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JYOTHY INSTITUTE OF TECHNOLOGY

2022-23



JITIMES

MOVING FROM PERCENTAGE TO PRODUCT



Ananya , ISE



Karthik , ISE



Jhanavi , Civil



Shreyas , Civil



Neha , CSE



Raghavendra , ECE



Rakshitha , ECE



Sai Parimala , CSE



Suyog , ME



Vishal , ME



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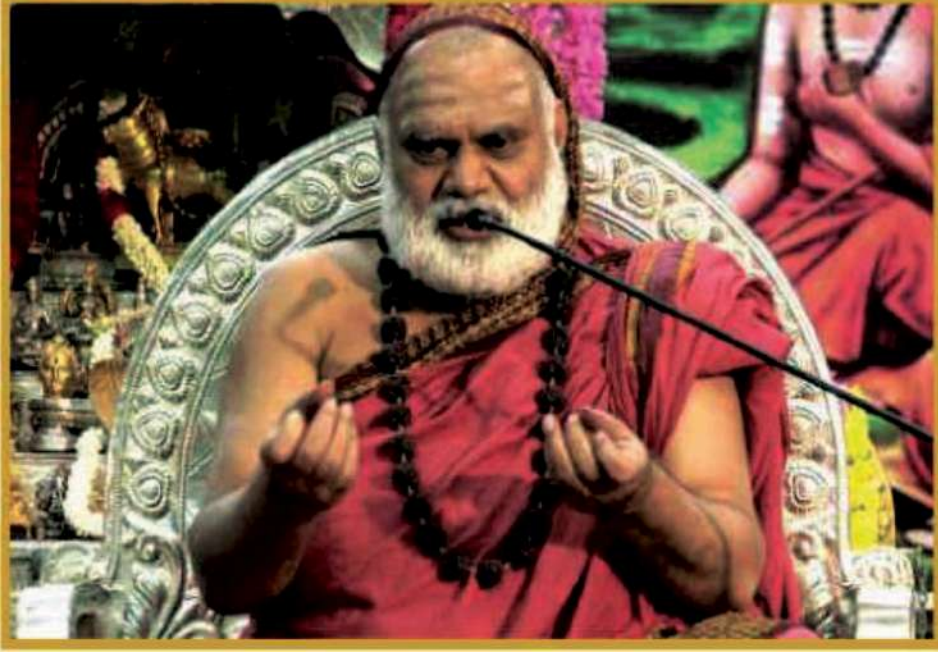
JITIMES

MOVING FROM PERCENTAGE TO PRODUCT

2022-23



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



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



M To provide a vibrant,
I intellectually and
S emotionally rich
S teaching-learning
I environment with
O state-of-art
N 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 rooming 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



B V SEETHA [MAAMI]
“ EMBODIMENT OF HUMILITY ”

**“FROM THE MODEST MANSION TO
THE DOWN TO EARTH DOMAIN”:
BUILDING BIG THROUGH
EXAMPLE AND EXPERIENCE**

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 instill 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 2022 - 23 successfully!

FROM THE VICE CHAIRPERSON'S DESK



“The Charming Chamber: Where the Vice-Chairperson Creates Harmony and Synergy.”

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, education 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 2022 - 23.

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 2021 - 22. The decade young institution has, within a short span 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 2021 - 22

FROM THE PRINCIPAL'S DESK



DR. K GOPALAKRISHNA

**"THE CHAMPION WHO LEADS BY
EXAMPLE AND MOTIVATES OTHERS."**

JITimes 2022 - 23, 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!

Editor's note.....



Mrs. Usha Sundaresh
Department of Humanities (English)

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

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 endeavors 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.

GOVERNING COUNCIL MEMBERS -THE TORCH BEARERS OF JCT

NAME	DESIGNATION
Mrs. B V Seetha, Managing Trustee, JCT	Chairperson
Mr. M Narasimhan, Trustee, JCT	Member
Padma Shri Dr. V R Gowrishankar, Administrator and CEO, Sringeri Mutt and its Properties	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	VTU Nominee
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

EDITORIAL BOARD

Scripting Tomorrow's Narratives: The Editorial Board's Legacy



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M.A (English), B.Ed.
Department of Humanities
Chief Editor



Harsha S
Creative Head
7th Sem ISE



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Sub Editor
4th Sem ISE



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“EXPECTING SURPRISES? UNRAVEL THEM HERE!!”

ANNUAL REPORT - PRINCIPAL
Dr. K. GOPALAKRISHNA.

BEST OUTGOING STUDENTS

G20

GAMEATHON

SMART INDIA HACKATHON

PRANATHI 2023

INDUCTION AND INAUGURATION

FAREWELL REPORT

PHOTOS

DEPARTMENTS OF JIT:

- COMPUTER SCIENCE ENGINEERING.
 - INFORMATION SCIENCE ENGINEERING.
 - ELECTRONICS AND COMMUNICATION ENGINEERING
 - ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING.
 - CIVIL ENGINEERING.
 - MECHANICAL ENGINEERING.
 - BASIC SCIENCE.
 - DEPARTMENT OF HUMANITIES.
-
- LIBRARY.
 - DEPARTMENT OF P.ED.
 - NCC.

TRAINING AND PLACEMENT CELL.

*CIIRC - Centre for Incubation, Innovation,
Research and Consultancy.*

ATAL INCUBATION CENTRE:

- ACADEMIC PARTNERSHIPS.*
- START - UPS.*
- TRAINING AND EVENTS.*

.

ARTICLES.

- STUDENTS.*
- FACULTY.*

ARTS & PHOTOGRAPHY

Jyothy Institute of Technology (JIT) is committed to:



- Impart quality education by establishing effective learning-teaching-learning processes to generate competent engineers and managers with high professional ethics and social responsibilities.
- Create a congenial environment and provide state-of-the-art infrastructure.
- Constantly improve the effectiveness of the quality management system.

JIT completed its **undecennial** in the year 2023. The last 6 years saw phenomenal growth in the institution on several counts earning many an accolade to its credit along the way. The year 2022-23 witnessed JIT achieving several milestones and accomplishments, snippets of which are highlighted below.

INTAKE

JIT successfully completed the inspection by both AICTE and VTU and the overall intake increased from **450 to 480** with the intake of CSE increased from **120 to 180**, mechanical reduced from **60 to 30** and started a **new PG Program in Structural Engineering** with an intake of 18. The admissions for the academic year 2023 are as follows. This year, we have also increased our **faculty to 108**, of which 54(including Research) are with PhD. This year there were totally **79 Lateral Entry admissions** from all the branches.

There are **23 part-time** and **06 full-time Research Scholars pursuing PhD in JIT**. The **intake for PG has had 20 students** join us here at JIT.

An Expert Team conducted data verification of the programs on 27th May, 2022 and 17th - 19th December, 2021. The report submitted by the Expert Team was considered by the concerned Committees constituted for the purpose in NBA.

NBA STATUS

JIT defended its NBA status for three of its programs, computer science and engineering, information science, electronics, and communication engineering for a period of three years till 2025, apart from civil engineering obtaining accreditation for the first time for three years till 2024.

JIT was placed in the **band of 101 to 150** by **NIRF- INNOVATION** ranking for the year 2023.

NIRF RANKING




ARI-C-19593	GEETANJALI COLLEGE OF ENGINEERING & TECHNOLOGY	TELANGANA	101-150
ARI-C-19531	GURU NANAK INSTITUTE OF TECHNOLOGY	TELANGANA	101-150
ARI-C-19515	GURU NANAK INSTITUTIONS TECHNICAL CAMPUS	TELANGANA	101-150
ARI-C-37083	HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY	TAMIL NADU	101-150
ARI-C-19850	HYDERABAD INSTITUTE OF TECHNOLOGY & MANAGEMENT	TELANGANA	101-150
ARI-C-19615	J. B. INSTITUTE OF ENGINEERING AND TECHNOLOGY	TELANGANA	101-150
ARI-C-6260	JIS COLLEGE OF ENGINEERING	WEST BENGAL	101-150
ARI-C-45308	JYOTHY INSTITUTE OF TECHNOLOGY	KARNATAKA	101-150
ARI-C-24983	K. RAMAKRISHNAN COLLEGE OF ENGINEERING	TAMIL NADU	101-150
ARI-C-25054	K. RAMAKRISHNAN COLLEGE OF TECHNOLOGY	TAMIL NADU	101-150

GOOGLE CLOUD COURSES AT JIT

I am N KOTRESH GOWDA, studying 1st Bachelor of Engineering in Information science and engineering at

Jyothy Institute of Technology, Bengaluru. It feels happy to share that I am the student mentor of Google Cloud Computing of JIT.

Being a mentor for Google Cloud Computing is one best thing and being a mentor it will help several students in this aspect. Under the guidance of Institution Mentors Dr. Manoj Kumar M, Associate Professor, Dept. of CSE and Mr. Manjunath C, Programmer, Dept. of CSE, it is planned facilitate Google cloud courses to the interested student to enhance their skills. So, I assure that I will do my level best to suggest students and help them to cope up with Google Cloud Computing. Being a Google Cloud Computing student mentor is an enriching experience. Guiding students through cloud concepts, services, and projects helps them grasp practical skills. This will also help to develop myself a lot in self growth also.

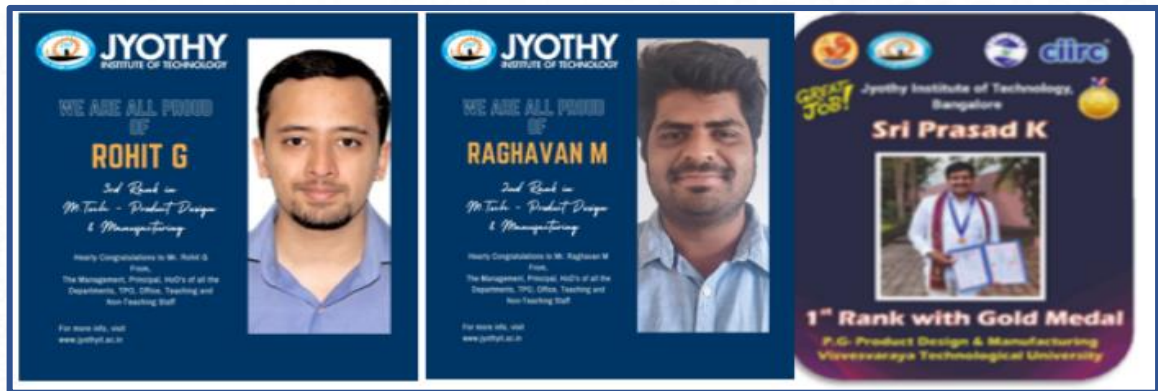


N KOTRESH GOWDA
GCCF Institution Mentor
JIT, Bangalore

UNIVERSITY RANKING

JIT secured two ranks, 2nd and 3rd Rank in the PG programme of **Product Design and Manufacturing** in the year 2022. **Mr. Raghavan** and **Mr. Rohit** secured 2nd and 3rd

Rank respectively. Both were honoured in the farewell function organised for the outgoing students of our institution. In the previous year, **Mr. Prasad** secured first rank in the same PG programme.



The World Language Club conducted a **Japanese Tea ceremony** event and introduced Japanese culture to the participants. **50+ students** were trained in **Japanese language** and **10+ students** have passed various levels (**N5, N4 and N3 levels**) of certification conducted by

WORLD LANGUAGE CLUB



the Japanese Government. **70+ students** were trained in elementary **French language**. The interest shown by students to learn foreign languages is phenomenal. From the forthcoming academic year, the club intends to introduce German language as well.

PLACEMENTS

Jyothy Institute of Technology (JIT) has been consistent runner in providing placement support, not only to our students but also for

the society. It is proud that our students are highly rated by employers from industry, private & public sectors. Offering information, advice, guidance & support for jobseekers is considered a primary responsibility of JIT. The placement & training department is provided with well-equipped conference, training room, separate well-furnished Group Discussion (GD), HR, Technical, Interview & counselling rooms.

The number of placements done peaked in the year 2023 with the numbers touching 186 offers with a highest package being **45 Lakhs in VIRTUSA, USA**. Two of our students were placed in **Japan with a CTC of 21 Lakhs** through fourth valley corporation.

Placement report 2023

Branch	A Total students	B Eligible students	C Total offers	D Multiple offers	E Unique offers	E/B	E/A	C/B
CSE	118	115	86	24	62	53.91	52.54	74.78
ISE	60	60	47	9	38	63.33	63.33	78.33
ECE	53	41	42	10	32	78.04	60.3	102
MECH	24	8	7	1	6	75	25	87.5
CIV	24	7	4	0	4	57.14	16.66	16.66
Total	279	216	186	44	142			

Highest Package Till Date:
In India – ₹30,00,000 PA At Amazon
In USA – \$55,000 PA At Virtusa

FACULTY DEVELOPMENT PROGRAMME

JIT jointly with VTU conducted a **Faculty Development Programme on Recent Advancements in Data Intelligence and its Applications**. There were 50 registrations for the FDP from VTU Colleges. The experts for the FDP were drawn from reputed universities and domain experts abroad.

IEEE-CSE Chapter started in the Year 2023. The **IEEE- CSE Chapter** was named as **Technophilia** as shown in the image above.



The IoT club of JIT was inaugurated in the month of July 2023. This would facilitate students to execute projects on IoT. This club started off its activities through a treasure hunt event. The students who registered for the competition were instructed to hunt for the parts of a circuit of IoT, assemble them and execute the project.

CREA- IOT CLUB

The **annual gift distribution** was held gifting the heads of all departments and the faculty of JIT family.

Sri. Narasimhan, the Vice- Chairman, JCT, delivered the presidential address followed by vote of thanks. The event was concluded with a group photo and sumptuous lunch.

PRINCIPAL'S MEET AND WORKSHOP ON ROBOTICS AND AUTOMAION

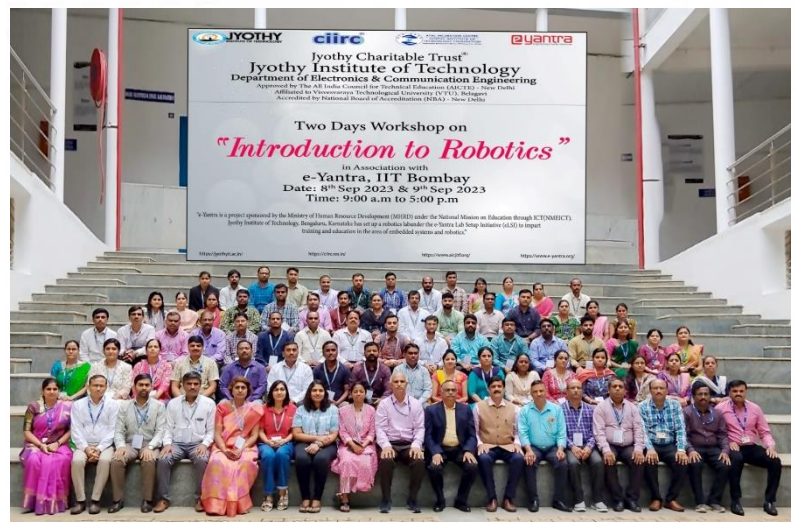
JIT has been associated with e-Yantra Laboratories for Social Innovation(e-YLSi), **an initiative of IIT Bombay**. A team of faculty members of the department of ECE won the Class A task-based training competition and JIT was eligible for establishing the e-Yantra lab on our campus. **The e-Yantra lab is functional since 2021**. This year, e-YLSi has chosen JIT as nodal center to conduct the principal's meet followed by the workshop for faculty from other institutions who are yet to start the e-YLSI lab. The event was scheduled on 7th, 8th and 9th September 2023. Principals from 25 Engineering Institutes and Polytechnics attended the meeting on Day 1 and the workshop for the faculty members of their college was held on Day 2 and 3.

Robotics Lab

e-Yantra Labs, IIT Bombay

The institution facilitated training of four of its faculty, two each from ECE and Mech, on robotics through e-Yantra, an IIT Bombay initiative that aims to create the next generation of embedded systems engineers with a practical outlook to help provide practical solutions to some of the real world problems. After the training, the trained faculty were given tasks to perform & based on the performance e-Yantra allowed us to establish the lab. After successful completion of the certification, e-Yantra has given its consent to start the Robot lab on our campus. The investment is to the tune of 2 Lakhs. Orders have been placed with e-Yantra labs (Nex Robotics) for the procurement of the modules of the lab

eYantra
Empowering a better tomorrow



JIT has close to **57 publications** in various journals in the years 2021-22. Of these nearly 31 are in Q1, Q2, Q3 & Q4 Scopus indexed journals (Jan 2021- Dec2022). JIT also identified more than 10 novel project work done by students and most of them are registered for the award of patents through a patent attorney. Department of CSE, Civil and Mechanical Engineering did some consultancy work for the department.

PATENTS & PUBLICATIONS

SPORTS ACTIVITY

JIT is host to a sports competition **Jyothy Premier League** for faculty, Staff of CIIRC & AIC-JITF for the year 2023. The venue is Sheen Sports Academy, Kaggalipura, Bangalore.

JIT has been encouraging students to participate in both Curricular and Extra Curricular activities. JITians have won many laurels in the sports/games too. In this year sports competitions held by VTU, one of our student **Mr. Jeevan** won the triple jump **Gold and Silver** in Long Jump. Dr. Krishna Venkatesh Director, CIIRC, awarded a cash prize of Rs. 5000 to Mr. Jeevan. He has been awarded the **best athlete of the year by VTU**. The management was gracious to offer merit scholarship through fee concession of Rs. 20,000 to Mr. Jeevan.



Ms. Sushma won the gold medal in the swimming competitions of VTU.

The annual sports meet in a new sports arena: Sheen Sports Academy at Kaggalipura. All competitions such as Cricket, Volley ball, Shuttle Badminton, Tug of War and Throw Ball were held in the academy.

JIT stands in the **4th Position** and won the institutional award of VTU for the top 10 institutions for sports excellence. The award includes **1 lakh cash prize**.



Visvesvaraya Technological University, Belagavi
"Jyotsna Sangama", Belagavi - 590 016, Karnataka
Department of Physical Education & Sports

Listed below Institutions are recommended for the Institutional Cash Award of Rs. 1 Lakh to 10 Colleges as per their participation and achievements in the Sports & Cultural activities during the year 2022-23.

The Sports sub-committee recommended in the meeting held on 21st & 22nd August 2023 at VTU Campus, Belagavi, based on points scored by the Institutions.

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



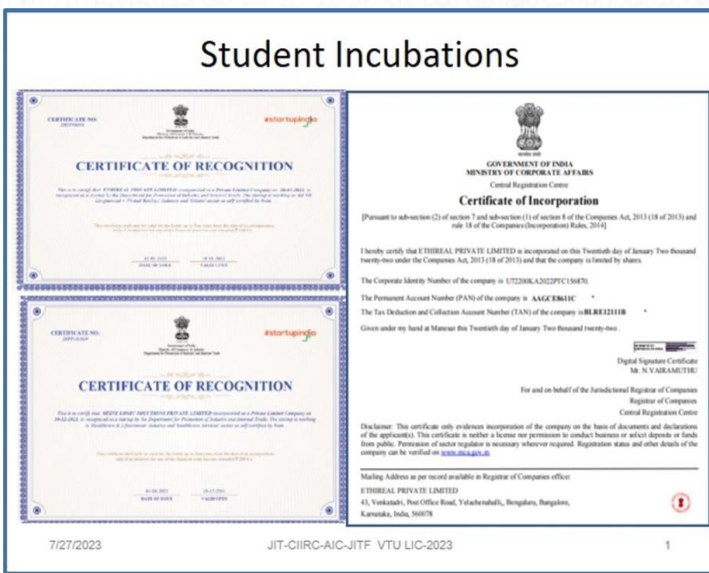
Ms.Sanjana Hiremath, a student of our institution, has won the **3rd Place in power lifting at VTU** in the power lifting competitions held on 7 & 8th of Sep 2023.

Mr. Tarun, a student of our institution, won the **Bronze medal in the VTU weight lifting** competitions held in the month of September 2023.



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 in still in them an eagerness to explore new frontiers of science and technology.

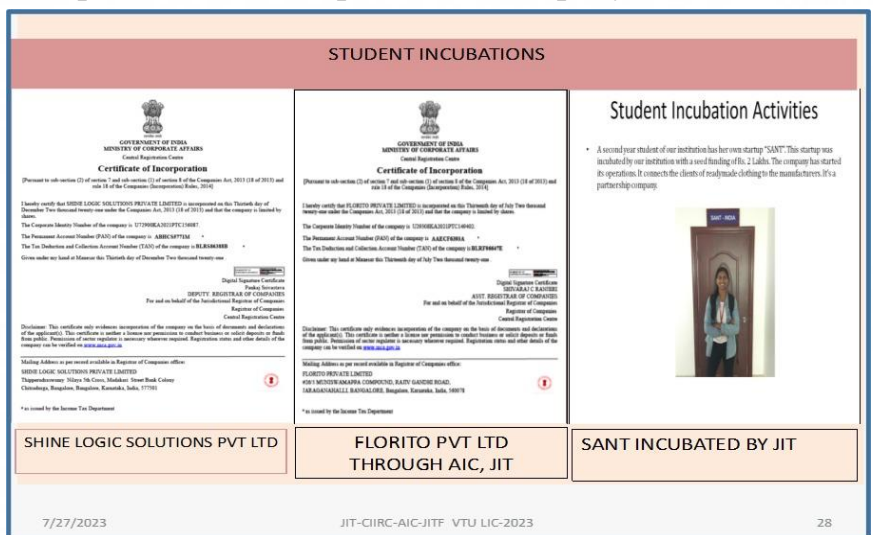


STUDENT INCUBATIONS

The institution helps students launch their own company at the campus. JIT supports such start-up ideas and encourages students to nurture the idea of entrepreneurship on a continuous basis through awareness programs conducted throughout the year.

Two of the student startups **Shine Logic Solutions Pvt Ltd** and

Ethreal Pvt Ltd have been active in this academic year. One of these startups, Ethreal Pvt Ltd, was into design and develop a medical gadget for the mentally disabled people. The college has provided with seed fund for the development of the gadget. With the product ready, the AIC-JITF will provide fund to operate the company. On 20/7/2023, the entrepreneurship development club (e-EDC) of JIT was inaugurated by Dr. Hiriyanna from ISRO and the office bearers of the club are into promotion of entrepreneurship skills in the students. The club shortlisted 12 novel ideas and the same were presented to the authorities of the college.



PTM

All departments conduct regular Parents-Teachers 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 grievances, 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.

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.

AISHE

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.

INTERNATIONAL SAE AERO COMPETITION, USA



JIT has been participating in the SAE AERO global competition since 2019. A batch of students participated in the competition in the year 2023 at Lakeland City, Florida, USA, and stood **9th globally in the Micro class category**. There were 44 team participators in the competition across the globe. The result sheet is attached below.

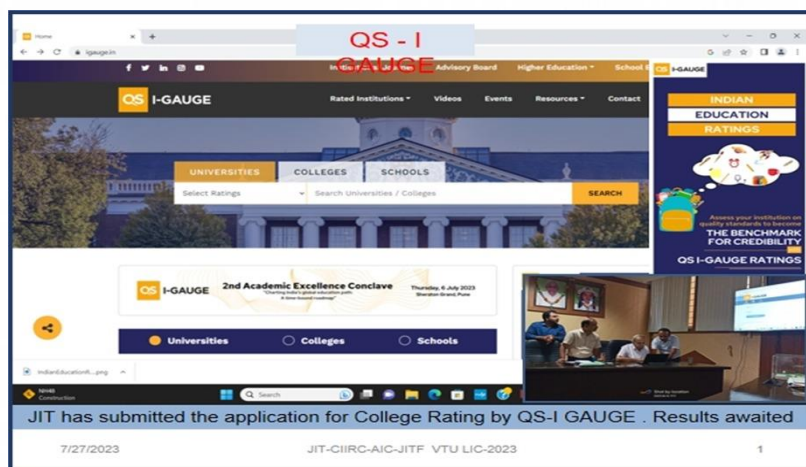
OVERSEAS EDUCATION

JIT has established an 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. It nurtures 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.

QS-I GAUGE CERTIFICATION

JIT has submitted an application to get certified by **QS-IGauge**. This

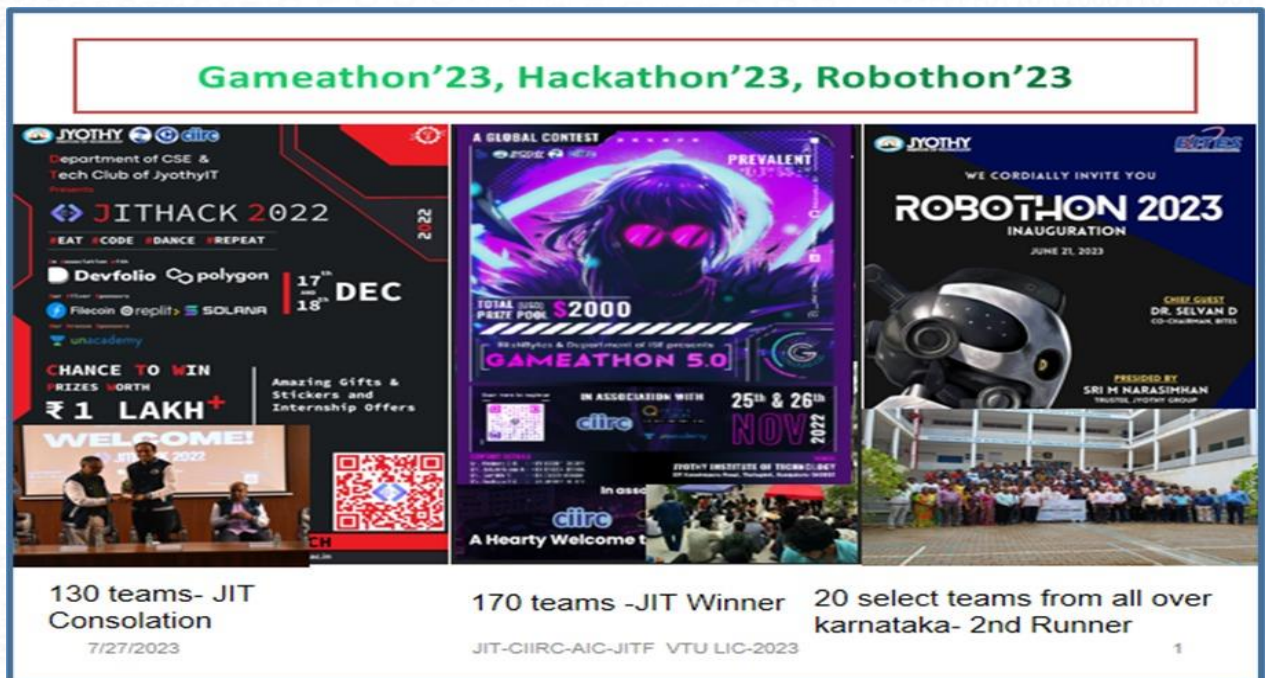
organization certifies Universities, Colleges, and Schools too. **The QS - IGauge certifies Indian education quality.** This will be a precursor to the next cycle of the NBA. The certification would help us assess our quality. The results are awaited.



VROOK LEARNING

JIT has initiated **VROOK Video Learning for the first-year students** in courses considered difficult by them. This is video platform to specifically reach out to fresh students. **VROOK, an Ed-tech product**, is a web and mobile application to provide immersive and interactive visual learning experience. As students find it difficult to visualize and learn effectively, VROOK facilitates them to absorb concepts and fundamentals through interactive and immersive visual content.

