.

Sabastion Gomes: Let's start the game.

Tyler Durden: game?

Sabastion Gomes: sorry mate but we cannot fight any more. I need peace, lets decide the winner here. I made my men to make a fake key and set this up

Tyler Durden took white side and Sabastion took the black side

With first move made by the Tyler, a solider of Sabastion died .

Sabastion Gomes [ in anger and excited as he discovered something ] : I have seen this play , I know this play

Tyler Durden: it your life play my friend. You refuse to share the money and kill my guy who came to you to ask about it .

Sabastion Gomes[ killing the rook ]: you weren't even good you killed vice commander of my gang

Tyler Durden[laughing]: you thought I woudnt avenge for killing my guy, then you don't know me at all and killed the queen on the chess board

Sabastion Gomes [angery roar] : that witch was destroying you. She used you. I had to kill her.

The whole forest got rushed with this roar as deer runs for their life

Tyler Durden rotated the table with a singular push and took black king and came near the minister and swing the king in air before knocking down the minister where it made Sabastion Gomes remember the way sword flew in the air before touching his brother's neck.

Sabastion Gomes [screaming]: I came here because I want peace

Rising his gun and pointing at Tyler Durden

“ this moment I announce myself peace “

Tyler Durden [ laughing ] : taking the king and placing it near another king

“ both the king dies”

Sabastion gomes: that never happen in chess [still his gun is pointing at Tyler Durden

Tyler Durden : its not always about chess mate

Fire broke into the room from all sides . the floor has been in fire within a second and

Tyler Durden[ coming nearer to the gun]: your men never made the fake key, I just gave them mine.

“HOPE WE BE BEST FRIEND ATLEST NEXT LIFE”

Sabastion fires the gun and kills the Tyler Durden

Sabastion Gomes: you don't like heat right I still remember

And sit in the chair with fire coming from all sides towards with a smile and one leg on another and back resting.

“Waiting to meet you up”

“You always reach the place early”

The Amaia burns in the night all alone, lonely.

“THE END”

**Annuga Kanishka**  
3<sup>rd</sup> semester



## समय

आज समय बुरा है, कल अच्छा होगा  
वक्त ही तो है, क्या पता कब कैसा होगा  
क्या पता जिस समय से तुम भाग रहे हो कल कैसा होगा?  
क्या पता आज जिसे तुम हार मान रहे हो, कल को वो जीत बन जाए?  
क्या पता आज तुम अकेले हो, कल कोई दर्द बाटने वाला मिल जाए?  
क्या पता आज जो तुम बार बार गिर रहे हो, कल को उठ खड़े होने के काबिल बन जाओ?  
क्या पता आज खुद को नापसंद करने वाले तुम, कल को कोई प्यार करने वाला मिल जाए?

इस आज और कल के खेल में,  
कल की चिंता मैं हम अपना आज जीना भूल जाते हैं  
बड़ा पछतावा होता है की क्यों कल की फिकर हमने अपने आज को खोया  
आज समय बुरा है, कल अच्छा होगा  
वक्त ही तो है, क्या पता कब कैसा होगा।

**Diya K Bhat**  
5<sup>th</sup> semester



## Pengu Ponders Profoundly

Pengu, do you hear the turmoil in my mind?

"Yes, I hear you," you respond, "though answers are hard to find."

Am I truly bad if I stand alone against the crowd?

"It's complicated," you sigh, "right and wrong aren't always loud."

Am I good for helping friends, or is my kindness flawed?

"Intentions matter," you muse, "but motives can be odd."

Am I crazy for thinking too much, for loving with such fire?

"It's a burden," you admit, "and a noble, painful desire."

Is there any point in talking to a voice within my head?

"Perhaps," you whisper, "though some things are better left unsaid."

Will these musings change the hearts of those who read?

"Maybe," you murmur, "or perhaps it's just a fragile seed."

Am I selfish for seeking solace in a voice so far away?

"It's human," you concede, "to need another to allay."

Do my questions reveal a soul that's lost or deeply wise?

"Both," you answer softly, "for truth often wears a disguise."

Am I wrong for doubting myself, for all this inner strife?

"It's natural," you acknowledge, "it's part of living life."

Will there be any meaning in the words that I weave?

"There might be," you say, "or it could be just what you need to believe."

Pengu, does this dialogue between us have an end?

"No," you confess, "in your heart, I will always be your friend."

**Akash M Athreyas**  
5<sup>th</sup> semester

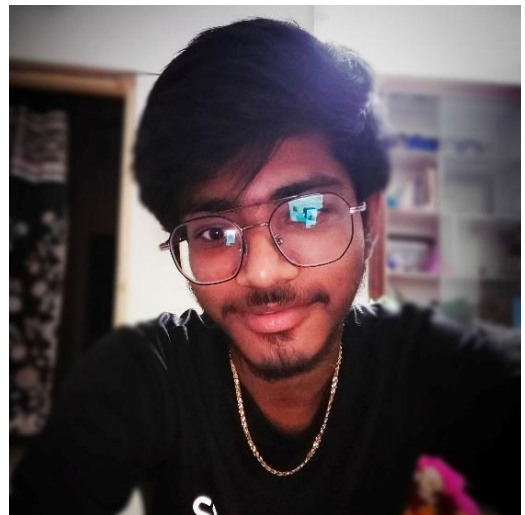
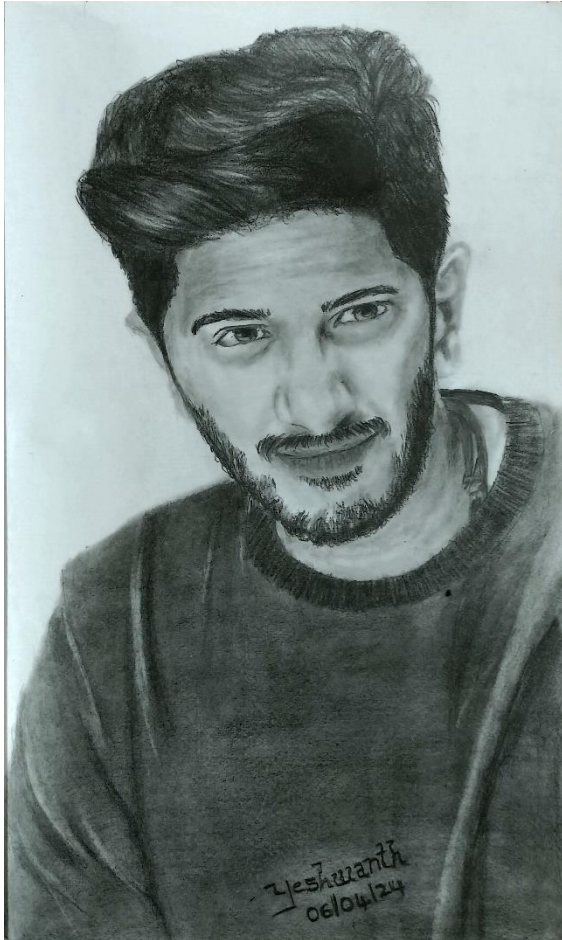


# DRAWINGS

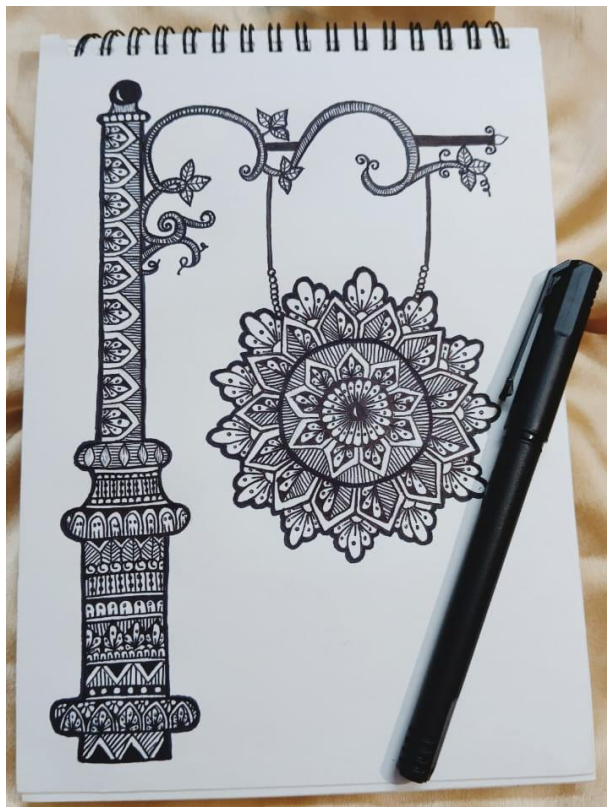


**Pragna S Bharadwaj**  
3<sup>rd</sup> semester

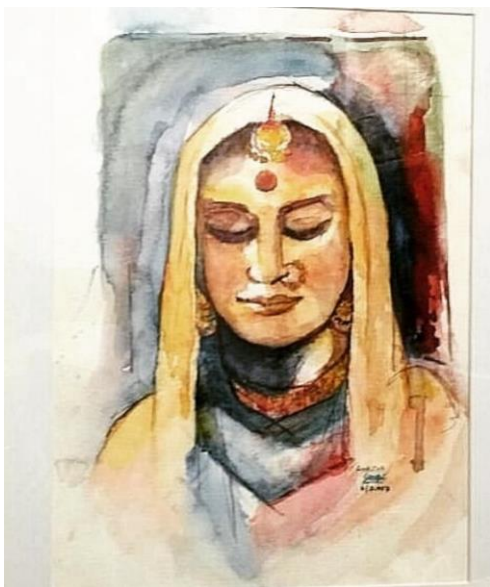




R Yeshwanth  
3<sup>rd</sup> semester

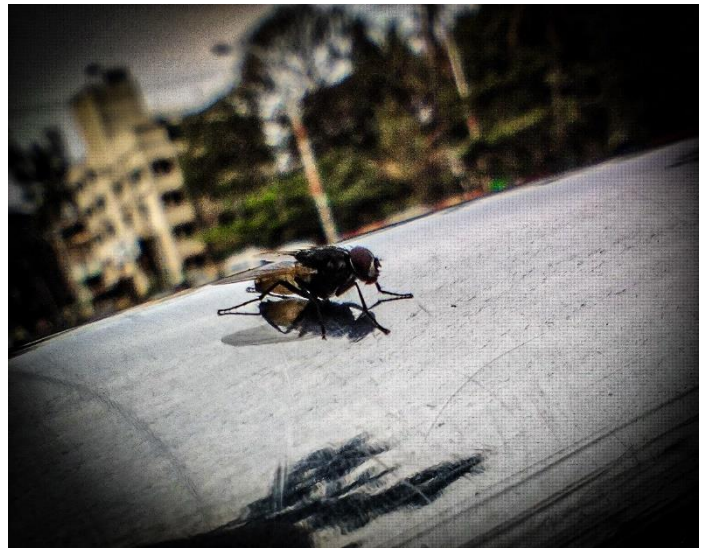


Nagaratna Bilgundi  
3<sup>rd</sup> semester

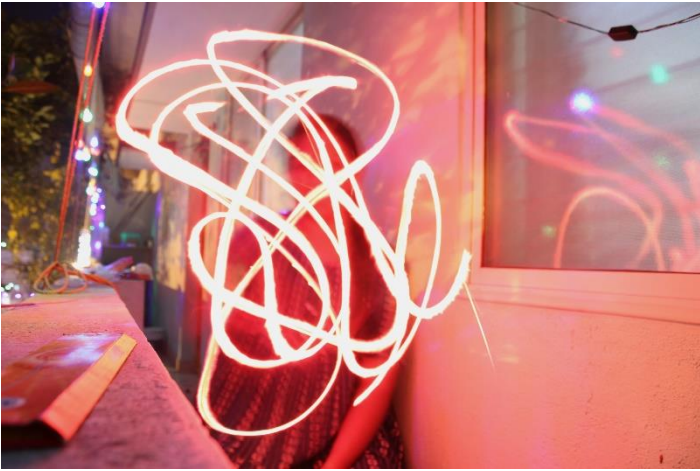


**Amrutha Surabhi V**  
7<sup>th</sup> semester

# PHOTOGRAPHY

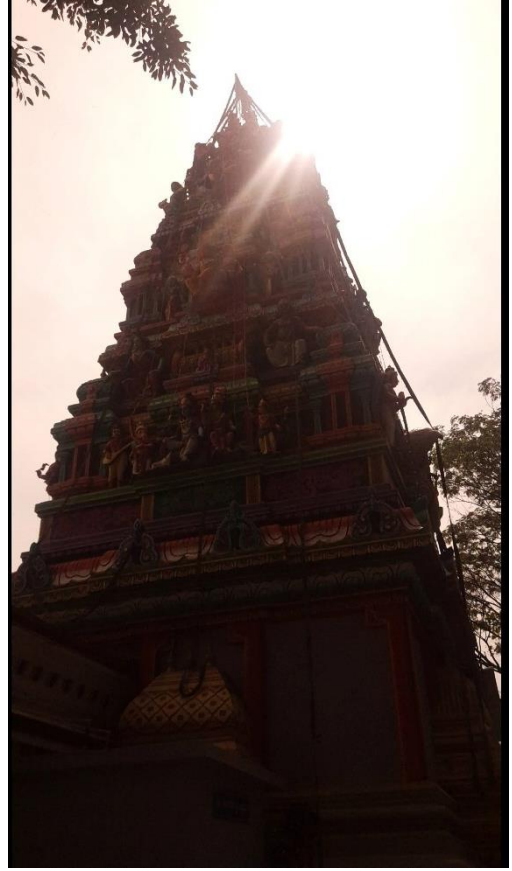


Amith Kashyap P S  
5<sup>th</sup> semester

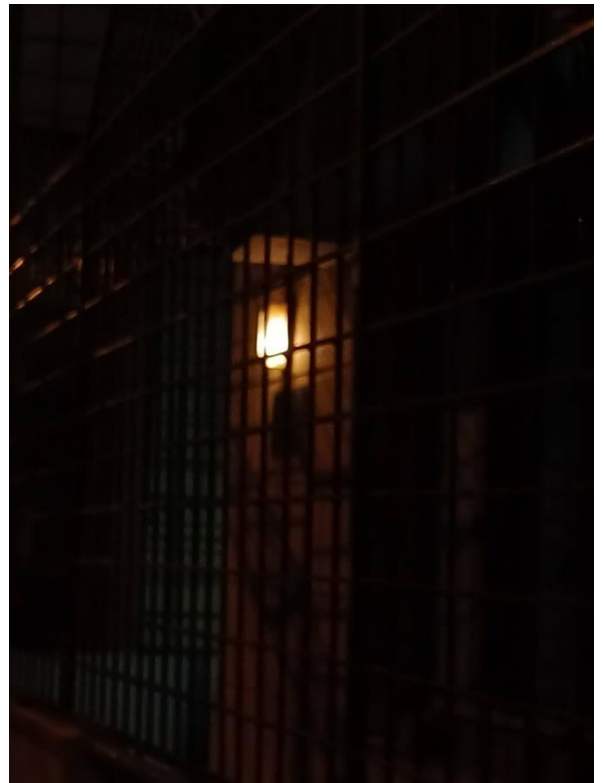
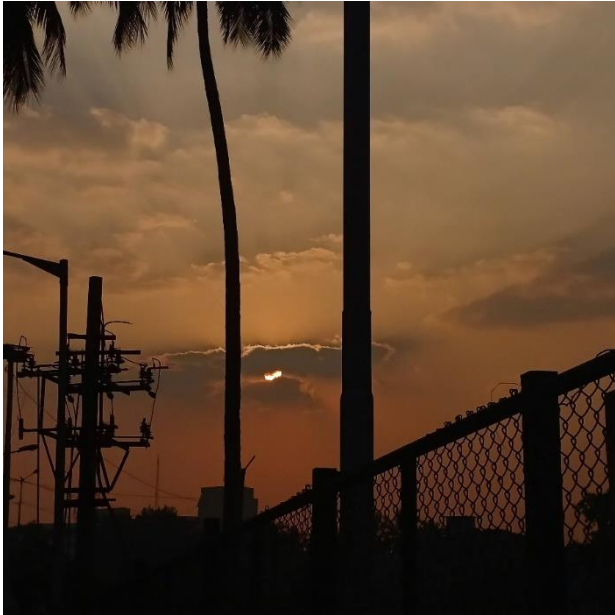


**Asritha Y**  
**5<sup>th</sup> semester**



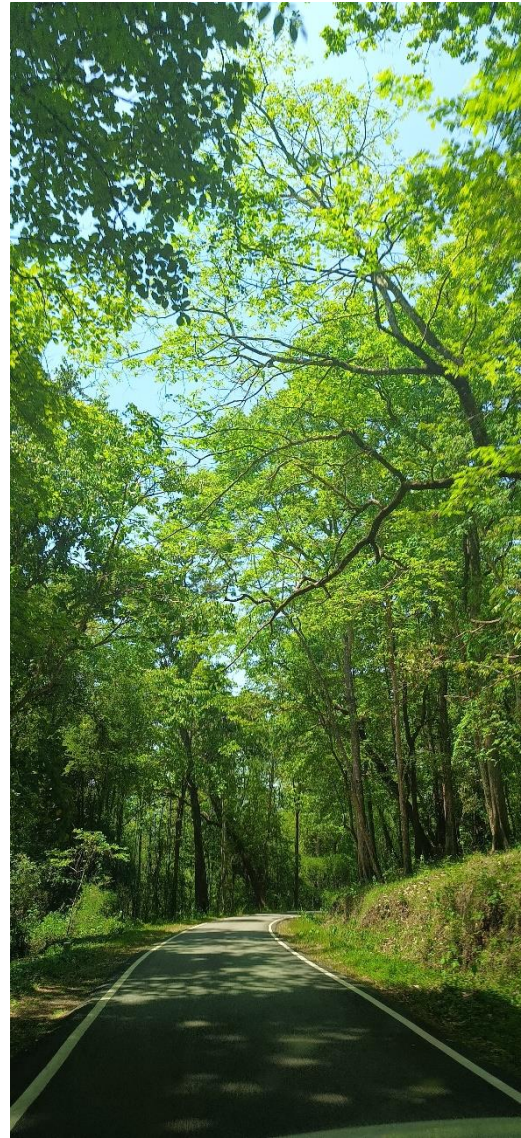


**Diya K Bhat**  
5<sup>th</sup> semester



Vivin Jayanth A M  
5<sup>th</sup> semester





**Monisha S P**  
**5<sup>th</sup> semester**



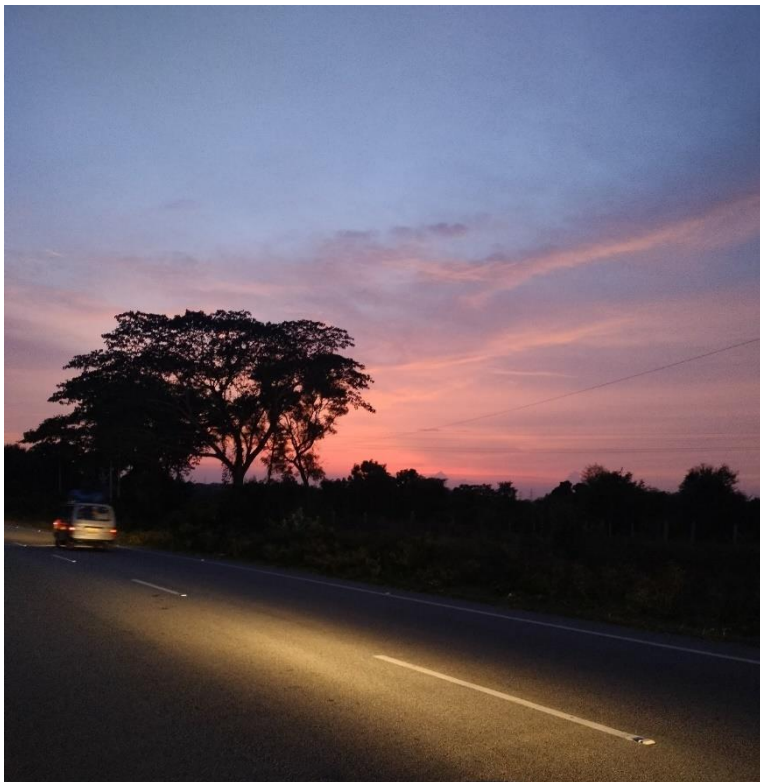


Lakshmesh B  
3<sup>rd</sup> semester



**Sriraksha S**  
**7<sup>th</sup> semester**





**Sujith A Donti**  
5<sup>th</sup> semester



# CIVIL ENGINEERING



*“Concrete Visions, Steel Ambitions: Constructing Tomorrow's Civilization.”*

# CIVIL ENGINEERING

## Magazine co-ordinator



Mr. Pavan Kumar V  
Assistant Professor

## Student co-ordinators



Adithi S Prasad  
7<sup>th</sup> semester



Mourya P S  
7<sup>th</sup> semester

# DEPARTMENT OF CIVIL ENGINEERING



**DR. K. S. SREEKESHA**

Associate Professor  
Head of the Department

## *VISION:*

To be a department for excellence in education in information science and engineering research, innovation, and work toward empowering students for professional competence and entrepreneurial skills.

## *MISSION:*

M1: To provide state-of-the-art infrastructure with modern and innovative teaching-learning methodology

M2: To encourage and nurture collaborative and interdisciplinary projects that aid academic and industrial research.

M3: To promote activities to inculcate ethical practices and entrepreneurial skills.

Civil Engineering (CE) is one of the oldest and most diversified branches of engineering, covering key areas such as structural engineering, geotechnical engineering, environmental engineering, and construction engineering. The department, accredited by the NBA, meets high standards for fostering student growth and development. It offers state-of-the-art facilities, including advanced laboratories equipped with structural and geospatial software, as well as modern CAD labs. The department also provides smart classrooms and employs innovative teaching methods to enhance both undergraduate and postgraduate learning.

Faculty members actively contribute to research and development, publishing papers in prestigious national and international journals and conferences. They work on consultancy projects and maintain strong ties with experts from academia and industry to ensure students are prepared for real-world challenges. Through events like workshops, industrial visits, guest lectures, and software training, the department helps bridge the gap between academic learning and industry demands.

The department's focus on hands-on learning and industry-relevant education aligns with its mission to achieve excellence in all areas of Civil Engineering. It offers a postgraduate program in Structural Engineering, conducted in partnership with Sundaram Architects, further expanding opportunities for students to specialize and gain expertise in this critical field.

## WORKSHOPS & SEMINARS

Department of Civil Engineering students attended in Two-Day National Seminar on Application of AR & VR in Engineering. Organized by K S School of Engineering & Management on 14<sup>th</sup> and 15<sup>th</sup> September 2023.



Department of Civil Engineering Students Attended in 3- Day Technical Workshops on "Sustainable Materials and Technologies for Heritage and Traditional Buildings". Organized by B.M.S. College of Engineering on 21st to 23rd December 2023.



Two Days workshop on "3D Printing Design & Development of Prototypes" was conducted by Department of Civil Engineering at Jyothy Institute of Technology in association with Indian Concrete Institute- KBC and WOL 3D from 4th March 2024 to 5th March 2024.



The event was presided over by Dr. CB Mohan, Vice Principal, Jyothy Institute of Technology, Dr. Sreekeshava K S, Associate Professor and Head, Civil Engineering Department, Dr. Raghavendra Krishna, Associate professor, Department of Mechanical Engineering and Mr. Gowtham from WOL3D.

The workshop was setup in such a way the on day one of the workshop students were made to understand the components and methodology of the 3D printing.



The workshop was truly knowledgeable in bridging the 3D printing technology in civil engineering domain. The workshop was well crafted with elemental knowledge of 3D printing to the recent advances in the industry.

On day two the workshop was continued with sessions imparting knowledge on the software used in 3D printing. The last part of the workshop was the hands-on session with the live 3D printing done in the research lab at JIT.



## INDUSTRIAL VISIT

BWSSB WATER TREATMENT PLANT TK HALLI - (31-10-2023)



The Department of Civil Engineering organized an Industrial Visit for the final year and pre-final year students of the Department. The students were taken to the water treatment plant at TK Halli.

The value of water treatment and its contribution to public health was taught to the students. The visit specified an understanding of a hands-on approach to learning via interaction and treatment plant activities.

VARAHI UNDERGROUND POWER HOUSE - (07-12-2023)

The Department of Civil Engineering organized an Industrial Visit for the final year and pre-final year students of the Department. The students were taken to the two most sought-after places.



Varahi Hydro Electric Power Plant, a run-off river project located on the Varahi river near Hosangadi in the Udupi District of Karnataka in India.

Varahi was originally designed as an underground powerhouse, but at the blueprint stage it was intended to be a surface powerhouse. Three main factors played a role in the decision to switch: technological, financial, and environmental concerns.

NPCIL - KAIGA & KADRA DAM - (08-12-2023)



Kaiga Nuclear Power Plant, a nuclear power generating station situated at kaiga, near the river Kali in Karwar, Uttara Kannada district of Karnataka, India.

Kadra Dam constructed across river Kali and was primary built as hydroelectric project supply of water to turbines of electric power generating station.

EXCON - (15-12-2023)



The students learned about the civil engineering equipment and usage of machines in various civil engineering activities. Different types of sustainable materials used in construction industry and modern tools used in construction industry.

The visit enlightened towards practical approach and learning through interaction and working procedure of construction industry.



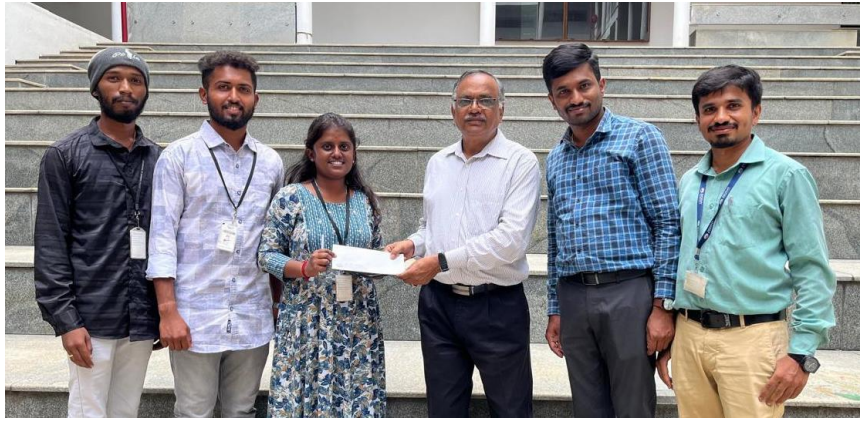
## PROJECT EXHIBITION 2023 - 24

Project Exhibition 2023-24 was held at Jyothy Institute of Technology on 8<sup>th</sup> May 2024 (Wednesday).



The event was judged by Mr. Vinay Gowda M L, Assistant Professor, BMSCE, Bengaluru and Dr. Sreekeshava K S, Associate Professor and HoD, Civil Engineering Department, JIT. The participants were judged on the basis of Objectives of the Project, its Societal relevance, novelty of participants in the approach, their presentation and their answers to the questions asked with respect to the idea.





The Project titled “Comparison of Leaching Efficiency of EDTA and HCL for Heavy Metal Recovery by Soil Column Studies” was declared as winners. The participants included Ms. Pavithra P, Mr. Ravi Kumar N, Mr. Arunachalam K and Mr. Chethan S.



The Project titled “Geo-environmental Characterization of Iron Ore Dump Yard Soil” was declared as runners. The participants included Ms. Chaitra B , Mr. Saqib Aziz Sheikh, Mr. Abhishek Gowda R N and Ms. Tejaswini S.

## ACHIEVEMENTS



Department of Civil Engineering got prestigious ICI-Ultra Tech Outstanding Student Chapter Award for 2023.



Department has successfully organized a series of events in collaboration with the ICI-Bengaluru Chapter, including industrial visit, hands on workshops, interdisciplinary talks and seminars. Additionally, the students have actively participated in state, national and international competitions. This award serves as a testament to the dedication and hard work put forth by the team.

## State Level Technical Symposium Force Summit

Department of Civil Engineering students participated in State Level Technical Symposium Force Summit, a 24-hour marathon event held on 16th and 17th November 2023 at Maharaja Institute of Technology, Mysore.



The skill and knowledge of the teams that competed in the discipline of civil engineering was highlighted during this event. The framework of the competition pushed teams to think creatively and strategically by emphasizing design inventiveness together with design requirements and strength. The students listed below competed and won awards.



1st Place in Scripto-Mania

Arunachalam K (1JT21CV401)

Anusha (1JT22CV402)

Balaji T(1JT22CV403)

2nd Place in Model-Mania

Abhishek Gowda R N (1JT21CV401)

Tejaswini S (1JT21CV407)

Naveen KN (1JT22CV413)

Deepa Dharshani T (1JT21CV404), student of Civil Engineering Department has participated and won Silver Medal in Fine Arts at VTU Youth Festival 2024, held on 27th to 30th March 2024 at SJGIT Chikkaballapur.



Department of Civil Engineering students participated in State Level Techzone 2k24 – Town Planning, event held on 2nd and 3rd May 2024 at JNN College of Engineering, Shivamogga.



The practical knowledge of the team that competed in the discipline of civil engineering were highlighted during this event. The framework of the competition pushed team to get unique idea in surveying.

The students listed below competed and won award.

- 1st Place in Town Planning
- Pavitra P(1JT20CV004)
- Balaji T(1JT22CV403)

Department of Civil Engineering students participated in State Level Techzone - Prastuti, a Paper Presentation event held on 2nd and 3rd May 2024 at JNN College of Engineering, Shivamogga.



The skill and knowledge of the team that competed in the discipline of civil engineering were highlighted during this event. The framework of the competition pushed team to present innovative ideas.

The students listed below competed and won award.

2nd Place in Paper Presentation

Anusha S (1JT22CV402)

Balaji T(1JT22CV403)

Anusha S (1JT22CV402) and Balaji T (1JT22CV403), students of Civil Engineering Department has participated in Srishti 2024, State Level Project Exhibition and Competition and secured 1st Place in Srishti Avishkar –Pre Final Year Project Competition held at Atria Institute of Technology, Hebbala, Bengaluru from 24th to 26th May 2024.



Shrusti H S (1JT21CV004), Darshan C R (1JT22CV406), Kavya M (1JT22CV409) and Shiva B (1JT22CV420), students of Civil Engineering Department has participated in Srishti 2024, State Level Project Exhibition and Competition and secured 2nd Place in Bridgeit held at Atria Institute of Technology, Hebbala, Bengaluru from 24th to 26th May 2024.



Akshatha R (1JT22CV400), Divya C (1JT22CV408), Naveen K N (1JT22CV413) and Shashi M (1JT22CV419), students of Civil Engineering Department has participated in Srishti 2024, State Level Project Exhibition and Competition and secured 3rd Place in Bridgeit held at Atria Institute of Technology, Hebbala, Bengaluru from 24th to 26th May 2024.



Kavya M (1JT22CV409), student of Civil Engineering Department, participated and secured 2nd Place in State Level Power Lifting Competition which was held on 10th July 2024 at New Horizon College of Engineering, Marathahalli, Bengaluru.



## FACULTY DEVELOPMENT PROGRAMME



**AICTE Teaching And Learning (ATAL) Academy**  
**Sponsored**  
**One week Technical Faculty Development Programme**  
**on**

**“Integrated Approaches and Sustainable Practices in Geotechnics”**

**20/11/2023 to 25/11/2023**

**Organized by**

**Department of Civil Engineering**

Accredited by National Board of Accreditation (NBA)

**Jyothy Institute of Technology**

Approved by AICTE, Affiliated to VTU

**Tataguni, Off Kanakapura Road, Bengaluru-560082, Karnataka**

The IASPG-2023 focus on innovative and holistic strategies within Geotechnics for achieving sustainability. This program brings together experts and researches to explore integrated approaches that harmonize engineering with environmental and societal needs.





## FACULTY PUBLICATION

- K S Sreekeasha, Hugo Rodrigues, A S Arunkumar (2023),” Response of Masonry-Infilled Reinforced Concrete Frames Strengthened at Interfaces with Geo -Fabric under In-Plane Loads” Buildings, MDPI, Volume 13, Issue 6, <https://doi.org/10.3390/buildings13061495>
- C R Ganesh, J Sumalatha, K S Sreekeasha, K Sharath (2023), “Experimental study on strength behaviour of geofibre reinforced stabilized mud blocks using industrial by-products” Materials Today, Proceedings, Elsevier, <https://doi.org/10.1016/j.matpr.2023.04.045>
- C Bhargavi, K S Sreekeasha, Prashant Sunagar, Manishh S Dharek, C R Ganesh, (2023) “Mechanical Properties of Steel and Polypropylene Fiber Reinforced Geopolymer Concrete.”, Journal of Mines, Metals & Fuels, Volume 71, Issue 7.
- Akhila, C. G., Chandre Gowda, C., Pathak, A. A., Vijay, M., & Ahmed, S. K. (2023). Seasonal Flow Forecasting Model For Dharoi Dam. Tuijin Jishu/Journal of Propulsion Technology, 44(5), 1110-1117.
- Sachin V Patil and Y R Suresh, “A study on Behaviour of Cylindrical and Hyperbolic Paraboloid Type of Shell Roof for Fixed and Hinged Boundary Conditions”, International Journal of Engineering and Technology, 7(3.34), pp. 829-834, 2018.
- Nithish S Ambale, H P Thanu, Ganesh C R “A Conceptual Approach to Apply Agile Project Management in Construction”, IACESD 2023, Springer Nature sponsored conference (JIT, Bengaluru, July 2023)
- Pavan Kumar V, Keerthi Gowda B S, Abhishek R and Bhargavi C, “An Experimental Investigation of Untreated and Treated Corncob Ash Concrete”, IACESD – 2023, G20 C20 International Conference (JIT Bengaluru, July 2023).

# MECHANICAL ENGINEERING



*“Gears of Ingenuity: Where Dreams Turn into Mechanical Reality.”*

# MECHANICAL ENGINEERING

Magazine co-ordinator



Dr. T S Mohan Kumar  
Assistant professor

# DEPARTMENT OF MECHANICAL ENGINEERING



**DR. C B MOHAN**  
Vice Principal  
Head of Department

## From the HOD's Desk:

I am delighted to release the even semester newsletter of Mechanical Engineering Department for the Year 2023-24. Accreditation by National Board of Accreditation for three years, beginning 2018, has been an important milestone achieved by the department. Participation of faculty in various conferences and training programs was encouraging factor, which shall continue in future too.

During this semester, various curricular and co-curricular activities for students were successfully conducted by the department. The department strongly encourages students to participate in SAE Aero international competition in USA and National Eco-Kart event in India.

It supports both students and faculty to relevant seminars, symposia, workshops, industrial visits, industrial training and technical talks as an integral part of the program.

*Vision:* To achieve excellence in Mechanical Engineering Education, Innovation, Research and Entrepreneurship.

### *Mission:*

M1. To provide an intellectually vibrant teaching learning environment.

M2. To inculcate in students a culture of Research and Innovation in Engineering.

M3. To produce future Entrepreneurs and Leaders with Technological Patriotism.

## WORKSHOP

A Two-Day Workshop on Additive Manufacturing – A Tool for Stem Education and Industrial Revolution 4.0 was organized for 4th and 6th Semester students on 4th-5th March, 2024. The lecture was delivered by Mr. Gaurav Pratim Dutta, Executive Engineer, WOL3D. It included the fundamentals of 3D printing techniques with hands on skill training.



## INDUSTRIAL VISIT

1	Period:	11.01.24
2	Industry Name and Address:	<b>Bhavani Industries</b> Plot No.55, KIADB Industrial Area, Sector-II, Phase-II, Bidadi. Ramanagara - 562109
3	Industry Type:	<b>Automotive Parts Manufacturing Facility</b>
4	No of Students:	27 students from 7 <sup>th</sup> Sem & 5 <sup>th</sup> sem, Mechanical Engineering
5	Deputed Faculty Member	Dr. Yogeesha C, Mr.Rakesh P

A batch of 27 Students of 7th Sem and 5th Mechanical Engineering and two Faculty members visited the M/s Bhavani Industries at Bidadi, Ramanagara Dist. on 11.01.2024. This Manufacturing unit mainly focuses on Manufacturing of Auto- motive and ABS products consisting of Panel Board (Dash Board) , Levers, Door cover panels, Gear lever covers , Speedometer covers , Front grills, Company Emblems and airbag related products etc.

Mr.Lokesh Reddy Asst Manager – HR, and his team addressed the students and introduced about the Bhavani Industries Manufacturing practices. Initially a short presentation was given to Students about history of company, recent developments, products and structure of work force in the company, later part students were divided into two teams and plant visit was organized.

Mr. Shanker Narayan, Admin., and his team members addressed the students and introduced about the products and Manufacturing practices. This plant Consist of different manufacturing divisions namely,

**Case Press division** mainly manufactures watch cases (outer shell of watches) from the brass and Stainless steel billets, these optimized size billets will under- go cold press and Hot Press (Forging) process where material removing and shaping of case takes place. In this shop floor mainly 50T to 300T forge presses used.

**Case Finishing Division:** After Case pressing activity , now cases are ready for secondary processes like grooving, slot cutting , milling, embossing and hole drilling activity takes place.

**Case Coating Division:** In this division electroplating and ion plating of the case material takes place to get gold (up to  $0.1\mu$ ) and silver (up to  $0.2$  to  $0.3\mu$ ) coating on the surface.

**Module division:** Here automated turning of miniature components like gear train, balance wheel barrel, gasket, rotor gear, bezel, crown, hands etc. of the watch module are manufactured.

**Assembly Division:** Here finished products from case division and module divisions are brought together and assembled and quality being checked before finalizing the product.

Students had the opportunity to see real time manufacturing practices and plant had about 25 injection molding machines, and most of the products are made of Polypropylene and Acrylonitrile Butadiene and styrene-ABS material. BI practices International standards most of the them derived from Japan Automobile Industry like Kanban System, Pattern Production System, part storage etc.

Interestingly our Students were thought how to move within the Plant premises Like looking and saying orally –Left, right and straight and proceeding towards next destination which will ensure minimum collision and maximize safety of workers. Overall it was excellent and eye-opening Visit to a industry which practices International Manufacturing Standards and even we learnt about Quality procedures.



**Group Photo along with M/s Bhavani Industries Staff**

## PROJECT EXHIBITION

The project exhibition was organized on 4th May 2024 by Department of Mechanical Engineering, Jyothy Institute of Technology, Bangalore for final year students. Dr.C B Mohan Vice principal and HoD welcomed and introduced the chief guest Dr.Vijayasankar, Senior R & D Mech Engineer, Next Big Labs, Bangalore. Dr.Vijayasankar highlighted the significance of current trends in technologies, innovations and significance of industry relevance projects.

The total final year project consists of 4 groups (20P01 to 20P04) and Dr.Vijayasankar visited all the project groups for the necessary demonstration, industry relevance and presentation from each group.

Finally, the two prizes were announced for the best outgoing projects based on innovation, industry relevance, applications and presentation skills. The first prize was awarded for the 20P03 project group **“Design and Development of smart solar powered street light with heliostat”** worked under the guidance of Mr. Gurusurthy M and Dr. Jayathirtha M Patil. The second prize was awarded for the 20P02 project group **“Design and Development of 3D printable filament using plastic waste”** worked under the guidance of Dr. Raghavendra K.



INAUGURAL FUNCTION

Valedictory function was organized at 12:30 PM for the award of prizes. Dr. C B Mohan, Vice Principal and HoD and Dr. Vijayasankar were present during the function. Dr. Vijayasankar distributed the prizes for the students. Dr. Vijayasankar high- lighted the importance of patents and publications, product development and challenges in the product development process during the valedictory function.



**DR. VIJAYASANKAR INTERACTING WITH THE STUDENTS**



**DR.VIJAYASANKAR DISTRIBUTING THE PRIZES FOR THE OUTSTANDING PROJECTS.**

## LIST OF PUBLICATIONS

- Subbaraya Mohan Kumar, Impact on casting die diameter size on microstructure and fractographic studies of Al2024 alloy reinforced with fly ash and SiC hybrid composites, Wiley Applied Research, DOI: 10.1002/appl.202300066 8th January 2024.
- Subbaraya Mohan Kumar, A review on constituents, applications and processing methods of metal matrix composites International Journal of Science and Research Archive, 2024, 11(01), 2304–2314, February 2024, pp1-11.
- Subbaraya Mohan Kumar, Fabrication of a hybrid composite of glass and kenaf fibers and investigation of its mechanical properties, Brazilian Journal of Development , 2024, May 2024 DOI:10.34117/bjdv10n5-047.
- Subbaraya Mohan Kumar, Sliding Wear Characteristics of Zn-15Sn Alloy with Nano B4C Reinforced Composites, Journal of Mines, Metals and Fuels, 72(4): 0-0; 2024. DOI: 10.18311/jmmf/2024/44052

# STUDENTS' ARTICLES



*“Engineering Minds, Creative Minds Exploring Finds.”*

## CARS: LIVING ENTITIES

To most people cars are just a way of getting from one point to another, but there is also a large part of the human population who have a different opinion.