INTERNATIONAL AND NATIONAL COMPETITIONS



GAMEATHON 5.0

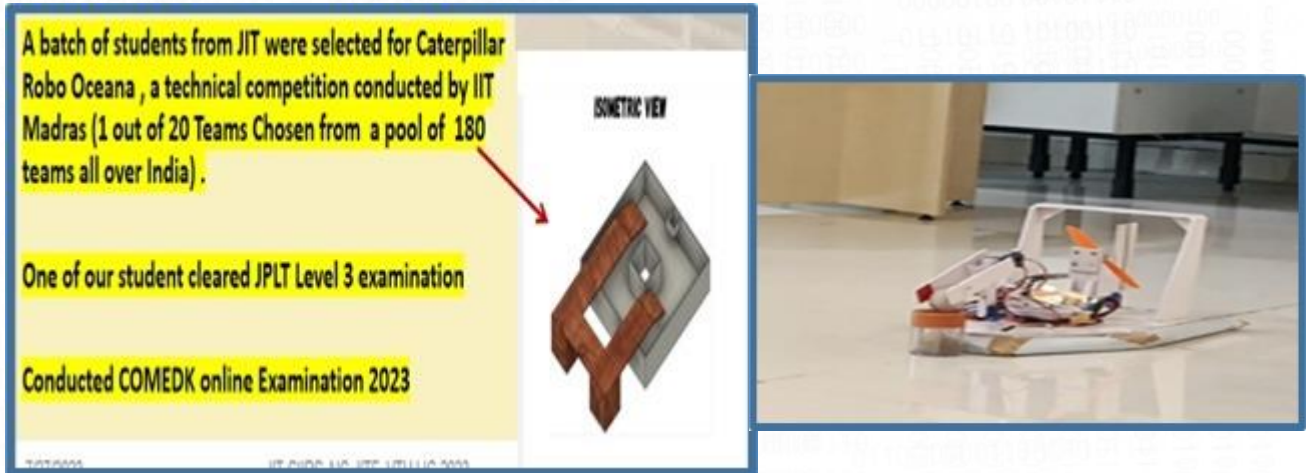
The Gameathon is a technical competition where the competitors will stay indoor for 24 continuous hours. The task of developing a Video Game will be assigned to each group of students. The juries will assess the performance of each group through regular audit throughout the night. The students will be provided with food and retiring rooms to relax. The participants will be trained for a period of one week on a hybrid mode before the competition. In the 5th edition of this year, **170 teams participated**, of which 140 were on campus and the rest went online. There were teams from institutions abroad. The prizes were given to both the categories. **Students of JIT bagged the first place in this competition this year.** The ISE department is the host of this competition with the other departments pitching in as co-hosts.

The Hackathon is a technical competition where the task will be concept based. The competitors will stay indoor for 24 continuous hours. The challenge is to do coding for a particular task in the light of the task. The juries will assess the performance of each group through regular audit throughout the night. The students will be provided with food and retiring rooms to relax. In the 4th edition of the Hackathon this year, **140 teams participated.** Students of JIT won a **consolation prize.** The CSE department is the host of this competition with the other departments pitching in as co-hosts.

HACKATHON 4.0

ROBOTHON 1.0 JIT, jointly with BITES (Board of IT Education Standards) and VTU organized a robotic competition for students from all engineering and diploma students of our state. **BITES selected 20 teams from state based on an assignment.** Those 20 teams were invited for

the competition. It was an 8-hour competition. The juries were from IISc. The JIT students bagged 2nd runner prize. The CSE/ECE department is the host of this competition with the other departments pitching in as co-host



- A batch of students participated in the robotic competition, **RoboOceana conducted at IIT Madras.**
- JIT students participated and won several Gameathons/Hackathons this year. A student of our institution Rohith – a member of the team Viyukta won 1st Place in Hackathon conducted by **IMF & Ministry of Finance, Yemen at Amman Jordan.** He was also invited by the Government of Dubai. He participated in **international Hackathon at Dubai.**
- Close to 48 students participated in the Gameathon competition conducted by **Adishankara institute of Engineering and Technology, Kalady, Kerala.** Students of JIT won awards in **5 verticals** such as Best design, Best Music, Most Novel approach, etc.
- A team of students of CSE participated in the Hackathon organized by IIT Sri City **Andhra Pradesh and won second runner up award.**



UNNAT BHARAT ABHIYAAN

JIT has registered for **Unnat Bharat Abhiyaan (UAB)**, an **MHRD initiative**, wherein an institution acts as nodal centre for five villages. As a nodal centre, JIT visits chosen villages, listed and send their problems to the central government. In order to support lower income people whose jobs are insecure and short-lived, JIT seeks to develop a low cost, solutions to alleviate these problems.

IT students also participated in several Project Exhibition competition held at many institutions. Notable ones are the **first place won at AIT chikkmagaluru**, **second place at GSSS, Mysore** and Mini project won at DSATM Bangalore. JIT also conducted its Project exhibition competition for final year JIT students.

PROJECT EXHIBITION



BLOOD DONATION CAMP

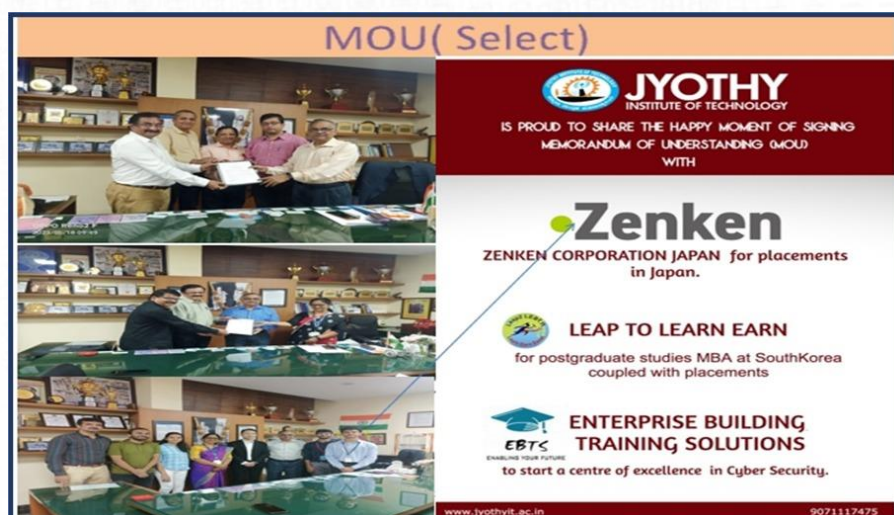
Blood Donation Camps are organized annually in association with **Red Cross India** at the campus during the odd semester of the academic year. NSS student volunteers help the organizing committee in making all arrangements necessary for the event. All donors are provided with certificates of appreciation, donation cards and refreshments. The event receives good response with around **100 units of blood collected under normal circumstances**. Jitians take the initiative to take care of the hospitality of the visiting doctors, paramedical staff and the organizing team members.

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.

JIT entered into an MOU with many organizations. Selective MOUs are with **Zenken Corporation Japan for Placements**. JIT is offering foreign Language Classes for students. It offers Japanese and Korean language proficiency classes for students. Currently, about 100 students are learning Japanese, and 20+ students are learning Korean language. JIT also celebrated Japanese Habba by inviting Guests from the Japanese consulate.

MOUs



JIT also signed an MOU with Enterprise Building Training Solutions (EBTS) for establishing a **Centre of Excellence (CoE)** in Cyber Security. JIT has engaged EBTS for skill training on Cyber Security under the CoE agreement. JIT has signed an MoU with Leap to Learn Earn, to facilitate our students to pursue their MBA in Korea and then seek a job in USA enroute to Korea. **JIT ECE signed an MOU with CELEMONDS SOLUTIONS PVT LTD** and Tejus Networks for Internships, training & consultancy through a COE.

NSS UNIT

The NSS Unit at JIT, represented by its coordinator, other office bearers and student volunteers, works tirelessly for several social causes. It conducts regular and special activities that shape the personality of an individual towards fulfilling societal needs and nation building. **The objective of NSS is community service through education.** Various activities are conducted under the aegis of NSS every academic year including plantation by students, cleaning drive, Independence Day celebration, blood donation camp, Fit India marathon, celebration of „Constitution Day“, NSS Day, Swamy Vivekananda Jayanti, Yoga Day and Republic Day celebration

IPR

The institution also provides **Intellectual Property Rights (IPR) protection support for faculty and student innovations**. The department of civil engineering filed a patent on “Process for the Preparation of the preparation of Light Weight Geo-Polymer Tiles”, The department of information science and engineering obtained a copyright for their literary work (a computer program) entitled, “**Yield Estimation of Food Crops**”. Students get ample opportunities to get involved with companies incubated at AIC - JITF, depending on their requirements, to broaden their perspective and suggest new and innovative product and/or process ideas that can be protected through IPR.

ZERO DAY

JIT management arranged a zero day for all staff of JIT, CIIRC and AIC. All were taken to a nearby resort to enjoy their day.

JIT also celebrated **Shankara Jayanthi, Ramanuja Jayanti, Purandara Dasa Jayanti**. The students cultural Club, ‘**Kala Milana**’, performed on stage. The club presented popular devotional songs to the audience.

Celebrations & Faculty Outing

- All the faculty were given an opportunity to vent their stress by organizing a zero day to all faculty and staff of JIT, CIIRC and AIC-JITF. All staff were taken to Wild Valley Mountain Bear resort near Ramanagara.
- JIT celebrated the Republic Day 2022 with all pomp, glory and spirit. It also celebrated the IPR Day, Independence Day 2022, yoga day 2023, Teachers Day and Engineers Day 2022. For the Engineers day Mr. Manjunath Chandrashakar from Celonis and Mr. Anil Borkar from applied Materials, were the guests. The gifts were distributed to all faculty and staff of our institution.



7/27/2023

JIT-CIIRC-AIC-JITF VTU LIC-2023

1

The institution has an **Anti-Sexual Harassment Cell and Anti-Sexual Harassment** squad to provide a risk free, safe and healthy environment for female faculty and students. It has also setup a napkin vending machine in a strategic location. The squad is active round the clock to ensure strict adherence to accepted behaviour and accepted norms. Senior faculty members constitute the ASH cell and issues, if any at all, is resolved immediately. Class teachers and mentors are also involved in the process.

ASH

FAREWELL FUNCTION

The farewell function was conducted to bid farewell to the **2019 batch** students on 27th May 2023. **Dr. T N Srinivasa, Registrar Evaluation, VTU was the chief Guest. Dr. Srinivasa** in his address highlighted the new initiatives to VTU students after he assumed office as Registrar. He appreciated the efforts of the management to support the underprivileged. He said JIT is one among the very few colleges with ethics and Human values. Most colleges have reduced education to a business model and if there are exceptions, JIT is one, he said. The Gold ring with a citation was presented to the best outgoing student of our institute. The other best outgoing students were presented with a silver ring & citation. The Rank holders of our institute were also felicitated in the function. All students were presented with a memorable gift. The help and support rendered by our GC member Dr. Nagaraja HS must go into this record. I acknowledge sir's help in identifying the topper of the college through an interview.



Gold Ring with Citation to best outgoing student of 2023

JIT also celebrated its **Annual Cultural Fest Pranathi 2023** On 8th and 9th June 2023. The cultural Fest was inaugurated by **Sri. Kaviraj**, a lyricist of Kannada film industry.

On day one the intercollegiate competitions were held in the morning and afternoon sessions. In the evening the Fashion show and group dance competitions were held. The response was overwhelming. The second day morning several competitions were held. The winners were judged by Juries from industry. On day 2 evening, the **ALL OK** rapper team performed on stage. More than 2000 students witnessed the concert. Mr. Prajwal Devraj, Cine Actor, Ms. Ragini Dwivedi Cine actress were on stage for a while to enthrall the crowd. The event generated a sponsorship of close to **6 lakh rupees**. Few sponsors to mention are Milky Mist, Quantech Origin, SJS, Mitra and Co, Good Earth & so on.

THE JIT FEST-PRANATHI

The management provided the German Hanger for the event



The inaugural function of the first year classes was held on 19-11-2022. **Padmashri Dr. V.R.Gowrishankar**, Administrator and **CEO of Sringeri Sharada Peetam** was the chief Guest. **Dr. P B Kotur, GM, Wipro** was the other chief Guest. Dr. VRG sir emphasized that only academic learning is just not enough. If a student wants to succeed, then he or she should strive hard. Dr. P B Kotur said every student is expected to be **SMART**. S stands for Skills/ Sincerity/ Seriousness/ Serendipity. M stands for Mannerism. A stands for Attitude/Alignment to Culture/ Alignment to lab/ class, R stands for Relearn after you unlearn, re imagine and T stands for Talent, Technology, tools, tolerance.

INDUCTION & INAUGURATION



SKILL TRAINING

The skill training for the batch of 2022 was conducted in 3rd and 4th Semesters.

The training was offered on 6 verticals.

IoT, HTML, Cyber Security, Data Sciences, Amazon Web Services & Red Hat Technology were the verticals for training. A student will be trained for nearly 20 full days and each student will be given a task to perform. This would help students to enhance their knowledge on latest technologies and increase their chances of getting placed in reputed multinational companies.

This apart CIIRC has pitched in with high end research training on niche areas. Five different training modules are offered.

- Experimental verification of fundamental differences between metals, semiconductors & insulators
- Space technologies and its applications
- Electronics and IoT for Industrial applications
- Molecular identification of microbes
- Fundamental aspects of biology for computational applications
-

Faculty Performance Appraisal and Development Scheme is an internal faculty evaluation process instituted by JIT. Its objective

FPADS

is to identify and recognize meritorious faculty members based on certain criteria established by a core JIT team headed by the principal. FPADS, thus, seeks to assess the overall contribution of faculty to academics, self-improvement, and participation in training and development activities of the institute.

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 purposes. 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).

The institution has recently installed a **Roof Top Solar Power Plant of 350KW capacity** as a

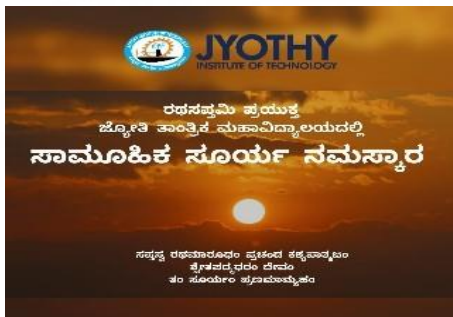
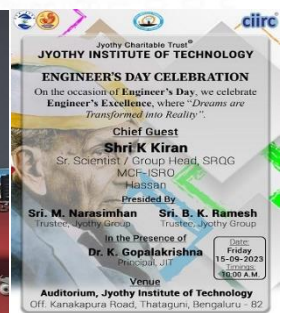
SOLAR PLANTS

green initiative. Power generation is monitored via net metering. The power will be evacuated to grid when required. Power produced till date is in excess of **1,30,000KWh**. The plant consists of 47 strings with each string having 18 or 20 modules, adding up to a total of 900 modules. It has 5 inverters with a capacity of 70kVA.

OTHER ARCHIEVMENTS

- **JIT also took part in PARAK, National Digital Repository, KARMA and KAVACH Schemes of AICTE.**
- **Ten** patentable innovations/findings were sent to **Patent attorney for patenting**. Of these, **three** patents: **Rangoli machine, Electric push cart, Reliable Gas Geyser Protection System** were filed on 26th June, 2023
- For one of the patents filed earlier titled "**Real-Time Alert Device for Motorcycle to check the Critical Lean Angle**", the reply to First Examination Report (FER) by the Patent Office has been submitted.
- **Two of the faculties from ECE Dept.** were raised to **Senior member** position by **IEEE**.
- **Lila Poonawala Girls scholarship** (Rs. 60000 each) was offered to **12 girl** students of JIT.
- One of our students has been selected for 1 KAR BN (One Karnataka Battalion) 1/2 COY Bangalore A group.
- **National Youth Day** was celebrated by the NCC cadets from all colleges.
- **Infosys springboard** has been implemented for the students.
- Prof. and HOD of AIML, **Dr. Madhu B R**, was the winner in **TT international championships held at PESIT**
- Celebrated Voters' Day. Convened a talk on public policy
- Booster Dose Covid Vaccination Camp was conducted on 23rd and 25th January, 2023.
- The physical activities related to Social Connect and Responsibility, culminated in a drama was played by the participants. Students visited a farm to know about farming.
- **Sri. Praveen Kamath who is the GM-HR of WIPRO** visited our campus; he planted a sapling on campus.
- The **SI of Kaggalipura, Mr. Vijay Kumar** addressed students on the **aspects of safety and issues with respect to drugs and alcohol in the society**.
- JIT signed an MOU with **Youth for Seva** to jointly organize AICTE and NSS activities on 11th Sep 2023.9.13
- JIT received the Consistent Partner award from Prodevans, a Red Hat Training company, on 12 th of Sept' 2023.
- The **Cyber Security Centre of Excellence** was inaugurated by **Prof. Kavi Arya PI , e-Yantra Labs, IIT Bombay**
- The ICI chapter of civil engg department won the outstanding Indian Concrete Institute students chapter- Ultra Tech Award 2023. The award will be presented at Sherton Grandon, Bangalore on the occasion of ICI- ULTRATECH CONCRETE DAY CELEBRATIONS.
- The career development cell has been supporting students to pursue their higher studies and internships.
- JIT was host to entrepreneurship promotion through **IDEA contest**.

- Students of ISE made a visit to MCF, ISRO Hassan on 18th August, 2023.
- A Poster Presentation Contest was conducted for the fourth semester students on UHV on 17th August, 2023.
- The hostel day for boys and girls was celebrated on 14th and 16th August, 2023.
- JIT also conducted Har Ghar Dhyam for to all students on 16th August, 2023.
- JIT celebrated the Independence Day. The prizes for the winners of the staff sports meet were distributed.



JIT has an in-house Sewage Treatment Plant (STP) with a capacity of **250,000 LPD** (litres per day). It uses effluent water from the hostel, canteen, rest rooms, and other sources from within the institute premises and converts it into water reusable for gardening and agricultural purposes.

SEWAGE TREATMENT

NEW SPORTS COMPLEX

Sprawling New Sports Complex is being constructed to promote indoor sports and games in a big way. The Complex is expected to be completed soon with the construction activity in full swing. It will also house a multi-gym to promote a healthy body. The management is leaving no stone unturned to ensure the availability of the best of infrastructure and services to its students and staff. In keeping with this vision, a full-sized swimming pool is also envisaged very soon.

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

MEMBERS OF INSTITUTION

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

REASERCH CENTERS

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

COLLEGE COMMITTEES

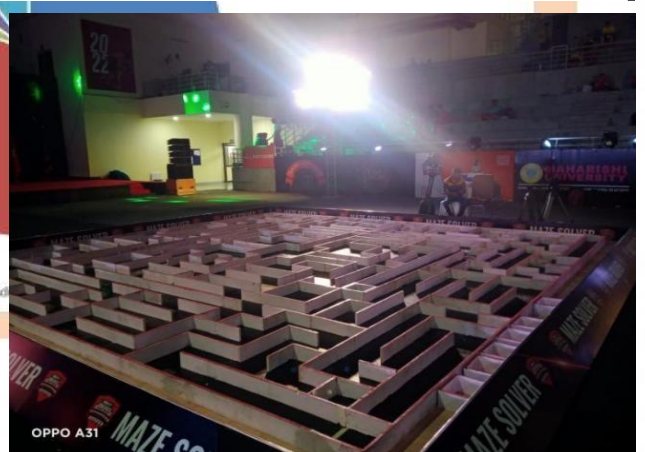
- Alumni Interaction Cell
- Infrastructure Development Committee
- Anti-Ragging Committee
- Internal Complaints Committee
- Anti-Ragging Squad
- JITimes Magazine Committee
- Anti-Sexual Harassment Cell
- Jyothy Cultural Committee
- Anti-Sexual Harassment Squad
- Jyothy Sports Activity Team
- Ethics & 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

ALUMNI CELL

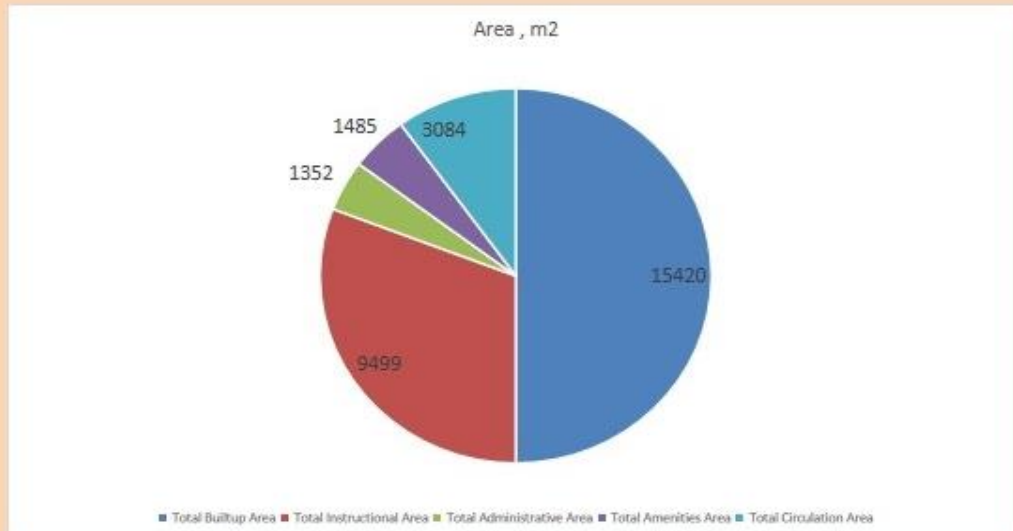
JIT has an active, registered Alumni Cell. Office bearers are chosen and provided with the necessary infrastructure to ensure key operations. An alumni group is working on developing software for student data archive and retrieval with the guidance of placement officer. The concept of alumni association evolved from the need to create a win-win situation for both academicians and working professionals with the aim of bridging college life as students and corporate career as professionals, so that fresh graduates get proactive to tide over the ever-changing challenges of the competitive world. JIT Alumni Association was formally registered on December 11, 2018 under the name and style of “Alumni Association of Jyothy Institute of Technology”.

TECHNOXIAN

JIT students also participated in the **TECHNOXIAN**, the world's largest Robotics competition at **Noida, UP**. Five teams participated in the competition. Two in the line follower category, two in the drone sector and one in Robo-race. None of them had a podium finish. However, this experience would come in handy for students to prepare for the next year competition. JIT is also planning to host a similar event before Dec 2023.



Area , Sq. m



System details - JIT

Sl no	Desktop	Desktop for students	Printer/Scanner	Switches /Routers	Thin client
1	542	439	38	52	118

Projector Details

Sl no	Service Provider	Connection Type	Speed in MBPS
1	City Online	1:1 unlimited	150
2	City Online	Broad Band	25
3	City Online	Broad Band	25
4	Airtel	Broad Band	10

UPS/Generator Details

Sl no	Model	Rating
1	Powertron	45 KVA
2	Powertron	30+30 KVA
3	WEP	30+30 KVA
4	Powerica	250 KVA
5	Powerica	75 KVA

Sl no	Projector / TV	Quantity
1	Classroom & Labs	37+(4 reserve)=41
2	seminar Hall	4
3	Auditorium	1
4	Principal Room & Board Room	2

System Details – CIIRC

Desktop

Intel Core i5 7400 6M Cache 3.5 GHZ	Gigabyte GAB250M-D3H	Corsair DDR4 8GB	1 TB Seagate	Dell "19.5" E2016HV	Logitech M200/USB	50
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WorkStation

Intel Core i7-5960xbcore 3.0 GHZ	Asus x99-All	DDR4 3000MHZ 64 GB	120GB/1TB	Dell "19.5" HDD2015H	Logitech M200/USB	Zotac GTX_960 DDR5 4GB	Zotac GeForce S12 MB	Intel X550-TINIC	Antac750W	15
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infrastructure details

Infrastructure created for the Academic Year 2022-23

- New class rooms: 8 rooms with audio, Video
- New Computer labs: 3 Nos, Two for ISE – One with Hardware, One for ECE
- Project Lab for CSE
- Green Initiative: RWH installed
- CoE in Cyber Security
- CoE in PCB
- Xilinx for ECE
- Cadence for ECE



International Conference on Interdisciplinary Approaches in Civil Engg for sustainable Development (IACESD 2023) 7th and 8th July 2023

Organizations / Societies Involved

Vivekananda Technological University
 Prof. B. E. Rangarajan
 Registrar
 Date: 28 APR 2023

CIRCULAR

Ref: Participation in International Conference on Interdisciplinary Approaches in Civil Engineering for Sustainable Development (IACESD-2023), 7th & 8th July 2023 from Jyothy Institute of Technology, Bangalore.

POSTER PRESENTATION

happiness
freedom
glory
trust
affection
reverence
care
respect
love

Theme: LIFE - A SELF EXPLORATION
 Art Work, Collage, Painting

Other Events
 Shankara jayanthi & Ramanuja Jayanti



Thanks Note

My sincere heartfelt thanks to our beloved principal Dr. Gopalakrishna sir for giving me an opportunity to facilitate the meditation sessions for our work under the theme "Jyothy Meditations". I thank our HODs Dr. Chandrasekhar sir for all the support and also HODs of various departments for their kind gesture and co-operation. I thank Dr. Jayaprakash sir for forwarding mandarin mandarin every day in the group on behalf of me. I thank my dear colleagues for taking photographs of the sessions and being with me. I thank all my teaching and non-teaching friends for being friendly to take active participation in the sessions and making it successful. Once again thank you.

With Love and Regards,
 Dr. Mahadevan Srinivasan



Jyothy Ratna puraskar for 2 personalities who served the society



Blood Donation Camp on 9/6/22



HR-TPO Conclave 2022 @ Mysuru



NCC Tree Planting Activity



NSS Blood Donation Camp



Gift to Faculty



ART OF LIVING Activity



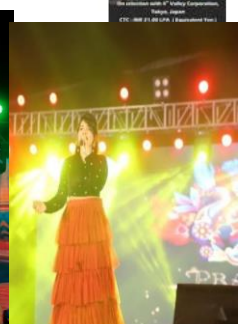
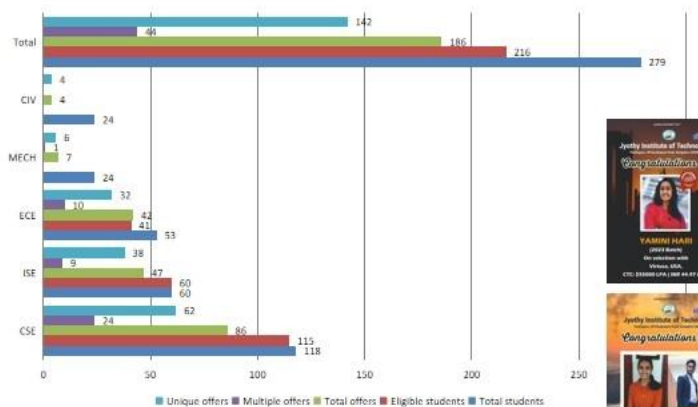
Collection of clothes for the poor



ART OF LIVING Activity

STUDENTS ADMISSION SURVEY ACADEMIC YEAR 2022-23		
	CHEMISTRY CYCLE	PHYSICS CYCLE
	Students Reply	Students Reply
i. How you know about JIT	6	6
JIT Open Day	52	70
Family	8	5
Alumni	2	3
Light Pole Ad Flex	12	6
Stringer Sharada Mutt	14	12
Public TV	1	2
Tirupathi Expo	2	3
Ananthapur Expo	2	4
Cultural Fest	2	2
Edu Expo(Challakere)	9	1
JIT Staff	11	8
Faculty of JIT	2	3
Faculty of other college	3	2
Whats App Marketing	11	6
Social Media	1	2
TV Ad	2	2
News Paper Ad	72	45
Friends	2	2
Panel discussion on Praja TV		
TOTAL NO OF STUDENTS	214	184

Placement report 2023



2022-23

BEST OUTGOING STUDENTS

The **BEST OUTGOING STUDENTS** of JIIT are selected based on a rigorous selection process. A 'Best Outgoing Student Selection Committee' has been constituted with Dr. T N Srinivasa, Registrar Evaluation, VTU, as the Chairman. The Director, Principal, Management Council Members, and HoDs represent the other members of the Committee.

The initial criterion for selection is a 60% minimum in all semesters without backlogs. The top two students from each branch are identified by the respective HoD representing the first round of the selection process, i.e., in all, ten students make the first round. These 10 students represent the group of overall **BEST OUTGOING STUDENTS** of the institution for the academic year 2022 - 23.

Post this, the ten students are subjected to an interview by the Committee to assess their involvement in and their contribution to the institution in terms of co-curricular and extracurricular activities, literary events, paper presentations, and sports, each with its weightage. The entire exercise normally takes one full day. After the interview, individual feedback about the students are taken from the respective HoDs with regard to their attitude, application and behavior with faculty and peers.

This year, **ANANYA T K (1JT19IS004)** of the Department of information science and Engineering clinched the coveted the **OVERALL BEST OUTGOING STUDENT award for the AY 2022 - 23**. She earned a **GOLD RING**, while the other nine students earned a **SILVER RING** each for their superior performance while at the institution.

The Selection Committee, Management, Director, Principal, Heads and faculty wish ALL the Toppers more laurels and accomplishments in the years to come!



ANANYA T K

OVERALL BEST OUTGOING STUDENT

AY 2021-22

IACESD-2023

JIT, jointly with VTU, NITK-Surathkal, KSCST, Sundaram Consultants, Amrutha Vishwa Vidyapeetam, ICI and many other organizations, conducted an **International Conference on Interdisciplinary Approaches in Civil Engineering for Sustainable Development (IACESD 2023)** on 7th and 8th of July 2023 under the aegis of G20 C20. There were 1200 abstracts, 600 full length articles and 300 were selected for publication in Springer Nature.

The chair of this conference was Prof. N Vinod Chandra Menon who is International Coordinator, G20 C20 WG on Sustainable & Resilient Communities: Climate, Environment and Net Zero Targets & Founder Member, NDMA, Govt. of India

The technical chair of the conference was Dr. Sreevalsa Kolathayar. He works in National Institute of Technology Karnataka, Surathkal.

There were 19 Keynote speakers of which 2 from CIIRC, were all from reputed institutions such as IITs, NITs, Universities and reputed govt/pvt Organizations.

- Ms. P Bineesha (International Institute of Waste Management (IIWM))
- Prof. Rajib Maity (Indian Institute of Technology, Kharagpur)
- Dr. Manoj P Samuel (Centre for Water Resources Development and Management, Kozhikode)
- Dr. T V Ramachandra (Indian Institute of Science, Bengaluru)
- Dr. Subha Vishnudas (Cochin University of Science and Technology, Kochi)
- Prof. Subimal Ghosh (Indian Institute of Technology, Bombay)
- Dr. Neelima Satyam (Indian Institute of Technology, Indore)
- Dr. Narendra Reddy (Centre for Incubation Innovation Research and Consultancy, Bengaluru)
- Dr. Pijush Samui (National Institute of Technology, Patna)
- Ms. Minimol Korulla (VP & Head- Strategic Projects & Initiatives Maccaferri ISEAP)
- Prof Chithirai Pon Selvan (Curtin University Dubai, UAE)
- Dr. Geetha Priya M (Centre for Incubation Innovation Research and Consultancy, Bengaluru)
- Dr. Bibhuti Bhushan Das (National Institute of Technology Karnataka, Surathkal)
- Dr. Arvind Kumar Jha (Indian Institute of Technology, Patna)
- Dr. Anupama Surenjan (National Institute of Technology Karnataka, Surathkal)
- Dr. Mithun Mohan (National Institute of Technology Karnataka, Surathkal)
- Dr. Ramkrishnan R (Ministry of Environment, Forest and Climate Change, New Delhi)
- Dr. Keerthana Kirupakaran (Indian Institute of Technology, Madras)
- Dr. Kunjari Mog (Indian Institute of Technology, Bombay)



The conference was held for two days, The Coordinators and volunteers of the college made sure the program went smoothly

- Dr. Sreekeshava K S [HOD Civil]
- Dr. K.Gopalakrishna [Principal, JIT]
- Prof. N Vinod Chandra Menon [Conference chair]
- Dr. Sreevalsa Kolathayar [Technical chair]
- Mr. M. Narasimhan [Member]
- Mr. B. K. Ramesh [Member]



The Civil Department students helped in the organization of the conference, they made sure the program did not have any kind of Problems

The event was conducted in offline and online mode, the complete conference was shared as live



Gameathon 5.0

GAMEATHON 5.0, was organized by the Department of Information Science and Engineering with the collaboration of student's club bitsnbytes. It is one of the most interesting and popular events across the country. It is a **24-hour Game Development Competition**, in which competitors must come up with intuitive and innovative ways to bring their unique game concept to life. GAMEATHON has so far been a huge success and every year we witness an overwhelming response of participants since 2018.

GAMEATHON 4.0, that was held last year was a **national event** with **40 teams** from all around the country participating and constructing absolutely incredible games. This year we stepped up our event by going international i.e., opening up the event to **global participants**. Teams from various institutes competed to win prizes from the pool of **USD 2000**.



We had **judges** from different universities around the globe who were experts from tech giants like **Etsy** and **Apple** to provide us their critical opinion. This time our **main judge** was from **Arizona State University** in the USA. This was the first year we had taken our event to an **international audience** and it was a grand success!

We had **Mr. Ashish Mathur**, Vice president -professional services at Anthology and **Dr. Yezhou Yang**, the group lead and founding principal investigator at Arizona state university as our **Chief Guests**.



We had over **200 teams** (with **500 participants** joining us on our vibrant campus on D-Day) from over **20 colleges** in Bangalore, over **10 colleges** throughout India and over **3 Institutes** across the world participating in this event.

We released **three themes** for the competition at **9 PM** on the **24th** which was 12 hrs prior to the commencement of the countdown. The themes were:

- 1. Life is currency**
- 2. Choose a path**
- 3. You control the game not the player**



Smart India Hackathon

Smart India Hackathon 2022 is a nationwide initiative to provide students a platform to solve some of the pressing problems we face in our daily lives, and thus inculcate a culture of product innovation and a mindset of problem solving. JIT is on the path of progress through addition of new state of the art Research Unit: Centre For Incubation, Innovation, Research and Consultancy (CIIRC).Jit conducts and encourages students to participate in many hackathons, ideathons and gameathons.It helps students innovate,learn and cultivate the new age technology. Our vision is to be an Institution of Excellence in Engineering education, Innovation and Research and work towards evolving great leaders for the country's future and meeting global needs.



Jyothy institute of technology conducted an internal Hackathon where 26 teams had participated. Out of the 26 teams a total of 10 teams were shortlisted and 5 are on the waiting list.

Selection criteria:

There were three criteria through which the judging process took place. Each criteria being assessed out of 10 Marks.

- 1.Feasibility
- 2.Technical Ability
- 3.Presentation

The jury:

- Dr S.Balaji:

balagi received his Ph.D. in Computer Science and Engineering from **Indian Institute of Science**, Bengaluru in 1993.

His thesis,S-NETS: A Toot for the Performance Evaluation of Hard Real-Time Scheduling Algorithms, is on hard real-time systems.

- Mr Suraj S D:

He has engaged in R&D of Electric Power-train subsystems such as traction batteries, motors, controls, heating & cooling, HV AC system, drive cycles & driver behaviour influence, atmospheric condition influences, cell characterization & behaviour studies, and more with a team of 20+ engineers.

- Mr Shankar Prasad HM:

Senior Technical Architect in Computer vision, DSP, Artificial intelligence applications and Innovation with 21 years of experience.

Glimpse of the event:



The internal hackathon was a tremendous success in bringing out the college's best minds into action and competition.

PRANATHI 2K23

The vibrant atmosphere of Jyothy Institute of Technology (JIT) was filled with excitement and anticipation as the much-awaited college fest, PRANATHI 2K23, kicked off on 9th and 10th June. The two-day event brought together a diverse range of talented guests, thrilling performances, and enthusiastic students, making it an unforgettable experience. Let's delve into the highlights of each day and discover the remarkable moments that made PRANATHI 2K23 an astounding success.



Day 1: A Star-Studded Inauguration

The festival commenced with a mesmerizing inauguration ceremony featuring distinguished guests. **Kaviraj**, a renowned personality, graced the occasion, lending his charm and inspiration. Joining him were the talented actor **Prajwal Devraj**, **Karan Aryan**, **DJ Abhinav**, and **Rajeev Hanu**, all of whom added their unique flavor to the event.



Day 2: An Extravaganza of Music and Entertainment

The second day of PRANATHI 2K23 was packed with an incredible lineup of performances. The SA-RE-GA-MA-PA singers, including Supreeth, Varna Chawan, and Pruthvi Bhat, enthralled the audience with their soulful melodies. The presence of the **dynamic actress Ragini Dwivedi** added a touch of glamour to the event. The teams from the movies "Kirathaka 2" and "Agrasena" shared their experiences and interacted with the attendees. The grand finale of the fest featured a power-packed concert by **AIIOk** and his team, leaving the crowd energized and entertained.



PRANATHI 2K23 was an unforgettable event that brought together talent, entertainment, and inspiration under one roof. The support of the sponsors and the tireless efforts of the organizers at Jyothy Institute of Technology made this festival a resounding success and etched in the memories of all those who attended, serving as a testament to the vibrant culture and spirit of JIT.



Dr.Kishore G R
Chief Co-ordinator,
Pranathi



INDUCTION AND INAUGURATION PROGRAMME

Induction was conducted for the first-year batch-2022 in our college from 14/11/22 to 18/11/22 from 9.30am to 4pm in our campus. A neat and well-maintained time-table was chalked out catering to the needs of the young minds to make it interesting, informative and entertaining.

OUTBOUND ACTIVITY:

An outbound activity to Pyramid Valley was arranged for the students free of cost as an ice-breaking activity for them to get acquainted to their peer-groups.



MOTIVATIONAL/INSPIRATIONAL TALKS:

Speaker: Mr. H.A. Jayasimha

Topic: Universal Human Values

Speaker : Dr. Lakshminarayana Bhat

Topic : YOGA

Speaker: Dr.Jayaprakash H.N

Topic: Incorporation of company

Speaker: Dr. Sharadha

Topic: Health Awareness

Speaker: Mr. Srinidhi Kulkarni

Topic: Language Proficiency

Speaker: Dr.Manoj Kumar

Topic: Career Enhancement through Moocs

Speaker: Mr. Rakesh B K

Topic: Universal Human Values

Speaker: Ms. Rama Jyothy

Topic: Innovation and Entrepreneurship



ACTIVITIES :

Tech club

Tech club activity was organized by the alumni students which was quite interesting and informative

Learning with fun

Ms. Usha from the Department of Humanities, along with student coordinators, conducted a post-lunch session to rejuvenate students and enhance their skills, offering them the opportunity to showcase their talents in "Fun with Learning," which included activities like quizzes, rebuses, and dumb charades.

Our stage Your talent

Our Stage Your Talent event was arranged for students to showcase their talents.

Pottery and painting session

A pottery and painting session was held to freshen the minds of the students



World Language Club

The World Language Club hosted a 12-hour induction programme at the Main Auditorium, Swami Vivekananda Block, from May 25th to 28th, 2023. The event commenced with an overview of the Club's activities, emphasizing the importance of learning foreign languages, and was attended by the Principal, Dr. K. Gopalakrishna, and Mr. Narasimhan, Vice-Chairman of JCT. The event included activities such as language presentations, quizzes, movie screenings, literary quizzes, and an anime quiz. It engaged participants with interactive acts and rewarded winners with vouchers, chocolates, and action figures/funko pops of their choice. The programme concluded with a group photograph, receiving positive feedback from attendees.



Inaugural function:

The doors of JIT were opened for the First-year students' batch-2022-23 at the Inaugural function held in the college premises on 19th November 2022. The excitement in the students was palpable as they started a new chapter in their life which opens the doors for their future.



The doors of JIT were opened for the First-year students' batch-2022-23 at the Inaugural function held in the college premises on 19th November 2022. The excitement in the students was palpable as they started a new chapter in their life which opens the doors for their future.

Ms. Usha Dept. Of Humanities took great pleasure in welcoming the Chief guests and all the other dignitaries who had graced this august gathering. The function witnessed all the other dignitaries of JIT along with our beloved Principal Dr. K Gopala Krishna -JIT.

Grace of Humility”-Mrs. B.V Seetha Chairperson-Jyothy Charitable Trust **fondly called Seetha Maami** has constantly been the pillar of strength and source of motivation for all our endeavors and an effective tool to transfer rich values in all of us, had graced this occasion.



We were fortunate to celebrate this solemn occasion having **Guruseva Dhurina Padma Shree**”, **Karnataka State Rajyothsava Award winner, Recipient of many other citations and awards Shri. V.R Gowri Shankar CEO, Administrator Sri Sringeri Math, and its properties-** A humble Man with extra ordinary achievements -a dreamer who has brought a new face to Sringeri, two decades of continuous service to society in a remote area in Malnad, amidst us as the chief guest for the day.

It was indeed a great pleasure to have amidst us yet another **Esteemed Chief guest -Shri P. B Kotur** who has a long-standing experience with a demonstrated history of working in the Information Technology and Services industry over two decades. His work experience speaks volumes about him as he is a firm believer of the Power of People and Technology for sure growth and transformation.

Our beloved Principal **Dr. K Gopala Krishna** presented the annual report which chronicles the major initiatives and events of the college during the academic year.

JIT took pride to acknowledge the toppers and honour those students who excelled in different fields- academics, sports cultural, SAE Aero, Smart India, and Hackathon (Mentor-Shrinidhi Kulkarni) who had brought laurels to college and motivate them to shine in their respective fields.



Farewell Report- Batch 2019

The farewell function was conducted to bid farewell to the **2019 batch** students on 27th May 2023. **Dr. T N Srinivasa, Registrar Evaluation, VTU** was the **chief Guest. Dr. Srinivasa** in his address highlighted the new initiatives to VTU students after he assumed office as Registrar. He appreciated the efforts of the management to support the underprivileged. He said JIT is one among the very few colleges with ethics and Human values. Most colleges have reduced education to a business model and if there are exceptions, JIT is one, he said.

The Gold ring with a citation was presented to the best outgoing student Ananya T K of information science department (1JT19IS004) of our institute. The other nine best outgoing students from other departments were presented with a silver ring & citation. The Rank holders of our institute were also felicitated in the function. All the students were presented with a memorable gift.

The help and support rendered by our GC member Dr. Nagaraja HS must go into this record. I acknowledge sir's help in identifying the topper of the college through an interview.





Teaching Staff

The family is the cradle of our society hence ,

We the JIT family



ADMINISTRATION



"Adminstrivia: Where Efficiency Meets Compassion."

TRANSPORT DEPT.



"Transporting Dreams: Connecting Students, One Ride at a Time."

SUPPORT STAFF



"Supporting Dreams, Creating Smiles: The Unsung Champions."

COMPUTER SCIENCE



"Binary Dreams, Infinite Realities: Navigating the coded Frontier"

COMPUTER SCIENCE AND ENGINEERING

Magazine co-ordinator: Dr. Annie Sujith
Associate Professor



BATCH OF 2019-2023





Department of Computer Science Engineering



Dr. S. PRABHANJAN
Professor and Head

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 environments and motivation for self-learning and problem-solving abilities by recruiting committed faculty.
- M2:** To encourage industry institute interaction and multi-disciplinary approach for problem solving and adapt to ever changing global IT trends
- M3:** To install awareness about 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 his 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

NAME	QUALIFICATION	DESIGNATION
Dr. Prabhanjan S.	Ph.D.	Professor & HOD
Dr. S. Balaji	Ph.D.	Professor
Dr. Manoj Kumar	Ph.D.	Associate Professor
Dr. Chidananda Murthy P.	Ph.D.	Associate Professor
Dr. Swathi K.	Ph.D.	Associate Professor
Dr. N. S. Ravindranath	Ph.D.	Associate Professor
Dr. Annie Sujith	Ph.D.	Associate Professor
Mr. Srinidhi Kulkarni.	MTech. (Ph.D.)	Assistant Professor
Mrs. S. Nikitha	MTech. (Ph.D.)	Assistant Professor
Mrs. Nayana G Bhat	MTech. (Ph.D.)	Assistant Professor
Mrs. Madhu G.	MTech.	Assistant Professor
Ms. Nmratha B. S.	MTech.	Assistant Professor
Mr. Basavesh D.	MTech.	Assistant Professor
Mrs. Roopa Onkar Deshpande	MTech.	Assistant Professor
Mr. Navile Nageshwara Naveen	MTech.	Assistant Professor
Mrs. Prithvi B. S.	MTech.	Assistant Professor
Mrs. Rekha V.	MTech.	Assistant Professor
Mr. Venkateshwara N.	MTech.	Assistant Professor
Mr. Akhilesh S Narayan	MTech.	Assistant Professor
Mrs. M. Rajeswari	MTech.	Assistant Professor
Mrs. Prathibha K. N.	MTech.	Assistant Professor
Mrs. Geethapriya	MTech.	Assistant Professor

PG in Computer Science and Engineering

NAME	DESIGNATION	QUALIFICATION
Dr. Raju G.	Ph.D.	Professor
Mr. Nagaraj A.	MTech. (Ph.D.)	Associate Professor
Mr. Keshava Gowtham NS	MTech.	Assistant Professor

Non-Teaching Staff

NAME OF STAFF	DESIGNATION
Mrs. Sarvamangala D. S.	Instructor
Mr. Manjunatha C.	Instructor
Ms. Nandini R.	Instructor
Mrs. A. Sushmitha	Instructor
Mr. Vijeth J.	Instructor
Mr. Praveenajith S	Instructor
Mrs. Padmavathi V.	SDC



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 Department, JIT
Dr. Prabhanjan S	Professor and Head, CSE Department, JIT

KSCST Funds Approval

Name of the faculty	Project Title	Project Type Research / Consultancy	Funding Agency	Amount (in Rs.)	Duration	Project Approved Date
Guide: Mr. Basavesh D. Mrs. Sunitha B Students: Mr. Vikranth Pratap Singh Mr. Ashay Dharmik Narendra Mr. Lokesh Kumar Shah Ms. Savitha M.	Automatic Time Table Generation Using Genetic Algorithm	Research	KSCST	4,000/-	1 Year	24 Apr. 2023
Guide: Mrs. Prithvi B. S. Students: Mr. Mahantesh M S. Mr. Mallangouda R. Mr. Manoj J. Mr. Nithin J.	Document Management System For Undergraduate Students	Research	KSCST	4,000/-	1 Year	24 Apr. 2023
Guide: Mr. Srinidhi Kulkarni V. Students: Mr. Manjesh M. Mr. Sharanya R.P.	Secure File Storage Using Hybrid Cryptograp	Research	KSCST	4,000/-	1 Year	24 Apr. 2023



Mr. Nithish R.	hy					
Guide: Dr. Swathi K. Students: Mr. Abhishek Kumar Mr. Aditya Krishnan Mr. Ajin Sumesh Mr. Harsh Soni	Youth Compass Application	Research	KSCST	5,000/-	1 Year	24 Apr. 2023
Guide: Dr. Swathi K. Students: Mr. Neha Nayak Mr. Prarthana T. Mr. Rohit Joshi Mr. Vaibhavi S.	Picpharm-Medical Prescription Recognizer	Research	KSCST	5,000/-	1 Year	24 Apr. 2023

Activities/Events

The **Department of Computer Science** remains dedicated to providing our students with valuable educational experiences beyond the classroom.

On 13 and 14 Sept. 2022, an illuminating **Industry Training with Hands-On Session** was organized for the 7th semester ECE students. The event, steered by the capable coordination of Mr. Arun Kumar, aimed to bridge the gap between classroom learning and real-world application, fostering a deeper understanding of industry practices. This holistic approach provided invaluable insights into the intricacies of their chosen profession.

A comprehensive **Placement Training Programme** was conducted from 19 to 22 Sept. 2022, for the 7th semester students. Under the expert coordination of Mrs. Rekha K.V., the students were immersed in a series of engaging sessions designed to enhance their employability skills and bolster their confidence for upcoming placements.

On 14 Oct. 2022, 5th semester students had the privilege of attending a thought-provoking talk on "**Team Mentor Together**" organized under the guidance of Mrs. Prithvi BS. Mekhna Rose Alex from MentorTogether took the stage as the esteemed resource person, imparting valuable insights on mentorship and personal growth.

In a bid to promote collaborative learning and knowledge sharing, a **Peer-to-Peer Learning Session** was organized for 5th semester students on 18 Oct. 2022. Under the guidance of Mr. Nagaraj A. as the coordinator, the event brought together the expertise of Ms. Neha Nayak and Mr. Rakshith J, who served as resource persons for the day. This unique learning approach not



only encouraged students to take ownership of their education but also allowed them to tap into the diverse expertise within their own class.

An impactful **Orientation Programme by Youth for Seva 2022** was organized on 21 Oct. 2022, engaging the active participation of around 168 students from both 7th and 5th semesters. The event, deftly coordinated by Mr. Srinidhi Kulkarni, provided students with insights into the noble world of community service and the transformative potential of giving back. The session inspired students to channel their skills and energies toward making a positive impact on society.

A dynamic **Project Orientation Programme** aimed at guiding and preparing 7th semester students for their impending projects. The event, meticulously coordinated by Dr. Manoj Kumar, featured the insightful guidance of Dr. Dinesh R from Samsung R&D on 29 Oct. 2022 and Dr. Manjunath Chandrashekar on 13 Oct. 2022. These sessions were a pivotal stepping stone for students as they embarked on their project journey.

The **CSI Student Chapter** orchestrated an exhilarating **Coding Challenge** on 7 Nov. 2022, welcoming the participation of both 7th and 5th semester students. Under the adept coordination of Mr. Nagaraj. A, the event witnessed the active involvement of 42 participant teams. This challenge served as a platform for students to showcase their coding prowess and problem-solving acumen. Students engaged in an exhilarating battle of wits as they strategized to devise optimal solutions within stipulated time frames.

On 8 Nov. 2022, the 5th semester students embarked on an enriching **Industrial Visit To IKEA**, guided by the coordinator Mr. Nagaraj. A and Mr. Srinidhi Kulkarni. The visit provided students with a firsthand glimpse into the operations of one of the world's leading furniture and home goods retailers.

A compelling **Motivational Session** unfolded on 17 Nov. 2022, inspiring the 5th semester students to reach for their highest aspirations. Orchestrated by Mr. Srinidhi Kulkarni and featuring Mr. Suresh from Octasense Pvt Ltd as the resource person, the event aimed to ignite a spark of determination and ambition among the students.





A dynamic **Workshop On "Sales Force"** was conducted on 28 Nov. 2022, catering to the eager minds of 5th semester students. Under the adept coordination of Mrs. Rekha K.V., the event featured James Chirsty from Ethnus as the resource person. This insightful workshop provided students with valuable insights into the realm of sales, equipping them with practical knowledge to excel in this pivotal aspect of business.

The **Chote Scientist** event, a captivating four-day journey spanning from 06 Dec. 2022 to 09 Dec. 2022, served as an immersive experience for 5th semester students. With Mrs. S. Nikitha at the helm as the coordinator, the event catered to the inquisitive minds of 112 participants. The event's focal points were the insightful resource persons, Mr. Manjunath and Mr. Venkatesh, KPS, Kaggalipura.

A captivating **Technical Talk on "Cloud Computing"** was organized for 7th semester students on 06 Dec. 2022, showcasing the department's commitment to cutting-edge learning experiences. Under the skillful coordination of Mrs. Prithvi B.S, the event welcomed Dr. Sanjay as the esteemed resource person. Through this enlightening session, students delved into the dynamic realm of cloud computing and its transformative impact on the technological landscape.

The much-anticipated **"JIT Hackathon 2022"**, on 17 and 18 Dec. 2022, marked an exhilarating convergence of creativity, technology, and collaborative spirit. Under the proficient coordination of Mr. Srinidhi Kulkarni, the event unfolded as an inspiring platform for students to push the boundaries of innovation and problem-solving. Participants gathered to immerse themselves in 24 hours of intensive hacking, fueled by a diverse range of ideas and a shared passion for technology. The event's arena buzzed with energy as teams embarked on a journey of coding, prototyping, and bringing their innovative concepts to life.



An invigorating **Invited Talk on "Startup India"** was orchestrated for the enthusiastic 3rd semester B Section students on 16 Jan. 2023. The event, meticulously coordinated by Mr. Basavesh D., aimed to provide students with insights into the world of entrepreneurship, innovation, and the transformative potential of startups. The talk featured two distinguished resource persons, Adv. Kiran Bettadapur S. and Dr. M G Anantha Prasad, the CEO of AIC-JITF. Their combined expertise illuminated the intricacies of the startup ecosystem and the avenues it opens for young minds.

The **Skill Development Program** held from 13 Feb. 2023 to 15 Feb. 2023, meticulously organized for the 3rd semester students, proved to be a transformative experience for the 118 participants involved. Under the expert coordination of Dr. S. Prabhanjan, the program aimed to equip students with essential skills that would enhance their academic journey and future career prospects.

The **CSI Student Chapter Coding Challenge** event was held on 03 Mar. 2023, under the guidance of CSI Coordinators Prof. Nagaraj. A, Prof. Manjesh B N, and Prof. Archana V R. The students of 3rd semester CSE, ISE and AIML participated in the event. Totally 26 teams participated in the event, each team consisting of 2 members. 5 problems were given and the students were asked to write any 2 programs and execute the same. Students have solved the problems using C, Java and Python Programming languages.

The Department of Computer Science celebrated a significant milestone with the successful inauguration of the **"JIT Entrepreneurship Development Cell"** Club on 07 Mar. 2023 under the guidance of Mr. Akhilesh S Narayan. The event was graced by Mr. S. Hiriyanna from ISRO. Attended by faculty members, students, and esteemed guests, the inauguration ceremony was a vibrant gathering that set the tone for the club's future endeavors.





A **Workshop on Graphics Design with Android and Unity 3D** was conducted on 25 and 26 May 2023 under the mentorship of Mr. NN Naveen and Mrs. Rekha V. With over 110 attendees, the event aimed to bridge the gap between graphics design and software development, showcasing the creative possibilities and technical integration points that Android and Unity offer.

The **Workshop on Internet of Things (IoT)**, held on 02 May 2023 and 03 May 2023 for the 8th semester students, was a transformative event that immersed participants in the dynamic world of connected devices and cutting-edge technology. Organized under the supervision of Dr. Swathi K., the workshop aimed to equip attendees with a comprehensive understanding of IoT concepts and applications.

A **Project Exhibition** was held on 09 May 2023 which was organized by Dr. Manoj Kumar for the 8th semester students to showcase their innovation, creativity, and technical prowess. The judges for the event were Mr. Ashwin Chandrashekar, Managing Director, Plotnew Bio Innovations Pvt. Ltd. and Mr. Vijay Kumara S, Tech Lead, Trane Technologies. The exhibition offered a platform to display meticulously crafted projects that spanned various domains of technology. More than 30 projects by the 8th semester students were displayed and the three best projects were selected and awarded cash prizes.