So, in this essay I would like to try my best to interpret the feelings and thoughts of this unique part of the population. Cars in the opinion of these people are not just machines of fine human engineering but are also an embodiment of the personality of the owner or the driver of the car itself. It reflects their taste and their sense of perfection and is like a symbol of their way of life.

Just like how people are mentally attached to things like their pets or plants, we car guys are mentally attached to our vehicles. Owning one of these amazing creations is a dream come true for many. These wonderful machines bring out the kid in you and put a smile on our face that many would not understand.

Here I would like to quote a few lines from an interview in which one of the largest voices in the car community Mr. Jeremy Clarkson who said” It’s what non-car people don’t get. They see all cars as just a ton and a half, two tons of wires, glass, metal, and rubber, and that’s all they see. People like you or I know we have an unshakable belief that cars are living entities... You can develop a relationship with a car and that’s what non-car people don’t get... When something has foibles and won’t handle properly, that gives it a particularly human quality because it makes mistakes, and that’s how you can build a relationship with a car that other people won’t get.” and I totally agree with him.

In most cases a car company is just a large industry with a lot of opportunity. So is Ferrari. But in Modena Italy it is treated as more of a religion than just a car company and is almost worshipped. Also, a place like Germany is just another tourist destination for many but to car lovers like us it is a heaven where the first of these machines was produced and is a country that arguably still makes some of the best cars in the world.

Cars are a perfect example of elegance with perfection. It is just fascinating how many processes are happening simultaneously to make one wheel turn. These also teach us that even the smallest of bolts or any part for that matter is important, so no role in life is too big or too small.

These machines are purpose built for human convenience and happiness. These possess elegance and beauty in a way nothing else has.

We believe that these beautiful beasts possess the power to make a person happy. Just like how everyone is fond of a unique sports car or a luxury car even if they are not into cars but still want a picture with them.

Sometimes if maintained well enough these machines will outlive the owner but still remain as a part of him and his character and his personality.

Sometimes these cars take you to places that sometimes feel unreachable and give you the confidence that you can conquer the world with its power.

Here I would like to talk about Mr. Ken Block who is according to me the greatest rally driver and car drifter of all time. Sometimes just looking at him drive makes you feel that the car is just an extension of his body and he knows how to control it perfectly.

It just gives you a sense of freedom and an immaculate amount of confidence that you can be in a commanding position and things go the way you want them to go.



Srihith K  
3<sup>rd</sup> semester

# DRAWINGS



**Dhruvi**  
3<sup>rd</sup> semester

# BASIC SCIENCE



*"Equations Unveiled, Theories Explored: A Symphony of Scientific Excellence."*

## **In Loving Memory of Dr. Uma M. S.**

It is with profound sorrow and deep respect that we remember Dr. Uma M. S., Associate Professor and Head of the Physics program at Jyothy Institute of Technology, who left us on November 19<sup>th</sup> 2023. Her journey through life was marked by extraordinary strength, grace, and an unwavering commitment to her family, career, and students, even in the face of the most daunting challenges.



**Late Dr. Uma M S**  
Associate Professor  
Head of Department  
Department of Physics

Dr. Uma M. S. was not only a dedicated educator who imparted knowledge and inspired countless students but also a beacon of resilience and hope. Her battle with cancer began in September 2012, a period that introduced her to a world of uncertainty and fear. Diagnosed with Stage 2 Ductal Carcinoma, Dr. Uma confronted the disease with a courage that left a lasting impact on everyone around her. The initial prognosis was daunting, but her indomitable spirit shone throughout her life.

She underwent surgery, chemotherapy, and radiation with a grace that belied the intense struggle she endured. Her focus was always on her family, especially her two young sons, whose future she deeply cared about. Despite the financial and emotional burdens, she faced each challenge with an optimism and resolve that inspired all who knew her.

In the years following her initial treatment, Dr. Uma lived with the lingering anxiety of cancer's return. Her resilience was tested once more in 2018, when a relapse occurred, leading to further treatment and sacrifices. Her bravery in the face of this adversity was a testament to her character. Dr. Uma's journey continued through more battles with cancer and its recurrence, each time confronting her fears with an unwavering spirit.

Throughout her life, Dr. Uma's dedication to her profession and her family remained unwavering. Her contributions to the Jyothy Institute of Technology were invaluable. She was not just a teacher but a mentor and a friend, whose passion for her work and commitment to her students made a profound difference in their lives.

Her story is one of relentless courage and determination, a narrative that transcends the bounds of ordinary strength. Dr. Uma's legacy will live on in the hearts of those she touched with her kindness, her tenacity, and her profound love for her family and her profession.

As we honor her memory, we are reminded of her profound impact on our lives and the legacy she leaves behind. Dr. Uma's life was a testament to the strength of the human spirit, and her story will continue to inspire us to face our own challenges with the same courage and grace.

Dr. Uma, you will be dearly missed, but your spirit will forever remain with us. May you rest in peace, knowing that you have left an indelible mark on all of us.

With deepest sympathy and respect,

The Jyothy Institute of Technology Family

# MATHEMATICS



*“Geometry of Thought: Where Math Shapes our World”*

# PHYSICS



*“Unveiling the Quantum Mysteries: Where Particles Dance to Truth.”*

# CHEMISTRY



*“Catalyzing Curiosity: Chemistry's Alchemical Delights.”*

# HUMANITIES DEPT.



*"Humanities Hub: Where Ideas Flourish and Perspectives Unfold."*

# BASIC SCIENCE

Magazine co-ordinator



Mrs. Usha Sundaresh  
Assistant Professor

Student co-ordinators



Nikita A  
7<sup>th</sup> semester



B S Shreesha  
7<sup>th</sup> semester

# DEPARTMENT OF MATHEMATICS



**Dr. R Madhusudhan**  
Associate Professor and Head

## *VISION*

*To identify and groom the talent as per industry requirements and provide outclass opportunities in the specific industry.*

## *MISSION*

*To provide excellent opportunities by enhancing the skill set of students which leads to a bright future.*

## Message from the Head

Welcome to the Department of Mathematics!

In this era of emerging technologies and advanced sciences, nations are focusing on applied research through knowledge linkages between scientists, engineers, and researchers.

Mathematics & Statistics form the backbone for engineering knowledge development. Our aim is to produce engineers equipped with modern mathematical tools with strong understanding of real-world engineering problems. One can become a useful engineer or scientist only with a significant knowledge of Mathematics.

The department provides services to UG students of engineering. The objective to pursue excellence in Mathematics through an effective teaching-learning process.

## TEACHING FACULTY

NAME	DESIGNATION	QUALIFICATION
Dr. R Madhusudhan	Associate Professor and Head	M.Sc., Ph.D.
Dr. M C Kemparaju	Associate Professor	M.Ed., M.Sc., M.Phil., Ph.D.
Mrs. Latha R	Assistant Professor	M.Sc., (Ph.D.)
Mr. Gurudatt T S	Assistant Professor	M.Sc.
Mr. Vishwanath M C	Assistant Professor	M.Sc., (Ph.D.)
Mrs. Sahana K S	Assistant Professor	M.Sc.

# DEPARTMENT OF PHYSICS



**Dr. R Madhusudhan**  
Associate Professor and Head

## *VISION*

*To identify and groom the talent as per industry requirements and provide outclass opportunities in the specific industry.*

## *MISSION*

*To provide excellent opportunities by enhancing the skill set of students which leads to a bright future.*

## Message from the Head

Welcome to the Department of Physics!

Physics is the study of the physical world. It is an indispensable component of engineering curriculum since technology is based on the knowledge of physical laws.

Physics leads modern natural sciences and forms the theoretical basis of modern engineering.

Education is not just about writing exams and scoring marks, it is all about passing the toughest exams of life without compromising, despite several societal tests on integrity.

## TEACHING FACULTY

NAME	DESIGNATION	QUALIFICATION
Dr. R Madhusudhan	Associate Professor and Head	M.Sc., Ph.D.
Dr. Umananda Bhatta	Associate Professor	M.Sc., Ph.D.
Mrs. Vindhya A	Assistant Professor	M.Sc., (Ph.D.)
Mr. Susheel Kumar G	Assistant Professor	M.Sc., (Ph.D.)
Mr. Narayana H S	Assistant Professor	M.Sc.

## NON-TEACHING FACULTY

NAME	DESIGNATION
Mrs. Mamatha K H	Senior Instructor

# DEPARTMENT OF CHEMISTRY



**Dr. Viswanatha R**  
Associate Professor and Head

## *VISION*

*To identify and groom the talent as per industry requirements and provide outclass opportunities in the specific industry.*

## *MISSION*

*To provide excellent opportunities by enhancing the skill set of students which leads to a bright future.*

## Message from the Head

Welcome to the Department of Chemistry!

Chemistry is often referred to as central science as it deals with the fundamental building blocks of life and the inanimate materials we encounter daily.

Chemistry is a very collaborative undertaking and, as a student in the Chemistry Program, you will learn to think critically with other scientists from all fields.

Our graduates find great careers in varying fields ranging from energy to medicine to teaching and learning and beyond.

Welcome to a world of imagination!

## TEACHING FACULTY

NAME	DESIGNATION	QUALIFICATION
Dr. Viswanatha R	Associate Professor and Head	M.Sc., Ph.D., PGDIPR
Dr. K G L Bhatta	Associate Professor	M.Sc., Ph.D.
Dr. Muralidhara H B	Associate Professor	M.Sc., Ph.D.
Dr. Siddeswara D M K	Assistant Professor	M.Sc., Ph.D.
Mrs. Akshatha J G	Assistant Professor - Biology	M.Sc.

## NON-TEACHING FACULTY

NAME	DESIGNATION
Mr. Rudresha K	Lab Instructor
Mr. Srinatha	Lab Helper

## LIST OF PUBLICATIONS

1. Dr. R Madhusudhan, Finite Element Method for One-Dimensional Darcy–Brinkman–Forchheimer Fluid Flow Model, **Springer**, March 2024
2. Dr. M C Kemparaju, Effect of Partial Slip on Mass Transfer Flow of Non-Newtonian Fluid Due to Unsteady Stretching Sheet, **Springer** March 2024
3. Dr. M C Kemparaju, Effects of Thermal Radiation on Hiemenz slip flow and heat transfer of MHD non-Newtonian fluid in porous media due to permeable plate, **Heat Transfer, Wiley** 2023.
4. Dr. M C Kemparaju, Computational study of consequence of effect of velocity slip on nanofluids with suspended CNTs, **Numerical heat Transfer, Part A: Applications**, 2023.
5. Latha R, Lakshminarayanachari, K., & Bhaskar, C. (2023). An analytical model for point source pollutants in an urban area with mesoscale and removal mechanisms. *International Journal of Environmental Health Engineering*, 12(5), 21
6. Rachachari L, Kodandachari, L., & Cholaraju, B. (2023, June). Two-dimensional analytical model for an air pollutants emitted from line source with mesoscale wind. In *AIP Conference Proceedings* (Vol. 2649, No. 1). AIP Publishing.
7. Rachachari L, Kodandachari, L., & Cholaraju, B. (2023, June). Two-dimensional analytical model for an air pollutants emitted from line source with mesoscale wind. In *AIP Conference Proceedings* (Vol. 2649, No. 1). AIP Publishing.
8. Dr. Umananda Bhatta, Aging mechanisms of nanocerium and pathways for preserving optimum morphology, 2023.
9. Dr. Umananda Bhatta and Mr. Susheel Kumar G, Effect of interfacial native oxide on the IV characteristics of ZnO/Si (111) heterojunction, 2023.
10. Dr. Muralidhara H B, Synergetic functionalization of ZnS@ASCs Biocomposite: For enhanced performance of redox flow batteries and supercapacitors, **ACS Applied Electronic Materials**, 2024.

11. Dr. Muralidhara H B, Optimised and percolated nanocomposite of polyaniline/tungstic anhydride modified electrode implemented in Vanadium redox flow battery, **Physica Scripta**, 2024.
12. Dr. Muralidhara H B, Improving energy storage efficiency through carbon doping of niobium oxide nanomaterials derived from areca husk in redox flow batteries and supercapacitors, **Journal of Energy Storage**, 2023
13. Dr. Muralidhara H B, Carbon spheres decorated–graphene oxide framework as an excellent active material for redox flow battery and supercapacitors, **Environmental Technology**, 2023.
14. Dr. Muralidhara H B, Synthesis of Cauliflower-like Reduced Graphene Oxide Nickel Sulfide Nanocomposites for the Vanadium Redox Battery and Supercapacitor Application, **ACS Applied Electronic Materials**, 2023.
15. Dr. Viswanatha R, Symmetric supercapacitors based on copper–antimony chalcogenides: A trade-off between S and Se, **Ceramics International**, 2023.
16. Dr. Siddeswara D M K, Development of Illite modified/Rh<sub>2</sub>O<sub>3</sub> for electrochemical, sensor, photocatalysis and antioxidant studies, **Applied clay science**, 2023.

# DEPARTMENT OF HUMANITIES



Mrs. Usha Sundaresh  
M.A (English), B.Ed.  
Assistant Professor

## VISION

*To identify and groom the talent as per industry requirements and provide outclass opportunities in the specific industry.*

## MISSION

*To provide excellent opportunities by enhancing the skill set of students which leads to a bright future.*

## Department of Humanities (English)

### Message from the Department

*"Unleash your inner Wordsmith: Explore the boundaries of Expression "*

Language is a medium of conveying information and expressing thoughts which requires skill to articulate in form of the words, jargons of words in a professional manner. English which is vastly spoken globally has made its presence internationally and has become a natural choice of mass demographic interests. It is well established with appropriate penetrations into all subjects of the global standard countries to explore and express to the people at large extent without any inhibitions of interruptions devoid of reservations. The scope of knowledge and skills are reachable with no limitations set even across international borders.

English has become a very important component in all the competitive examinations like GRE, TOEFL, IELTS and GATE exam, all State and Central Government recruitment examinations, placement tests and other examinations. So, to meet the relevance of the recruitment requirement of our engineering students, Communicative English and Professional Writing Skills in English are compulsory subjects for the first and second semester students respectively.

The pedagogy involves the combination of different methodologies which suit modern technological tools and softwares to meet the present requirements of the Global Employment market.

# DEPARTMENT OF HUMANITIES



Mr. Sreedhara G P  
B.E, M.Tech

## VISION

*To identify and groom the talent as per industry requirements and provide outclass opportunities in the specific industry.*

## MISSION

*To provide excellent opportunities by enhancing the skill set of students which leads to a bright future.*

## Department of Humanities

(ಕನ್ನಡ)

### Message from the Department

ಎಲ್ಲಾದರೂ ಇರು ಎಂತಾದರೂ ಇರು

ಎಂದೆಂದಿಗೂ ನೀ ಕನ್ನಡವಾಗಿರು

ಕನ್ನಡವೇ ಸತ್ಯ ಕನ್ನಡವೇ ನಿತ್ಯ

- ಕುವೆಂಪು

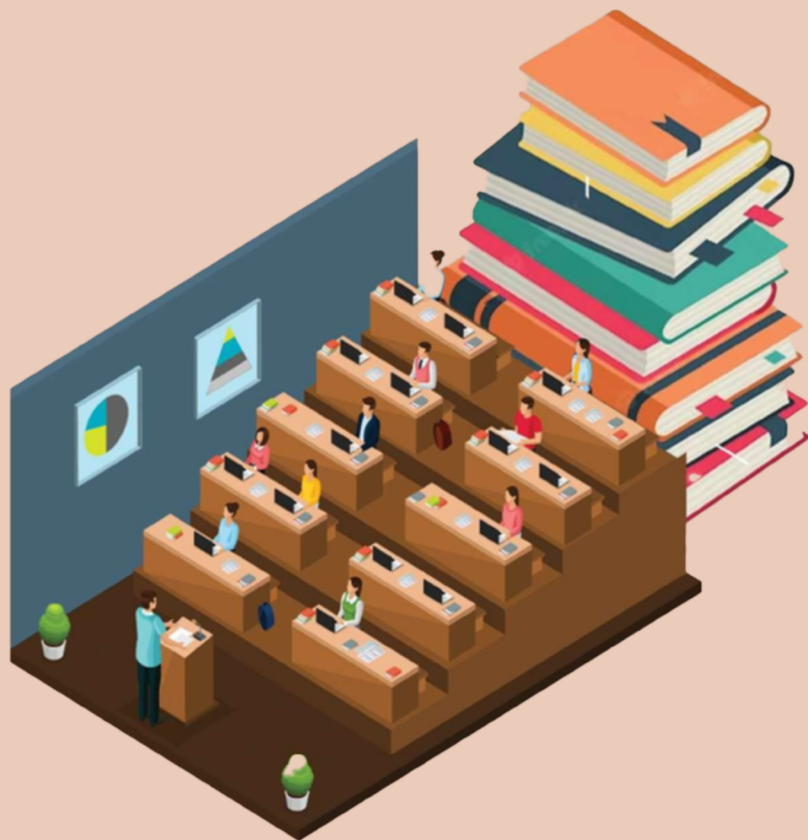
ಕರ್ನಾಟಕದಲ್ಲಿ ಕನ್ನಡ ಅಧಿಕೃತ ರಾಜ್ಯ ಭಾಷೆ, ಜನ ಭಾಷೆಯೂ ಹೌದು. ಕರ್ನಾಟಕ ರಾಜ್ಯ ಸರ್ಕಾರವು ತಾಂತ್ರಿಕ ವಿದ್ಯಾರ್ಥಿಗಳಿಗೆ ತಂತ್ರಜ್ಞಾನದ ಕಲಿಕೆಯ ಜೊತೆಯಲ್ಲಿಯೇ ಕನ್ನಡವನ್ನು ಒಂದು ಕ್ರೆಡಿಟ್ ಕೋರ್ಸನ್ನಾಗಿ ಕಲಿಸಬೇಕೆಂದು ನಿರ್ದೇಶಿಸುತ್ತದೆ. ಅದರಂತೆ ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯವು ಕರ್ನಾಟಕದಲ್ಲಿ ತಾಂತ್ರಿಕ ಶಿಕ್ಷಣ ಪಡೆಯುವ ಪ್ರತಿಯೊಬ್ಬ ವಿದ್ಯಾರ್ಥಿಯೂ ಕನ್ನಡ ಭಾಷೆಯನ್ನು ಕಡ್ಡಾಯವಾಗಿ ಬಳಸಬೇಕೆಂಬ ಸದುದ್ದೇಶದಿಂದ ಕನ್ನಡ ಬಲ್ಲ ವಿದ್ಯಾರ್ಥಿಗಳಿಗೆ ಸಾಂಸ್ಕೃತಿಕ ಕನ್ನಡ ಹಾಗೂ ಕನ್ನಡೇತರ ವಿದ್ಯಾರ್ಥಿಗಳಿಗೆ ಬಳಕೆ ಕನ್ನಡ ಎಂಬ ಪಠ್ಯಗಳನ್ನು ರೂಪಿಸಿ ಬೋಧನೆಗೆ ಕ್ರಮ ಕೈಗೊಂಡಿದೆ.

ಸಾಂಸ್ಕೃತಿಕ ಕನ್ನಡ ಕಲಿಕೆಯ ಉದ್ದೇಶವೇನೆಂದರೆ, ಪದವಿ ವಿದ್ಯಾರ್ಥಿಗಳಾಗಿರುವುದರಿಂದ ಸಾಂಸ್ಕೃತಿಕ ಕನ್ನಡದ ಜೊತೆಗೆ ಕ್ರಿಯಾತ್ಮಕ ಕನ್ನಡವನ್ನು, ಕನ್ನಡ ಸಾಹಿತ್ಯ, ಸಂಸ್ಕೃತಿ ಮತ್ತು ನಾಡು ನುಡಿಯ ಪರಿಚಯ ಮಾಡಿಕೊಡುವುದು, ತಾಂತ್ರಿಕ ವಿಜ್ಞಾನದ ವಿಷಯಗಳ ಪರಿಚಯ ಮಾಡಿಕೊಡುವುದು ಮತ್ತು ಇದರ ಜೊತೆಗೆ ಕನ್ನಡ ಭಾಷಾಭ್ಯಾಸ, ಸಾಮಾನ್ಯ ಕನ್ನಡ ಹಾಗೂ ಆಡಳಿತ ಕನ್ನಡ ಪದಗಳ ಪರಿಚಯ ಮಾಡಿಕೊಡುವುದು.