The **World Language Event** by Mr. Dasharatha, a captivating celebration of linguistic diversity and cultural exchange, took place on 12 May 2023 and left a lasting impact on all attendees. Conducted under the direction of Mrs. Rekha K.V., the event serves as a reminder that, in an increasingly interconnected world, celebrating languages is a celebration of humanity's beautiful tapestry of expression.





The insightful talk titled "**Modern C++ for C, Python, and Java Programmers**" by Dr. Sean Murthy, shed light on the evolving landscape of C++ programming in comparison to other prevalent programming languages. Held on 19 May 2023, the talk aimed to bridge the gap between different programming paradigms and equip programmers with the tools to harness the power of modern C++ effectively.

Another **Peer to Peer Learning** event was held on 05th June 2023, under the banner of CSI Student Chapter under the guidance of CSI Coordinators Prof. Nagaraj. A, Prof. Manjesh B N, and Prof. Archana V R. Ms Nisarga C S, 8th Semester student of CSE, who is undergoing Internship at Avaali Solutions Pvt Ltd, delivered the talk on Robotic Process Automation (RPA). UIPath tool was demonstrated.





The Department hosted a captivating and enlightening event, "**Android Day**" on 16 June 2023 under the guidance of Mr. Nagaraj A. This event celebrated the world of Android app development, offering participants an immersive experience of the intricacies of mobile software engineering.



We proudly organized the highly anticipated event, "**Robothon 2023**" which unfolded on 21 June 2023. With an atmosphere buzzing with excitement, the event provided a dynamic platform for robotics enthusiasts to showcase their technical prowess. With over 100 participants, the success of Robothon can be attributed to the dedication and collaborative effort of our organizing committee led by Mr. NN Naveen. The event also featured informative insights by Mr. Prabhu and Mrs. Jyothi H. L. from BITES.



The inception of the **IEEE Student Branch Technophilia** on 24 June 2023 marks a significant milestone in our journey towards promoting technological excellence and fostering a collaborative environment for aspiring engineers. With guidance from our faculty advisor Mr. Srinidhi Kulkarni we embarked on a series of organizational meetings to bring our vision to fruition. During the event, our esteemed resource persons Mr. Praveen Kamath and Dr. Prasant Misra TATA Consultancy Services delivered an insightful and captivating speech that left a lasting impact on the audience.





The **Core Committee Auditions** for JIT Entrepreneurship Development Cell was held on 30 June 2023. A total of 63 participants participated in the auditions. Resource persons Samarth Kashyap and Samarth K S, under the guidance of Mr. Akhilesh S Narayan, conducted the auditions.



An **Industrial Visit to ISRO** was arranged for the students of 3rd sem CSE from 24 to 26 July 2023 in three batches. On reaching there the students were first given a briefing about ISRO. Then a video clip of the making and launching of satellites was shown. This gave the students an idea of how the satellites are launched and how the different parts of a satellite are manufactured. For the benefit of students, there is a space exhibition, where models of all the satellites launched by ISRO were displayed. They also got an opportunity to view the real cameras used in satellite imaging, various types of antennas, payloads, electronic devices used in satellites, different photographs taken by the satellite and technical details of each part of the



satellite. Students were given information about the career opportunities in ISRO and the internship options at ISRO. The visit to ISRO was very informative.

A Technical "Python



Talk on



Programming: Object-Oriented Features" was organized for the 2nd-semester students on 12 Aug. 2023 and 26 Aug. 2023 spanning a total of 5 hours, under the coordination of Dr. Annie Sujith. The resource person for this event was the industry person Ms. Anju A., from Trizent Technologies. Ms. Anju has more than a decade of diverse experience in various domains like research, software development, and teaching. She has worked on various industrial projects such as E-Waste Management – Mobile Phone Recycling and Reusing, French Polynesia-Sales(S&D), Smartfren Communication and Technology, etc Through this enlightening session, students delved into the dynamic realm of Classes and objects, Operator overloading, Type-based dispatch, Polymorphism, Interface, and implementation, etc.

A grand **Poster Presentation** event on the theme **“Life- A Self Exploration”** under the subject of Universal Human Values (UHV) was organized on 17th Aug. 2023 by IEEE Society at



Jyothy Institute of Technology. The event's aim was to provide participants with a platform to showcase their research and ideas related to the theme. The event had participants from all the branches of engineering and each of them participated actively. Judges to the event were renowned experts in their own field -we had Mr. Kaushik S V and Mrs. Shylaja Pradeep. Mr. Kaushik is an IT professional, musician, certified yoga trainer, stress management coach for youth & adults and Head of Institutional programs at The Art of Living, Karnataka. Mrs Shylaja is a freelancer, visual artist, expert in oil painting, landscape painting and Mysore painting and is also a passionate yoga teacher. The jury was a perfect blend of a mental health expert and an artist to judge this event. There was a total of 378 total participants who participated in the event. The tremendous support and guidance received from our Branch Counsellor - Dr Asha Bharathi and Branch Advisor- Mr Srinidhi Kulkarni can be greatly attributed to the victory of the event.



On 17th Aug. 2023 the IoT-themed students club organized the Phase 1 online quiz qualifier event, which focused on the selection of the students/teams for the Phase 2 offline circuit building event. The event was open to all the departments and approximately 43 teams made it to the participants list. During the event, the participants were tested on their knowledge of IoT



and a few components regarding the same. Selections were made based on their responses. On 21st Aug. 2023, the IoT themed students club- CREA organized the phase 2 - offline fun activity based circuit building event, which focused on selecting a winner among the qualified top 5 teams from the Phase1 - online quiz which was held previously. Initially, the teams were first made to assemble in the auditorium, followed by addressing the gathering with the objectives of the Club by the student coordinators and the basic rules and instructions, briefing up session by the club coordinator Mr. Akhilesh S Narayan.



The series of diverse activities conducted by our department over the past months has undeniably enriched the academic journey of our students and showcased our commitment to holistic education. From technical talks and workshops that expanded our horizons, to motivational sessions that ignited our spirits, each event has contributed to a well-rounded learning experience. These activities have not only deepened our understanding of various subjects but have also instilled essential life skills, fostering teamwork, critical thinking, and effective communication.



Conferences Attended

Dr. Manoj Kumar M, Associate Professor, attended a 1-Day AWS Academy Educator Conference in Bengaluru, Amazon web services on 23 June 2023.

Chinmayi Rajaram (1JT20CS022), Sudhanva S P (1JT20CS099), Deepa Umesh (1JT20CS025) attended “G20 C20 International Conference on Interdisciplinary Approaches in Civil Engineering for Sustainable Development(IACESD-2023)” on 7 and 8 July 2023, organized by Jyothy Institute of Technology, Bengaluru.

Shreesha G. Hegde (1JT21CS099) attended a 2-day National Conference on Sanskrit-IKS & ICT held on 17 and 18 Feb. 2023 by NIAS, Bengaluru.

Varsha N. (1JT21CS118) attended the Startup India Conference on the 12th of August 2023, organized by Jyothy Institute of Technology, Bengaluru.

Papers Published/Presented

Sudhanva Shimoga Prakash, Chinmayi Rajaram, Deepa Umesh, Dr. S Prabhanjan, "3D Mapping and Exploration Using Autonomous Robots and NeRF " (IACESD-2023), JIT, Bengaluru.

Shravan N Dr. Manoj Kumar M, Sriraag Jayanth, Bindu R S, Dr. Madhu B R, Dr. Sreekesava K S, 2023,"2D Mapping and Exploration using Autonomous Robot", Emerging Research in Computing, Information, Communication and Applications (ERCICA 2022), NMIT, Bengaluru.

Manoj Kumar M, Veda Murthy S P, Bhuvaneshwari Hegde, Akhila M K, Bhoomika A S, 2023,"Human Activity Recognition in Construction Industry Using Machine Learning Pose estimation Technique"(IACESD 2023),JIT,Bengaluru.

Mr. Srinidhi Kulkarni V, “Cloud Based Secure File Storage Using Hybrid Cryptography”, International Journal of Research Publication and Reviews, Volume 4, No.5, pp 4645-4651 May 2023, ISSN: 2582-7421.

Manoj Kumar M, Rohith D, Rahul R, Mohan Kumar T G, Krishna Koustub B S, 2023, “A Machine learning based intelligent Inventory system for construction Industry for Construction Industry” (IACESD 2023),JIT, Bengaluru.

Shravan N, Bhargavi C, Manoj Kumar M, Bharatesh Chakravarthi, 2023, “Innovative Exploration Techniques: Utilizing IoT-Enabled Robots for Safe and Efficient Underground Tunnel Investigation” (IACESD 2023), JIT, Bengaluru.

Mr. Srinidhi Kulkarni V, “E-Commerce Website for Artisans”, International Journal of Research Publication and Reviews, Volume 4, No.5, pp 4645-4651 May 2023, ISSN: 2582-7421.



Bhargavi C, Ganesh C R, Manoj Kumar M,2023, “Strategies of Passive Design Buildings in Cold and Arid Climates: A Review”(IACESD 2023), JIT, Bengaluru.

Bharatesh Chakravarthi, Manoj Kumar M, Pavan Kumar B N,2023, “Event-based Sensing for Improved Traffic Detection and Tracking in Intelligent Transport Systems towards Sustainable Mobility”(IACESD 2023), JIT, Bengaluru.

Dr. Annie Sujith, Lohith Naj N, Hemanth BV, S. Madhavan, “Real-Time Regulation of Traffic in Response to Changes”, International Journal of Research Publication and Reviews, Volume 4, No.5, pp 4645-4651 May 2023, ISSN: 2582-7421.

Dr Manoj Kumar M, Associate Professor, Krishna Koustub BS 1JT20CS041, Rohith D, 2023, A Machine Learning Based Intelligent Inventory System: A Survey, International Journal of Innovative Science and Research Development (IACESD-2023)

Mrs. Nayana G, “Modeling and Simulation of cell Biological systems on Heterogeneous Parallel Computing Platforms”, Bharati Vidyapeeth's Institute of Computer Applications & Management, 05 Apr. 2023, ISSN: 2511-2104

Mrs. Prithvi B S., “Exploration on the Energy Crisis Caused by Cloud Computing”, Journal of Survey in Fisheries Sciences, Volume 10, No. 4S(2023, P No 396-408 2023, ISSN: 2368-7487

Mrs. Roopa Onkar Deshpande, Rakshith BR, Nisarga CS, Sanjana R., Saharsh S Kiran, “Community Blogs Implementation for an Organization”, International Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume 11, Issue 5, May 2023, ISSN: 2321-9653

Dr. Swathi K., Abhishek Kumar, Ajin Sumesh, Aditya Krishnan, Harsh Soni, “Youth Compass: A flutter application for volunteer management” International Journal of Scientific Research in Engineering and Management (IJSREM), Volume 7, Issue 5, Pg. no. 1 to 6 May 2023.

Dr. Swathi K., Neha Naik, Prarthana T., Rohit Joshi, Vaibhavi S., “Medical Prescription Recognition using Machine Learning: A Survey”, International Research Journal of Modernization in Engineering Technology in Science (IRJMETS), e-ISSN: 2582-5208, Volume 05, Issue 4, Pg. no. 7279-7284, April 2023.

Student Achievements

- 1) Jeevan N.M. (1JT20CS038) secured a Gold medal in the Triple jump and a Silver medal in the Long jump event at the 24th VTU Athletic meet held at the VTU campus, Belagavi.
- 2) Jeevan N.M. (1JT20CS038) also won the individual overall championship at the 24th VTU Athletic meet held at the VTU campus, Belagavi.





- 3) Tarun TR (1JT20CS105) won a bronze medal at the VTU State-level Weight Lifting Championship held at Vemana Institute of Technology, 01 Sep. 2023 and 02 Sep. 2023
- 4) Sanjana Hiremath (1JT20CS082) secured 3rd place in Power Lifting (Women) in the Inter-Collegiate State Level Tournament by VTU held at KLS Gogte Institute of Technology, Belgaum on 7th and 8th Sept. 2023.



- 5) A team consisting of Ms. Chinmayi Rajaram (1JT20CS022), Ms. Deepa Umesh (1JT20CS025), Sudhanva Shimoga Prakash (1JT20CS099), Vismai Kumar S. (1JT20CS112) successfully presented project work titled “Urban unmanned rover based agricultural navigation for precision pest and weed detection” and secured Second position in the IOT domain in the “IEEE Project Expo-2023” organized by IEEE Student Branch, GSSS Institute of Engineering and Technology for Women, Mysuru.
- 6) A team consisting of Mr. Krishna Koustub B.S. (1JT20CS041), Mr. Harshith S. (1JT20CS037), Mr. Bharath Kumar R., Mr. Gahan B. Bhat successfully presented project work titled “Mandara Women Safety” and secured Second position with a Cash Prize of Rs1000 in the Mobile Application Development domain in the “IEEE Project Expo-2023” organized by IEEE Student Branch, GSSS Institute of Engineering and Technology for Women, Mysuru.
- 7) A team consisting of Krishna Koustub BS (1JT20CS041), Rakshith Kashyap, Vinay M, and Shravan KG won Second position and received a cash prize of Rs. 25,000 for the Event “HackFrenzy” conducted by the Indian Institute of Information Technology, Sri City, AP From 7th to 9th Apr. 2023.
- 8) A team consisting of Sudhanva SP (1JT20CS099), Chinmayi Rajaram (1JT20CS022), and Vismai Kumar S. (1JT20CS112) won First position and received a cash prize of Rs.60,000 at Gameathon 5.0, a global flagship contest organized by the Department of ISE, JIT and BitsNBytes.
- 9) A team consisting of Chinmayi Rajaram (1JT20CS022), Vismai Kumar S. (1JT20CS112), Deepa Umesh (1JT20CS025), Sudhanva S. P. (1JT20CS099) won 2nd Runner up (₹10,000) at Robothon – 2023 held on 21 June 2023 at JIT, Bengaluru.



- 10) A team consisting of Sudhanva S P (1JT20CS099), Deepa Umesh (1JT20CS025), Chinmayi Rajaram (1JT20CS022), Vismai Kumar S. (1JT20CS112) won 2nd Runner up (₹10,000) at Hackotsava - 2023 held on 2 and 3 Jun. 2023 at SMVITM, Udupi. They designed a working model of a rover prototype to facilitate the Agricultural industry. They programmed the ML model to detect weeds & and built the rover for eradicating them.
- 11) A team consisting of Vismai Kumar S. (1JT20CS112), Sudhanva S.P. (1JT20CS099), Chinmayi Rajaram (1JT20CS022) won Best Use of Technology - Gameathon at Adi Shankara Institute of Engineering & Technology, Kalady, Kerala, 28 to 31 Mar. 2023 where they built a VR game utilizing Unreal Engine.
- 12) A team consisting of Riona Lobo (1JT20CS071) and Rakshith Gowda (1JT20CS070) won second prize in the ISTE State-level competition "Best out of Waste" at the Vemana Institute of Technology.
- 13) Giridhar J. (1JT20CS032) and the team won first prize in a fashion show organized at Dayanand Sagar Institute of Technology. The team members are Apoorva Viresh D. (1JT21CS017), Sakshi Roa (1JT21CS057), Tejas B. (1JT20EC052), Spoorthi (1JT19CS089), Vinutha R (1JT22IS062), Ibtisam (1JT19CS035), Ashritha (1JT21CS021), Kunal (1JT19CS021), Vikram (1JT20AI052), Chaithu (1JT21AI009), and Ashmitha Kavya Nath (1JT21CS020).
- 14) A team consisting of Srivathsa Nadig (1JT21CS106), Siddhartha Mahesh Pundit (1JT21CS102), Samarth K S (1JT21CS087) and Ajith K Narayan (1JT21CS0006) secured the Consolation Prize of Rs.20,000 for "BEST AUDIO", organized by ASIET, Kaladi, from 28 to 30 Mar. 2023
- 15) A team consisting of Siddhartha Mahesh Pundit (1JT21CS102) and Srivathsa Nadig (1JT21CS106) secured First place and received Rs.2,000 in the "Coding Challenge" event conducted by CSI Student Chapter, JIT held on 03-03-2023.
- 16) Yashas. N (1JT21CS126) and the team secured 1st place in VTU South Zone Hockey Championship 2022 held at SAIRAM College of Engineering, Bengaluru.
- 17) A team consisting of Rishab K Joshi (1JT21CS080) and Sai Prathik R(1JT21CS085) secured Second position in the "Coding Challenge" event conducted by CSI Student Chapter, JIT held on 03-03-2023.
- 18) A team consisting of Shrihari V.P. (1JT21CS100), Sudhanva H.P. (1JT21CS108), Varshini L. (1JT21CS119), Shreya A. (1JT21AI042) received a cash prize of Rs. 6000 for Best Jury's Pick in Global Level Contest, Gameathon 5.0 organized by Dept of ISE, JIT and BitsNBytes.
- 19) A team consisting of Akshay J. (1JT21CS008), Anirudh S. Bhat (1JT21CS015), Kishan S. (1JT21CS052), Mithun Chowda (1JT21CS061) won second runners up for the Jury's Pick in the Hackathon held at Adi Shankara Institute of Engineering & Technology, Kalady.



- 20) A team consisting of Akshay J. (1JT21CS008) and Kishan S. (1JT21CS052) won the third prize in the "Coding Challenge" event conducted by CSI Student Chapter, JIT held on 03-03-2023.
- 21) Akshay J. (1JT21CS008) won the first prize in the "Pick and Speak" competition conducted during Kannada Rajotsava Celebration at JIT.
- 22) A team consisting of Ms. Sahanaa Dinesh (1JT20CS078), Ms. Anagha Bharadwaj (1JT20CS006), Mr. Kanishk S (1JT20CS039), successfully presented idea titled "Justice" and secured IInd position in the 18th Karnataka state level ISTE student Ideathon event held at Vemana Institute of Technology in association with IEEE.

NPTEL Courses Completed by Students

Sl. No	Student Name	USN	Course Completed Successfully
1.	Akshay J	1JT21CS008	Programming in Java
2.	Kishan S	1JT21CS052	Programming in Java
3.	Srikanth S R	1JT21CS104	Programming in Java
4.	Sanjay S M	1JT21CS092	Programming in Java
5.	Bharath S Banakar	1JT21CS026	Programming in Java
6.	Mithun Chowda	1JT21CS061	Programming in Java
7.	Akanksha Mishra	1JT21CS007	Programming in Java

External Courses Completed by Students

Sl. No	Student Name	USN	Course Completed Successfully
1.	Gayatri Y S	1JT20CS031	i. Associate Cloud Engineer track, from Google
2.	Kruthika M N	1JT20CS044	i. Speed Mentoring Program as a Mentee, from Mentor to go
3.	Arul Joshua A	1JT20CS013	i. Associate Cloud Engineer track, from Google
4.	Srikanth S R	1JT21CS104	i. Mastering Data Structure and Algorithms using C and C++
5.	Krishna Kaustub B S	1JT20CS041	i. Cloud Foundations, from AWS Academy ii. Introduction to OpenShift Applications (D0101), from REDHAT



6.	Sanjay S M	1JT21CS092	i.	Mastering Data Structure and Algorithms using C and C++
7.	Ankush Ganapati Hegde	1JT21CS130	i.	ReactJS from Verzeo Edu Tech, 05 Mar. 2023
8.	Sharmila Babu C S	1JT21CS129	i.	Full Stack Web Development from Princeton Smart Engineers, 19 to 21 Jun. 2023
9.	Varshini L	1JT21CS119	i.	HackerRank Boot Camp Course by Study Online
10.	Srujana K	1JT21CS107	i.	HackerRank Boot Camp Course by Study Online
11.	Vishal M Koti	1JT21CS124	i.	Introduction to OpenShift Applications (DO101), 29 Dec. 2022
			ii.	Aircraft Integration and Testing at Kalpin Tech Pvt Ltd., 25 Nov. 2022 to 25 Dec. 2022
12.	Shrihari V P	1JT21CS100	i.	Attended online training on "Overview of Space Science" conducted by ISRO, 20 Jul. 2023 to 07 Aug. 2023
13.	Shreesha G Hegde	1JT21CS099	i.	HackerRank Boot Camp Course by Study Online
14.	Shravya	1JT21CS098	i.	Microsoft Azure Cloud Computing, 01 July 2022 to 31 Aug. 2022
			ii.	Mastering IoT with Arduino, 30 July 2023
			iii.	Mastering Arduino by building Real World Applications, 29 July 2023



15.	Rishab K Joshi	1JT21CS080	<ul style="list-style-type: none">i. Google Cloud Big Data and Machine Learning Fundamentals, 4 Jul. 2023ii. Exploring and Preparing your Data with Big Query, 6 Aug. 2023
16.	Veerabhadrayya	1JT21CS122	<ul style="list-style-type: none">i. Digital marketing certificate from Google Digital Garage
17.	Sai Prathik R	1JT21CS085	<ul style="list-style-type: none">i. IBM Cybersecurity Analyst Professional Certificate, Aug. 2023ii. "Forensics In Cybersecurity" held by IEEE Student Branch of BMSCE, Bengaluru, 28 Jun. 2023
18.	Srivathsa Nadig	1JT21CS106	<ul style="list-style-type: none">i. Game Music Composition, 9 May 2023ii. Orchestral Music Composition and Music Theory for Video Games, 25 May 2023iii. N5 Japanese Language Proficiency
19.	Siddhartha Mahesha Pundit	1JT21CS102	<ul style="list-style-type: none">i. Aircraft Integration and Testing at Kalpin Tech Pvt Ltd from 25 Nov. 2022 to 25 Dec. 2022
20.	Shravya	1JT21CS098	<ul style="list-style-type: none">i. Microsoft Azure Cloud Computing under Verzeo, 01 Jul. 2022 to 31 Aug. 2022
21.	Vandana R	1JT22CS408	<ul style="list-style-type: none">i. Introduction to Machine Learning, 25 and 26 Aug. 2023ii. Basics of Values, Ethics and Principles, 01 and 02 Aug. 2023iii. Communicate to Evolve, Grow and Lead, Dassault Systems, 29 to 31 Aug. 2023



22.	Rohith D.	1JT19CS075	i.	Google Drive Clone using HTML and Material CSS
23.	Vishal Naik	1JT19CS104	i.	System Administrator
24.	Vishwas J S	1JT19CS105	i.	Create your First Web App with Python and Flask
25.	Manoj V	1JT19CS052	i.	Classical Physics: Journey to the law of the Universe
26.	Nishanth P Kashyap	1JT19CS057	i. ii.	Python (basics) SQL(Basic)
27.	Chandrika V G	1JT19CS017	i. ii.	JavaScript For Beginners React JS Tutorial
28.	Sarvajith	1JT19CS081	i.	Java Programming
29.	Vikranth Prathap Singh	1JT20CS403	i.	Full Stack Java Developer
30.	Omkar R Deshpande	1JT19CS060	i. ii. iii.	Google Analytics for Beginners Programming for Everybody (Getting Started with Python) Data Science Foundation
31.	Satvik R Kundargi	1JT19CS082	i.	The Ultimate MySQL Bootcamp: Go from Sql Beginners to Expert
32.	Sahana H S	1JT19CS116	i.	Free JavaScript and Node.js Essentials Bootcamp
33.	G V Bhavana	1JT19CS113	i. ii.	Full Stack Web Development Program Java Programming
34.	Punitha Nagesh	1JT19CS065	i.	Python Basics
35.	Zaheer Abass	1JT19CS111	i.	MYSQL
36.	Ranjith Kumar C	1JT19CS070	i. ii.	Google Analytics for Beginners Linux Fundamentals
37.	Pranav B S	1JT19CS062	i.	Machine Learning



38.	Harsh Soni	1JT19CS033	i.	Internship completed at Broadridge
39.	Ajin Sumesh	1JT19CS005	i.	Internship completed at TEKsystems Global Services
40.	Gowtham Gowda	1JT19CS114	i.	Internship completed at Compsoft Technology
41.	Neeraj G K	1JT19CS117	i.	Internship completed at Codeside Global Solutions
42.	Saharsh S Kiran	1JT19CS077	i.	Internship completed at Icsolutions
43.	Ravi R V	1JT19CS072	i.	Internship completed at Icsolutions
44.	Vikrant Pratap Singh	1JT20CS403	i.	Internship completed at SHLR Technosoft Pvt.Ltd
45.	Vishal K	1JT19CS103	i.	Internship completed at TEQUED LABS
46.	Omkar R Deshpande	1JT19CS060	i.	Internship completed at TEQUED LABS
47.	Spoorthi U	1JT19CS089	i.	Internship completed at Icsolutions
48.	Shwetha N	1JT19CS088	i.	Internship completed at Varcons Technologies Pvt Ltd
49.	Ranjith Kumar R	1JT19CS071	i.	Internship completed at Compsoft Technologies
50.	Ranjith Kumar C	1JT19CS070	i.	Internship completed at TEQUED LABS
51.	Samartha Prabhhu A	1JT19CS078	i.	Internship completed at TEQUED LABS
52.	Sushma R	1JT19CS092	i.	Internship completed at Varcons Technologies Pvt Ltd
53.	Raghavendra P	1JT19CS066	i.	Internship completed at Compsoft Technologies
54.	Pranav B S	1JT19CS062	i.	Internship completed at Varcons Technologies Pvt Ltd



55.	Prasad Mohan Dhongadi	1JT19CS064	i. Internship completed at Icsolutions
56.	Rehman Sharif N A	1JT19CS073	i. Visual Computing Drone image analysis for identifying potholes on highways
57.	Prathana T	1JT19CS063	i. Internship completed at Str8bat Solutions ii. Internship completed at Exposys Data Labs

Faculty Interaction with the outside world

Sl. No.	Faculty Name	Workshop Title	Organized By	Period
1	Mr. Navile Nageshwara Naveen	2 Days Workshop on "Android Mobile Applications Development	Ballari Business College	11 Jan. 2023 and 12 Jan. 2023

NPTEL/External Courses Completed by Faculties

Sl. No.	Faculty Name	Designation	Course Name
1.	Dr. Manoj Kumar M	Associate Professor	5 days FDP on "Recent Advancements in Data Intelligence & its Applications" jointly organized by JIT and VTU
2.	Mr. Nagaraj A	Associate Professor	5 days FDP on Open Source Cyber Security Tools
3.	Mr. Madhu B R.	Assistant Professor	5 days FDP on Open Source Cyber Security Tools
4.	Dr. Swathi K	Associate Professor	AICTE - VTU Joint Teachers Training Programme on "Introduction to Python Programming & its Applications"
5.	Mr. Srinidhi	Assistant Professor	1 day Seminar on "IIC Regional



	Kulkarni		Meet-MoE's Innovation Cell Institutions' Innovation Council"
6.	Dr. Manoj Kumar M	Associate Professor	AWS Academy Educator Conference
7.	Mrs. S. Nikitha	Assistant Professor	5 days FDP on Open Source Cyber Security Tools
8.	Dr. Swathi K	Associate Professor	5 days FDP on "Open Source Cyber Security Tools"
9.	Dr. Manoj Kumar M	Associate Professor	5 days FDP on Open Source Cyber Security Tools
10.	Mr. Srinidhi Kulkarni	Assistant Professor	5 days on "Recent Advancements in Data Intelligence & Its Applications"
11.	Mrs. S. Nikitha	Assistant Professor	1 day webinar on "Fostering Research & Innovation in Institutions for Strengthening Tomorrow"
12.	Dr. Manoj Kumar M	Associate Professor	6 days workshop on National e-Workshop on Innovation & Intellectual Property Rights
13.	Mr. Srinidhi Kulkarni	Assistant Professor	5 days FDP on Open Source Cyber Security Tools
14.	Dr. Manoj Kumar M	Associate Professor	IGC/RDC 2022-23 Camp by 1 Karnataka BN NCC
15.	Mrs. S. Nikitha	Assistant Professor	AICTE Training & Learning Academy "Artificial Intelligence & Machine Learning Techniques for Precision Agriculture"
16.	Ms. Namratha B. S.	Assistant Professor	1 day Seminar on "IIC Regional Meet-MoE's Innovation Cell Institutions' Innovation Council"
17.	Mrs. S. Nikitha	Assistant Professor	AICTE - VTU Joint Teachers Training Programme on "Introduction to Python Programming & its Applications"
18.	Mrs. Rekha V	Assistant Professor	5 days FDP on "Recent Advancements in Data Intelligence & its Applications" jointly organized by JIT and



			VTU
19.	Ms. Namratha B. S.	Assistant Professor	5 days FDP on Open Source Cyber Security Tools
20.	Mr. Basavesh D	Assistant Professor	5 days FDP on Open Source Cyber Security Tools
21.	Ms. Namratha B. S.	Assistant Professor	AICTE - VTU Joint Teachers Training Programme on "Introduction to Python Programming & its Applications"
22.	Mr. Akhilesh S Narayan	Assistant Professor	5 days FDP on "Recent Advancements in Data Intelligence & its Applications" jointly organized by JIT and VTU
23.	Mrs. Madhu G	Assistant Professor	5 days FDP on "Recent Advancements in Data Intelligence & its Applications" jointly organized by JIT and VTU
24.	Mr. Navile Nageshwara Naveen	Assistant Professor	5 days workshop "Skill Development Program"
25.	Mrs. Prithvi B S	Assistant Professor	5 days FDP on "Recent Advancements in Data Intelligence & its Applications" jointly organized by JIT and VTU
26.	Mrs. Roopa Onkar Deshpande	Assistant Professor	3 days Workshop on MEMS Integration with Electronic Circuits
27.	Mr. Navile Nageshwara Naveen	Assistant Professor	5 days FDP on "Recent Advancements in Data Intelligence & its Applications" jointly organized by JIT and VTU
28.	Mrs. Prathibha K N	Assistant Professor	3 days Workshop on MEMS Integration with Electronic Circuits
29.	Mrs. Roopa Onkar Deshpande	Assistant Professor	5 days FDP on "Recent Advancements in Data Intelligence & its Applications" jointly organized by JIT and



			VTU
30.	Mr. Navile Nageshwara Naveen	Assistant Professor	2 days National Seminar on Sanskrit-IKS & ICT (Information & Communication Tools)
31.	Mrs. Saravana M K	Assistant Professor	2 days National Seminar on Bharat @ 75 Unnat Shikshan Unnat Bharat
32.	Mr. Srinidhi Kulkarni	Assistant Professor	Virtual - Innovation Ambassador (IA) Training "Advanced Level"
33.	Mr. Navile Nageshwara Naveen	Assistant Professor	BITES Annual Convention 2022
34.	Ms. Namratha B. S.	Assistant Professor	Python 101 for Data Science
35.	Ms. Namratha B. S.	Assistant Professor	Data Scientist Masters Program
36.	Ms. Namratha B. S.	Assistant Professor	Training Program on Tableau Training
37.	Ms. Namratha B. S.	Assistant Professor	Python for Data Science
38.	Ms. Namratha B. S.	Assistant Professor	Linear Regression with Numpy & Python
39.	Ms. Namratha B. S.	Assistant Professor	Regular Expressions in Python
40.	Mr. Akhilesh S Narayan	Assistant Professor	Crash Course on Python
41.	Mr. Akhilesh S Narayan	Assistant Professor	Virtual - Innovation Ambassador (IA) Training "Advanced Level"
42.	Mr. Akhilesh S Narayan	Assistant Professor	Virtual - Innovation Ambassador (IA) Training "Foundation Level"
43.	Mr. Basavesh D.	Assistant Professor	"Introduction to Kubernetes"
44.	Dr. Annie Sujith	Associate Professor	Web Development Bootcamp
45.	Dr. Annie Sujith	Associate Professor	Virtual - Innovation Ambassador (IA) Training "Advanced Level"
46.	Dr. Annie Sujith	Associate Professor	Virtual - Innovation Ambassador (IA) Training




			"Foundation Level"
47.	Dr. Annie Sujith	Associate Professor	AICTE - VTU Joint Teachers Training Programme on "Introduction to Python Programming & its Applications"
48.	Dr. Annie Sujith	Associate Professor	"ChatGPT: Its Impact on Higher Education & Academic Libraries"
49.	Mrs. Prithvi B S	Assistant Professor	Adobe XD UI UX Design
50.	Mrs. Rekha V	Assistant Professor	Advance Dashboards Using Microsoft Excel
51.	Mrs. Rekha V	Assistant Professor	Become an Expert in Data Analytics using Microsoft Excel
52.	Mrs. Rekha V	Assistant Professor	Microsoft Power BI
53.	Mrs. Rekha V	Assistant Professor	Introduction to Dashboards, Macros/VBA using Microsoft Excel
54.	Dr. Manoj Kumar M	Associate Professor	Introduction to OpenShift Application (DO101)
55.	Dr. Swathi K	Associate Professor	5 days FDP on "Recent Advancements in Data Intelligence & its Applications" jointly organized by JIT and VTU
56.	Dr. Annie Sujith	Associate Professor	5 days FDP on "Recent Advancements in Data Intelligence & its Applications" jointly organized by JIT and VTU
57.	Mr. Basavesh D.	Assistant Professor	AICTE - VTU Joint Teachers Training Programme on "Introduction to Python Programming & its Applications"
58.	Dr. Manoj Kumar M	Associate Professor	NeW IPR 2023 e-Workshop organized by Innovative Technology Enabling Centre (InTEC), CSIR-IMMT, Bhubaneswar



59.	Dr. Manoj Kumar M	Associate Professor	Google Cloud Computing Foundations: Cloud Computing Fundamentals
60.	Dr. Manoj Kumar M	Associate Professor	Google Cloud Computing Foundations: Infrastructure in Google Cloud
61.	Dr. Manoj Kumar M	Associate Professor	Google Cloud Computing Foundations: Networking & Security in Google Cloud
62.	Dr. Manoj Kumar M	Associate Professor	Google Cloud Computing Foundations: Data, ML, and AI in Google Cloud
63.	Dr. Manoj Kumar M	Associate Professor	Perform Foundational Infrastructure Tasks in Google Cloud
64.	Dr. Manoj Kumar M	Associate Professor	Build and Secure Networks in Google Cloud
65.	Dr. Manoj Kumar M	Associate Professor	Perform Foundational Data, ML, and AI Tasks in Google Cloud
66.	Dr. Manoj Kumar M	Associate Professor	Create and Manage Cloud Resources
67.	Dr. Manoj Kumar M	Associate Professor	How to Crush Self-Doubt and Build Self-Confidence
68.	Dr. Manoj Kumar M	Associate Professor	IBM Cloud Advocate Essentials
69.	Dr. Manoj Kumar M	Associate Professor	Google Cloud Computing Foundations: Cloud Computing Fundamentals

Branch Overall Toppers: Class of 2023

OMKAR R DESHPANDE			SHRAVAN K G		
USN : 1JT19CS060	Sem.	GPA	USN : 1JT19CS086	Sem.	GPA
	I	9.30		I	9.10
	II	9.85		II	9.55
	III	8.75		III	8.58
	IV	9.96		IV	8.96
	V	8.84		V	8.64
	VI	9.29		VI	9.13
	VII	8.80		VII	8.80
	VIII	9.33		VIII	9.83

INFORMATION SCIENCE



"Bytes of Brilliance: Weaving Insights from Information."

INFORMATION SCIENCE AND ENGINEERING

Magazine co-ordinator: Nandini D

Asst. Professor



BATCH OF 2019-2023





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 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

Message from the HOD

I am extremely happy that **JITimes 2022-23** 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 produces 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.
Mr. Manjesh B N	Assistant Professor	M.Tech, (Ph.D)
Mrs. Anupama V P	Assistant Professor	M.Tech, (Ph.D)
Mrs. Rashmi K S	Assistant Professor	M.Tech, (Ph.D)
Mrs. Nandini D	Assistant Professor	M.Tech
Ms. Rakshatha S	Assistant Professor	M.Tech, (Ph.D)
Mr. Avinash N Rao	Assistant Professor	M.Tech

Non-Teaching Staff

NAME OF STAFF	DESIGNATION
Mr. Abhilash G	Instructor
Mr. Prajwal Patil	Instructor
Mr. Rahul N	Instructor
Mr. Nithan N D	SDC



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

TECHNICAL TALK/WORKSHOP

- Dr Kishore G R and Prof. Rashmi K S conducted a workshop on **“Research paper writing for final year project”** on 12th January 2023 at Jyothy Institute of technology.
- Dr Kishore G R was invited as Resource Person for two days workshop on **“Approach Towards Digital World”** on 6th and 7th March 2023 at SIET, Tumakuru.
- Dr Kishore G R was invited as Jury for **Gamethon 2023** by Adi Shankara Institute of Engineering and Technology.
- Prof. Manjesh B N successfully delivered a Technical Talk on **“How to make a Presentation in Latex”** on 2nd February 2023 at Adichunchanagiri University BGS Institute of Technology.
- A Technical Talk was organized on December 3rd, 2022 on the topic **“All about internships”**. The Talk was delivered by Mr. Yash Shah, a specialist in the field of Big data at Dev-Ops Informatica.
- A Technical Talk was organized on December 5th, 2022 on the topic **“Cyber security and Cyber Forensics”**. The Talk was delivered by Mr. Suresh Kumar B, founder and CEO, Texial and director of Incognito Forensic Foundation.



- A National Level Technical Talk was organized on August 26th, 2022 on the topic “**Machine Learning Applications in Farm to Fork Operations**”. The Talk was delivered by Dr. Neeraj Goel, Assistant Professor in Department of Computer Science and Engineering, IIT Ropar.

FACULTY CERTIFICATIONS

Mrs. Nandini D successfully attended the **ACM-India CSEd Workshop** held at IIT Gandhinagar in hybrid mode, and obtained **Certification of Participation** on December 23, 2022.

Mrs. Nandini D successfully participated in a Five-day online National-Level Workshop on “**Deep Learning and its Applications**” organized by the Department of Computer Science & Engineering, Kalpataru Institute of Technology, Tiptur held from "6th March 2023 to 10th March 2023", and obtained a **Certification of Participation**.

Dr. Kishore G R successfully completed the course **Microsoft Azure Fundamentals**, and obtained **Microsoft Certification** on March 13, 2023

Mrs. Anupama V P successfully participated in a Five-day online National-Level Workshop on “**Deep Learning and its Applications**” organized by the Department of Computer Science & Engineering, Kalpataru Institute of Technology, Tiptur held from 6th March 2023 to 10th March 2023 and obtained a **Certification of Participation**.

Mrs. Anupama V P successfully attended the AICTE Recognized Faculty Development Programme on **Open Source Cyber Security Tools** Conducted by Information Management and Emerging Engineering Department, held from 22/08/2022 to 26/08/2022 (One Week) and obtained **Certification of Participation**.



Ms. Rakshatha S successfully attended the Webinar on "**Fostering Research & Innovation in Institutions for Strengthening Tomorrow**" by Dr. Krishna Venkatesh and obtained a **DELNET Certification** on February 25, 2023.

Ms. Rakshatha S successfully attended the **ACM-India CSEd Workshop** held at IIT Gandhinagar in hybrid mode, and obtained **Certificate of Participation** on December 23, 2022.

Mrs. Rashmi KS successfully attended the **ACM-India CSEd Workshop** held at IIT Gandhinagar in hybrid mode, and obtained **Certificate of Participation** on December 23, 2022.

FACULTY PUBLICATIONS

- Prof. Manjesh B N presented/published a paper titled “ **A Novel EHR Based Extraction And Association Techniques To Identify Prevalent Medical Conditions**” at TIJER -International Research Journal during February 2023
- Prof. Anupama Vijaykumar participated and presented a paper titled "**Personalized E-learning System using Linear Regression for Intelligent Tutoring Systems**" at **Intelligent Computing and Communication (ICICC-22)** during 18th-19th November, 2022, held at GNITS, Hyderabad, India.

CONFERENCE/WORKSHOP/FDP ATTENDED BY FACULTY

- Prof. Nandini D successfully attended the **ACM-India CSEd Workshop** held at IIT Gandhinagar in hybrid mode, and obtained **Certification of Participation** on December 23, 2022.
- Prof. Rakshatha S successfully attended the **ACM-India CSEd Workshop** held at IIT Gandhinagar in hybrid mode, and obtained **Certification of Participation** on December 23, 2022.



- Prof. Rakshatha S successfully attended the Webinar on "**Fostering Research & Innovation in Institutions for Strengthening Tomorrow**" by Dr. Krishna Venkatesh and obtained a **DELNET Certification** on February 25, 2023.
- Prof. Rashmi KS successfully attended the **ACM-India CSEd Workshop** held at IIT Gandhinagar in hybrid mode, and obtained **Certification of Participation** on December 23, 2022.
- Prof. Anupama Vijaykumar successfully participated in a Five-day online National-Level Workshop on "**Deep Learning and its Applications**" organized by the Department of Computer Science & Engineering, Kalpataru Institute of Technology, Tiptur held from 6th March 2023 to 10th March 2023 and obtained a **Certification of Participation**.
- Prof. Anupama Vijaykumar obtained a **Microsoft Certification** for successfully completing the **Microsoft India & SAP India led Faculty Development Program on "Artificial Intelligence"**, held from "23rd Feb. 2023 – 25th Feb. 2023".
- Prof. Anupama Vijaykumar successfully attended the AICTE Recognized Faculty Development Programme on **Open Source Cyber Security Tools** Conducted by Information Management and Emerging Engineering Department, held from 22/08/2022 to 26/08/2022 (One Week) and obtained **Certification of Participation**.
- Prof. Manjesh BN obtained a **Certificate of Appreciation** for contributing as **reviewer for First IEEE International Conference on Data Science and Network Security (ICDSNS – 2023)** organized by Kalpataru Institute of Technology, Tiptur, held on 28th and 29th July 2023.
- Prof. Manjesh BN obtained a **Certificate of Appreciation** for contributing as **session chair for First IEEE International Conference on Data Science and Network Security (ICDSNS – 2023)** organized by Kalpataru Institute of Technology, Tiptur, held on 28th and 29th July 2023.
- Prof. Nandini D successfully participated in a Five-day online National-Level Workshop on "**Deep Learning and its Applications**" organized by the Department of Computer Science & Engineering, Kalpataru Institute of Technology, Tiptur held from "6th March 2023 to 10th March 2023", and obtained a **Certification of Participation**.



STUDENT RESEASRCH PUBLICATIONS

- **Dr. Divakar H** , Pragna CP (1JT19IS029), Padmaja K (1JT19IS027), Lavanya MS (1JT19IS017), and Nikhil Dhruva L (1JT19IS023), **Image encryption using Cryptography , Selected for funding from KSCST: 46th Series of Student Project Programme.**
- **Dr. Kishore G R**, Thanmay Bharadwaj (1JT19IS053), Inchara J A (1JT19IS012), Sanjana Harish H (1JT19IS043), and Manthan B M (1JT19IS020), **Machine Learning based Diabetics wound recognition using Poly approximation algorithm, Published paper in TIJER journal May 2023 in the domain of Health Science.**
- **Dr. Kishore G R**, Anusha M S (1JT19IS006), Amrutha M (1JT19IS003), Preksha S (1JT19IS033), and Shashank Purohit (1JT19IS046), **Design and Development of IoT-based Improved Electric Smart Meter to monitor domestic energy consumption , Paper Published : UGCARE Journal TIJER - INTERNATIONAL SPACE RESEARCH JOURNAL**
- **Dr. Kishore G R**, Rachana Shekar Rao (1JT19IS036), Rakshita M (1JT19IS038), Preksha S (1JT19IS033), Prajwal Kumar(1JT19IS031) and Suhasi G S(1JT19IS050), **Design and Development of IoT-based Improved Electric Smart Meter to monitor domestic energy consumption , Paper Published : UGCARE Journal TIJER - INTERNATIONAL SPACE RESEARCH JOURNAL**
- **Prof. Nandini D**, Kushal V (1JT19IS016), Ananya T K (1JT19IS004), Aishwarya A K (1JT19IS002), and Ankith Y Bhounsle (1JT19IS005), **Hand Gesture Control using Computer vision technology ,1. Paper Published in the prestigious TIJER publication, which is a testament to the high-quality research and hard work put forth by our team. 2. Participated in the RV Project Exhibition 2023**
- **Prof. Manjesh B N** , Adarsha K (1JT19IS001), Darshan N (1JT19IS008), Nithin Kumar P (1JT19IS025) and Prajwal K



- **Prof. Nandini D** , Karthik V (1JT19IS014), Balakrishna K (1JT19IS007), Mohith G R (1JT19IS022), and H C Prabal Holla (1JT19IS010), **Extended Reality for enhancing student learning , 1. Selected for funding from KSCST: 46th Series of Student Project Programme. 2. Participated in the project exhibition at Vemana College of Engineering. 3. Paper publication under process in Computer Science and Information Systems[ComSIS] journal .**
- **Prof. Anupama V P** , Jayashree K (1JT19IS013), Pranitha S Urs (1JT19IS032,S.Prateeksha sharma(1JT19IS040) and Supriya K (1JT19IS052), **“A review on Outcome based education through learning management systems”** , Published paper in IJERT journal 2023 based on the domain Artificial Intelligence and Education.
- **Prof. Anupama V P** , Megha V (1JT19IS021), Nishmitha R Bhat (1JT19IS024)and Sharanya B R (1JT18CS046), 2022, **“A survey on Heart disease prediction model ”**, Paper Published in IRJMETS issue 2023
- **Prof. Rashmi K S** , Yashwanth B L (1JT19IS056), Priyanka Suresh (1JT19IS035), Rakshith Gowda C (1JT19IS057), and Sharada Varshini (1JT18IS053), **“Maize crop yield estimation using Image Processing and Machine Learning”** , The project is approved and carried out at **ISRO-RRSC south** under the guidance of Vinod P V senior scientist and engineer **ISRO Bangalore**
- **Prof. Rashmi K S** , Yamini Hari (1JT19IS055), Varuni H Kulkarni(1JT19IS054), Rashmi R Bharadwaj (1JT19IS039), and Rahul Kumar (1JT20IS400), **“A deep learning based decision support system for breast cancer cell grading”**, Participated in **National level project competition at MSRIT, 2023** and Participated in a **State level project exhibition at RVITM, 2023**
- **Prof. Rakshatha S** ,Gopika V Pillai (1JT19IS009),Priyanka R (1JT19IS034),Sahana C (1JT19IS041) and Sandhya H(1JT19IS042), **“An IoT based-automated accident alert system:a simulation”** participated in **NLPC 2023(M.S.Ramaiah) ,State-level Project Exhibition(Chikkamagaluru) secured I place.**



GAMEATHON

GAMEATHON 5.0, was organized by the department with association of the student club **BitsNBytes**, it is one of the most interesting and popular events across the country. It is a 24-hour Game Development Competition.

Gmaeathon has reached another milestone last year,with 40 teams from all around the country participating and constructing absolutely incredible games. This year Gameathon 5.0 stepped up the game by opening up the event to global participants from various institutes.

This was the first year the department had taken the event to the **international audience** and it was a grand success! Gamethon 5.0 had over **200 teams** (with **500 participants** joining us on our vibrant campus on the D-Day) from over **20** colleges in Bangalore, over **10** colleges throughout India and over **3** Institutes across the world participating in this event.





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-profitable club that aims to help the students to bridge the gap between the theoretical and practical knowledge of the students in various fields of engineering at our college.

Roles And Responsibilities

1. F.R.I.D.A.Y - Deepthi G (7th Semester, ISE) - Lead of the club
2. Captain Code - Shishira S Bayari (7th Semester, ISE) - Lead of the club
3. J.A.R.V.I.S - Ujwal S C (7th Semester, ISE), R Jeevan Kashyap (7th Semester, ISE)- Coding geeks of the club
4. Code Siren - D K S Jahnavi (7th Semester, ISE), Sathvik P Narayan (7th Semester, ISE)- Evangelizers team
5. Napster - Prerana R (7th Semester, ISE), Venkat C (7th Semester, ISE)- Offline Activities Coordinator team
6. Code Cipher - Mahalakshmi H C (7th Semester, ISE), Ananya M N (7th Semester, ISE)- Online Activities Coordinators team

Various activities held under the club

●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.

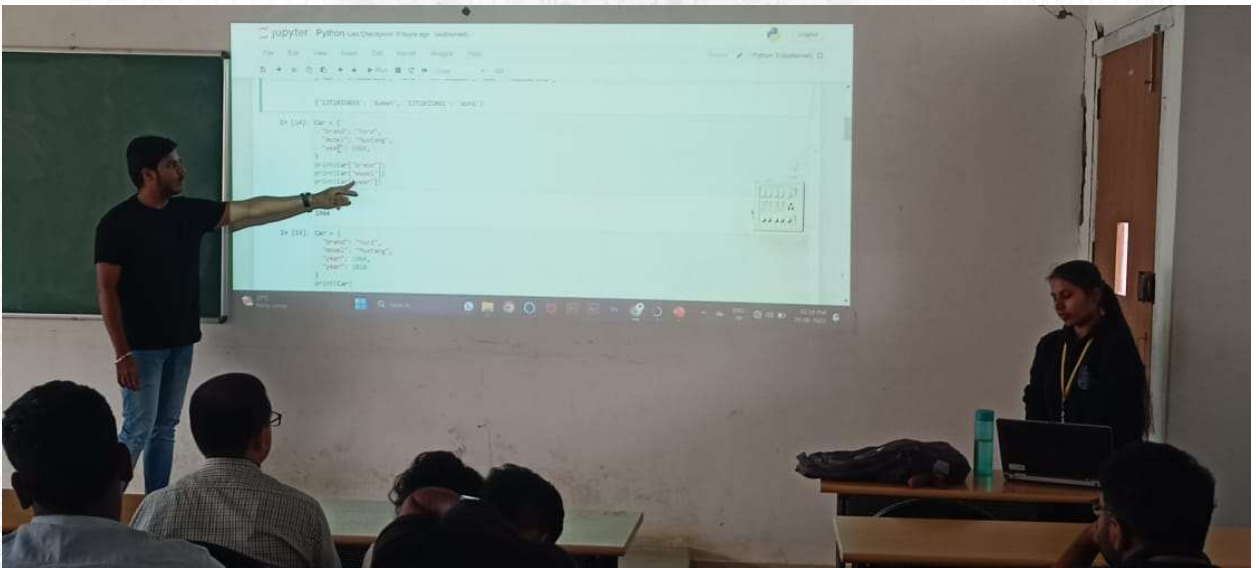
●Gameathon:

Gameathon is an annual event where people get together and develop a game over the 24 hours.It is an annual exhilarating contest for beginners and veterans alike to develop their innovative ideas into an engaging game. This gives an opportunity to every game developer to learn and master the skills required to create their own masterpiece.

●Student workshops were held on various technical topics for the betterment of the students.



Basics of Java Programming Workshop



Python Programming Workshop



STATE-LEVEL PROJECT EXHIBITION

- The State Level Project Exhibition-2023 was organized by Adichunchanagiri Institute of Technology, Chikkamagaluru on 5th May 2023. The final year students – Gopika V Pillai, Priyanka R, Sahana C, and Sandhya H, participated and **secured first prize for the project entitled “A Humanoid Model for Automated Accident Alert System”** under the guidance of Prof. Rakshatha S. Notably, the students secured first place out of fifty teams.



- Another team of final year students **won second place in State Level Project Exhibition Protatva 2023 at RV Institute of Technology and Management, Bangalore.** Under the guidance of Dr kishore G R. Team :Rachana ,Rakshitha, Suhasi ,and Prajwal





INDUSTRIAL VISIT REPORT: ISRO MASTER CONTROL FACILITY, HASSAN

On the 18th of August 2023, the students of 4th semester students had the opportunity of visiting the **Indian Space Research Organization (ISRO) Master Control Facility (MCF)- Hassan**. The visit provided the students with a comprehensive insight into the intricate world of satellite technology, its functions, and the impressive efforts that go into managing space operations.



PROJECT EXHIBITION

Jyothy Institute of Technology conducted Project Exhibition for the final year students across all the departments of the college.

Department of ISE invited Dr. Vindhya P Malagi HoD-AIML, DSCE as the Jury for the event, where all the students participated were showcased their projects.

First place was won by:

USN	Student Name	Guide	Project Title
1JT19IS036	Rachana Shekar Rao	Dr. Kishore G R	Categorizing grievances given through a voice input system using NLP
1JT19IS038	Rakshita M		
1JT19IS031	Prajwal Kumar		
1JT19IS050	Suhasi G S		



Second place was won by:

USN	Student Name	Guide	Project Title
1JT19IS016	Kushal V	Prof. Nandini D	Hand Gesture Control using Computer vision technology
1JT19IS004	Ananya T K		
1JT19IS002	Aishwarya A K		
1JT19IS005	Ankith Y Bhounsle		

INTERNSHIP ON DRONE ASSEMBLY

The Drone assembly Internship was conducted by the **Centre for Incubation Innovation, Incubation and Research Counsaltancy (CIIRC)** . B S Shreesha and Hariharan Radhakrishnan took part in this internship and acquired knowledge on drone building which was conducted for a month. The internship involved making drones for national safety which was handed over to the Department of Armed Forces Govt. Of India. Totally 64 drones were assembled on the campus.





REPORT ON 'ROBO OCEANA'

“**ROBO OCEANA**” is a competition that was held by **Shaastra at IIT Madras**, the competition was all about building a hovercraft at the campus, making a video of it as suggested by them, and sending it to the team of shaastra for the further selection process.

Students of ISE registered for the competition and started to build a hovercraft, they built a sample model of the hovercraft under the guidance of Autonomous System Labs and under the mentor ship of Dr. Kishore G R



FARM VISIT

On January 16th, 2023, students of the 3rd semester embarked on an educational excursion to **Good Way Organics**, a unique farm located in Bengaluru, India. This extraordinary field trip was led by Mr. Mahendra Kumar, an Agri-Entrepreneur and the founder of Good Way Organics. The objective of the visit was to provide students with practical insights into the world of organic farming and waste management led by Prof. Nandini D.





JYOTHY PREMIERE LEAGUE

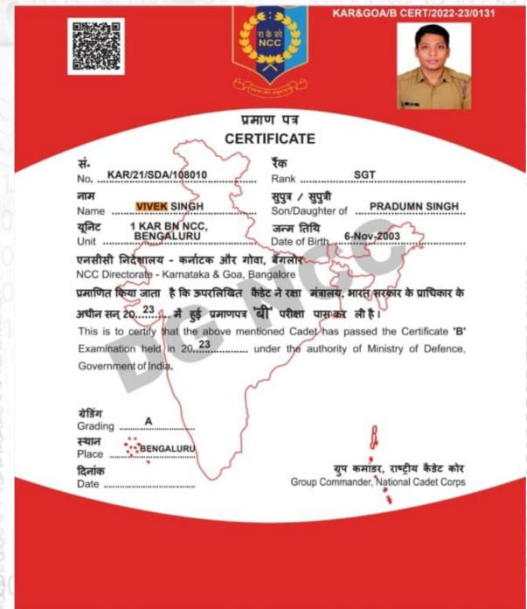


Dr Kishore G R and Dr Manoj Kumar M won 1st in the JPL table tennis conducted on 7th August 2023.