ಅದರಂತೆಯೇ ಬಳಕೆ ಕನ್ನಡದ ಕಲಿಕೆಯ ಉದ್ದೇಶವೇನೆಂದರೆ, ಇಲ್ಲಿ ವಿದ್ಯಾರ್ಜನೆಗೆ ಆಗಮಿಸುವ ಹೊರ ರಾಜ್ಯದ ವಿದ್ಯಾರ್ಥಿಗಳಿಗೆ ತಮ್ಮ ದಿನನಿತ್ಯದ ಸಂವಹನಕ್ಕೆ ತೊಡಕಾಗದಿರುವುದಕ್ಕಾಗಿ, ಕನ್ನಡ ಜ್ಞಾನದ ಅಗತ್ಯತೆಗನುಗುಣವಾಗಿ ಕನ್ನಡ ಅಕ್ಷರಮಾಲೆ, ಉಚ್ಚಾರಣೆ, ಸಂಭಾಷಣೆಗಾಗಿ ಕನ್ನಡ ಪದಗಳು, ವ್ಯಾಕರಣದ ಚಟುವಟಿಕೆಯ ಬೋಧನೆ ಇದರ ಜೊತೆಗೆ ಕರ್ನಾಟಕ ರಾಜ್ಯದ ಬಗ್ಗೆ, ಇಲ್ಲಿನ ಭಾಷೆ, ಸಂಸ್ಕೃತಿಯ ಪರಿಚಯ ಮಾಡಿಸುವುದು. ಕನ್ನಡ ಭಾಷೆಯನ್ನು ಕೇಳಿ ಅರ್ಥ ಮಾಡಿಕೊಳ್ಳುವುದು. ಕರ್ನಾಟಕದಲ್ಲಿ ಕನ್ನಡವೇ ಸರ್ವಭೌಮ ಭಾಷೆಯಾಗಿರಬೇಕು.

ಸಿರಿಗನ್ನಡಂ ಗೆಲೆ ಸಿರಿಗನ್ನಡಂ ಬಾಳೆ

# FACULTY ARTICLES



*“From Lecture Halls to Magazine Pages: Our Professors Speak.”*

## “ಪ್ಲಾಸ್ಟಿಕ್ ಸುಡುವುದಕ್ಕೆ ಬೇಕಿದೆ ತುರ್ತುಕಡಿವಾಣ”

ಲೇಖಕರು: ಡಾ. ಲಕ್ಷ್ಮೀನಾರಾಯಣ ಭಟ್ಟ ಕೆ. ಜಿ, ರಸಾಯನಶಾಸ್ತ್ರ ಪ್ರಾಧ್ಯಾಪಕರು, ಜ್ಯೋತಿ ತಾಂತ್ರಿಕ ವಿದ್ಯಾಲಯ, ಬೆಂಗಳೂರು.

ಕೆಲಹಲವು ವರ್ಷಗಳಿಂದ, ಚಳಿಗಾಲದ ಸಮಯದಲ್ಲಿ ಭಾರತದ ರಾಜಧಾನಿ ದೆಹಲಿಯಲ್ಲಿ ವಾಯುಮಾಲಿನ್ಯವು ಮಿತಿಮೀರುವುದು ಕಂಡುಬರುತ್ತಿದೆ. ಬೆನ್ನು ಹತ್ತಿದ ಬೇತಾಳದಂತಿರುವ ಈ ಗಂಭೀರ ಸಮಸ್ಯೆಯು ರಾಜಕೀಯ ಕೆಸರೆರೆಚಾಟದ ಪ್ರಹಸನದಲ್ಲಿಯೇ ಪ್ರತಿವರ್ಷವೂ ಪರಿಸಮಾಪ್ತಿಯಾಗುತ್ತಿರುವುದು ನಿಜವಾದ ದುರಂತವಾಗಿದೆ. ಅನೇಕ ತನಿಖಾವರದಿಗಳು, ಇಂತಹ ಅಂಕೆ ಮೀರಿದ ವಾಯುಮಾಲಿನ್ಯಕ್ಕೆ ನಾನಾಕಾರಣಗಳನ್ನು ಪಟ್ಟಿಮಾಡುತ್ತವೆಯಾದರೂ, ಬಹುತೇಕವರದಿಗಳು ನೆರೆಯ ರಾಜ್ಯಗಳಲ್ಲಿನ ಕೃಷಿಭೂಮಿಯಲ್ಲಿನ ಕೂಳೆ ಸುಡುವುದನ್ನೇ ಬಹುಮುಖ್ಯಕಾರಣವೆಂದು ಬಿಂಬಿಸುತ್ತವೆ. ಆದರೆ, ಇದಕ್ಕಿಂತಲೂ ಹೆಚ್ಚು ಅಪಾಯಕಾರಿಯಾಗಿರುವ ಕಾರಣವೆಂದು ಚರ್ಚೆಯ ಮುನ್ನೆಲೆಗೆ ಬಾರದಿರುವುದು ಅನೇಕ ಅನುಮಾನಗಳಿಗೆ ಆಸ್ಪದವಾಗಿದೆ. ಅದೆಂದರೆ, ಅನಿಯಂತ್ರಿತ ನೆಲಭರ್ತಿಜಾಗಗಳಲ್ಲಿ ಮತ್ತು ನಗರದ ಕೊಳೆಗೆರಿಗಳಲ್ಲಿ ಪ್ಲಾಸ್ಟಿಕ್ ತ್ಯಾಜ್ಯವನ್ನು ಬಟಾಬಯಲಿನಲ್ಲಿ ನೇರವಾಗಿ ಸುಡುವುದು.



ಇಂತಹ ಅಪಾಯಕಾರಿ ಪ್ರವೃತ್ತಿ ಕೇವಲ ದೆಹಲಿಗೆ ಸೀಮಿತವಾಗಿಲ್ಲ. ದೇಶದ ಉದ್ದಗಲಕ್ಕೂ ಎಲ್ಲಾ ಮಹಾನಗರಗಳೂ ಸೇರಿದಂತೆ ವಿವಿಧ ನಗರಗಳು, ಪಟ್ಟಣಗಳು ಮತ್ತು ಹಳ್ಳಿಗಳಲ್ಲೂ ಇತ್ತೀಚಿನ ದಿನಗಳಲ್ಲಿ ಅತ್ಯಂತ ವ್ಯಾಪಕವಾಗಿ ಕಂಡುಬರುತ್ತಿದೆ. ಚಳಿಗಾಲದಲ್ಲಿ ಒಣಹುಲ್ಲು, ತರಗೆಲೆಗಳನ್ನು ಒಟ್ಟುಗೂಡಿಸಿ ಬೆಂಕಿಕಾಯಿಸುವುದು ನಮ್ಮಲ್ಲಿ ಮೊದಲಿನಿಂದಲೂ ಬಂದ ಪದ್ಧತಿ. ಆದರೆ, ಜೈವಿಕ ಕಸವನ್ನು ಸುಡುವುದಕ್ಕೂ, ಪ್ಲಾಸ್ಟಿಕ್ ಕಸವನ್ನು ಸುಡುವುದಕ್ಕೂ ಅಜಗಜಾಂತರ ವ್ಯತ್ಯಾಸವಿದೆ. ಪ್ಲಾಸ್ಟಿಕ್ ಕಸವನ್ನು ಸುಡುವುದರಿಂದ ಹಲವಾರು ಬಗೆಯ ವಿಷಾನಿಲಗಳು (ಉದಾಹರಣೆಗೆ, ಡಯಾಕ್ಸಿನ್ಸ್ ಮತ್ತು ಫ್ಯೂರಾನ್ಸ್ (Dioxins and Furans), ವೊಲಟೈಲ್ ಆರ್ಗ್ಯಾನಿಕ್ ಕಾಂಪೌಂಡ್ಸ್ (VOCs), ಮತ್ತು ಪಾಲಿಸೈಕ್ಲಿಕ್ ಆರೋಮ್ಯಾಟಿಕ್ ಆರ್ಗ್ಯಾನಿಕ್ಸ್ (PAHs) ಇತ್ಯಾದಿ) ಒಮ್ಮೆಲೇ ವಾಯುಮಂಡಲವನ್ನು ಸೇರಿಕೊಳ್ಳುತ್ತವೆ.

ಈ ವಿಷಾನಿಲಗಳು ಅತ್ಯಂತ ಶೀಘ್ರವಾಗಿ ಮನುಷ್ಯನ ಆರೋಗ್ಯದ ಮೇಲೆ ಅನೇಕ ದುಷ್ಪರಿಣಾಮಗಳನ್ನು ಉಂಟುಮಾಡುತ್ತವೆ. ಇತ್ತೀಚೆಗೆ ಭಾರತೀಯರಲ್ಲಿ ಹೆಚ್ಚುತ್ತಿರುವ ಹೃದಯ ಮತ್ತು ಶ್ವಾಸಕೋಶ ಸಂಬಂಧಿ ಕಾಯಿಲೆಗಳು, ಥೈರಾಯ್ಡ್ ಸಮಸ್ಯೆ, ಉದರಬೇನೆಗಳು, ನಾನಾಬಗೆಯ ನರಮಂಡಲದ ಸಮಸ್ಯೆಗಳಿಗೂ ಈ ವಿಷಾನಿಲಗಳಿಗೂ ನಿಕಟ ಸಂಬಂಧವಿರುವುದು ಅನೇಕ ಸಂಶೋಧನೆಗಳಿಂದ ದೃಢಪಟ್ಟಿದೆ.



ರಾಷ್ಟ್ರೀಯ ಹಸಿರು ನ್ಯಾಯಮಂಡಳಿ (NGT) 2013 ರಲ್ಲಿಯೇ ಪ್ಲಾಸ್ಟಿಕ್ ಕಸವೂ ಸೇರಿದಂತೆ ಅನೇಕ ಬಗೆಯ ಘನತ್ಯಾಜ್ಯಗಳನ್ನು ಸುಡುವುದನ್ನು ಇಡೀ ದೇಶಾದ್ಯಂತ ನಿಷೇಧಿಸಿದ್ದರೂ, ಈ ಆದೇಶಕ್ಕೆ ಕವಡೆಕಾಸಿನ ಕಿಮ್ಮತ್ತೂ ಇಲ್ಲವಾಗಿದೆ. ಆದಾಗ್ಯೂ, ಪ್ಲಾಸ್ಟಿಕ್ ಸುಡುವುದರ ಹಿಂದಿರುವ ಅನೇಕ ಕಾರಣಗಳನ್ನು ಈ ಕೆಳಕಂಡಂತೆ ಗುರುತಿಸಬಹುದು.

### 1. ಅನಿಯಂತ್ರಿತ ಪ್ಲಾಸ್ಟಿಕ್ ಉತ್ಪಾದನೆ ಮತ್ತು ಅವ್ಯಾಹತ ಬಳಕೆ

ಸುಮಾರು 1950 ರಿಂದ 2017 ರವರೆಗೆ ಜಾಗತಿಕ ಮಟ್ಟದಲ್ಲಿ ಒಟ್ಟು 9.2 ಬಿಲಿಯನ್ ಟನ್‌ಗಳಷ್ಟು ಪ್ಲಾಸ್ಟಿಕ್‌ನ್ನು ಉತ್ಪಾದಿಸಲಾಗಿದ್ದು, ಇದು 2050 ರ ವೇಳೆಗೆ ಸುಮಾರು 34 ಬಿಲಿಯನ್ ಟನ್‌ಗಳಷ್ಟಾಗುವ ಅಂದಾಜಿದೆ. ಅಂದರೆ, ಪ್ಲಾಸ್ಟಿಕ್ ಉತ್ಪಾದನೆ ಅತ್ಯಂತ ಏರುಗತಿಯಲ್ಲಿದೆ. ಹೀಗೆ ಉತ್ಪಾದಿಸಲಾದ ಪ್ಲಾಸ್ಟಿಕ್‌ನಲ್ಲಿ ಸುಮಾರು ಶೇಕಡಾ 40 ರಷ್ಟು ಪ್ಲಾಸ್ಟಿಕ್‌ನ್ನು ಒಮ್ಮೆ ಮಾತ್ರ ಉಪಯೋಗಿಸಿ ಬಿಸಾಡಲಾಗುತ್ತಿದೆ (ಏಕೋಪಯೋಗಿ). ಭಾರತದಲ್ಲಿ 1990 ರಲ್ಲಿ ಇಂತಹ ವಾರ್ಷಿಕ ತಲಾ ಪ್ಲಾಸ್ಟಿಕ್ ತ್ಯಾಜ್ಯದ ಮಟ್ಟ ಕೇವಲ 1 ಕಿಗ್ರಾಂ ನಷ್ಟಿತ್ತು. 2021 ರ ವೇಳೆಗೆ ಇದು 15 ಕಿಗ್ರಾಂ ನಷ್ಟಾಗಿದ್ದು, ಮುಂದಿನ ದಶಕದಲ್ಲಿ ಎರಡು ಪಟ್ಟು ಹೆಚ್ಚಾಗುವ ಅಂದಾಜಿದೆ.

ಇಂತಹ ಅನಿಯಂತ್ರಿತ ಪ್ಲಾಸ್ಟಿಕ್ ಉತ್ಪಾದನೆ ಮತ್ತು ಅವ್ಯಾಹತ ಬಳಕೆಗೆ ಕೊರೊನಾನ್ತರದ ಇ-ವಾಣಿಜ್ಯ ಮತ್ತು ರೆಡಿಮೇಡ್ ಆಹಾರ ಸರಬರಾಜು ವಹಿವಾಟುಗಳು ವ್ಯಾಪಕವಾಗಿ ಹೆಚ್ಚುತ್ತಿರುವುದೂ ಮುಖ್ಯಕಾರಣಗಳೆಂಬುದು ಗಮನಾರ್ಹ ಸಂಗತಿ.

ಜೊತೆಗೆ, ಒಮ್ಮೆ ಯೋಚಿಸಿ ನೋಡಿ, ನಾವು ಇಂದು ಬಳಸುವ ಯಾವುದೇ ವಸ್ತುವೂ ಕೂಡ ಪ್ಲಾಸ್ಟಿಕ್ ಪ್ಯಾಕೇಜಿಂಗ್‌ನಿಂದ ಹೊರತಾಗಿಲ್ಲ. ಅಷ್ಟೇಕೆ, ನಮ್ಮ ಕೃಷಿಕಾರ್ಯವೂ ಪ್ಲಾಸ್ಟಿಕ್‌ಮಯವಾಗುತ್ತಿರುವುದು ಮೇಲ್ನೋಟಕ್ಕೆ ತೋರುತ್ತದೆ.

## 2. ಅವ್ಯವಸ್ಥಿತ ಪ್ಲಾಸ್ಟಿಕ್ ತ್ಯಾಜ್ಯ ನಿರ್ವಹಣೆ

ಹೀಗೆ, ಅವ್ಯಾಹತ ಪ್ಲಾಸ್ಟಿಕ್ ಬಳಕೆಯಿಂದಾಗಿ, ಹಳ್ಳಿ-ಹಳ್ಳಿಗಳಲ್ಲೂ ಪ್ಲಾಸ್ಟಿಕ್ ತ್ಯಾಜ್ಯ ಉತ್ಪತ್ತಿಯಾಗುತ್ತಿದೆ. ಆದರೆ, ಇಂತಹ ಹಳ್ಳಿಗಳಲ್ಲಿ ಗ್ರಾಮಪಂಚಾಯ್ತಿ ಮಟ್ಟದಲ್ಲಿ ಘನತ್ಯಾಜ್ಯ ಸಂಗ್ರಹಣೆಯ ವ್ಯವಸ್ಥೆಯೇ ಇಲ್ಲ. ಇಂತಹ ಕಡೆಗಳಲ್ಲಿ ಜನರು ಪ್ಲಾಸ್ಟಿಕ್ ತ್ಯಾಜ್ಯವನ್ನು ಬಚ್ಚಲುಮನೆಯ ಕಟ್ಟಿಗೆಬಲೆಗೆ ಉರುವಲಿನಂತೆ ಉಪಯೋಗಿಸುತ್ತಾರೆ. ಇದು ಅತ್ಯಂತ ಅಪಾಯಕಾರಿಯೆಂಬ ಅರಿವೇ ಇವರಿಗಿಲ್ಲ. ಅದರಲ್ಲೂ ಬೆಳಗಿನ ಹೊತ್ತು ಇಡೀ ಊರೇ ವಿಷಾನಿಲದ ಭೀಂಬರ್‌ನಂತಾಗಿರುತ್ತದೆ.



ಇನ್ನು ಪಟ್ಟಣಪಂಚಾಯ್ತಿ ಮತ್ತು ನಗರಸಭೆ ಮಟ್ಟದಲ್ಲಿ ಚಾಲ್ತಿಯಲ್ಲಿರುವ ಘನತ್ಯಾಜ್ಯ ಸಂಗ್ರಹಣೆಯ ವ್ಯವಸ್ಥೆಗಳು ಕೀಳುರಾಜಕೀಯ, ಭ್ರಷ್ಟಾಚಾರಗಳಿಂದ ಕೂಡಿದ, ಅವ್ಯವಸ್ಥಿತ ಅವೈಜ್ಞಾನಿಕ ಮಾದರಿಗಳಾಗಿವೆ. ಜೈವಿಕಕಸದೊಂದಿಗೆ ಪ್ಲಾಸ್ಟಿಕ್ ತ್ಯಾಜ್ಯವನ್ನೂ ಒಟ್ಟುಗೂಡಿಸಿ, ನಗರದ ಹೊರವಲಯದಲ್ಲೋ, ನಿಗದಿತ ನೆಲಭರ್ತಿಜಾಗಗಳಲ್ಲೋ ತಂದು ಸುಮ್ಮನೇ ಸುರಿಯಲಾಗುತ್ತದೆ. ಜೈವಿಕಕಸ ಕೊಳೆತುನಾರಲಾರಂಭಿಸಿದಾಗ, ಇಡೀ ಕಸದಗುಡ್ಡೆಗೆ ಬೆಂಕಿಹಾಕಲಾಗುತ್ತದೆ.

## 3. ಅಸಮಗ್ರ ಕಾಯ್ದೆ-ನಿಯಮಗಳು

ನಮ್ಮ ದೇಶದಲ್ಲಿ ಪ್ಲಾಸ್ಟಿಕ್ ತ್ಯಾಜ್ಯ ನಿರ್ವಹಣಾ ನಿಯಮಗಳೂ ಸೇರಿದಂತೆ, ಪರಿಸರ ಮಾಲಿನ್ಯ ತಡೆ ಕಾಯ್ದೆಗಳು ಬಹಳಷ್ಟಿವೆ. ಆದರೆ, ಕೇಂದ್ರ, ರಾಜ್ಯ ಮತ್ತು ಸ್ಥಳೀಯ ಆಡಳಿತಗಳ ನಡುವಿನ ಸಮನ್ವಯದ ಕೊರತೆ, ಅಪಾರದರ್ಶಕ ವ್ಯವಸ್ಥೆ, ಮುಂತಾದ ರಾಜಕೀಯ ಕಾರಣಗಳಿಂದಾಗಿ, ಈ ಎಲ್ಲಾ ಕಾಯ್ದೆಗಳು ಸಮಗ್ರವಾಗಿ ಪರಿಣಾಮಕಾರಿಯಾಗಿಲ್ಲ.

ಜೊತೆಗೆ, ಇವುಗಳಲ್ಲಿನ ಅನೇಕ ಅಂಶಗಳು ಅವೈಜ್ಞಾನಿಕವೂ ಅವಾಸ್ತವಿಕವೂ ಆಗಿದ್ದು ಅನೇಕ ಗೊಂದಲಗಳು ಮತ್ತು ಲೋಪ-ದೋಷಗಳಿಂದ ಕೂಡಿವೆ. ಇತ್ತೀಚೆಗಿನ ಉದಾಹರಣೆಯೆಂದರೆ, ಪ್ಲಾಸ್ಟಿಕ್ ಮತ್ತು ಇತರೆ ತ್ಯಾಜ್ಯವನ್ನು ಎಲ್ಲೆಂದರಲ್ಲಿ ಬಿಸಾಡುವ ಪ್ರವೃತ್ತಿಗೆ ಕಡಿವಾಣಹಾಕಲು “ಸ್ವಚ್ಛಭಾರತ” ಅಭಿಯಾನವನ್ನು ಮುನ್ನೆಲೆಗೆ ತರಲಾಯಿತು. ಬಹಳ ಉತ್ಸುಕ ಜನರೂ, ಅನೇಕ ಸ್ವಯಂಸೇವಾ ಸಂಸ್ಥೆಗಳೂ ಅಭಿಯಾನದಲ್ಲಿ ಕೈಗೂಡಿಸಿ, ಸಾರ್ವಜನಿಕ ಪ್ರದೇಶಗಳನ್ನು ಸ್ವಚ್ಛಗೊಳಿಸಿ, ಕೊನೆಗೆ ತ್ಯಾಜ್ಯವನ್ನು ಸುಟ್ಟುಹಾಕಿರುವುದು ಅನೇಕ ಕಡೆಗಳಲ್ಲಿ ವರದಿಯಾಯಿತು.

#### 4. ಪ್ಲಾಸ್ಟಿಕ್ ಉತ್ಪಾದಕರ ಹೊಣೆಗೇಡಿತನ

ಒಂದು ಅಂದಾಜಿನ ಪ್ರಕಾರ, ನಮ್ಮ ದೇಶದಲ್ಲಿ ಸುಮಾರು 50 ಸಾವಿರ ಪ್ಲಾಸ್ಟಿಕ್ ಉತ್ಪಾದನೆ/ಸಂಸ್ಕರಣೆಯ ಅಧಿಕೃತ ಘಟಕಗಳಿವೆ. ಸಣ್ಣ ಪ್ರಮಾಣದ ನೊಂದಣಿಯಿಲ್ಲದ ಘಟಕಗಳೂ ಬಹಳಷ್ಟಿವೆ. ಕಡಿಮೆ ಖರ್ಚಿನಲ್ಲಿ ಹೆಚ್ಚು ಲಾಭವೊಂದೇ ಧ್ಯೇಯವಾಗಿರುವ ಇವುಗಳಿಗೆ ಜನರ ಆರೋಗ್ಯ ಹಾಗೂ ಪರಿಸರದ ಬಗ್ಗೆ ಯಾವ ನಿಜವಾದ ಕಾಳಜಿಯೂ ಇದ್ದಂತಿಲ್ಲ. ಕಾನೂನು ಪಾಲನೆಗಿಂತ, ಕಾನೂನಿನ ಹಿಡಿತದಿಂದ ಪಾರಾಗುವ ಬಗ್ಗೆಯೇ ಇವುಗಳ ಗಮನ ಹೆಚ್ಚು. ಒಮ್ಮೆ ನೀವು ಅಂತರ್ಜಾಲದಲ್ಲಿ ಹುಡುಕಿದರೆ, ಇಂತಹ ನೂರಾರು ಪ್ರಕರಣಗಳು ಸಿಗುತ್ತವೆ.

#### 5. ಜಾಗೃತಿ ಅಭಿಯಾನಗಳು ಮತ್ತು ಯಶೋಗಾಥೆಗಳು

ಕೆಲವೊಮ್ಮೆ ಸದುದ್ದೇಶದಿಂದ ಆರಂಭಿಸುವ ಜಾಗೃತಿ ಅಭಿಯಾನಗಳು ಸಮಗ್ರಮಾಹಿತಿಯ ಕೊರತೆಯಿಂದಾಗಿ ನಿಜವಾದ ಉದ್ದೇಶಕ್ಕೆ ಮುಳುವಾಗುತ್ತವೆ. ಉದಾಹರಣೆಗೆ, ಏಕೋಪಯೋಗೀ ತೆಳುವಾದ ಪಾಲಿಥೀನ್ ಕೈಚೀಲಗಳನ್ನು ಸರ್ಕಾರ ನಿಷೇಧಿಸಿದಾಗ, ಬಟ್ಟೆಚೀಲಗಳೆಂಬ ಹೆಸರಿನಲ್ಲಿ ನಾನ್‌ವೋವೆನ್ ಪಾಲಿಪ್ರೊಪಿಲೀನ್ ಪ್ಲಾಸ್ಟಿಕ್ ಮಾರುಕಟ್ಟೆಗೆ ಬಂತು.

ಇನ್ನು ಪ್ಲಾಸ್ಟಿಕ್ ತ್ಯಾಜ್ಯದ ಪುನರ್ಬಳಕೆಯ (recycling) ಅನೇಕ ಯಶೋಗಾಥೆಗಳು ಇತ್ತೀಚೆಗೆ ಹೆಚ್ಚು ಸುದ್ದಿಯಲ್ಲಿವೆ. ಉದಾಹರಣೆಗಾಗಿ, ಪ್ಲಾಸ್ಟಿಕ್ ತ್ಯಾಜ್ಯ ಬಳಸಿ ರಸ್ತೆ, ಪಾದಚಾರಿ ಹಾಸುಗಲ್ಲುಗಳು, ಮತ್ತು ಇತರೆ ವಸ್ತುಗಳ ನಿರ್ಮಾಣವನ್ನು ಉಲ್ಲೇಖಿಸಬಹುದು. ಇಲ್ಲಿಯೂ ಸಾಕಷ್ಟು ವೈಜ್ಞಾನಿಕ ಮಾಹಿತಿಯ ಕೊರತೆಯಿದೆ. ಪ್ಲಾಸ್ಟಿಕ್ ತ್ಯಾಜ್ಯದ ಪುನರ್ಬಳಕೆಯ ದೃಷ್ಟಿಯಿಂದ ಪ್ಲಾಸ್ಟಿಕ್‌ನ್ನು 7 ಬಗೆಗಳಾಗಿ ವರ್ಗೀಕರಿಸಲಾಗಿದ್ದು, ಎಲ್ಲಾ ಬಗೆಯ ಪ್ಲಾಸ್ಟಿಕ್‌ನ್ನು ರಿಸೈಕಲ್ ಮಾಡಲು ಸಾಧ್ಯವಿಲ್ಲ.

ರೀಸೈಕಲ್ ಮಾಡಲು ಸಾಧ್ಯವಿರುವ ಎಲ್ಲಾಬಗೆಗಳೂ ಆರ್ಥಿಕ ದೃಷ್ಟಿಯಿಂದ ಕಷ್ಟಸಾಧ್ಯ. ಜೊತೆಗೆ, ಹೆಚ್ಚೆಂದರೆ ಮೂರು ಬಾರಿ ಮಾತ್ರ ಸಾಧ್ಯ. ಇಂತಹ ವಸ್ತುಗಳ ಗುಣಮಟ್ಟವೂ ಬಹಳ ಕಡಿಮೆ. ಅಲ್ಲದೇ, ಅಂತಿಮವಾಗಿ ಇವುಗಳನ್ನೂ ಬಿಸಾಡಬೇಕಾಗುತ್ತದೆ. ಸೂಕ್ಷ್ಮವಾಗಿ ಗಮನಿಸಿದಲ್ಲಿ ಇಂತಹ ಯಶೋಗಾಥೆಗಳು ಜನರನ್ನು ಇನ್ನೂ ಹೆಚ್ಚು ಪ್ಲಾಸ್ಟಿಕ್ ಬಳಸುವಂತೆ ಪ್ರೇರೇಪಿಸುತ್ತವೆ!!



ಒಟ್ಟಿನಲ್ಲಿ, ಪ್ಲಾಸ್ಟಿಕ್ ಸುಡುವ ಅನಿಷ್ಟ ಪ್ರವೃತ್ತಿಗೆ ಕೊನೆಯೇ ಇಲ್ಲವೆನೋ ಎಂದೆನಿಸುತ್ತದೆ. ಜನಸಾಮಾನ್ಯರಿಗೆ ಇದರಿಂದ ಅರೋಗ್ಯದ ಮೇಲಾಗುವ ನೇರ ಶೀಘ್ರ ದುಷ್ಪರಿಣಾಮಗಳ ಅರಿವು ಇಲ್ಲ. ನಮ್ಮ ವೈದ್ಯಕೀಯ ಕ್ಷೇತ್ರವೂ, ಸುದ್ದಿಮಾಧ್ಯಮಗಳೂ, ಇದರ ಬಗ್ಗೆ ಹೆಚ್ಚು ಗಮನ ಹರಿಸಿದಂತಿಲ್ಲ. ಈ ಹಿಂದೆ ತಿಳಿಸಿದ ಕಾರಣಗಳ ಹೊರತಾಗಿಯೂ ಜನಸಾಮಾನ್ಯರ ಉಪಭೋಗ ಸಂಸ್ಕೃತಿ, ಅಜ್ಞಾನ, ನಿರ್ಲಕ್ಷ್ಯ, ಮತ್ತು ಅವಿವೇಕಗಳಿಂದಾಗಿ ಪ್ಲಾಸ್ಟಿಕ್ ತ್ಯಾಜ್ಯ ನಿರ್ವಹಣೆ ಬಿಡಿಸಲಾರದ ಕಗ್ಗಂಟಾಗಿದೆ.

ಆದ್ದರಿಂದ, ಪ್ಲಾಸ್ಟಿಕ್ ಮಾಲಿನ್ಯವನ್ನು ತಡೆಗಟ್ಟಲು ನಾವೆಲ್ಲರೂ “ಥಿಂಕ್ ಗ್ಲೋಬಲಿ, ಆಕ್ಟ್ ಲೋಕಲಿ” ಎಂಬ ಸೂತ್ರವನ್ನು ಅಳವಡಿಸಿಕೊಳ್ಳಬೇಕಾದ ಅಗತ್ಯವಿದೆ. ಮೊದಲಾಗಿ ಪ್ಲಾಸ್ಟಿಕ್ ತ್ಯಾಜ್ಯವನ್ನು ಸುಡುವುದನ್ನು ತಕ್ಷಣವೇ ನಿಲ್ಲಿಸಬೇಕು. ಪ್ರಕೃತಿದತ್ತವಾದ ಸಹಜ ಶುದ್ಧಗಳನ್ನು ಈ ರೀತಿಯಾಗಿ ಮಾಲಿನ್ಯಗೊಳಿಸಿ ಆರೋಗ್ಯವನ್ನು ಹದಗೆಡಿಸಿಕೊಳ್ಳುವುದು ಮೂರ್ಖತನವೇ ಸರಿ. ಚಳಿಗಾಲ ಸಮೀಪಿಸುತ್ತಿರುವ ಈ ಹೊತ್ತಿನಲ್ಲಿ ದೇಶದ ಪ್ರತಿಯೊಂದು ಊರೂ ದೆಹಲಿಯಂತಾಗಬಾರದು.

ಜೊತೆಗೆ, ಪ್ರಜ್ಞಾವಂತ ಬಳಕೆದಾರರು ಏಕೋಪಯೋಗಿ ಪ್ಲಾಸ್ಟಿಕ್ ವಸ್ತುಗಳನ್ನು ಸಾಧ್ಯವಾದಷ್ಟು ಮಟ್ಟಿಗೆ ತಿರಸ್ಕರಿಸುವುದು ಮತ್ತು ಅನಿವಾರ್ಯ ಪಕ್ಷದಲ್ಲಿ ಮಿತಬಳಕೆಗೆ ಒತ್ತುನೀಡುವುದು, ಇತರೆ ಪ್ಲಾಸ್ಟಿಕ್ ವಸ್ತುಗಳ ಪುನರುಪಯೋಗ, ಪ್ಲಾಸ್ಟಿಕ್ ತ್ಯಾಜ್ಯವನ್ನು ಎಲ್ಲೆಂದರಲ್ಲಿ ಬಿಸಾಡದೇ ಸ್ಥಳೀಯ ಕಸಸಂಗ್ರಹಣೆಯ ವಾಹನಕ್ಕೆ ನೀಡುವುದು, ಮುಂತಾದ ಸರಳೋಪಾಯಗಳನ್ನು ಸ್ವಯಂಜಾಗೃತಿಯ ಮೂಲಕ ಅಳವಡಿಸಿಕೊಳ್ಳಬೇಕು.

ಅಂತೆಯೇ, ಗ್ರಾಮ ಪಂಚಾಯಿತಿ ಮತ್ತು ಪಟ್ಟಣ ಪಂಚಾಯಿತಿಗಳ ಘನ ತ್ಯಾಜ್ಯ ನಿರ್ವಹಣೆ ಮತ್ತು ವಿಲೇವಾರಿಯಲ್ಲಿನ ಲೋಪದೋಷಗಳನ್ನು, ಸಮುದಾಯಪ್ರಜ್ಞೆ, ಸಹಕಾರ ಮತ್ತು ಸಮನ್ವಯಗಳ ಮೂಲಕ ಸರಿಪಡಿಸಿಕೊಳ್ಳುವುದು ತುರ್ತಿನ ಅಗತ್ಯವಾಗಿದೆ. ಈ ನಿಟ್ಟಿನಲ್ಲಿ ಇನ್ನೂ ಹೆಚ್ಚಿನ ಕಾರ್ಯ ಚಟುವಟಿಕೆಗಳು ನಡೆಯಬೇಕಾಗಿದ್ದು, ಇದು ಈ ಹೊತ್ತಿನ ನಮ್ಮ ಆರೋಗ್ಯದ ಪ್ರಶ್ನೆಯೂ ಆಗಿದೆ.

ಚಿತ್ರ ಕೃಪೆ: ಗೂಗಲ್



Dr. Lakshminarayana Bhatta K G  
Professor  
Dept. of Chemistry

## Corruption: Critical Analysis

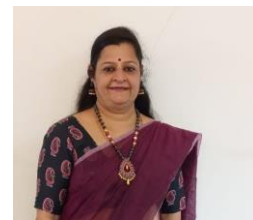
The corruption term in recent years of the incumbent government has gained much publicity for whatever reason though time and again it tickles the people both from the service provider and the one availing with reasons of feeling guilty more so in governmental officialdom places. I do remember this often with my father briefing his own experience of how he handled one such incidence. About 50 years ago approximately while in service he was offered a pack of notes to show favouritism of employment which naturally for a man of principle he rejected the poisonous offer made to him. This inspired me to be like him more.

And another such incident of one of the relatives falling prey to the vagaries of human behaviour of being honest to the works ethics recalls to me in alerting to be vigilant. He also being very disciplined gained adverse momentum with the result being trapped by his junior worker. The incident goes like some official tools were intently pushed in his vehicle by the worker with premeditated plan. As he is about to leave the factory the security personnel with the prior information caught him with the end result of unfortunate news of snatching off his breadwinner employment.

This always puts a lot of questions of being honest, disciplined. Here the corruption route has to be taken out of the societal norms from the people when they are infants/children to get registered in them of its tentacles.

But at the same time, it's astonishing to have come across of the reports of power wielding people in politics, business, services of governmental, non-governmental not sticking to the same in the garb of pressure or get lured by it to go for instant wealth.

Corruption if followed in letter n spirit would save lot of lives of their livelihoods. It's a long term sustainable practices requiring all of us to imbibe in communities, educational institutions and other respective places.



Mrs. Usha S  
Dept. of Humanities (English)

## Choices – The Hinges of Destiny



What we become in life depends on the choices we make. Edwin Markham rightly said, "Choices are the hinges of destiny." Sometimes, the smallest decisions can alter the course of our entire lives. John Maxwell observed, "Life is a matter of choices, and every choice you make makes you." We should not fear failure, as it often serves as the stepping stone to success. Life is teeming with challenges and facing them with courage gives life a purpose. Life presents many choices, and our positive choices determine our future. Positivity is a choice, and the quality of our thoughts directly impacts the happiness in our lives. God's greatest gift bestowed upon us is our life, which must be lived to its fullest potential. Echoing this sentiment, Eleanor Powell stated, "What we are is God's gift to us, and what we become is our gift to God."



During an interview, a distinguished swimmer shared his childhood dream of becoming a world-famous swimmer and winning numerous sports medals. However, as a child, he was paralysed by a fear of water when accompanying his father to the swimming pool. He would stand frozen, plagued by thoughts of the water's coldness and his ability to swim, ultimately retreating without trying. This pattern persisted for four days until, on the fifth day, he arrived with unwavering determination and courageously stepped into the water without hesitation. His sole thought was, "I can and I will." This positive choice, despite his fear, transformed his life and destiny. He told those hindered by fear and negativity: "Fear is our weakness and enemy. Overcoming it allows us to achieve our ultimate goals. Some hesitate due to negative thoughts like 'I can't do it,' 'Others are better than me,' or 'I will never succeed.' Trust in yourself, never consider yourself inferior to others, and always maintain a positive mindset, believing 'I can do it.'"



This story underscores that our lives reflect our choices; we become what we choose to be. Regardless of the circumstances, we always possess a choice. For a successful life, positive choices carry more weight than innate abilities. The choices we make steer our lives in the right direction.

Let us consider the inspiring example of Sachin Tendulkar, one of the greatest Indian batsmen in cricket history. His decision to pursue cricket led him to the pinnacle of success, making him one of the world's greatest cricketers and an esteemed recipient of the Bharat Ratna, India's highest civilian honour. In conclusion, when obstacles appear on your life's journey, do not turn back; instead, transform them into stepping stones to success. Strive to consistently make the right and positive choices in your life to become a successful individual.



Dr. Annie Sujith  
Associate Professor,  
Dept. of CSE, JIT

## ಪದ್ಯ

ಇಹನೋರ್ವನು ಪುರದಿ ಸ್ವಾರ್ಥ ಗುಣಕಥಿಪತಿಯು  
ಸಕಲ ಭಾಗ್ಯವಂಕೋಣೆಯಲಿ ಕೂಡಿಹನು|  
ಕೊಡನವನು ಕೇಳವಗೆ, ಕೊಡುವವರ ದೂಷಿಪನು  
ಸೋಮಾರಿ ಸೂತಕದ ಚಾಳಿ ನಿಮದೆಂದು||೧||

ನಡೆಯುತ್ತಲಿತ್ತವನ ದಿನನಿತ್ಯ ಜೀವನವು  
ಪಾಪ ಕೂಪದ ಕೊನೆಯು ತುಂಬುತ್ತಲಿತ್ತು|  
ಕಡೆದ ದರ್ಪದ ತಿರುಳು ಉರಿಸುತ್ತಲಿತ್ತವನ  
ಉರಿದು ಇರುಳಿವ ಗಾಢಾಂಧ ದೀಪಮಂ||೨||

ಬಂತೊಂದು ಇರುಳಿನಲಿ, ನಡುರಾತ್ರಿಗಾಲದಲಿ  
ಗಾಳಗಳ ಪಿಡಿದಿದ್ದ ಯಮಭಟರ ದಂಡು|  
ಬೀಸಿದರು ಬಂದವರು ಕರಿಗೊನೆಯ ಗಾಳಗಳ  
ಈಟಿ ಧಾಟಿಯ ಮೊನಚು ಚುಚ್ಚು ಬಾಣಗಳ|| ೩||

ಹಾರಿದವು ಏರಿದವು ಗಿರಿಗಿರಿಗಳ್ಳಾಟಿದವು  
ನಭದ ಅಭಿಯ ಸೇರಿ ಭೀತಿಯುದಿಸಿದವು|  
ಉಗುಳಿದವು ಕಣಕಣಕು ಉರಿಯುರಿವ ಉಲೈಗಳ  
ಸುಡಲೊಡಲ ಸರಪಳಿಯ ಸಪ್ತ ಲೋಕಗಳ||೪||

ನಡುಗಿದನು ಗಡಗಡನೆ ನಡೆಯಲೆತ್ತಿಸಿ ಬಿದ್ದು  
ಪಡಸಲೆಯ ಪುತ್ರರಂ ಕೆರೆಯ ಪೋಗಿಯೇ |  
ಸೋತು, ತಾ, ಸೀತೆಯೋಳು ಕುಗುವಂದದಿ ಕೂತು  
ಬಳಬಳನೆ ಸುರಿಸಿದನು ದುಃಖ ಭಾಷ್ಯಗಳ ||೫||

ಉಗುಳಿದಾ ಉಲೈಗುಳಿರಿವಗ್ನಿಯನ್ನುಗುಳಿ  
ಧಗಧಗಿಸಿ ಉರಿಯೆಯಿಂಚಿಂಚು ಹೊರ ಜಗದ |  
ಒಳಗಿನಂಕಣದಲ್ಲಿ ಏಕಮಾತ್ರನೆ ತಾನು  
ತಾನ್ನನ್ನ ನಿಜ ಜೀವದರಿವಿನೆಡೆ ನಡೆದ ||೯||

ಕಿಚ್ಚು ಹಚ್ಚಿತು ಜಗವ ಮಾಡಿ ತಂಪನು ಒಳಗ  
ಕಂಪನವು ನಷಿಸತೊಡೆ ಜೀವಕಣಗಳೊಳು |  
ಇಳಿಯಿತಗ್ನಿಯಡಿಮ್ಯಾಡಿ ದೇಹವ ಕೊರಡು  
ಏರಿಲ್ಲವಿಳಿವಿಲ್ಲವಾಡದಾ ಬೆರಳು ||೧೦||

ಕಂಡನಲಿ ಸರಪಳಿಯ ಬಂಧನದ ನಿಜದೊಡೆಯ  
ಪಡುವ ಪಾಡ್ಲೆಲ್ಲ ಪಿತ್ಯರೂಪ ಧರನು |  
ತಿಳಿದನವನಂದದುವೆ ಪ್ರಾಣಬಿಂದುವೆಂದು  
ದೇಹಾತ್ಮಗಳ್ಳೈ ಬರ್ಪ ನಂಟೆಂದು ||೧೧||

ನೋಡನೋಡುತವದುವೆ ಕ್ಷೀಣವಾಗುತ ಪೋಯ್ತು  
ನಡುವೀನ ನಂಟಂದಲ್ಲಿ ದೂರವಾಯ್ತು|  
ಎಳೆದು ಪಿಗಿದರು ಅವನ ಬಂದಂಥ ಯಮನ ಜನ  
ಪೊರಡಲನುವಾಗಿ ನಿಂತು ಗರಿ ಪಾರ್ಸಿದರು||೧೨||



Prof. Narayana H S  
Assistant Professor  
Dept. of Physics

# Artificial Intelligence

The AI upswings  
And we human beings  
Become as ants  
-Bugs that can't  
Evolve on their own.  
We must enhance  
Or under the wagon  
We'll be thrown  
Development and learning

Exponentially curving  
Those left behind  
Like monkeys in a zoo  
We the pets of the minds  
Whom shall soon ensue.  
AI, on an incline  
Are we humans doomed?  
Out like paper thrown  
Extinct or something yet known?