Information Science and Engineering Department 2023

NCC CERTIFICATION

Vivek Singh from the department has cleared the “**B Exam**” under the **Authority of Ministry of Defence**. Passing the NCC exam is a testament to dedication, where discipline and honor meet in preparation.






NPTEL/EXTERNAL COURSES COMPLETED BY STUDENTS

Sl. no	Name of the Student	USN	Course
1	Kushal V	1JT19IS016	Programming in Java
2	Venkat C	1JT20IS050	Programming in Java
3	Aneesh krishna	1JT21IS005	Programming in Java
4	Hariharan R	1JT21IS020	Programming in Java
5	Nikhitha A	1JT21IS034	Programming in Java
6	Shreyas H K	1JT21IS050	Cloud Computing and Distributing Systems
7	Vishesh V	J1T21IS061	Programming in Java

BRANCH TOPPERS 2023

KARTHIK V		
USN: 1JT19IS014	Sem	GPA
	I	9.45
	II	9.85
	III	9.17
	IV	9.17
	V	8.92
	VI	8.92
	VII	9.15
	VIII	9.5
Cum. GPA (CGPA): 9.27		

ANANYA T K		
USN: 1JT19IS004	Sem	GPA
	I	8.25
	II	8.95
	III	7.92
	IV	8.33
	V	8.32
	VI	8.58
	VII	8.6
	VIII	9.5
Cum. GPA (CGPA): 8.56		

ELECTRONICS AND COMMUNICATION



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

ELECTRONICS AND COMMUNICATION ENGINEERING

Magazine co-ordinator: Dr. Hamsa S
Asst. Professor



BATCH OF 2019-2023





Dr. K Chandrasekhar
Professor and 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

M1: Strive to provide state of Art infrastructure in classrooms and laboratories

M2: Enable all round development with individual attention and innovative teaching and learning methodology

M3: Impart leadership qualities into the students by exposing them to industry and research in global Electronics and Communication Engineering domain

Department of Electronics and Communication Engineering

Message from the Head

The department of Electronics and Communications Engineering (ECE) continuously strives to keep exemplary academic standards. The highly motivated faculty of the department emphasize to prepare students to be ready to take on the multicultural global work environment. The co-curricular activities are designed in this direction to make them to be industry ready.

Regular student development programmes are conducted with hands-on workshops to minimize the curriculum industry gap. The department is continuously engaged in creating a welcome atmosphere for reception and encouragement of innovative ideas. Students are encouraged to take up individual/team-based innovative projects. The motto of the department is to continuously strive to create exceptional entrepreneurs and better human beings, who would take their education and attitude they gained in the institution a long way in creating a better society.

Department Advisory Board

NAME	DESIGNATION
Dr. Dinesh N S	Professor, DESC, IISc
Dr. Anil Kumar Ramesh	Director-R&D, Dover Corp.
Dr. Kumaraswamy K V	Team Lead, Trident Tech. Labs
Dr. Kumaraswamy H V	Professor, R V College of Engineering
Dr. Geetha Priya M	Professor, ECE Dept, JIT
Dr. K Chandrashekhar	Chairman & HoD, ECE Dept, JIT
Ms. Anuradha	HR Assistant, Accenture (Alumni)



TEACHING FACULTY

NAME	DESIGNATION	QUALIFICATION
Dr. K Chandrashekhar	Professor & Head	M.Tech, Ph.D
Dr. Geetha Priya M	Professor	Ph.D
Dr. Ajjaiah H B M	Associate Professor	M.Tech, Ph.D
Dr. Chethana K	Associate Professor	M.Tech, Ph.D
Dr. Asha Bharathi S	Associate Professor	M.Tech, Ph.D
Dr. Tarun Parashar	Associate Professor	M.Tech, Ph.D
Dr. Hamsa S	Associate Professor	M.Tech, Ph.D
Mr. Chandrashekhar B M	Assistant Professor	M.Tech, (Ph.D)
Mrs. Sumangala Gejje	Assistant Professor	M.Tech, (Ph.D)
Mr. Nagesh Kumar D N	Assistant Professor	M.Tech, (Ph.D)
Mr. Madhukar M	Assistant Professor	M.Tech, (Ph.D)
Mrs. Smitha Agrawal	Assistant Professor	M.Tech, (Ph.D)
Mr. Deepak V Ingale	Assistant Professor	M.Tech, (Ph.D)
Mrs. Srilakshmi R	Assistant Professor	M.Tech, (Ph.D)
Mr. Rajesh Sudhi	Assistant Professor	M.Tech, (Ph.D)
Mrs. Kritika P J	Assistant Professor	M.Tech, (Ph.D)
Mrs. Bhargavi N G	Assistant Professor	M.Tech, (Ph.D)
Mr. Shivaraj A	Assistant Professor	M.Tech, (Ph.D)

VISITING PROFESSOR

NAME	DESIGNATION	QUALIFICATION
Prof. N Narasimha Swamy	Professor	M.Tech

NON-TEACHING FACULTY

NAME	DESIGNATION
Mr. Goutham C	Foremen
Mr. Shashi Kumar S V	Senior Instructor
Mrs. Ranjitha Bhat	Senior Instructor
Mr. Prabhu	Senior Instructor
Mrs. Chandana T V	Instructor
Ms. Medha Chowdhary M	Instructor
Mrs. Manjula K M	SDC



DEPARTMENT EVENTS

IOT Applications Using Embedded System: In the realm of Internet of Things (IoT), the Department of Electronics and Communication Engineering collaborated with the IEEE JIT Student Branch and IEEE Signal Processing Society to conduct a workshop for third-year students in their fifth semester throughout the month of October. The primary objective of this workshop was to provide students with hands-on experience and exposure to project-based learning, with a specific focus on embedded systems utilizing various sensors. This enriching workshop spanned from the 10th to the 14th of October 2022. The central theme of the workshop centered on the integration of sensors with Arduino Uno, ESP 32, and ESP 8266 platforms to create projects aimed at addressing societal challenges.



IEEE-JIT STUDENT BRANCH
IN ASSOCIATION WITH
DEPT. OF ELECTRONICS AND COMMUNICATION
(ACCREDITED BY NBA), JIT
&
IEEE BANGALORE SECTION
PRESENTS

"IoT APPLICATIONS USING EMBEDDED SYSTEM"

INTERNET OF THINGS (IOT) IS THE TALK OF THE HOUR IN PRESENT TECHNOLOGY. IT HAS WIDE RANGE OF APPLICATIONS FROM AGRICULTURAL TO INDUSTRIAL. IOT IS TAKING A VERY IMPORTANT ROLE IN BUILDING SMART CITIES, HEALTHCARE DEVICES, SMART GRIDS, SMART HOMES, ETC.

EXPERTS:
MR. DEEPAK V INGALE
ASST.PROF, ECE, JIT.
MR. RAJESH SUDI
ASST.PROF, ECE, JIT.

SESSION DETAILS:
TIMING :9:30 A.M.
VENUE: COMPUTER LAB.
DATE: 10-10-2022.

MR. RAJESH SUDI
SENIOR MEMBER, IEEE,
BRANCH COUNSELLOR,
IEEE STUDENT BRANCH, JIT.

DR. K. CHANDRASEKHAR
SENIOR MEMBER, IEEE,
PROF. AND HEAD,
DEPT. OF ECE, JIT.

DR. GOPALAKRISHNA K
PRINCIPAL, JIT.

FOR FURTHER OUTRES :VISHWAS (+91 97415 33521), RAMKUMAR (+91 6364 114 847)

Application of Firebird V Robot for Embedded System: The Electronics and Communication Engineering Department partnered with the IEEE JIT Student Branch and the IEEE Signal Processing Society to organize a week-long robotics workshop held from October 17th to 21st, 2022. This workshop was exclusively designed for third-year students in the Electronics and Communication Engineering program, providing them with an immersive, practical learning opportunity in the field of robotics and programming. The central focus of the workshop revolved around achieving



proficiency in embedded C programming and gaining expertise in operating the Firebird V robot's intricate features.



IEEE Week Celebration: The Department of Electronics and Communication Engineering (ECE) at JIT hosted a spectacular IEEE Week Celebration that brought together students from various branches of the institution. This vibrant event offered a diverse range of activities, encompassing both technical and non-technical dimensions, as well as sporting competitions. Under the technical category, students engaged in circuit debugging challenges, tested their knowledge with technical crosswords, and competed in a thrilling quiz. Meanwhile, non-technical events such as treasure hunts and family feud added an element of fun and camaraderie. Not to be left out, sports enthusiasts had the chance to showcase their skills in box cricket and badminton, a delight for both students and faculty members. To top it all off, exciting cash prizes were awarded to the deserving winners, making this IEEE Week Celebration a memorable and rewarding experience for all participants.





Kannada Rajyotsava: In a vibrant demonstration of cultural pride and solidarity, the graduating students from the Department of Electronics and Communication Engineering joined forces to commemorate "Rajyotsava." They organized an energetic procession, marked by the waving of colorful flags and an unmistakable enthusiasm that filled the air. As they paraded through the streets, they proudly exhibited the rich heritage and traditions of their state. This procession served not only as a symbol of their profound connection to the roots of their region but also as a compelling reminder of the significance of honoring and safeguarding the cultural diversity that distinguishes their state. Through their collective endeavors, they showcased their unwavering dedication to preserving and cherishing the customs that define their identity, leaving an enduring impression on the campus community.



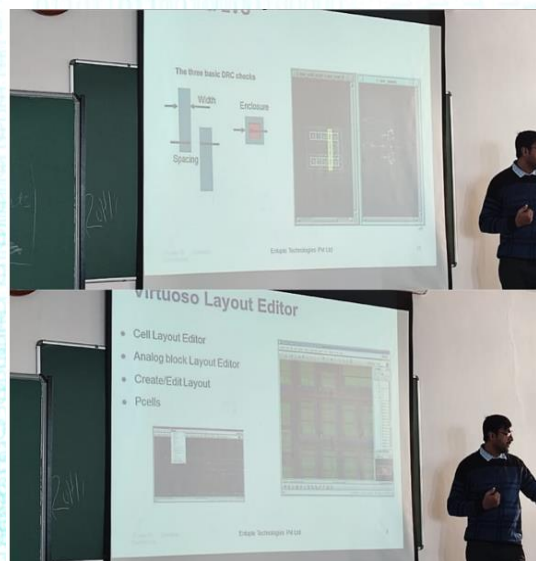
Gameathon 5e, Hackathon 4e, Robothon 1e: The Bits and Bytes Club of Jyothy Institute of Technology, in collaboration with the Department CSE,ISE, and co-hosted by department of Electronics and Communication Engineering, skillfully organized Gameathon 5e where the captivating event took place over November 25th and 26th, 2022,, Hackathon 4e was conducted during 17th and 18th of December 2022. The exhilarating competition spanning an intense 24-hour period. The primary objective was clear: participants were tasked with harnessing their creativity and programming expertise to create an engaging game centered around a specified theme.



In a fiercely competitive field that featured a total of 170 teams, of which 140 teams were on campus and the rest were online. Students from the Electronics and Communication Engineering (ECE) department stood out with their enthusiastic participation, fielding a total of five teams. They showcased their innovative spirit and technological prowess. This event not only encouraged innovation but also highlighted the dynamic cross-disciplinary collaborations within the institution.



VLSI Workshop: The VLSI workshop, held in collaboration between the Department of Electronics and Communication Engineering (ECE), IEEE JIT, Signal Processing Society, and Entuple Technologies Pvt Limited, took place on December 19th and 20th, 2022. This event was meticulously organized for 7th-semester students, with the invaluable expertise of resource persons Mr. Priyanshu Datta and Mr. Venkatesh. The workshop's primary objective was to offer a hands-on experience, guiding students through the intricacies of both analog and digital VLSI workflows using the Cadence toolset.





"ECE Freshers' Welcome Day: Nivista'": The third and final year students of Department of Electronics and Communication Engineering (ECE) hosted a special "Fresher's Day" event for 3rd-semester students on December 24th, 2022. The event was organized by the students of department. The primary aim of this initiative was to extend a warm welcome to the 3rd-semester students, fostering a sense of belonging within the department. During the event, students had the opportunity to meet the esteemed faculty members and gain insights from their senior peers. The program was brimming with cultural performances, enlightening talks delivered by the principal and the head of the department, and delightful refreshments, including snacks and lunch, to ensure a memorable and enjoyable experience for all attendees.



Application of Firebird V Robot for Embedded System: In collaboration with the IEEE JIT Student Branch and e-Yantra, the Department of Electronics and Communication Engineering arranged a ten-day robotics workshop in January. The workshop was conducted in two separate slots, one from January 12th to 16th, 2023, and the other from January 3rd to 9th, 2023. It was tailored specifically for second-year students in the Electronics and Communication Engineering program. The primary objective of the workshop was to offer participants a practical, hands-on exposure to the world of robotics and programming, with a particular focus on mastering embedded C programming and navigating the intricacies of the Firebird V robot.



Project Exhibition: The Department of Electronics and Communication Engineering, in collaboration with the IEEE JIT Student Branch and IEEE Bangalore section, hosted a "Project Exhibition" on May 9th, 2023. During this event, graduating students from the final year had the opportunity to showcase, present, and demonstrate their projects, receiving evaluations from an external panel of jurors. The esteemed panel included Dr. Rajini V Honnungar, a Professor at RNSIT, Bengaluru, and Mr. Prabrit Bandyopadhyay, a Hardware Engineer from the R&D department at Tenexer Technologies, Bengaluru.

Projects were assessed based on their objectives, societal significance, and the novelty of their approach. Among the 14 projects presented, the top three were recognized and awarded to acknowledge and celebrate the students' skills, innovation, and creativity. Importantly, the exhibition was open to students from all semesters and across various academic disciplines.



ELECTRIG 2.0: The Department of Electronics and Communication Engineering (ECE) hosted an induction program and farewell event for the IEEE executive committee (execom) members of the year 2022 on May 19, 2023. The purpose of this event was to provide incoming IEEE members with a deeper understanding of IEEE and its significance. Additionally, the event served as an introduction to the newly appointed execom members. Dr. Parameshachari B. D from NMIT Bengaluru graced the occasion as the guest of honor, and he also conducted a question and answer session. Snacks and high tea were provided for all attendees.



IOT Project Expo – 2023: The ultimate talent showdown event was organized by Jyothy Institute of Technology, on May 19th 2023. The event was an intra college level IOT Project Expo which showcased the IOT projects of students across the branches. The projects showcased the IOT-based real world application models which was open for students of 4th semester. The event was inaugurated by chief guest Mr. Supreeth, founder, Tequed Labs. The project expo had nine phenomenal teams from across the branches, out of which three teams were from department of electronics and communication engineering.

Farewell: The department farewell was organized for both B.Tech and M.Tech on 26th May, 2023. It was a quite emotional day for both faculty and students. Students enjoyed every moment sharing their experiences. They sang and danced, smiled and cried, greeted and hugged each other. They shared their experience of their 4 years in the department. The outgoing students also inspired their juniors in many aspects.





Application of Firebird V Robot for Embedded System: In collaboration with IEEE JIT Student Branch and e-Yantra, the Electronics and Communication Engineering Department hosted a ten-day robotics workshop in June, with sessions taking place in two slots from June 12th to 16th, 2023. This workshop was exclusively tailored for second-year Electronics and Communication Engineering students. Its primary objective was to offer participants a practical, hands-on introduction to robotics and programming, with a particular emphasis on mastering embedded C programming and navigating the intricacies of the Firebird V robot.

Workshop on PCB Design: The Department of Electronics and Communication Engineering, in partnership with the IEEE JIT Student Branch and SPS JIT Student Branch, conducted a two-day PCB workshop on June 14th and 15th, 2023, at Jyothy Institute of Technology, Bangalore. This collaborative effort also involved CIIRC and was designed for students in the 6th semester of the Electronics & Communication Engineering program. The workshop was led by Mr. Deepak V Ingale, an assistant professor at CIIRC, JIT, and Mr. Keshav Gowtham, another assistant professor at CIIRC.





TECHNOXIAN: In a noteworthy achievement, students from the Electronics and Communication department, who were in their fourth semester, actively took part in TECHNOXIAN, recognized as the world's largest Robotics competition held in Noida, Uttar Pradesh. Impressively, five teams from the department enthusiastically joined the competition, with two teams competing in the line follower category, two in the drone sector, and one in the Robo race category. Although none of the teams secured a podium finish in this edition, this invaluable experience will undoubtedly serve as a valuable stepping stone for the students as they gear up for next year's competition.





MoU with Loginware: In a transformative partnership, our Electronics and Communication Engineering Department joined forces with Loginware on July 13, 2023. This MOU is a beacon for innovation, fostering collaborative research and development. It also offers our students and faculty valuable industry training, internships, and industrial insights, bridging the gap between academia and the real-world electronics manufacturing sector. Loginware's commitment to training our staff ensures our department remains at the forefront of industry practices. This collaboration marks a pivotal step in enhancing our students' education and our faculty's expertise.

MoU with Celominds: In a recent milestone, the Department of Electronics and Communication Engineering officially established an MOU with Celominds on July 12, 2023. This strategic alliance focuses on fostering research and development in the domains of science and engineering. Moreover, it encompasses collaborative initiatives for student training, skill-enhancement programs, and avenues for internships and placements, promising enriching prospects for our students. Keep an eye out for updates on this significant development in our department's forthcoming magazine.





STUDENT ACHIEVEMENTS

SAE Aero-Design Series East Competition 2023



The SAE Aero-Design Series East Competition 2023, organized by SAE International, occurred between March 10th and 12th, 2023, in Lakeland, Florida. Team Garuthmaan, with seven members, represented their club and college as ambassadors. Notably, Swathi Bhat, Chandana, and Prajwal from the ECE department were part of the team. In terms of achievements, the team ranked 6th in the design report category and 9th overall. 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.

In association with IEEE JIT student branch and IEEE Bangalore section, for final year students. Among 14 projects, 3 best projects were chosen and awarded

Position	Project Title	Name of the Guide	Name of the Students
1 st	Mobile application-based waste management using tensor flow and DNN model	Mr.Deepak V Ingale	Arpana S Harini B G Gowthami P Jain Nikitha M G
2 nd	E-Eye using Raspberry pi for visually impaired people	Mr..Rajesh Sudi	Akshatha M Meghana S Srivatsa Datta C Sushma Bharadwaj
3 rd	Lung capacity estimation using acoustic signals	Dr.K.Chandrashekhar	Chandana B S Prajwal V Ram Kumar A R Sameer Srinivas

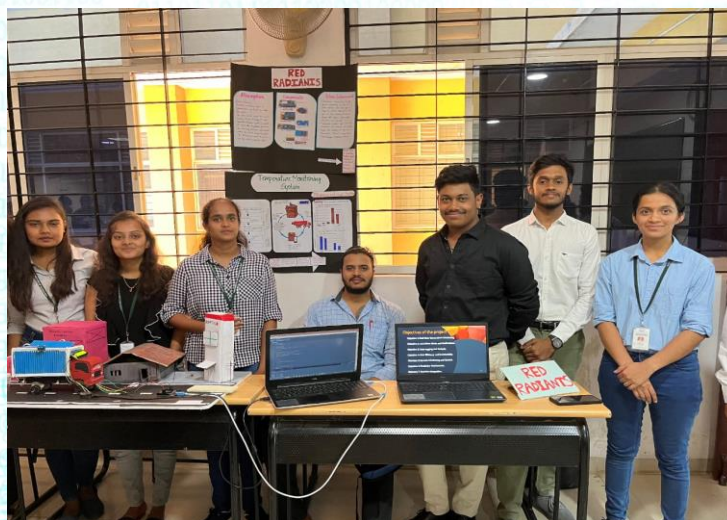


IOT Best Interns: Rohith P, Saieshwar VR, and Abhijay R Bhat, who are currently in their **4th semester** studying in the Department of ECE, have been honored as the **top interns** of the season by TEQUED Labs. This accolade underscores their remarkable skills, talents, and capabilities, particularly in their creative project endeavors aimed at addressing various societal issues. The event **was jointly organized by the IoT club in collaboration with TEQUED Labs.**



IOT Project Expo Winners

Position	Project Title	Theme	Name of the Students
1 st	IOT in Industry Automation	Industry Automation	Rishyanth SM, Shankarshana V, Harshitha M





Amrutha B, VI semester, has been selected for one Karnataka batallion (1 KAR BN), ½ COY, Bangalore A Group from the JIT NCC group. The Department extend warmest congratulations and best wishes for her remarkable accomplishments and growth. The department extends warm congratulations and heartfelt appreciation to the students for their exceptional achievements and impressive progress. Best wishes for their continued growth and success.



Inter-College Cultural Competition: **Tejas B**, a sixth-semester; and **Yashas M. H**, a fourth-semester students of department of Electronics and Communication, have been enthusiastic participants in the college fashion team. They have notched up remarkable victories in fashion show competitions hosted by different colleges in Bangalore. Their accomplishments encompass a significant **cash prize of 30 thousand rupees** secured at the **SJBIT** fashion show event. Additionally, they have clinched enticing **cash prizes in competitions held at DSATM, RVITM, VEMANA IT, and RNSIT**, among others.





VTU State level Tug of War: Tejas B and Darshan P, 6th semester in the Electronics and Communication department, proudly represented Jyothy Institute of Technology at the VTU state level Tug Of War Event organized by VTU. They received appreciation award from the VTU for their representation in sports.



VTU South Zone Hockey Tournament: Varadaraj Kota, Pravalika M, and Sudharshan R, all hailing from the Electronics and Communication department, excellently represented our college's hockey team and emerged victorious in the South Zone Hockey Tournament.



Girls State Level Basketball Tournament: Sushma Bharadwaj, in her 8th semester of the Electronics and Communication program, earned a coveted spot on the college basketball team. She joined forces with Tejas B, a talented player from the 5th semester of the same program, who provided valuable guidance to the college basketball team. This dedicated squad represented our institution at the STATE LEVEL BASKETBALL TOURNAMENT hosted by Ambedkar Institute of Technology in Bengaluru. Despite being newcomers to the tournament, the debut team put up a formidable performance and successfully retained their position in the competition through their spirited play.



Inter College Mini Project Exhibition: DSATM generously extended invitations to numerous engineering colleges throughout Bangalore, and Jyothy Institute of Technology wholeheartedly embraced this opportunity. Demonstrating their enthusiasm, our institution was proudly represented by four teams in the competition. It is particularly noteworthy that out of the 40 competing teams, our college students secured the third place in this highly competitive event, showcasing their remarkable talent and dedication.



In the 6th semester of their Electronics and Communication program, Anurag M, Chaithanya M B, Shivank V, and Hitesh V B showcased their exceptional skills by participating in the inter-college mini-project exhibition held at DSATM in Bangalore. Their remarkable mini project not only impressed the audience but also secured a well-deserved victory for them in the competition.



Best Outgoing Students 2023: Raghavendra K R received a distinguished honor as he was nominated as the best outgoing student for the batch of 2023. In recognition of his outstanding academic achievements and contributions, he was awarded the prestigious silver ring by the institution

Rakshitha C received a prestigious accolade as she was nominated as the best outgoing student for the batch of 2023. In acknowledgment of her exceptional academic achievements and significant contributions, the institution bestowed upon her the esteemed silver ring



Intra College Competition: Jyothy Institute of Technology's World Language Club hosted an engaging pop culture quiz tournament with the objective of nurturing curiosity about foreign cultures and languages. Among the participants were our first-year students, namely **Raghavendra R, Swathi Bhat, Chirag Buddhivanth, and Chitraaksh**, who not only took part enthusiastically but also **clinched a 1000 INR cash prize** for their victory.



The **IoT Club Crea** at Jyothy Institute Of Technology organized an exciting **MinIoTron** event, centered around various activities and an IoT implementation project. Among the attendees were first-year students, including **Shreya L, Swathi Bhat, Chirag Buddhivanth, and Chitraaksh**, who not only enthusiastically participated but also **secured a 1000 INR cash prize** for their outstanding performance.





STUDENT PAPER PUBLICATIONS

Student Name	Research Article Name	Indexing	Date of Publish
Raghavendra K. R	Cryo-facies Mapping of Karakoram and Himalayan Glaciers Using Multispectral Data, , Lecture Notes in Electrical Engineering, 2023, 966 LNEE, pp. 329-337, doi. 10.1007/978-981-19-8338-2_27	Springer, Scopus	May 2023
Raghavendra K. R, Mahesh, B	Land Subsidence Monitoring of Bengaluru: An Application of Image Processing. 10.1007/978-981-19-9819-5_35 (Springer-Scopus	Springer, Scopus	April 2023
A Sowjanya	Crop monitoring of Agricultural land in Chikkaballapura District of Karnataka Using HSR Data, Futuristic Communication and Network Technologies, pp 437-449, doi 10.1007/978-981-19-8338-2_36	Springer	May 2023
S. Meghana	Spatial and Temporal Analysis of Water Bodies in Bengaluru Urban using GIS and Satellite Image Processing, Lecture Notes in Electrical Engineering, 2023, 966 LNEE, pp. 289-299	Springer, Scopus	May 2023
Sriram S	The Contemporary State of Glacial Lakes in Chandra Basin, Western Himalayas: A Case Study in 2020, Lecture Notes in Electrical Engineering, 2023, 966 LNEE, pp. 519-526	Springer, Scopus	May 2023
Mahesh B	One-Dimensional flood Modeling of River Kaveri Using HEC-RAS, Lecture Notes in Electrical Engineering, 2023, 966 LNEE, pp. 495-501	Springer, Scopus	May 2023
Shashank B	Monitoring of Melting Glaciers of Ny-Alesund, Svalbard, Artic Using Space-Based Inputs, Lecture Notes in Electrical Engineering, 2023, 966 LNEE, pp.381-390	Springer, Scopus	May 2023
Meghana S	Spatial and Temporal Analysis of Water Bodies in Bengaluru Urban Using GIS and Satellite Image Processing, 2023, 966 LNEE, pp. 289-299	Springer, Scopus	May 2023



FACULTY ACHIEVEMENTS

Name of the Staff	Research Article Name	Indexing	Date of Publish
Dr. Geetha Priya, Dr. Krishnaveni D	Glacier Ice Surface Velocity Using Interferometry, Futuristic Communication and Network Technologies (pp.67-75) doi: 10.1007/978-981-19-8338-2_5	Scopus	May 2023
Dr. Asha Bharathi S	Energy Enhancement and Optimization of WSN using Firefly Algorithm and Deep Learning, 2022 International Conference on Edge Computing and Applications (ICECAA), Tamilnadu, India, 2022, pp. 1432-1436, doi: 10.1109/ICECAA55415.2022.9936146	IEEE	Dec 2022
	Key Frame Extraction Analysis Based on Optimized Convolution Neural Network (OCNN) using Intensity Feature Selection (IFS), 2022 2nd International Conference on Technological Advancements in Computational Sciences (ICTACS), Tashkent, Uzbekistan, 2022, pp.842-847, doi: 10.1109/ICTACS56270.2022.9988474.		Dec 2022
Dr. Hamsa S	Micro-strip Patch Antenna for 5G sub: 6 GHz Applications, International Interdisciplinary Humanitarian Conference for Sustainability (IIHC), Bengaluru, India, pp. 616-620, doi: 10.1109/IIHC55949.2022.10060179.	Scopus	March 2023
	COVID-19 Effect on India's Business Utilizing Online, Blockchain, or AI Algorithms, 2023 International Conference on Artificial Intelligence and Smart Communication (AISC), Greater Noida, India, 2023, pp. 442-446, doi: 10.1109/AISC56616.2023.10085658.		April 2023
	The Traffic-Aware Scatter Net Scheduling (TAAS) for Multicast Wireless Protocols, 2023 International Conference on Distributed Computing and Electrical Circuits and Electronics (ICDCECE), Ballar, India, 2023, pp. 1-6, doi: 10.1109/ICDCECE57866.2023.10151073.		June 2023
Srilakshmi R	A new strategy for the morphology-controlled synthesis of Ni/Co MOFs for high-performance asymmetric supercapacitors, Journal of Energy Storage, Volume 61, 2023, 106766, ISSN 2352-152X, https://doi.org/10.1016/j.est.2023.106766 .	Elsevier	Jan 2023



Shivraj A	Lifetime ratio improvement in relay nodes using CWSN for cooperative wireless sensor networks, 2022 3rd International Conference on Communication, Computing and Industry 4.0 (C2I4), Bangalore, India, 2022, pp. 1-6, doi: 10.1109/C2I456876.2022.10051217.	IEEE	March 2023
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PROJECTS SANCTIONED UNDER KSCST

Faculty Name	Project Title	Year of Sanction	Funding Agency	Total Amount Sanctioned	Amount utilized during current year
Mrs.Smita Agarwal	FitBrix: An AI enabled activity tracker for aged or physically challenged people	2022-2023	KSCST	6500	6500
Mr.Rajesh Sudi	E-Eyeusing Raspberry pi for visually impaired people	2022-2023	KSCST	7000	7000
Dr. Ajjaiah B M	Design and analysis of dental disorder detection system using AI-ML and Image Processing	2022-2023	KSCST	7000	7000

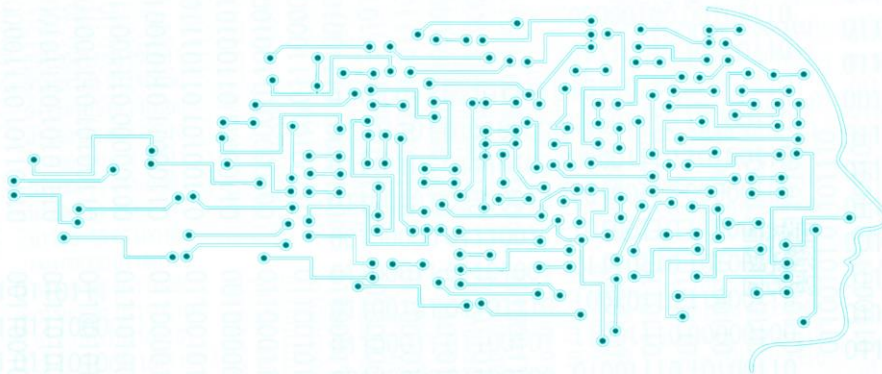


STUDENT PLACEMENTS

	USN	Student Name	Company
1	1JT19EC001	Abhiram H S Avadhani	BYJU'S
2	1JT19EC002	Abhishek M	TechM
3	1JT19EC003	Adheesha S U	Prerana
4	1JT19EC004	Akshatha M	TechM
5	1JT19EC005	Anushree N	TechM
6	1JT19EC007	B G Harini	TechM
7	1JT19EC008	Chandan Kumar U	Cognizant GenC
8	1JT19EC010	Dhanush S	Tech Mahindra Cerium system
9	1JT19EC016	Krutharth M	BYJU'S /TechM
10	1JT19EC017	Mahesh B	Tech Mahindra Cerium system
11	1JT19EC019	Mahir Ahmed	BYJU'S
12	1JT19EC020	Manoj P Hegde	A3 Technologies
13	1JT19EC022	Meghana S	BYJU'S
14	1JT19EC023	Nagaraj Ganapati Bhat	A3 Technologies
15	1JT19EC024	Navya P Vernekar	Tech Mahindra Cerium system / Cognizant GenC /TCS Ninja /Tata Consultancy LTD
16	1JT19EC027	Nikshitha S	Cognizant GenC
17	1JT19EC029	Pavan L	Cognizant GenC
18	1JT19EC030	Pradyumna M	TechM
19	1JT19EC034	Raghavendra K R	Tech Mahindra Cerium system /A3 Technologies
20	1JT19EC035	Rakshita C	Ciirc
21	1JT19EC037	Ramkumar A R	SLK software / A3 Technologies
22	1JT19EC041	Sameer Srinivas	TechM
23	1JT19EC042	Sampath M P	TechM
24	1JT19EC043	Sandeep J S	Skill camper



25	1JT19EC044	Sharath P	TechM
26	1JT19EC047	Sinchana H C	Techmeridian
27	1JT19EC048	Sowjanya A	Tech Mahindra Cerium system / Cognizant GenC /TechM
28	1JT19EC049	Sriram S	Cognizant GenC
30	1JT19EC050	Srivatsa Datta C	Cognizant GenC
31	1JT19EC051	Suhas Devadiga	Cognizant GenC
32	1JT19EC054	Vishwas U	6D Technologies
33	1JT19EC055	Yathish G	TechM
34	1JT18EC035	Rochana A Ritti	TechM



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
Asst. Professor





MESSAGE FROM HOD



Dr. MADHU B R

Professor & 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.

More than anything, the world needs Thinkers, who can apply their mind to a problem, no matter how complex it is, and come up with a feasible solution to it.

With the advancements in Artificial Intelligence, most of the jobs are being automated, and in the future, we might see a day where computers/robots will become superior to humans in being able to perform all kinds of work currently done by humans, and the only job left to human beings will be to think creatively. Having said that, Artificial Intelligence is going to revolutionize and will definitely be helpful in coming up with solutions to the problems/issues, which once thought could not be possible. Numerous tools of Artificial Intelligence are already in use and Humans are gradually depending on these tools. Tools of Artificial Intelligence can be used as assistance to the task, but should not be solely dependent on the tools. More dependence on the Artificial Intelligence tools might end up in loss of Creativity and Decision-Making abilities of human. Creative thinking must be inculcated in children of all ages; so that they always carry their creativity in their work and have complete ownership on the task accomplished. The right usage of the Artificial Intelligence tools without killing the creativity is the need of the hour and if it is done, then it is always a boon to the mankind.

Ofcourse, Artificial Intelligence is a disruptive technology and has its impact on every domain and everyone wants to use Artificial Intelligence. But it should be used wisely enough so that Artificial Intelligence won't be destructive. Hence, do something ingenious in an ethical way, which always assists the mankind for a better future.

It is always better if Humans will be controlling the Machines rather than Machines controlling the Humans.



Teaching and Non-Teaching Staff

NAME	DESIGNATION	QUALIFICATION
Dr. Madhu B. R.	Professor and Head	M.Tech., Ph.D.
Dr. Manjunath H. R.	Associate Professor	M.Tech., Ph.D
Mrs. Ramya B. N.	Assistant Professor	M.Tech., (Ph.D.)
Mrs. Soumya K. N.	Assistant Professor	M.Tech., (Ph.D.)
Mr. Vinod Kumar S.	Assistant Professor	M.Tech.
Mrs. Deepthi Das V.	Assistant Professor	M.Tech.
Mrs. Archana V. R.	Assistant Professor	M.Tech.
Ms. Meghana C. M.	SDC	BCA

PAPERS PUBLISHED/COURSES ATTENDED BY FACULTY

- **Mrs Ramya B N** published a paper on “**A novel approach to implement Binarized neural network to enhance accuracy using machine learning techniques**” on 18th January 2023.
- **Mrs Ramya BN, Dheeraj N (1JT20AI007), Sameer (1JT20AI036) and Varun (1JT22AI049)** presented paper on “**A novel approach for monitoring the freshness of vegetables under storage using IoT and ML in varying temperature conditions**”, at Kalpataru Institute of Technology, Tiptur (ICDSNS – 2023) on 28th and 29th July.
- Five days FDP on “**Recent Advancements in Data Intelligence and its application**”, from JIT between 24th to 28th April 2023 attended by, **Dr Madhu BR, Mrs Soumya KN, Mrs Ramya BN, Mr Vinod Kumar S, Mrs Deepthi Das V and Mrs Archana VR.**
- FDP on “**Emerging Trends in Artificial intelligence Systems**” from Jain University on 31st March, 1st, 2nd, 8th and 9th April 2023 attended by, **Mrs Soumya KN, Mrs Deepthi Das V, Mrs Archana VR.**
- FDP on “**Open-source cyber security Tools**” from National Institute of Technical Teachers Training and Research, Chandigarh from 22nd to 26th August 2022 attended by **Dr Madhu BR, Mrs Soumya KN, Mrs Deepthi Das V, Mrs Archana VR.**



- FDP on “**Scientific foundation of health**” from Jyothy institute of technology during 9th to 11th May 2022 attended by **Dr Madhu BR, Mrs Archana VR**
- FDP on “**Advanced Tools and Techniques for Best Research**” from RV institute of technology and management during 26th to 30th September 2022 attended by **Mrs Deepthi Das V, Mrs Archana VR.**
- **Mrs. Ramya B N** participated in 5 Day’s online International FDP on “**Data Analyst**” organized by Andhra Pradesh State Skill Development Corporation (APSSDC) in collaboration with ExcelR between 19th to 23rd June 2023.
- **Mr. Vinod Kumar S** participated in 5 days online International FDP on “**NLP and ChatGPT applications**” organized by SECAB Institute of Engineering & Technology in collaboration with ExcelR Edtech Pvt. Ltd. between 14th to 19th August 2023.
- **Mr. Vinod Kumar S** has participated in the one-week online FDP on “**Technology Insights in Data Science**” organised by Chennai Institute of Technology in association with NIT Nagaland from 31st October 2022 to 05th November, 2022.
- “**Machine learning using Python**” online training from MSME technology development centre (PPDC) from 12th to 16th December 2022 attended by **Dr Madhu BR, Mrs Soumya KN, Mrs Deepthi Das V, Mrs Archana VR.**
- **Webinar on “Fostering Research and innovation in Institutions for Strengthening tomorrow”** from DELNET - Developing Library Network on 25th February 2023 attended by **Mrs Archana VR, Mrs Deepthi Das V.**
- **Mr. Vinod Kumar S, Mrs Deepthi Das and Mrs Archana VR** participated in the one-week National level Faculty development program on Cloud Infrastructure (AWS) organized by Dr. Ambedkar Institute of Technology in collaboration with All India Council For Technical Education (AICTE) between 21st to 25th August 2023.

Faculty interaction with outside world

Dr. Madhu BR was invited as a guest lecturer by JAIN university to deliver a talk on “**New age technologies and its connection.**”

Sports achievement

Dr. Madhu BR won **first place in table tennis** at the International Faculty Sports meet held on 24th January 2023.





PAPERS PUBLISHED BY STUDENTS

- 1) **Deepak Prasad (1JT20AI005) and Vaishnavi BS (1JT20AI048)**, under the guidance of **Mrs. Soumya**, presented a paper on “**Real time lane detection on autonomous vehicles**” at 1st ICRICST 2023 on 5th July, 2023.
- 2) **Pooja S (1JT20AI028), A S Sushmitha Urs (1JT20AI001), Prasanna Kumar K (1JT20AI030), Vaishnavi B Raj (1JT20AI047)**, under the guidance of **Dr. Madhu BR** and **Mr Vinod Kumar S**, presented a paper on “**Action detection for sign language using machine learning**” at **NMITCON – 2023** on 1st and 2nd September 2023.

TECHNICAL ACHIEVEMENTS

Yuvraj and Rahul V had won consolation prize in coding challenge which was held on 3rd March, 2023 at Jyothy Institute of Technology.

Android Day was celebrated on 16th July, 2023, 40 teams, totally 80 students of 6th semester CSE, ISE, AI&ML, participated in the event, under the banner of CSI Student Chapter. **Sharanya Naresh** and **Shruthi S K** bagged the 2nd price. **Darshan M** and **Shalini M** won the 1st consolation price, **Dheeraj N Kashyap** and **Varun G** won the 2nd consolation price.

CONFERENCES ATTENDED BY STUDENTS

Amrutha Surabhi, Suman K and Sinchana G Hegde with **Dr. Madhu B R** attended a seminar organised by **Samskrithi foundation**. Held on 17th and 18th February 2023 at the National Institute of Advanced Studies (NIAS), Bangalore





STUDENT ACHIEVEMENTS

SPORTS ACHIEVEMENTS

1. BADMINTON

Priya R Vishwaroop and **Shreya Aparanji** won the **2nd place** in **badminton college sports meet 2023**. The event took place on (mention date) in Sheen Sports Academy. The trophy was issued to the students on Republic Day 2023.



2. TABLE TENNIS

Janavi P and **K Jahnavi** won **1st place** in **Table Tennis in Sports meet 2023**. The event took place on (mention date) in Sheen Sports Academy. The trophy was issued to the students on Republic Day 2023.



3. TUG OF WAR

Janavi P and her team won the **1st place** in the **tug of war**. The event took place on (mention date) in Sheen Sports Academy. The trophy was issued to the students on Republic Day 2023.



CULTURAL ACHIEVEMENTS

Shreya Aparanji won **2nd place in Kannada pick speech competition**. This event was conducted between 16th to 18th November 2022 at Jyothy Institute of Technology.

ACTIVITIES

AICTE ACTIVITY:

Students visited the Art of Living centre on Kanakapura Road in Bangalore, as part of the Swachh Bharat Abhiyan.



VISIT TO USRC – ISRO:

Students embarked on an enlightening journey to ISRO, where they were first treated to a captivating presentation showcasing ISRO's remarkable achievements and ambitious future plans. Their visit included a tour of the Satellite Integration and Testing Complex, where they witnessed the intricate processes involved in satellite development after receiving a detailed explanation from a scientist. They also explored key ISRO locations and learned about the precision and accuracy required for rocket launches. The adventure culminated in an interactive Q&A session with ISRO scientists, allowing the students to dive deeper into the world of space exploration.





AI Nexus Club

On 30th August 2023, the AI Nexus Club was inaugurated at JIT's Auditorium, with a notable lineup of guests, including **Dr. Chidananda Murthy P**, Senior Data Scientist at Celebal Technologies, **Chief-Guest**; **Shri M. Narasimhan**, **Trustee**; **Dr. K. Gopalakrishna**, **Principal**; **Dr. CB Mohan**, **Vice-Principal** and **Dr. Madhu BR**, Head of the AIML department, all gracing the occasion.

The club activities include:

- Technical Development
- Knowledge Sharing and Research
- Cultural Exchange and Diversity
- Sports and Fitness
- Networking and Industry Exposure
- Personal Growth and Leadership Development,
- Collaboration and Teamwork





TRAINING/INTERNSHIP ATTENDED BY STUDENTS

1. S. Nithin and Suhas.P have successfully completed their Internship in Aircraft Integration and Testing at Kalpin Tech Pvt Ltd from 25th November 2022 to 25th December 2022. They have worked on a project titled Aircraft Integration and Testing and the project involved the complete integration and testing of a small drone.



2. Suhas.P was a team member of Garuthmaan aero club of our college. The team has participated in the SAE east competition and has achieved 9th rank in it which was held in Lakeland USA in March 2023.

The same team has also participated In the Technoxian RC craft competition held in Delhi on 24th July to 26th July 2023.



3. Adithya K, Suman K, Vikhyath K R and Yuvaraj S attended a Microsoft Azure workshop that was held on 20th and 21st January. The two-day workshop was led by a professional trainer Mr. Kishore Chowdary (Director, Cloud beaver) at BNM Institute of Technology, who had a wealth of experience in the field of cloud computing.



NPTEL / EXTERNAL COURSES COMPLETED BY STUDENTS

<i>SL. NO.</i>	<i>USN</i>	<i>NAME</i>	<i>COURSES COMPLETED</i>
1	1JT21AI004	Anirdhha H D	Introduction to Machine Learning with Python
2	1JT21AI017	Jahnavi P	AI for India 2.0
3	1JT21AI003	Ananya V Adiga	Introduction to C plus plus
4	1JT21AI003	Ananya V Adiga	AI for India 2.0
5	1JT21AI003	Ananya V Adiga	Python 101 for Data Science
6	1JT21AI003	Ananya V Adiga	Block Chain and Bitcoin Fundamentals A to Z
7	1JT21AI003	Ananya V Adiga	Data analysis with Python
8	1JT21AI056	Yuvaraj S	Front End Web Development with React JS and Javascript Bootcamp
9	1JT21AI056	Yuvaraj S	Backend Web Development using Javascript
10	1JT21AI056	Yuvaraj S	Cloud Computing with AWS
11	1JT21AI056	Yuvaraj S	SQL Essentials Bootcamp
12	1JT21AI056	Yuvaraj S	JavaScript Programming Essentials Bootcamp
13	1JT21AI056	Yuvaraj S	HTML & CSS Essentials Bootcamp
14	1JT21AI056	Yuvaraj S	AI for India 2.0
15	1JT21AI056	Yuvaraj S	AWS Summit India 2023
16	1JT21AI056	Yuvaraj S	Microsoft Azure Fundamentals
17	1JT20AI007	Dheeraj N Kashyap	Machine Learning to DL
18	1JT20AI007	Dheeraj N Kashyap	Machine learning
19	1JT22AI001	Akash M Athreyas	AWS-Cloud Foundations
20	1JT22AI002	Amith Kashyap P S	AWS-Cloud Foundations
21	1JT22AI012	Diya K Bhat	AWS-Cloud Foundations
22	1JT22AI016	Jyothish S	AWS-Cloud Foundations
23	1JT22AI018	Khushi S Sorathia	AWS-Cloud Foundations
24	1JT22AI022	Lavanya G	AWS-Cloud Foundations
25	1JT22AI030	Monisha S P	AWS-Cloud Foundations
26	1JT22AI034	Prabhava R Bhat	AWS-Cloud Foundations
27	1JT22AI039	Rithu D	AWS-Cloud Foundations
28	1JT22AI040	S Yashaswini	AWS-Cloud Foundations
29	1JT22AI042	Sai Sharan R S	AWS-Cloud Foundations
30	1JT22AI043	Sai Sujana Datta G	AWS-Cloud Foundations
31	1JT22AI048	Sujith A Donti	AWS-Cloud Foundations
32	1JT22AI001	Vivin Jayanth A M	AWS-Cloud Foundations

CIVIL ENGINEERING



"Concrete Visions, Steel Ambitions: Constructing Tomorrow's Civilization"

CIVIL ENGINEERING

Magazine co-ordinator: Pavan Kumar
Asst. Professor



BATCH OF 2019-2023





Department of Civil Engineering



Dr. SREEKESHA K S
Asso. Professor & Head

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

Message from the HOD

Civil Engineering (CE) is one of the oldest, yet most diversified, branches of engineering, encompassing structural engineering, Geotechnical engineering, environmental engineering, construction engineering and management. It involves planning, analysis and design of infrastructure projects and their implementation through a sustainable approach on a turnkey basis. The department is accredited by the NBA for meeting required standards to prove it provides a quality platform for students' overall growth & development. Facilities at the department include state-of-the-art laboratories with structural & geospatial software in the CAD lab and sophisticated equipment for conceptualization. Facilities also include advanced teaching techniques for undergraduate and postgraduate students in smart classrooms.

The objectives of the programme, call for effective teaching by faculty through the use of different pedagogical facilities to create a vibrant learning environment. Faculties are associated with R&D and consultancy to improve the quality of teaching. They contribute to academic development by publishing books and presenting papers in national/international journals/conferences.

They interact with experts from academia & industry to evolve & organize different events to bridge the academy industry gap.

The department conducts activities that include industry-oriented workshops, industrial visits, guest lectures, software training, participation in paper presentation competitions and other technical events, in tune with the department's vision of attaining engineering excellence in all frontiers of CE, achieved through well-planned and coordinated efforts of the teaching and non-teaching staff who are committed to meeting the envisioned department standards.

The Department now offers a post-graduate programme in Structural Engineering in association with Sundaram Architects.



Teaching Faculty

NAME	DESIGNATION	QUALIFICATION
Dr. Sreekeshava K S	Associate Professor and Head	MTech., Ph.D.
Dr. B V V Subramanya	Professor (IISc)	M.E., Ph.D.
Dr. B K Raghu Prasad	Professor (IISc)	MTech., Ph.D.
Dr. Chandre Gowda C	Associate Professor	MTech., Ph.D.
Dr. Skanda Kumar B N	Assistant Professor	MTech., Ph.D.
Dr.M.T.maruthesha Reddy	Professor	MTech., Ph.D.
Dr. Poonam shekhawat	Assistant Professor	MTech., Ph.D.
Mr. Y R Suresh	Assistant Professor	MTech
Mr. Ganesh C R	Assistant Professor	MTech
Ms. Bhargavi C	Assistant Professor	MTech
Mr.Nitish S Ambale	Assistant Professor	MTech
Mr. Pavan Kumar V	Assistant Professor	MTech

Non-Teaching Faculty

NAME	DESIGNATION
Mr. Naveen Naik	Senior Lab Instructor
Mr. Raghav S	Lab Instructor
Mr. Vinoth P	Foreman



NAME	DESIGNATION
Er. K N Keshava Prasad	Founder, Shilpa Shrungar
Dr. Jagadiah Vengala	Chairman, ICI, Vijayawada
Dr. Thimmesh L	HOD, Dept. of Humanities, Govt. Engg. College, Hassan
Dr. K Gopalakrishna	Principal, JIT
Dr. Sreekeshava K S	HOD, Department of Civil Engineering, JIT

Technical Talk on “Build your Future”

A Technical Talk on "Build your Future" was conducted at Jyothy Institute of Technology in association with the Indian Concrete Institute(ICI)- KBC on 28th February 2023.

The workshop was conducted by Mr. V R Kowshika, Director, QCRETE Readymix (India) Pvt. Ltd. Bangalore. A discussion was held about passion, etiquette, confidence and interview preparation.





INDUSTRIAL VISIT TO LINGANAMAKKI DAM & POWER HOUSE & VARAHI UNDERGROUND POWERHOUSE

The Linganamakki dam in the Sharavathi Valley is situated 8 miles downstream of Hirebaskar reservoir and 2 miles upstream of Kargalanicut. The reservoir is designed to store a gross capacity of 178TmC of water. 2 Kaplan turbines having 39,600BhP capacity each with 6 blades run at a speed of 200rpm giving an output of 28500kW power. It supplies about 20-25% of power required by Karnataka costing around 0.62 paise per unit, making it the cheapest powerplant in India.



Bridge Building Tournament

The students participated in the Param Innovation BRIDGE BUILDING Tournament on 26th March 2023 organized by Param Décor, Jayanagar. The Bridge Building Competition showcased the talent and expertise of participating teams in the field of bridge construction. The competition's format, with its focus on both length and design creativity combined with design criteria and strength, encouraged teams to think innovatively and strategically. The following students attended the tournament:

Ajay Kumar (1JT19CV003)
Kiran N (1JT19CV008)
Padma R (1JT19CV010)
Shreelakshmi B.R (1JT19CV016)
Shreyas KM (1JT19CV018)
Surya Gowda T (1JT19CV020)





Technical Talk on “Filing Patent”

A Technical Talk on “Filing Patent” was conducted at Jyothy Institute of Technology in association with Indian Concrete Institute(ICI)- KBC on 25th April 2023.



The technical talk was conducted by Dr.Palaniswamy, Assistant Professor, National Institute of Technology, Surathkal. The speaker discussed about filing patents, procedures and benefits of filing patents. Further, a discussion about parallel career options apart from regularized career options.

Five Days Workshop on “Creativity to Construction”

A workshop on "Creativity to Construction" was conducted at Jyothy Institute of Technology in association with Indian Concrete Institute(ICI)-KBC from 8th May 2023 to 12th May 2023 in the presence of the students and staff. The workshop was presented by Mr. Keshav Prasad, Founder, of Shilpa Shrungar Architects, Bangalore.





Extensive Survey Camp

An extensive survey camp for 6th Semester students was conducted from 28th March 2023 to 12th April 2023 near Chinnakuruchi village. The students were trained to Survey Old Tank Projects, Proposed New Tank Projects, Town Planning, Canal Alignment and Highway Engineering.



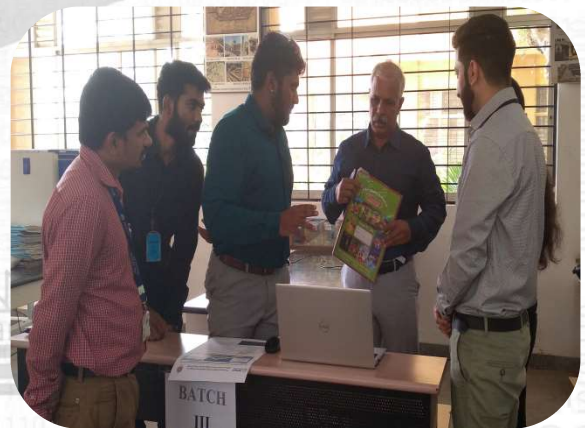
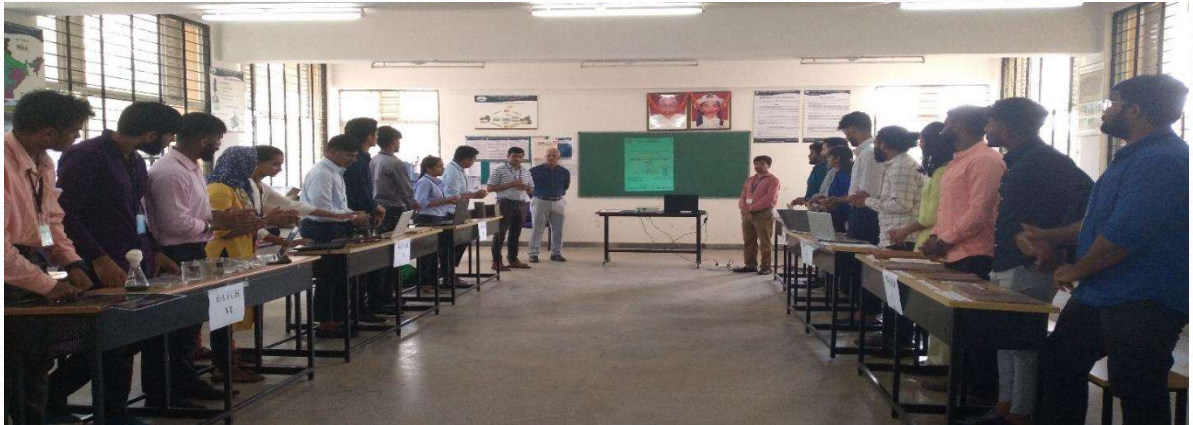
Project Exhibition

The event was judged by Mr. Keshav Prasad, Founder, of Shilpa Shrungar Architects, Bangalore and Dr.Sreekesava.K.S, HOD and Associate Professor, Civil Engineering Department, JIT. The participants were judged based on the Objectives of the Project, its Societal relevance, the novelty of participants in the approach, their presentation and their answers to the questions asked concerning the idea.

The Project titled "Phycoremediation of Waste Water using Green Micro Algae" was declared the winner as it new concept and benefits the construction industry. The participants included Ms. Padma, Mr. Shreyas K M, Mr. Rahul and Mr. Asrar Ahmed Parray.



The Project titled "Parametric Study on Analysis and Design of Different Steel Truss Configurations using ETABS" was declared as a runner as it has societal relevance to structural analysis. The participants included Ms. Preeti P Katenahalli, Mr. Dharshan K, Mr. Aadil Mohuddin and Mr. Suhanth Gowda B K



KSCST Student Project Proposal Approval for Sponsorship

The Project titled "Phycoremediation of Waste Water using Green Micro Algae" has been selected for KSCST Project Sanctioned .