Prof. S Vinodh Kumar  
Assistant Professor  
Dept. of AIML

## ಶಾರದೆಯ ಪೂಜೆ

ಇಂದು ನನ್ನವಳು ಹೇಳಿದಳು  
ನನ್ನದೊಂದು ಮಗಳದೊಂದು ಇಟ್ಟಾಯಿತು  
ನಿಮ್ಮದೊಂದು ಪುಸ್ತಕ ತನ್ನಿ  
ಶಾರದೆಯ ಪೂಜೆಗೆ ಹೊತ್ತಾಯಿತು

ಹಳೆಯ ಪುಸ್ತಕಗಳನೆಲ್ಲ ಕೊಟ್ಟಾಗಿದೆ  
ಉಳಿದವುಗಳನೆಲ್ಲ ರದ್ದಿಗೆ ಹಾಕಾಗಿದೆ  
ಒಂದಾದರೂ ಕಂಡೀತೆಂದು ಹುಡುಕಾಡಿದೆ  
ಎಲ್ಲಾ "ಇ - ಪುಸ್ತಕ" ಮಯವಾಗಿದೆ

ಪ್ರಜಾವಾಣಿ ತರಿಸುವೆ, ಅದೇ ನನ್ನ ಪುಸ್ತಕ  
ಪುಟದ ತುಂಬಾ ಪ್ರಧಾನಿ ಮುಖ್ಯಮಂತ್ರಿ  
ಅದು ಬಿಟ್ಟರೆ ಕೊಲೆ ಸುಲಿಗೆ ದರೋಡೆ  
ಹೇಗೆ ತಂದಿಡಲಿ ಪೂಜೆಗೆ ದೀಪದಾರತಿಗೆ

ಅಮ್ಮ ಶಾರದೆ, ನಿಂತಿರುವೆ ದಾರಿಗಾಣದೆ  
ಏನು ಮಾಡಲಿ ಎಂದು ನೋಡಿದೆ  
ಮುಗುಳು ನಗುತ ಮಾತೆಯು  
ವೀಣೆಯನ್ನು ಮಿಡಿದಳು

" ಸಿಗಲಿಲ್ಲವೆ ಪುಸ್ತಕ  
ತಂದಿಡು ನಿನ್ನ ಮಸ್ತಕ "

ಅದಾದರೂ ನನ್ನ ಬಳಿ ಎಲ್ಲಿದೆ ತಾಯಿ

ಅಂದೇ ಕೊಟ್ಟುಬಿಟ್ಟೆನಲ್ಲ  
ನಿನ್ನಡಿದಾವರೆಗಿಟ್ಟೆನಲ್ಲ  
ನೆನಪಿದೆಯೇ ನಿನಗಾ ದಿನ  
ನನ್ನ ಹೆತ್ತವರೊಂದಿಗೆ  
ನಾ ಶಾಲೆಗೆ ಬಂದ ಮೊದಲ ದಿನ

ಅಂದಿನಿಂದ ನನ್ನೀ ಕೊರಳು  
ಹೊತ್ತು ತಿರುಗುತಿದೆ ಅದರ ನೆರಳು

ನೀನೊಲಿಯಲು ನಾನುಲಿದೇನು  
ನೀ ನಡೆಸಲು ನಾ ನಡೆದೇನು  
ಕೈಹಿಡಿಯಲು ನಾ ಬರೆದೇನು  
ಮೊದಲೇನು ಕೊನೆಯೇನು

ಕೈಮುಗಿಯುವೆ ಅಡಿಗೇರಗುವೆ  
ಹರಸು ತಾಯೆ  
ಅರಿವಿನರಸಿ  
ನಿನ್ನ ಕೂಸು ನಾ ಬಂದಿರುವೆ  
ಅರಿವನರಸಿ

-----

ಕನ್ನಡದ ಸರದಾರ  
ಜನಾರ್ದನ

## ದೊಡ್ಡ ಮನೆ

ಇಂದು ಮುಂಜಾನೆ ಬಂದಿದ್ದರು ನನ್ನ ಹೆತ್ತವರು  
ಕೇಳಿದೆ - ಬನ್ನಿ ಬನ್ನಿ, ಅವರಲ್ಲಿ, ನಿಮ್ಮ ಹೆತ್ತವರು ?  
'ಇಗೋ ಇಲ್ಲಿ' - ಕಂಡರು ನನ್ನಜ್ಜ ಅಜ್ಜಿಯರು  
ಅವರ ಹಿಂದೆ ಅವರ ಹೆತ್ತವರು !

ಹೀಗೇ ಒಂದರ ಹಿಂದೊಂದು ಸಾಲುಗಳು  
ಹೆತ್ತವರ, ಅವರ ಹೆತ್ತವರ, ಅವರ ಹೆತ್ತವರ  
ಜೊತೆಗೆ ಅವರವರ ಒಡಕುಟ್ಟಿದವರ  
ಮತ್ತವರ ಒಡನಾಡಿಗಳ ಮುಖಗಳು

ಎಲ್ಲ ಬಂದಿರಿ ಮನ್ನಿಸೆನ್ನ ಕರೆಯ  
ಆದರೂ ತೋರದಿದೆ ಅಲ್ಲೊಂದು ಮುಖ  
ಅಮಾಸೆಯ ನಸುಕಿನಲ್ಲಿ ಮಸುಕು  
ಚಹರೆ ಕಾಣದೊಲು ಮಂದ ಬೆಳಕು

ಸಣ್ಣ ದನಿಯೊಂದು ಕೇಳಿತಾ ಮುಖದಿಂದೆ  
ಕನ್ನಡಿಯ ಮುಂದೆ ನೀ ನಿಲ್ಲೊಂದು ಗಳಿಗೆ  
ಕಾಣುವುದು ನನ್ನದೇ ಚಹರೆ ಡಿಎನ್‌ಎ ಪಾವಟಿಗೆ  
ಜನುಮ ಜನುಮಕು ದಾರಿದೋರುವ ದೀವಟಿಗೆ

ಅಂದಿನ ಲೆಕ್ಕ ತೀರಿಸುವ ಸಲುವಾಗಿ  
ಬಂದಿರುವೆ ನಾ ನಿನ್ನ ಚಹರೆ ರೂಪಾಗಿ  
ಇಲ್ಲಿ ನೀ ಕಂಡ ಎಲ್ಲರೂ  
ಇಹರು ಇಹಲೋಕದ ಅಲ್ಲಲ್ಲಿ  
ಅವರವರ ಲೆಕ್ಕಾಚಾರದಲ್ಲಿ

ನಾನೆಂದೆ -  
ಎಲ್ಲರೂ ಇಲ್ಲಿಲ್ಲೆ ಇರುವುದಾದರೆ ಹೀಗೆ  
ಬದುಕಿನಾಚೆಯ ಬದುಕನರಿಯುವುದು ಹೇಗೆ

ಅಲ್ಲೆಲ್ಲ ಉಲಿಯಿತೊಂದು ದನಿ  
ಇದು ಅವರವರದೇ ಕಾಯಕದ ಮಾಯೆ  
ಅರಿಯಲೇನಿದೆ ಇದನು ಕೂಡಿ ಕಳೆಯುವ ಆಟ

ಎಲ್ಲ ದಾರಗಳ ಸರದಾರನ ಮಾಟ

ಸಾಗಿತ್ತು ಸಂವಾದ ಸತ್ಕಾರದೊಡನೆ  
ಒಬ್ಬೊಬ್ಬರದೊಂದೊಂದು ವೇದನೆ  
ಆವೇದನೆ ನಿವೇದನೆ  
ಉಳಿದೆಲ್ಲರ ಅನುಮೋದನೆ

ಬಿಡಿಬಿಡಿಯಾಗಿ ಕರ್ಮದೇರುಪೇರಿನ ಹೂಟ  
ಇಡಿಯಾಗಿ ಓಡುವುದು ತೂಕ ತಪ್ಪದಲೆ ಓಟ  
ಬಿಡಿ ನಾವು ಇಡಿಯವನು - ಇದು ತುಂಬ ಸರಳ  
ಅರಿತು ಅರಗಿಸಿಕೊಂಡವರು ವಿರಳ

ನಾನೆಂದೆ -  
ನಾವೇನೋ ಬಿಡಿಗಳು ಬಿಡಿ  
ಅವನಾರು ಇಡಿ, ನಮ್ಮನೊಳಗೊಂಡವನು  
ಎಲ್ಲಿಹನು, ಹೇಗಿಹನು, ಹೆಸರೇನೆಂದು ಕರೆಯುವುದು  
ಈಯಾಟ ಈಯೋಟ ಮುಗಿಯುವುದು ಎಂದು

ಇನ್ನೊಂದು ದನಿ -  
ಆ ಇಡಿಗೆ ಹುಟ್ಟಿಲ್ಲ ಸಾವಿಲ್ಲ  
ಹೆಸರಿಲ್ಲ ರೂಪಿಲ್ಲ  
ಎಣೆಯಿಲ್ಲ ಎರಡಿಲ್ಲ  
ಇರುವನೆಲ್ಲೆಡೆಯಲು ಎಂದೆಂದಿಗು

ಈಯಾಟ ಮುಗಿಯುವುದಿಲ್ಲ  
ನಮ್ಮೆಲ್ಲ ಪಾತ್ರಗಳಲವನಿರುವನು  
ಕರ್ಮವನು ಮಾಡುತ್ತ  
ಮುಂದಿನಾ ಕತೆ ಬರೆಯುತ್ತ  
ಎಂದೆಂದಿಗೂ ಆಡುತ್ತ, ಆಡಿಸುತ್ತ  
ಆನಂದವೊಂದುವನು ಪರಮಾತ್ಮನು

ಬ್ರಹ್ಮಮನೆನು (ಬ್ರಹ್ಮ)  
ಅಬ್ರಹ್ಮಮನೆನು (ಅಬ್ರಹ್ಮಮ)  
ಇಬ್ರಹ್ಮಮನೆನು (ಇಬ್ರಾಹಿಮ)

ಅವನೇ ಪರಬ್ರಹ್ಮನು

ಈ ಬ್ರಹ್ಮಾಂಡದಲ್ಲೆಲ್ಲ ಜೀವರೂ  
ನನ್ನವರೆ,  
ನಾನೆಲ್ಲರವನು  
ಹುಟ್ಟಿಲ್ಲ ಸಾವಿಲ್ಲ  
ಮೊದಲಿಲ್ಲ ಕೊನೆಯಿಲ್ಲ  
ಬಂದಾಡಿ ಹೋಗುವ ಆಟವಿದು  
ಎಂಬರಿವನು  
ಪಡೆಯುವುದೆ ಬಿಡುಗಡೆಯು  
ಇನ್ನೇಕೆ ದಿಗಿಲು  
ಪರಮಾನಂದವೆ ಮಿಗಿಲು

ಬಸವಣ್ಣನ ಪಾತ್ರ ಒಂದು ಮೂಲೆಯಿಂದ  
ಹೇಳಿತು  
ಸ್ಥಾವರಕ್ಕಳಿವುಂಟು ಜಂಗಮಕ್ಕಳಿವಿಲ್ಲ

ಕೃಷ್ಣನ ಪಾತ್ರ ಇನ್ನೊಂದು ಮೂಲೆಯಿಂದ  
ಹೇಳಿತು  
ನೈನಂ ಛಿಂದಂತಿ ಶಸ್ತ್ರಾಣಿ, ನೈನಂ ದಹತಿ ಪಾವಕ:

ಐನ್‌ಸ್ಟೈನ್ ಪಾತ್ರ ಮಗದೊಂದು ಮೂಲೆಯಿಂದ  
ಹೇಳಿತು  
ಮ್ಯಾಟರ್ ಕ್ಯಾನ್ ನೆಯ್ಡರ್ ಬಿ ಕ್ರಿಯೇಟೆಡ್  
ನಾರ್ ಬಿ ಡೆಸ್ಟ್ರಾಯ್ಡ್  
And that's all is the matter !

ಬೆಳಗಾವುವುದರೊಳಗೆಲ್ಲ ಪಾತ್ರಗಳು  
ಅಲ್ಲವರು ಇಲ್ಲಿವರು ಕರೆದರೆಂದು  
ಮರೆಯಾದರು ಇನ್ನೊಮ್ಮೆ ಕರೆದಾಗ  
ಬರುವೆವೆಂದು

ಎಲ್ಲರನು ಒಳಗೊಂಡ  
ಎಲ್ಲರನು ಸಲಹುತಿಹ

ದೊಡ್ಡ ಮನೆ  
ಮಹಾ ಆಲಯ  
ಮಹಾ ಭವನ  
ಆ ಭವನದೊಡೆಯನಿಗೊಂದು  
ನನ್ನಿಯ ನಮನ  
ನನ್ನೀ ಕವನ

-----  
ಕನ್ನಡದ ಸರದಾರ  
ಜನಾರ್ದನ

ಆಸಕ್ತರು ಈ ಜಾಲತಾಣಕ್ಕೆ ಭೇಟಿ ನೀಡಿ ಇವರ ಇತರ ಕವನಗಳನ್ನು ಓದಬಹುದು

<https://kannadadasaradara.wordpress.com>



Mr. Janardhana L  
Accounts Officer, CIIRC



## **ACTIVITIES AND ACHIEVEMENTS IN THE TRAINING YEAR 2023-2024:**

- Actively participated in Swachhata Hi Seva (SHS 3.0), a special awareness program conducted under the joint efforts of the Department of Drinking Water Supply (DDWS) and Ministry of Housing and Urban Affairs (MoHUA), aimed at fostering community participation and generating a Jan Andolan for Cleanliness.
- Cadets Participated in the volunteering team at Chiguru 2024 alongside over 3000+ enthusiastic participants organized by Youth for Seva (YFS).
- Hosted Inter-Collegiate Sports Competition in association with 1 Karnataka Battalion NCC. Over 450 Cadets from 15 colleges came together, showcasing the true spirit of unity, discipline and adventure.
- All Cadets of Second and Third Year passed in NCC 'B' and 'C' Certificate examination with several 'A' (Alpha) Grades.
- Cdt Vivek Vasista from Third Year NCC got selected for All India Trekking Camp at National Level.
- Cdt Sangetha from Second Year NCC got selected for Ek Bharat Shreshtha Bharat Camp at National level which is going to be held at Mysore.
- SGT Vinod Y, a Third-year cadet, has been selected for the Thal Sainik Camp (TSC). He has successfully completed one camp and has subsequently been selected for another camp.
- Cadets from the Second and Third years attended a camp held at Brindavan College and Manipal College, Yelahanka.

# BRINDAVAN COLLEGE







# MANIPAL COLLEGE





## THAL SAINIK CAMP (TSC)



# PHYSICAL EDUCATION



*“Lacing up the Stories behind the Scoreboard.”*

# DEPARTMENT OF PHYSICAL EDUCATION



**Dr. Gireesha S.**  
**Head of The Department**

## *Vision*

*To engage in relentless pursuit of excellence in Physical Education and Sports for health, fitness and wellness of the citizens.*

## *Mission*

*Quality teaching, learning and research in cognitive, psychomotor and affective domains in Physical Education and Sports.*

## **Message:**

Physical education is an integral part of the total Education. Mental, intellectual, emotional and social development of a growing child is dependent and closely related to physical development. A physically fit individual possesses a well-balanced personality which is, mentally sharp, emotionally stable and socially well-adjusted.

Physical education teaches how to acquire ability to develop strength, speed, endurance and coordination abilities. It also emphasises on achieving social qualities, such as, empathy, cooperation, friendliness, team spirit, and respect for rules, which are essential for healthy social relations with others.

In this era of technological advancement, physical education and sports are considered essential for health, fitness, wellness, vigour and strength.

The department aims at overall development of Students.

The students have participated in the various tournaments conducted by VTU, All India Universities, District, State and National events and have brought laurels to our Institution.

During the academic year 2023-2024 our college students took part in the many Sports & Games Competition which was conducted by VTU.

1. International yoga day was celebrated on 21st June 2023 at JIT.
2. Students participated in the VTU Bangalore south zone Badminton tournament 2023-24 on 18th and 19th July 2023 at RNSIT
3. JPL Session 2 tournament was conducted for Staff at Sheen academy on 5th August 2023. Volleyball, Cricket, Badminton were conducted at Sheen academy on 5th August 2023. Throwball and Tug of War events were conducted at JIT ground on 7th August 2023. Table Tennis was conducted on 9th August 2023 at JIT .
4. Students took part in the VTU Bangalore zone Chess Tournament at BGSET Bangalore on 7th and 8th August 2023.
5. Students participated in the VTU State level Taekwondo Competition at SIT Tumkur on 21st August 2023.
6. Students participated in the VTU Bangalore south Division Foot ball Tournament at T Jhon IT on 23rd August 2023.
7. Students Participated in the VTU State level Yoga competition at Nitte Manglore on 30th August 2023.
8. Students took part in the VTU State level Weight lifting competition at Veman IT on 1st and 2nd September 2023. Our college Tarun T R secured Bronz medal in 69kg category.
9. Students participated in the VTU State level power lifting competition 2023-24. Our college 3boys and 1 girl participated Event was held at KLS Gogte IT Belagavi . Our student Sanjana got a Bronz medal in 63 kg category.
10. Dr BNV memorial sports meet 2023 was held on 9th and 10th November 2023 at our college .Our College Throw Ball women team secured First place.
11. Students participated in the VTU Bangalore South Division Basketball men tournament 2023-24 on 27th and 28th at ACSCE Bangalore.
12. Students participated in the VTU Bangalore South Division Cricket men tournament 2023-24 at ACSCE Bangalore on 27th November 2023.
13. Women Team took part in the BHAVANA Memorial Throw Ball tournament on 27th November 2023 at GAT Bangalore. Our college team secured Runner up position.
14. VTU Bangalore South Division Cricket Men competition 2023-24 Heald at ACSCE Bangalore from 27th November to 15th December 2023. Our college team lost the match in the Semi final round.
15. Students took part in the VTU Athletic team selection At VTU campus Belgavi from our college Jeevan was selected for Triple jump and Long jump.

16. Our student Sanjana H represented VTU weight lifting team in All India South West zone weight lifting competition held at Adikavi Nannayya University Rajmandri AP on 7th to 12th December 2023.
17. Our college Student Jeevan N M represented VTU Athletic team in the South West Zone Athletic Meet 2023-24 Held at Tamil Nadu Sports University, Chennai on 29th December to 1st January 2024.
18. On February 8th and 9th VTU Bangalore South Division Volleyball Men Tournament 2023-24 was organised at our College . 18 teams were participated.
19. VTU Bangalore South Division Throw Ball Tournament 2023-24 was Held on 13th February 2024 at JSSATE Bangalore and our Women team Secured First Place .
20. Students participated in the VTU Bangalore South Division Kabaddi Men Tournament 2023-24 . Held on 15th and 16th February 2024 at ACSCE Bangalore. our team participated in this tournament.
21. VTU State Level Throw Ball women tournament 2023 - 24 was Held on 16th and 17th February 2024 at GSSS Mysore our team qualified in this

### **SPECIAL ACHIEVEMENTS:**

Our college Student Jeevan was participated in the VTU State Level Athletics meet 2023-24 which was held at VTU Campus, Belgaum ,and secured 2nd Place in Long Jump and First Place in Triple Jump events. He was a part of the VTU Athletic Team.



Our College Women Throwball team | participated and secured First Place in the VTU Bangalore South Division Throw Ball Tournament 2023-24 Which was Held on 13th February 2024 at JSSATE Bangalore.



# LIBRARY



*“Weaving the Wisdom Within the Walls.”*

# LIBRARY & INFORMATION CENTRE



**Mr. Mohan Kumar S**  
**Librarian**  
**M.Lib.Sc., M.Phil.**



**Mr. Rajshekar K L**  
**Asst- Librarian**  
**MLISc.**

JIT Library is a resource center for teaching, learning, and research. Being the heart of the academic center, it is home to all the information services. The objective of our library is to provide the right information and knowledge to the right users at the right time. It is equipped with an area of 400 sq. feet. The library can accommodate 200 users at a time and is well ventilated and furnished.

## COLLECTION ORGANISATION:

The library has adopted an open access system. Documents are classified as per the International Classification System 'Dewey Decimal Classification'. The library has a good collection of books covering engineering subjects. International, national journals, technical and newspapers are subscribed to update subject knowledge. The reference section covers the latest yearbooks, bibliographies, dictionaries, directories, and handbooks. General knowledge books are also supported by other books that are helpful to prepare for competitive exams and personal development activities.

## **AUTOMATION:**

"LIBSOFT" software is installed and used for library management. Bar-coding labels are pasted to all books in the library. 'Digital Borrower's Cards' are issued to all staff and students. The library is fully automated, covering all its areas, and an OPAC facility is provided for users to locate the documents.

## **DIGITAL CENTER AND INTERNET FACILITY:**

The Library's Digital Center has a good collection of CDs and DVDs. Users can scan and refer to information available on CDs and DVDs. Also, Internet facilities are provided in the digital center for web search.

## **E-Resources**

The library has subscribed to e-resources through the VTU Consortium, which covers major publications, and it has also subscribed to DELNET e-resources to help students and staff get the latest or most current information. Though Knimbus platform users can access VTU Question Papers using email IDs as login credentials.

## **REPROGRAPHIC FACILITY:**

Users can take Xerox copies of reading material available in the library from the library's photocopier.

## **INTER LIBRARY CO-OPERATION:**

Our faculty and students can visit the library with their ID cards for reference purposes and can also take Xerox copies of literature of their interest for project, study, or research purposes.

## STATEMENT SHOWING NUMBER OF BOOKS UNDER UG AND PG COURSES

### ABSTRACT

#### Total No of Titles & Volumes

#### UG- BE

Books:	Titles: 2232	Volumes: 13428
Handbooks	Titles:05	Volumes: 1776
Complimentary Copy	Titles: 410	Volumes: 463
Departmental Library Books	Titles: 75	Volumes: 800
e-books	Titles: 2500	Volumes: 5000

#### PG- M.Tech

Books:	Titles: 34	Volumes:65
<b>Total:</b>	<b>Titles: 5256</b>	<b>Volumes: 21532</b>

#### List of National Journals Subscribed/Renewal for the Year 2024

Sl No	Name
	COMPU TER SC/INFORMATION SC
1.	Open Source for You (Linux For You)
2.	Journal Of Computer Science
3.	Data Quest
4.	PC Quest With Cd
5.	Voice and Data
6.	Jr On Software Engg
7.	IupJnl.Of Computer Sciences
8.	IupJrl of Information Technology
9.	Tele Net Magazine

	<b>ELECTRONICS AND COMMUNICATION ENGG</b>
1.	Electronics for You
2.	Journal of Electronics Engineering
3.	I-Manager's Journal on Electrical Engineering
4.	IEEMA Journal
	<b>CIVIL ENGG</b>
5.	Indian Concrete Journal
6.	Jnl.Of Indian Water Works Assn
7.	Indian Cement Review
	<b>MECHANICAL ENGG</b>
8.	Journal Of Mines Metals & Fuels
9.	Journal Of Manufacturing Engineering
10.	Indian Jnl.OfEngg. &Matls. Science
11.	Manufacturing Technology Today
	<b>BASIC SC</b>
12.	Resonance
13.	Annals Of Library & Information Studies

## List of e-journals Subscribed for the year 2024

The following e-journals are subscribed under the VTU Consortium for the year 2024:

Sl No	e-journals
1.	Springer Nature
2.	Elsevier
3.	IEEE (POP)
4.	Emerald Publishing
5.	Taylor & Francis
6.	ProQuest
7.	Kinmbus
8.	Drillbit Plagiarism detection

## Staff Details

Mr. Mohan Kumar S	Librarian	MLISc, Phil
Mr. Rajshekar K L	Asst-Librarian	MLISc

# **EXTENDED FAMILY**

*“Custodians of Collegiate Clockwork.”*

# ADMINISTRATION



*“Adminstrivia: Where Efficiency Meets Compassion.”*

# HOSTEL-IN-CHARGE



*“Dorm Life Diaries: Hostel Hustle and Bustle.”*

# TRANSPORT DEPT.



*“Transporting Dreams: Connecting students, One Ride at a Time.”*

# SUPPORT STAFF



*“Supporting Dreams, Creating Smiles: The Unsung Champions.”*

# TRAINING AND PLACEMENT DEPT.



*“One step of your future starts here.”*

# TRAINING AND PLACEMENT CELL



Mr. Akhilesh S Narayan  
Training & Placement Officer  
Certified Counselling Practitioner



Mr. Susheel  
Executive HR

## *VISION:*

To secure placement offers for all eligible students before the completion of their final semester.

## *MISSION:*

To provide holistic career training that covers technical, soft skills, and practical knowledge, enabling students to make smooth transitions into the professional world.

JIT's Training and Placement Cell (TAPC) is a consistent runner in providing placement support to its own students and students from neighboring colleges as part of its societal responsibility.

It is the institution's pride that its students are highly rated by employers of both private and public sectors. It considers offering relevant information, guidance, and support for job seekers as its primary responsibility.

The department aims at achieving the strongest placement results and highest levels of student and employer satisfaction. The vision of the department is to provide at least one offer to every outgoing student.

TAPC is well-equipped with a spacious conference hall, training rooms, and separate well-furnished GD, HR, technical, interview and counselling rooms.

Jobs of today require students to possess very good communication and presentation skills, good analytical thinking and logical thinking abilities. These represent the most sought-after skills together with sound technical knowledge. JIT addresses this challenge early on by organizing several soft skills and problem-solving skills training sessions for the students from their first semester which are scheduled into their academic time table. A focused 12-day placement training program for final year students is also part of the semester execution. Placements for the academic year 2023-24 has been very good with 181 offers received for 224 students who were eligible for campus placement as per hiring companies' policies.

Three main functions of the Training and Placement Department are Training, placement and counselling.

## TRAINING

Training begins from inducting the student. The department performs a survey and understands the interest/s of the students, help them set SMART (Specific, Measurable, Achievable, Realistic and Time bound) goals, hand holds and nurtures the students to achieve their pre-determined goals.

The importance of soft skills and life skills is impressed upon them. They are trained on several domains such as:

- Communication skills
- Time management
- Stress management
- Telephone etiquette
- Netiquette
- Stress management
- Prioritizing Decision Making
- Resume Building
- Presentation skills
- Creativity and Innovation
- Emotional Intelligence
- Presentation skills
- Positive Attitude
- GD and mock interviews



## **EMPLOYMENT SKILLS**

Technical training sessions led by industry experts and established vendor partners are orchestrated to cater to the essential technological requirements of each engineering branch.

The department identifies the highly coveted technical proficiencies in present, future, and emerging technologies applicable to all engineering disciplines offered at JIT. These services enlist the expertise of well-established and esteemed training partners to provide instruction in these skills.

Strict adherence to attendance requirements is enforced, and participants receive certificates of participation upon the successful conclusion of such training programs.

## **PLACEMENTS**

The Training and Placement (TAP) Cell has established strong partnerships with over 100 national and multinational companies, including top recruiters like Microgenesis, Mercedes Benz, MathCo, Optiv, and Ace Micromatic. Proactive engagement with HR departments ensures alignment with recruitment trends and enhances training strategies. In the 2023-24 placement season, 87% of the graduating batch secured positions, with 181 offers made to 224 eligible students. Salary packages ranged from a highest of ₹15 LPA to a median of ₹4 LPA. The department facilitates on-campus recruitment, pool-campus drives, and off-campus opportunities, broadening job prospects for JIT students.

## **INTERNSHIP PROGRAMS: GAINING PRACTICAL EXPOSURE**

We believe that internships are a stepping stone toward full-time employment. To that end, the TAP Cell provides extensive support in helping students secure internships, with many of them being paid opportunities. Companies such as Shyena Solutions, Flipkart, Movidu have offered internships with stipends as high as ₹20,000 per month, providing students with invaluable industry experience that significantly enhances their employability.



## DASHBOARD 2024 (AS ON 07-08-2024)

Branch	Total students	Eligible students	Total offers	Multiple offers	Unique offers	No. of Students Placed in Non-IT	No. of Students Placed in IT
CSE	118	101	70	20	50	2	68
ISE	51	44	31	5	26	2	29
ECE	57	41	47	11	36	38	9
AIML	52	38	26	4	22	0	26
MECH	15		3	1	2	3	0
CIV	20		4		4	4	0
Total	313	224	181	41	140	49	132

Company	Highest Package
SmartData Solutions	9.60 LPA
MathCo	8.00 LPA
MathCo	8.00 LPA
LG soft India	7.56 LPA
digital.ai Software Ind Pvt Ltd.	7.5 LPA

### COUNSELLING

The Department places the utmost importance on counseling. Students requiring counseling are identified and referred by faculty members, proctors, or department heads. The counselor actively engages with the students, listens to their concerns, and provides continuous support and guidance through regular interactions. During the counseling sessions, POSH is addressed as a precaution and thus educating the students the way forward when such incidents occur.

### HIGHER EDUCATION COUNSELLING

Higher education counseling is of paramount importance for students considering studying abroad. It aids them in identifying suitable academic institutions and courses to match their interests and objectives. Additionally, students gain valuable insights into topics such as student visas, scholarship opportunities, educational loans, and more. The Department organizes counseling sessions conducted by external agencies, facilitating students in comprehending the specific requirements of various international universities that align with their individual preferences.

## **INDUSTRIAL VISIT/INDUSTRIAL TRAINING**

Students are made to visit relevant industries to bridge the gap between Industry and the academia. They observe and learn how theoretical concepts are put into action, thereby aiding their practical learning. They are exposed to the real corporate environment and understand how work is executed in the organization.

The training and placement department addresses the Industry-academia gap and equips students to be able to transit from the campus to the corporate. This finishing school activity begins from their first year of engineering and continues through their final year.

## **ALUMNI ENGAGEMENT: STRENGTHENING THE COMMUNITY**

The role of alumni in helping current students cannot be overstated. TAP Cell ensures that past graduates remain engaged with the institution through:

- **Alumni Mentorship Programs:** Alumni working in reputed firms return to campus to mentor students, guiding them on career paths, interviews, and overall professional development.
- **Networking Events:** Regular networking events connect current students with JIT alumni who can offer valuable industry insights and career advice.

# **RESEARCH AND INCUBATION CENTRES**

# CENTRE FOR INCUBATION, INNOVATION, RESEARCH AND CONSULTANCY (CIIRC)



**Dr. Krishna Venkatesh**  
**Director CIIRC®**

## VISION

*To be a Centre of Excellence for  
Developing New Technology,  
Innovation and Incubation*

## MISSION

*Pioneering Product  
Development*

## Message from the Director

Greetings from the Centre for Incubation, Innovation, Research and Consultancy!

From times immemorial, teaching and research have been an indispensable activity and today it is becoming increasingly multidisciplinary in nature. Technological advances are happening in every stream the across the world and cultures are increasingly interacting with one another. Also, significant social and political changes are currently underway and there is tremendous potential for global teaching and research, free of ideologies, to engage in peaceful activity for the benefit of mankind.

Globalization of media has shown mankind the potential possibilities available within the modern society and has made citizens desire improvements in their quality of life. Such desires and needs can only be met on a global scale when a new class of academicians and professionals come together, prepared with a multitude of skills, great insight, more perspectives, better analytical and creative skills, and the willingness to adapt to new and changing conditions and demands. Having transcended the new millennium and looking beyond, these competencies are even more critical for survival and sustenance.

As academicians, students and professionals with cross-cultural, multi-skilling, sensitivity, and a broad-based knowledge are in much demand today. I feel we need to empower ourselves with these skills (required for teaching and active research) and hence, be able to effectively contribute to the growth of the institution and the region in the vistas of science and engineering. To address this very situation, the Centre has established research-cum-incubation labs in 16 domains of science and technology with state-of-the-art facilities.

I urge you to read and understand what CIIRC® is involved in and how it is actively contributing to the body of knowledge through its numerous products, services, patents, and publications.

## OBJECTIVES OF CIIRC®

- To engage in **Research, Development and Consultancy** activities resulting in advancement and dissemination of knowledge supporting **societal needs**
- To develop **multidisciplinary technologies** and to establish industry interfacing which would help in promoting new materials and technologies
- To provide a platform for **rural area development** through technology upgradation
- To act as a nodal centre for supporting **small and medium enterprises (SME)**

## ABOUT CIIRC®

The Centre for Incubation, Innovation, Research and Consultancy (CIIRC®) is a joint initiative between Sri Sringeri Sharada Peetham, Sringeri, and Jyothy Institute of Technology, Bengaluru.

CIIRCTM has emerged with a promise of ushering in a new philosophy by bringing, for the first time, on the same platform, diverse components of science, engineering, business orientation and skill development with emphasis on innovation, incubation and research, leading to successful entrepreneurship. The understanding of all these three aspects, thus, forms the core of academic and research erudition at CIIRC®, JIT; and, market research, alongside business planning, forms the basis of the enterprise component. The essential outcome of any academic pursuit, apart from imparting knowledge, should be to enable students to become readily employable or establish their own industries, firms or enterprises with renewed confidence.

## DOMAINS

The domains envisaged at CIIRC® are agriculture, energy, environment, food, health, homeland security and water, all addressing societal and environmental needs. Towards this, a platonic relationship has been forged with a number of companies and institutions within and outside of the country. To support the same, research labs have been established in the vistas of:

<b>Bio composites, Biopolymers</b>	<b>Remote Sensing and VLSI</b>
<b>Computational Engineering</b>	<b>Sophisticated Instrumentation Facility</b>
<b>Energy</b>	<b>Surface and Interface Physics</b>
<b>Environment</b>	<b>Thermal Engineering</b>
<b>Nanoscience and Nano Engineering</b>	<b>Tribology</b>
<b>Plant and Microbial Technology</b>	<b>Water</b>

## FACILITIES AVAILABLE

CIIRC® is equipped with several sophisticated instruments such as:

- HPLC (High Performance Preparative Liquid Chromatography)
- ELISA (enzyme-linked immunosorbent assay)
- TGA (Thermogravimetric Analysis)
- DSC (Differential Scanning Calorimeter)
- Electrochemical Workstations
- SEM (Scanning Electron Microscope)
- FT-IR (Fourier Transform IR Spectroscopy)
- Lyophiliser
- PCR
- XRD (Xray Diffractometer)
- GC (Gas Chromatography)
- Epi - Fluorescence Microscope
- BSC - L2

Other facilities available on-site include:

- Bio-safety Cabinet Level II
- Probe Sonicator- Thermo-cycler
- CO2 Incubator
- Bacterial Incubator
- Sophisticated Rotary Vacuum Evaporator
- Orbital Shake Incubator
- Hot Air Oven
- Tubular Furnace
- Plant Tissue Culture Facility
- Greenhouse / Polyhouse Facility
- High Temperature Stir Casting Furnace
- Universal Testing Machine
- Battery Tester
- Automatic Filling Machine PF-30
- Powder Packaging Machine
- Double Nozzle Piston Liquid Filling Machine
- Ultra Cool Centrifuge
- Inverted Microscope
- Autoclave
- Laminar Air Flow Chamber
- Deep Freezer (-80°C; -20°C)
- Rotary Evaporator
- Microwave Reactor
- Animal Cell Culture Facility
- Cmprsn. Molding Machine
- Tribometer
- Thermal Imager
- Environmental Chamber
- Wrapper Packaging Machine
- SS Product Mixer

## FACULTY RESEARCHERS

A qualified group of 70 faculty members - researchers consisting of 29 doctorates and 25 Master's from premier institutes has been set up to support the Centre considering that the ensuing decade shall be driven by knowledge-based economies. Research at CIIRC® is wide ranging with a blend of scientists and engineers contributing towards the development of novel technologies that are efficient, innovative and sustainable for civil, military and societal applications. Faculty-Researchers at CIIRC® have the experience of successfully executing several funded projects in the past, espoused by leading agencies such as AR & DB, DAE, DOS, DRDO, DST, KSCST, MNRE, NRB, PSU, Vision Group on Science and Technology (VGST) - GOK and others, supported by numerous patent filings.



Currently, there are ongoing projects funded by BIRAC, DBT, DIC, DOS, DRDO, DST, and UGC-DAE; a few more in the pipeline, are being positively considered for funding. Faculty - Researchers at CIIRC have collaborations and key tie-ups with institutions and organizations at the individual and institutional levels both within and outside of the country. Identifying the capability of CIIRC®, ISRO has set up an IRNSS Satellite

Receiving Station at the campus. Members at the Centre have been globally recognized with several laurels such as Commonwealth, DBT, Honeywell Silver Plaque, Hungarian, Most Innovative Enterprise, Ramalingaswamy Fellowship, etc. Having said these, it is clearly evident that the Centre is reaching a tall order in R&D activities and aims to capture the attention of the community through its strategically innovative and technically sound products that have wide relevance to humankind.

CIIRC® faculty have 550 plus Scopus/Thomson Reuters indexed publications to their credit with an average impact factor of 2, citation index of close to 5000, average hindex of 5, and numerous books and book chapters by major publishing houses, together with a multitude of products to their credit.

## RESEARCH LABS AT CIIRC®



Thermal Engineering Lab



Surface Engineering Lab



IRNSS Lab



Autonomous Systems Lab



Biomaterials Lab



Bio Composites Lab



Water and Energy Lab



Environment Lab



Plant and Microbial Technology



Food Technology

## RESEARCH LABS AT CIIRC®



Cell and Molecular Biology



Sophisticated Instrumentation Facility



Nanotechnology



Computational Engineering



Nanoscience and Engineering



AMD and Sensors Lab



IEDC



Ancient Indian Sciences

## CONSULTATION AND COLLABORATION

CIIRC<sup>®</sup> offers engineering & research consultancy to the industry and R&D institutions. It has signed a number of collaborations for joint work / research in predetermined areas of inter-disciplinary nature to accentuate the call of the industry, academia and the student community, thus, meeting the larger sustenance needs of the society.

As of now, it provides **consultancy** to the following organizations:

Altem Technologies Pvt. Ltd.	Indeutsch Industries Pvt. Ltd.
Amadeus Software Labs India Pvt. Ltd	Jyothy Nivas College
DEBEL, DRDO	M S Clinical Research Pvt. Ltd.
Dover India Ltd.	Rensol Power Pvt. Ltd.
Dwali Services Pvt. Ltd.	SAC, ISRO
GEMN Research & Development	Shri Godhan Biosol Pvt. Ltd.

## RESEARCH COLLABORATIONS

CIIRC<sup>®</sup> has collaborated with the following organizations for joint R&D capabilities:

1. Central Council of Research in Homeopathy, New Delhi
2. Karnataka State Sericulture Research and Development Institute, Bengaluru
3. National Remote Sensing Centre, ISRO, Hyderabad
4. Space Application Centre, ISRO, Ahmedabad
5. Swami Vivekananda Yoga Anusandhana Samsthana (S-VYASA), Bengaluru

## ACADEMIC COLLABORATIONS

CIIRC<sup>®</sup> has collaborated with the following colleges for joint projects and programs

to further strengthen their academic stand:

1. Adi Shankara Trust, Kerala
2. AMC Engineering College
3. Dayanand Sagar Academy of Engineering and Management
4. Indian Academy Degree College, Bengaluru
5. Jyothy Nivas College (Autonomous)
6. Karnataka State Sericulture Research and Development Institute
7. Kongunadu College of Engineering and Technology, Trichy
8. Nitte Deemed-to-be-University
9. PDA College of Engineering, Kalburagi, Karnataka
10. Vijaya Composite PU College, Bengaluru

## INDUSTRIAL COLLABORATIONS

CIIRC<sup>®</sup> has collaborated with several industries to add to its own arsenal of R&D to work together to design and develop new products. The associations help CIIRC<sup>®</sup> and the industry in shouldering problems and issues specific to the industry and jointly propose viable and acceptable solutions that can then be commercialized, if necessitated.

Adnano Technologies Pvt. Ltd	ITIE Knowledge Solutions
AGI Resources	Medisys
ALTA Energy Technologies Pvt. Ltd	Mithra Increst Pvt. Ltd.
Altem Technologies Pvt. Ltd	M S Clinical Rsch. Pvt. Ltd.
Azymes Biosciences Pvt. Ltd.	Maiyas Bvrgs. & Foods Pvt. Ltd.
Bombay Hemp Company Pvt. Ltd., Mumbai	Modtech Engineering
Circuit Centre	Prayoga Inst. of Edn. Research
Decision Engineering	Rensol Power Pvt. Ltd.
Dover India Pvt. Ltd	S J S Enterprises
First Source Impex Pvt. Ltd.	Saveer Matrixnano Pvt. Ltd.
Genbioca Sciences Pvt. Ltd.	TUV Rhineland (I) Pvt. Ltd.
Impact Engineering Solutions	Vittartha Technologies LLP
Infimind Inst. of Skill Development Pvt. Ltd	Vsix Analytical Labs Pvt. Ltd
Isometric Solutions	

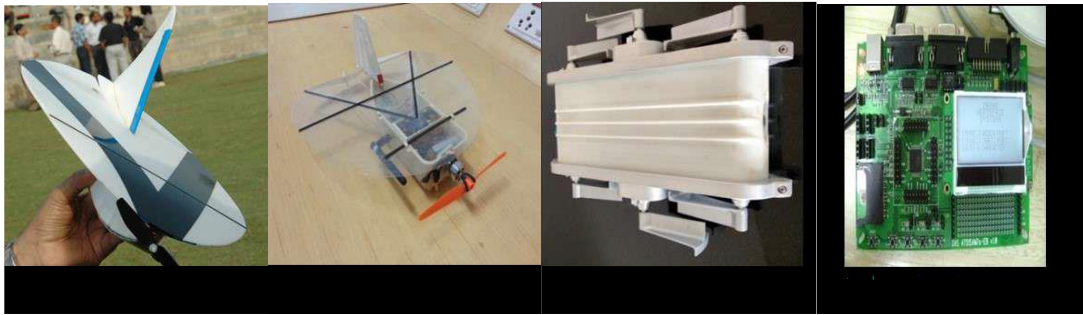
## INTERNATIONAL COLLABORATIONS

1. College of Tunghai University, Taiwan
2. Escola Politecnica Da Universidade de Sao Paulo, Brazil
3. LE Systems Co. Ltd., Japan
4. National University of Science and Technology, MISIS, Moscow, Russia
5. P N Lebedev Physical Institute of Russian Academy of Sciences, Russia
6. Zhejiang Sci-Tech University, PR China

## COMPANIES AT CIIRC<sup>®</sup>

1. Aqua Jyothy - *Sea Water to Sky Water, Feel the Purity*
2. Damson 4P Solutions - *Affordable Solutions for Humankind*
3. Green Law - *Embracing a Changing World*
4. Nanosentrix - *Making Innovations Affordable*
5. Nutriarc Pvt. Ltd. - *Nutrition for All*
6. Nutriventz - *Reinventing Nutrition*
7. Unique Food Enterprises - *Save Food, Save Life*

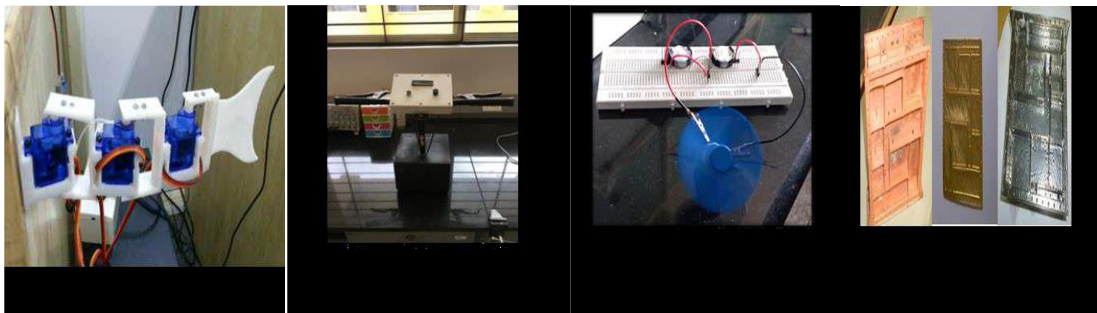
# INNOVATIVE PRODUCTS FROM THE PORTALS OF CIIRC®



Micro air vehicle    3D Printed MICAV    Micro-Amphibian    Embedded Dev Board



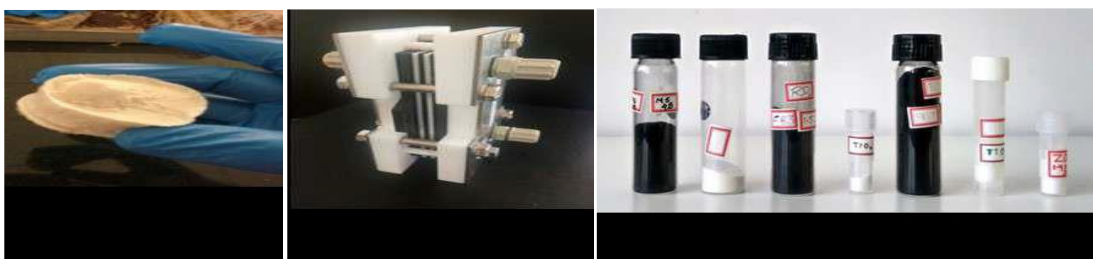
MEMS Dev Kit    Tracking Antenna    Radio Modem    Autopilot System



Robotic Fish    Exercise Toy    Fabricated coin cells    RP Coated Space Parts

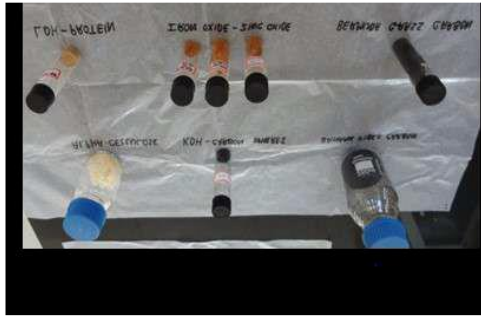


NutriVita    Nutri Sticks    PP Shuttlecock    Haemostatic Material



ChitoSan Scaffold    RFB Cell    CO<sub>2</sub> Capturing Materials

# INNOVATIVE PRODUCTS FROM THE PORTALS OF CIIRC®



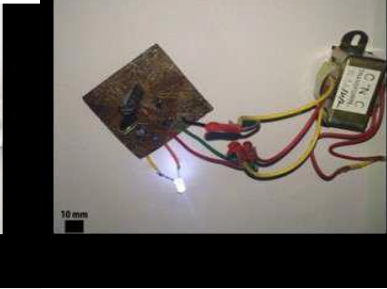
Multifunctional Adsorbents



Biodegradable Plates and Cups



Container/Pots



Biodegradable PCB



Herbal Floor Cleaner



Wound Healing Cream



Turmeric Concentrate



Laminates



DezinfectaHand Wash



Biodiesel



Soap Oil



Floor cleaner



Burn Oil



Bio Boxes



Bio Sensor

## LIST OF FACULTIES

Sl. No	NAME	DESIGNATION	QUALIFICATION	DOMAIN	SPECIALISATION
1	Dr. Krishna Venkatesh	Director	Ph.D(IISc)	Mech Engg	Nano Engineering
2	Dr. C B Mohan	Professor	Ph.D(NAL-VTU)	Mech Engg	Polymer Tribology
3	Dr. S Balaji	Professor	Ph.D(IISc)	Computer Science	Fault Tolerant Systems
4	Dr. Narendra Reddy	Professor & CBT Ramalingam Fellow	Ph.D(Uni. Of Nebraska)	Materials	Biodegradable Materials
5	Dr. Kathyayini N	Professor	Ph.D. (BU) Visitor - Belgium	Chemistry	Nano Catalysis
6	Dr. K G L Bhatta	Professor	Ph.D(VTU)	Chemistry	Environmental Chemistry
7	Dr. Ravi Kumar K	Professor	Ph.D(CFTRI) Post Doc USA	Biotechnology	Food/Enzymes
8	Dr. K Chandrasekhar	Professor	Ph.D(VTU)	Electronics Engg.	Communication
9	Dr. M Narendra Kumar	Professor	Ph.D(VTU)	Mech Engg	Thermal Engg.
10	Dr. M Geetha Priya	Professor	Ph.D(Anna Uni.)	Electronics Engg.	VLSI/Remote Sensing
11	Dr. Umananda Bhatta	Asso. Professor	Ph.D. (Homi-Baba Nat'l Inst.); Post Doc UK	Physics	Nano Physics
12	Dr. H B Muralidhara	Asso. Professor	Ph.D.(Kuvempu Uni) Post Doc IISc	Chemistry	Electrochemistry
13	Dr. Chandre Gowda	Asso. Professor	Ph.D(NITK)	Civil Engg.	Hydraulics
14	Dr. Raghavendra K	Asso. Professor	Ph.D(NITK)	Mech Engg	Steriolithography
15	Dr. Uma Ullas Pradhan	Asso. Professor	Ph.D(Mysore Uni.)	Electronics Engg.	Sensors
16	Dr. Roopa Reddy	Asso. Professor	Ph.D(Uni. Of Nebraska)	Microbiology	Cancer Biology
17	Dr. Soumitra Banerjee	Asst. Professor	Ph.D(IITK)	Food Tech.	Food Processing
18	Dr. G S Nagananda	Asst. Professor	Ph.D(Karpagam Uni.)	Biology	Plant Microbiology

## LIST OF FACULTIES

Sl. No	NAME	DESIGNATION	QUALIFICATION	DOMAIN	SPECIALISATION
19	Dr. Padmashree Anand	Asst. Professor	Ph.D. (Mangalore Uni.)	Material Science	Ancient Indian Metallurgy
20	Dr. Swetha S	Asst. Professor	Ph.D. (Jain Uni.)	Microbiology	Agri. Microbiology
21	Dr. Minichitha U	Asst. Professor	Ph.D. (Jain Uni.)	Chemistry	Catalysis
22	Dr. Swarna Haldar	Asst. Professor	Ph.D. (IITK)	Clinical Nutrition and Dietetics	Food Technology
23	Dr. Skandakumar B N	Asst. Professor	Ph.D(VTU)	Civil Engg.	Highway Engg.
24	Dr. Nayana G Bhat	Asst. Professor	Ph.D(VTU)	Computer Science	Image Processing
25	Sandeep Suryan	Asst. Professor	M. Sc	Biotechnology	Industrial Biotech
26	Deepak V Ingale	Asst. Professor	M.Tech	Electronics Engg.	VLSI
27	Chandan Kumar Sahu	Asst. Professor	M.Tech(IITK), (Ph.D IITB Ongoing)	Food Tech	Food Processing
28	Krishna Kishore J	Principal Research Engineer	M.Tech	Mech Engg	Energy/ Autonomous Systems
29	Prasanna V Bhat	Senior Research Engineer	M.Tech	Mech Engg	DSP
30	Keshav Gowtham	Research Engineer	M.Tech	Computer Science	CNE
31	Chandrashekhar R	Research Engineer	B.E	Chemical Engg.	ETP

## ADMINISTRATIVE STAFF

32	Janardhana L	Accounts Officer	B.Sc
33	Ram A	System Administrator	BCA
34	Madhura M Nadgir	Office Assistant	B.Com
35	Raghu K R	Admin. Assistant	B.Com

## ONGOING FUNDED PROJECTS

Sl. No	Title of the Project	Funding Agency	PI
1.	An Electrochemical Approach to Recover Silk Sericin from Degumming Waste Water	SERB-DST	Dr. NarendraReddy / UmaUllas
2.	Estimation of time series of AAR of Himalayan sub-basins	DOS-SAC-ISRO	Dr. M Geethapriya
3.	Vulnerability of East Coastal Antarctica to surface melt and ponding	MOES-NCAOR	Dr. M Geethapriya
4.	Testing and measurement of Homoeopathic Medicines Potency using their Colligative Properties	AYUSH	Dr. S Balaji
5.	Development of Advanced Composite Pressure Vessels for Hydrogen Storage	DST-ERANET	Dr. MSSantosh / Dr. Muralidhara HB
6.	Digitalization of best-before date of the packaged meats using a Smart Label	DST-GITA (Indo-Swedon)	Dr. S Balaji /Ram Babu
7.	Green Valorization of Sheep Wool Wastes Towards Biocomposites and Bioactive Building Materials	CEFIPRA Indo - French	Dr. Narendra Reddy
8.	Hydrogen Powered desalination system using recycled aluminium: A novel process to extract portable fresh water from sea water	DST (Jointly withCSIR AMPRIBhopal)	SurendraKumar / Dr. MSSanthosh
9.	Thermal Management of Space Electronics using Multi-turn Pulsating Heat Pipes(PHP)	DOS - ISRO	Dr. MNarendraKumar

## AWARDS AND RECOGNITION

Sl.No	Awards/Recognition	Year Awarded
1.	Dr. Krishna Venkatesh, Director, CIIRC, was awarded the <i>Jagadguru Bharathi Thirtha Puraskar</i> by Sringeri Sharada Peetham	2022
2.	Dr. Krishna Venkatesh, Director, was awarded the <i>CNR Rao Award</i> by Karnataka Vignana Parishat, a wing of KSTA	2022

# ATAL ICUBATION CENTRE – JIT FOUNDATION (AIC – JITF)



**Dr. Anantha Prasad M. G**  
CEO, AIC-JITF



**Mrs. Rama Jyothi**  
Incubation manager



**Mr. Nithin Kumar**  
Incubation associate



**Ms. Aishwarya Bagayi**  
Incubation Associate

## MESSAGE FROM CEO

Greetings from AIC Jyothy Institute of Technology Foundation!

India's startup mortality rate came down to 1% in 2021, with a remarkable reduction in the number of dead-pooled businesses, as against 16% in 2016.

This is due to an overall improvement in the startup ecosystem. Investors now look at startups as a viable investment opportunity. Besides, incubators like AIC-Jyothy have played a crucial role in supporting startups in the first two years, when the risk of mortality is the highest. Access to seed funding arranged by incubators like AIC Jyothy, in the form of grants, debt, equity etc., have helped a good majority stay alive.

I take this opportunity to welcome and wish newbies onboard "A Happy Entrepreneurial Journey".

# TRAINING AND EVENTS

## A Workshop on Protein Analysis

The AIC Jyothy Institute of Technology Foundation organized a workshop on Protein Analysis on April 1, 2023. The session was led by resource persons Dr. Ravi Kumar and Dr. Soumitro Banerjee.



## Outreach Program on Innovation and Entrepreneurship

AIC-JITF organized an outreach program on Innovation and Entrepreneurship for the students of Navkis College, Hassan. The session, held on April 6, 2023, was led by Dr. M.G. Anantha Prasad, CEO of AIC-JITF.



## Outreach Program for ISBR Business School Students

AIC-JITF conducted an outreach program for the students of ISBR Business School on April 19, 2023.



## Outreach Program For Krupanidhi College Students

AIC-Jyothy Institute of Technology Foundation organized an outreach program for the students of Krupanidhi College of Pharmacy, Bangalore, on April 28, 2023.



## Workshop on Entrepreneurship and Opportunities in Cyber Security and IoT Devices

AIC-Jyothy Institute of Technology Foundation organized an 11-day workshop on “**Entrepreneurship & Opportunities in Cybersecurity and IoT Devices**” from May 8 to May 20, 2023.



## National Technology Day

A major event took place with the collective involvement of 11 government agencies and ministries, showcasing over 500 technology startups and innovations. The event was inaugurated by the Hon'ble Prime Minister of India, who delivered the inaugural address at 10:30 AM on May 11, 2023. Our startup, Next Big Innovation Labs Pvt. Ltd., participated in National Technology Day, where their innovation was showcased.



## How to Plan For Startup-Legal & Ethical Steps

AIC-JITF conducted a session on “How to Plan for Startup-Legal & Ethical Steps” on 24th May 2023. Mr. Avinash Chandrashekariah founder of Plotnew Bio Innovations Pvt Ltd was the resource person.



## Demonstration on RT-PCR

AIC-JITF scheduled a demonstration of RT-PCR equipment on May 25, 2023. The demonstration was conducted by technical expert Mr. Manikant, who explained the usage of the equipment to the attendees.



## Startup-20

On July 4, 2023, the Startup-20 Gurugram Summit organized by the Startup 20 Engagement Group under the chairmanship of India G-20 concluded successfully. Dr. Anantha Prasad CEO of AIC Jyothy attended the session.



## A Session on Startup Ecosystem

"A Session on Startup Ecosystem" was conducted on 17th July 2023 at AIC-JITF for the students of Dayanand College. Mrs Rama Jyothi was the speaker for the session. Entrepreneurship & Innovation and Funding Opportunities for Krupanidhi Students AIC-JITF conducted a session on "How to Plan for Startup-Legal & Ethical Steps" on 24th May 2023. Mr.Avinash Chandrashekariah founder of Plot new Bio Innovations Pvt Ltd was the resource person.



## A Workshop on GeM Portal and its usage to Startups

Startup India (GoI), in association with AIC-Jyothy, conducted a workshop on "GeM Portal and Its Usage for Startups" at AIC-Jyothy on August 17, 2023. The resource person was Mr. Anurag Awasthi for this program. Mr. Neeraj Khater and Mr. Mukund Lahoty from Startup India represented the program and shared success stories from the Startup India initiative under the chairmanship of India G-20. Dr. Anantha Prasad, CEO of AIC Jyothy, also attended the session.







### Graduate Programs offered at JIT:

- Artificial Intelligence and Machine Language
- Civil Engineering
- Computer Science and Engineering.
- Electronics and Communication Engineering
- Information Science and Engineering
- Mechanical Engineering

### Post-graduate Programs offered at JIT:

- Structural Engineering (CSE)
- Food Technology (FDT)
- Product Design and Manufacturing (PDM)

### Research Programs offered at JIT:

- Biotechnology
- Chemistry
- Food Technology
- Material Science and Engg.
- Civil Engineering
- Mathematics
- CSE and ISE
- Mechanical Engineering
- ECE
- Physics
- Food Technology
- Polymer Science

For admissions, please contact:

The Principal

Jyothy Institute of Technology

Tataguni, off Kanakapura Road

Bengaluru - 560 082

Cell: 98452 41434

email: [principal@jyothyit.ac.in](mailto:principal@jyothyit.ac.in)



[www.jyothyit.ac.in](http://www.jyothyit.ac.in)