The participants included Ms Padma, Mr Shreyas K M, Mr Rahul and Mr. Asrar Ahmed Parray under the guidance of Dr. Sreekeshava K S, HOD and Associate Professor, Department of Civil Engineering.



Professional Body Membership

4 faculty got Lifetime Institutional membership of the Indian Society of Earthquake Technology (ISET), Roorkee, India.

List of Civil Engineering Faculty got lifetime membership of ISET:

Dr. Sreekeshava K S

Mr. Ganesh C R

Ms. Bhargavi C

Mr. Pavan Kumar V

Conference

We conducted the International Conference On Interdisciplinary Approaches in Civil Engineering for Sustainable Development (IACESD – 2023) In association with G20 C20 and Publishing partner Springer Nature.





INDUSTRIAL VISIT- ARDEX ENDURA PVT. LTD. 7th SEMESTER STUDENTS



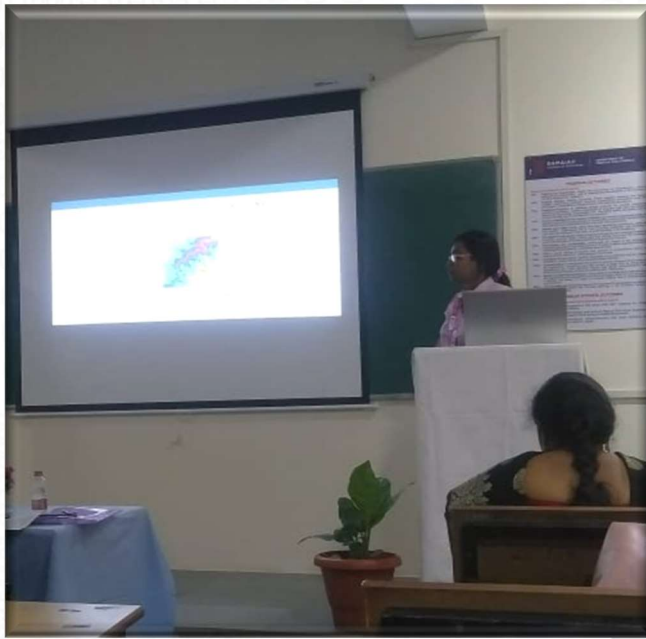
An Industrial Visit to Ardex Endura India Pvt. Ltd. (Bangalore plant), Lakkenahalli was conducted in association with Indian Concrete Institute - KBC for 7th Semester students on 29th August 2022.

Civil Engineering Department 2023





7th Semester students of Civil Engineering Department attended National Seminar on “Sustainable Building Materials and Construction” held in association with Science and Engineering Research Board, Department of Science and Technology, Government of India at Christ University, Bangalore on 22nd and 23rd September 2022.



International Conference on Recent Advances in Engineering & Sciences(ICRAES)-2022 was held at M S Ramaiah Institute of Technology, Bengaluru on 13th and 14th October 2022. Mrs. Bhargavi C, Assistant Professor and Ms. Anagha.R, final year student presented papers titled “Mechanical Properties of Steel & Polypropylene Fiber Reinforced Geopolymer Concrete” & “Flood Risk and Dam Break Analysis of Tunga Reservoir using HES-RAS”

Aptitude Training for 7th semester students was conducted from 17th October to 22nd October. Mr. Suresh, Quantech Origin coordinated the training.





Roof Raisers Club of the Department organized a workshop “Coding and Development of Games” in association with Department of Information Science and ICI from 16th Nov to 18th November 2022.

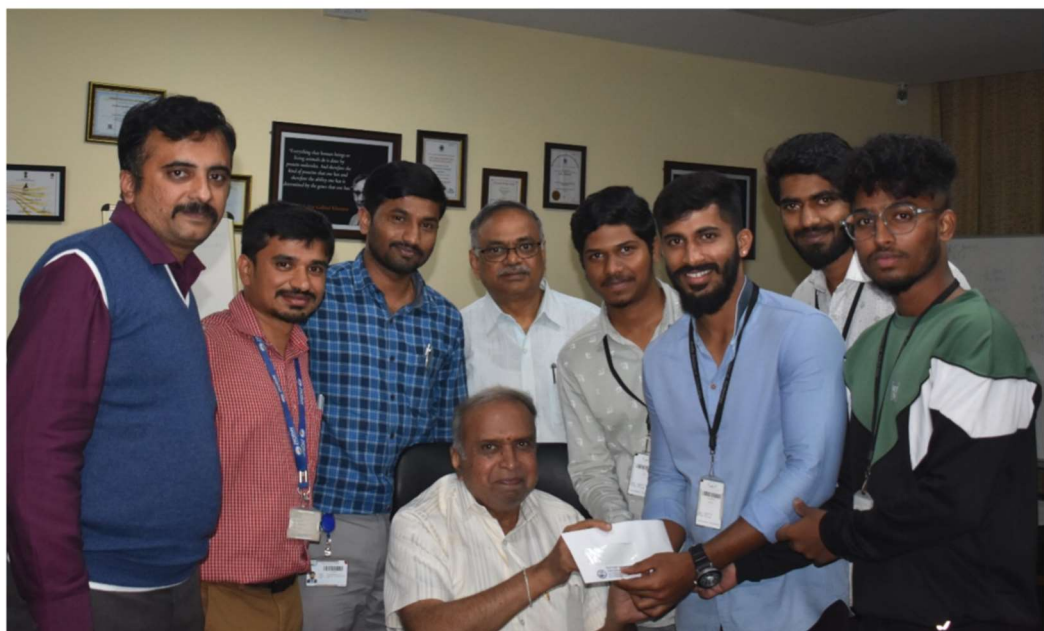


The staff and student coordinators were felicitated by Narsimhan Sir, Vice Chairperson and Dr.K Gopalakrishna, Principal for their guidance and support throughout the workshop.



CIVIL ENGINEERING DEPARTMENT
@
“INTERNATIONAL GAMEATHON 5.0”
hosted by
Department of Information Science and Engineering
25th and 26th November 2022





A team of 7th Semester students comprising of Mr. Ajay Kumar, Mr. Shreyas.K.M, Mr. Suhanth Gowda and Mr. Surya Gowda won the Best Jury Pick Award in International event “Gameathon 5.0” hosted by Department of Information Science and Engineering on 25th and 26th November 2022.





Civil Engineering Department students participated in “Nirmaan ICSS 2022” held at BMS College of Engineering on 18th and 19th December 2022.

Ms. Deepadharshani.T & Ms.Pavithra.P of 5th Semester won the first prize in “Mirai Raste” Competition.





Placements

Student name	Company name	Package(LPA)
Jannavi S	Cognizant	4.5 L
Shreyas Gowda T	Gina Engineering Company	2.2 L
Kiran N	Gina Engineering Company	2.2 L
Nishanth A V N	SLN Infra Company	2.6 L
Padma R	SLN Infra Company	2.6 L
Shreelakshmi B R	SLN Infra Company	2.6 L
Jannavi S	Ebenus Design Solutions Pvt Ltd.	2.7 L
Raja Naga Medhesh	Ebenus Design Solutions Pvt Ltd.	2.7 L
Shreyas K M	Black Olive Venture Pvt Ltd.	2 L

Best Outgoing Students

The award was given by Dr. T N Sreenivasa Registrar (Evaluation) VTU Belagavi, to Mr. Shreyas K M and Ms. Jannavi S for their academic excellence at the Farewell Day function for batch 2019-23 students on 27th May 2023 (Saturday).



MECHANICAL



"Gears of Ingenuity: Where Dreams Turn into Mechanical Reality"

MECHANICAL ENGINEERING

Magazine co-ordinator: T.S Mohan Kumar
Asst. Professor



BATCH OF 2019-2023





Dr C B. Mohan
Vice Principal &
Head

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.

Message from the HoD,

The department of Mechanical Engineering, with an intake of 30 students, consists of highly dedicated, well qualified and competent faculty members engaged in active learning, R&D, and building the output quality of its graduating students. Most of the faculty are from reputed academic institutions with sound research and industry background, contributing to the implementation of industry-oriented learning. Their research work, executed with contributions from select students and research scholars, is published in some of the prestigious journals in India and abroad. All laboratories are modernized to keep pace with the times. Being a recognized R&D center by VTU, Belagavi, the department offers a master's program in product design and manufacturing and a doctoral program in mechanical engineering and sciences. It currently has several projects funded by national funding bodies contributing to significant improvements in the learning environment with interested students getting the unique opportunity to take on work on such real-time projects. The magazine provides students with a platform to express and exhibit their skills and talent. On this occasion, it is my pleasure to present the department to the avid readers. The department strongly encourages students to participate in SAE Aero international competition in the USA and the National Eco-Kart event in India. It supports both students and faculty by periodically sponsoring them to relevant seminars, symposia, workshops, industrial visits, industrial training and technical talks as an integral part of the program.





MECHYANTRA

List of Teaching Staffs,

Dr. K Gopalakrishna- Ph.D., Prof. and Principal

Dr. C B Mohan-Ph.D., Prof. and Vice-Principal

Dr. G C Vijayakumar- Ph.D., Professor

Dr. M Narendra Kumar Ph.D., -Professor

Dr. K Raghavendra- Ph.D., Associate Professor

Dr. K V Muralidhar Sharma- Ph.D., Associate Professor

Dr. T S Mohan Kumar- Ph.D., Asst. Professor

Dr. J V Raghavendra- Ph.D., Asst. Professor

Dr. H R Aniruddha Ram - Ph.D., Asst. Professor

Dr. M Jayathirtha Patil-MTech, Asst. Professor

Dr. C. Yogeesha- MTech, Asst. Professor

Mr. P Rakesh- MTech, Asst. Professor

Mr. B K Rakesh- MTech, Asst. Professor

Mr. Gurusurthy M- MTech, Asst. Professor

Mrs. Rashmi P.N- MTech, Asst. Professor

List of Non-Teaching Staffs,

Mr. Prasanna HVV, Instructor

Mr. BT Ravikumar, Asst. Instructor

Mr. Srinivas S, Asst. Instructor

Mr. Mahesh, Instructor

Mr. Vajramuni C N, Asst. Instructor



About the Mechanical Department,


The Department of Mechanical Engineering is functioning since inception of the college in the year 2011 with an annual intake of It consists of highly dedicated, well qualified and competent faculty members active in teaching, research and building quality profile of students. Most of the faculty members are from reputed academic institutions with research and industry background contributing to implementation of industry-oriented education to students. The department has laboratories as per University norms for hands-on training and is also into research in different vistas of mechanical engineering, showcasing the ability through quality publications jointly with the students & research scholars. All labs are developed taking into consideration the needs of academia and industry. Huge investment of over one crore is spent in establishing high profile labs.

The department is accredited by the NBA and is recognized nationally as one of the youngest departments of the institute to be recognized by National Board of Accreditation. Also, the department is a recognized R&D center by VTU, Belagavi. It has funded projects from national funding bodies contributing to significant improvements in the learning environment.

The Department has been arranging purposeful internships to students in various reputed industries and research organizations to enhance knowledge of applied/advanced technology. The department has several MOUs with various industries ranging from technical training establishments to manufacturing industries for transfer of knowledge. The department is a membership of professional bodies such as SAE, ISTE, etc. through student chapters in the campus bridging the gap between industry and academia. It has a student forum, “MECHISTA”, under which various technical and societal activities are conducted on a regular basis, where students are trained and supported for technical competitions like SAE AERO, SAE BAJA, etc. In a nutshell, the department regularly conducts events such as internship programs, technical talks



ACTIVITIES

1.	Date:	18.08.2023
2.	Industry Name and Address:	TOYOTA KIRLOSKAR MOTORS PVT LTD Regd. Off.Plot No. 01, Bidadi Industrial Area, Bidadi - 562 109, Ramanagara Dist., Karnataka, INDIA.
3.	Industry Type:	Automotive Manufacturing Facility
4.	No of faculty:	26 members from various Engineering Colleges Across Karnataka
5.	Organized By:	 BITES- Board for IT Education Standards in association with Toyota Kirloskar Motors Pvt Ltd
6.	BITES Representatives	1. Smt. Jyothy- BITES Office Coordinator 2.Prof. Bhargav- BITES Program Coordinator.

Industrial Visit was organized by **BITES-** Board for IT Education Standards to **M/s Toyota Kirloskar Motors**

Pvt Ltd, (TKMPL) Bidadi plant on 18.08.2023 for Teaching Faculties from various Engineering and Management College across Karnataka. A total of 26 Faculty members visited M/s TKMPL accompanied by Prof. Bhargav and Smt. Jyothy from BITES.

All Visitors were informed to assemble near Kengeri metro Station by 8.30 am, where TKMPL vehicle was arranged for the visit. Mr. Arun Kumar San from TKMPL, Leadership and Industrial relation department welcomed and accompanied all faculty members to Industry Campus.

All Visitors were welcomed, followed by refreshment and Mr. Jagadeesh San along with TKMPL Intern Ms. Supriya san and her team addressed the gathering and Informed about the days schedule. Mr. Jagadeesh San gave brief corporate presentation on TKM growth story followed by presentation by Mr. Venkatesh san from TKMPL, Leadership and Industrial relation department gave presentation on Best Practices of Toyota and their Manufacturing Philosophy. Mr. Venkatesh san taught us about TKMPL journey in practicing International standards in quality, most of them derived from Japan.



Also, from presentation we were pleased to know about how TKMPL is in forefront in implementing quality tools like Toyota Production system Kanban System, Pattern Production System, Kaizen, Just in Time (JIT), Safety Trolley Movement, Karakuri System, Heijunka, etc.

Also Dr. Selvan Co-Chairperson BITES, Bengaluru address the gathering about the efforts made by BITES to get the permission for TKM plant Visit and usefulness of the program. Also Mr. Venkatesh san and his team made effort to teach Lean Manufacturing system by practical demonstration, where every faculty member was made has party on role who resemble actual process owners of a manufacturing company, different roles are designated for each of the faculty like dealer, customer, assemble personnel's, transport personnel's, manager, supervisor, CEO etc then mock manufacturing and distribution of Finished goods was played, it was the best part of the visit , every one of us realized how important is lean Manufacturing Process. At 12.00 pm the Plant Visit was scheduled ,where Mr. Nagesh san and his team accompanied all faculty members in 2 batches to visit Production lines of Toyota, This plant mainly produces existing models of the Toyota like Toyota Glanza, Legender, Rumion, Camry Hybrid, Innova Crysta ,Fortuner, Innova Hycross, Urban Crusier Hyryder. There were totally 4 different section of manufacturing a automobile namely Press shop, Weld Shop, Painting Shop and Assembly section, We had a opportunity to see real time manufacturing practices in assembly section and Assembly section had about 21 different station and all parts right from engine, tyres and electrical unit, wind shield and dash board etc were assembled at this section.

After Lunch session, Ms. Supriya San and team accompanied Visitors for Toyota Technical Training Institute (TTTI), Where Mr.Pai, Vice Principal of the Institute received us and gave Presentation about achievements and growth story of TTTI, he also took all of us to various labs of TTTI, all of us were very much impressed about the practical approach of the institute to impart present day technical skills required to its students.



Even we had Opportunity to know about the Corporate Social responsibility (CSR) initiatives taken by TKMPL which include building of schools, public toilets, Greenathon practices, Toyota Technical Training Institute (TTTI), Eco zone initiative by Toyota etc. Overall it was excellent and eye opening Visit to a industry which practices International Manufacturing Standards assuring quality in every step and Sustainable manufacturing practices.

INDUSTRIAL VISIT



Dr. Selvan Co-Chairperson BITES, Bengaluru addressing the gathering about the efforts made by BITES to get the permission for TKM plant Visit and usefulness of the program, at TKMPL, Bidadi Bengaluru.



Mr. Venkatesh San, Senior Manager TKMPL Bengaluru giving demonstration on Lean Manufacturing Methods to the gathering.



Mr. Pai san, Vice Principal, addressing the gathering, at Toyota Technical Training Institute, TKMPL, Bidadi Bengaluru.



Mr. Shankara G , Vice President, Human resources at Toyota Kirloskar Motors and Mr. Shashidhar Sangurmath , Deputy general Manager at Toyota Kirloskar Motors addressing the gathering, at Toyota Conference hall, TKMPL, Bidadi Bengaluru



Faculties Group photo session along with Mr. Shankara G San, Vice President, Human resources at Toyota Kirloskar Motors and Mr. Shashidhar Sangurmath san, Deputy general Manager at Toyota Kirloskar Motors (fifth and fourth from Right side, row1), at Toyota Conference hall, TKMPL, Bidadi Bengaluru



INTERNATIONAL SAE AERO COMPETITION , USA

JIT has been participating in the SAE AERO global competition since 2019.

A batch of students participated in the competition in the year 2023 at Lakeland City, Florida, USA and stood 9th globally in the Micro class category. There were 44 team participators in the competition across the globe. The result sheet is attached below.

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Rankings	University (Team)	Country	Design Score	Presentation Score	Mission Performance Score	Technical Inspection Deductions	Overall Score
1	214 - Georgia Institute of Technology	United States	47,2732	45,3750	76,5491	-	169,2173
2	241 - Indian Institute of Technology	India	43,2847	42,4800	71,8274	-	163,5921
3	248 - Warsaw University of Technology	Poland	45,3630	43,6867	74,4400	-	163,5297
4	244 - Moscow Institute of Tech	India	46,4631	46,4633	67,1624	-	149,8888
5	247 - Politecnico di Milano	Poland	38,0484	35,9433	43,2368	-5.0	118,2326
6	218 - Beijing Univ of Aeronautics & Astronaut	China	40,4622	37,6500	5,8000	-	78,9122
7	224 - Vellore Institute of Technology	India	32,3666	33,7900	5,4725	-	71,6291
8	226 - Federal University of Rio de Janeiro	Brazil	36,3495	26,7200	3,7574	-5.0	71,8269
9	228 - Jyoti Institute of Technology	India	21,2042	36,7967	5,8000	-5.0	52,8009
10	222 - Indian Institute of Technology	India	22,2222	6,0000	6,0000	-	34,2222
N/A	227 - Florida International	United States	0,0000	0,0000	0,0000	-	0,0000





UNIVERSITY RANKS

JIT secured two ranks, 2nd and 3rd Rank in the PG programme of Product Design and manufacturing in the year 2022. Mr. Raghavan and Mr, Rohit secured 2nd and 3rd Rank respectively. Both were honoured in the farewell function organised for the outgoing students of our institution. In the previous year Mr. Prasad secured first rank in the same PG programme.



BASIC SCIENCE



"Equations Unveiled, Theories Explored: A Symphony of Scientific Excellence"

DEPARTMENT OF BASIC SCIENCE

Magazine co-ordinator: Usha.Sundaresh
M.A (English), B.Ed.



CHEMISTRY



"Catalyzing Curiosity: Chemistry's Alchemical Delights"

Department of Chemistry

Message from the Head



Dr. Viswanatha R
Associate Professor &
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.

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	Asso.Prof. 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
Dr. Meenakshi H N	Assistant Professor	M.Sc, (Ph.D)

NON-TEACHING FACULTY

NAME	DESIGNATION
Mr. Rudresha K	Lab Instructor
Mr. Srinatha	Lab Helper

MATHEMATICS



"Geometry of Thought: Where Math Shapes Our World"



Department of Mathematics

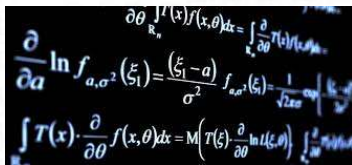
Message from the Head



Dr. R Madhusudhan
Associate Professor &
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

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/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	Asso.Prof and Head	M.Sc, Ph.D
Dr. M C Kemparaju	Associate Professor	M.Ed, M.Sc, 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)

PHYSICS



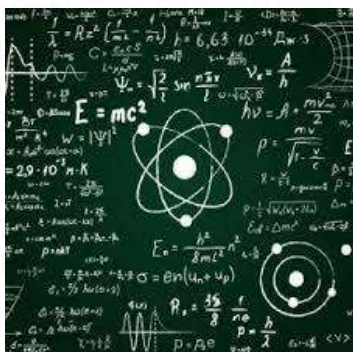
"Unveiling the Quantum Mysteries: Where Particles Dance to Truth"



Dr. Uma M S
Associate Professor &
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

Department of Physics

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. Uma M S	Asso. Prof. 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)

NON-TEACHING FACULTY

NAME	DESIGNATION
Mrs. Mamatha K H	Lab Instructor

HUMANITIES DEPT.



"Humanities Hub: Where Ideas Flourish and Perspectives Unfold."



Department of Humanities
(English)

Message from the Department



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

"Unleash your inner Wordsmith: Explore the boundaries of Expression"

Any language is a medium of conveying information and expression of 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 have 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 the cross-border countries.

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 software's to meet the present requirements of the Global Employment market.



Department of Humanities

(ಕನ್ನಡ)

Message from the Department

ಎಲ್ಲಾದರೂ ಇರು ಎಂತಾದರೂ ಇರು

ಎಂದೆಂದಿಗೂ ನೀ ಕನ್ನಡವಾಗಿರು

ಕನ್ನಡವೇ ಸತ್ಯ ಕನ್ನಡವೇ ನಿತ್ಯ

- ಕುವೆಂಪು



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

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 ಅಗತುತೆಗನುಗುಣವಾಗಿ ಕನ್ನಡ ಅಕ್ಷರಮಾಲೆ, ಉಚ್ಚಾರಣೆ, ಸಂಭಾಷಣೆಗಾಗಿ ಕನ್ನಡ ಪದಗಳು, ವ್ಯಾಕರಣದ ಚಟುವಟಿಕೆಯ ಬೋಧನೆಇದರ ಜೊತೆಗೆ ಕರ್ನಾಟಕ ರಾಜ್ಯದ ಬಗ್ಗೆ, ಇಲ್ಲಿನ ಭಾಷೆ, ಸಂಸ್ಕೃತಿಯ ಪರಿಚಯ ಮಾಡಿಸುವುದು. ಕನ್ನಡ ಭಾಷೆಯನ್ನು ಕೇಳಿ ಅರ್ಥ ಮಾಡಿಕೊಳ್ಳುವುದು. ಕರ್ನಾಟಕದಲ್ಲಿ ಕನ್ನಡವೇ ಸರ್ವಭೌಮ ಭಾಷೆಯಾಗಿರಬೇಕು.

ಸಿರಿಗನ್ನಡಂ ಗೆಲೆ ಸಿರಿಗನ್ನಡಂ ಬಾಳೆ



LIST OF PUBLICATIONS

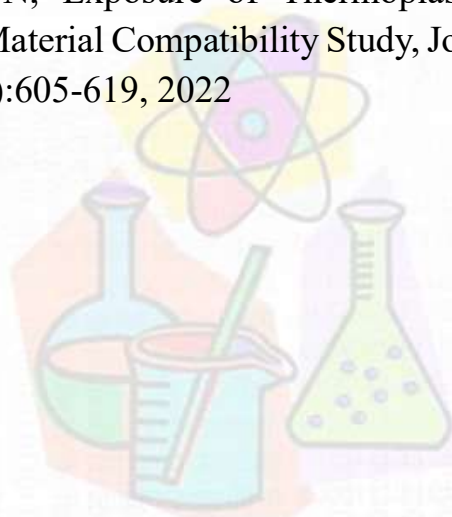
1. Dr. M C Kemparaju, Chemical reaction rate and stimulation energy influence on casson radiating nanofluid flow past a wedge, AIP Advances, <https://doi.org/10.1063/5.0114605>, 2023.
2. Dr. M C Kemparaju, Computational study of consequence of effect of velocity slip on nanofluids with suspended CNTs, Numerical heat Transfer, Part A: Applications, <https://doi.org/10.1080/10407782.2023.2178560>, 2023.
3. Dr. M C Kemparaju, Casson MHD Nano Fluid Flow with Internal Heat Generation and Viscous Dissipation of an Exponential Stretching Sheet, International Journal of Heat and Technology <https://doi.org/10.18280/ijht.400315>, 2022
4. Dr. M C Kemparaju, Unsteady MHDstream of Casson fluid over an elongating surface in the presence of thermal radiation and viscous dissipation, Heat Transfer, DOI: 10.1002/htj.22541, 2022
5. Dr. M C Kemparaju, Double Diffusive Casson Fluid Flow, Heat and Mass Transfer due to Porous Media with Effects of Richardson Number and Thermal Radiation, International Journal of Applied and Computational Mathematics (Springer), <https://doi.org/10.1007/s40819-022-01323-3> , 2022
6. Dr. M C Kemparaju, Effect of Richardson number on double diffusive mixed convective slip flow, Heat and Mass transfer of MHD Casson fluid, Journal of Process Mechanical Engineering, DOI: 10.1177/09544089221079264, 2022
7. Dr. M C Kemparaju, “Effect of partial slip on mass transfer flow of non-Newtonian fluid due to unsteady stretching sheet”, 2023.
8. Mrs. Latha R, Three-dimensional analytical model for point source with removal mechanisms dry and wet deposition, <https://doi.org/10.1063/5.0117156> AIP Conference Proceedings 2649, 030032, 2023.
9. Mrs Latha R, Two-dimensional analytical model for an air pollutants emitted from line with mesoscale wind, <https://doi.org/10.1063/5.0117157> AIP Conference Proceedings 2649, 030043, 2023.



10. Dr. Umananda Bhatta, Aging mechanisms of nanoceria and pathways for preserving optimum morphology, 2023.
11. Dr. Umananda Bhatta and Mr. Susheel Kumar G, Effect of interfacial native oxide on the IV characteristics of ZnO/Si (111) heterojunction, 2023.
12. Dr. Umananda Bhatta, Dr. K G L Bhatta and Mr. Susheel Kumar G, Role of oriented ceria nanoparticles in the decomposition of carbonized sucrose, 2022.
13. Dr. Viswanatha R, Recent Developments in Supercapacitor Electrodes: A Mini Review. Chemengineering, 6(1) 5-15, 2022.
14. Dr. Viswanatha R, Visible light photodegradation of 2,4-dichlorophenol using nanostructured NaBiS₂: Kinetics, cytotoxicity, antimicrobial and electrochemical studies of the photocatalyst, Chemosphere, 287, 132174-132185, 2022.
15. Dr. H B Muralidhara, Numerical investigations of response surface methodology for organic dye adsorption onto Mg-Al LDH-GO Nano Hybrid: An optimization, kinetics and isothermal studies, Journal of the Indian Chemical Society 99, 100249, 2022.
16. Dr. H B Muralidhara, Nanostructured MnO₂/CeO₂ composite as anode material for high performance Li-ion battery, Materials Letters 308, 131298, 2022.
17. Dr. H B Muralidhara, Carbon spheres decorated-graphene oxide framework as an excellent active material for redox flow battery and supercapacitors, Environmental Technology 44./3/10, 2022.
18. Dr. H B Muralidhara, Voltammetric Response of Synthesized CuO Nanoparticles Towards Dopamine, Springer Singapore 15, 4/3, 2022.
19. Dr. H B Muralidhara, Moringa Oleifera leaf extract mediated synthesis of reduced graphene oxide-vanadium pentoxide nanocomposite for enhanced specific capacitance in supercapacitors, Inorganic Chemistry Communications 8,1, 2022



20. Dr. H B Muralidhara, Single step assemble of cerium oxide embellished on layered graphene oxide: An efficacious electrode for supercapacitors and hydrogen evolution reaction, Materials Science and Engineering 10,1,2022.
21. Dr. H B Muralidhara Synergistic behavior of vanadium pentoxide-carbon sphere electrocatalyst towards iron-based redox flow battery and supercapacitor applications, Journal of Energy Storage 11,1,2022
22. Dr. Meenakshi H N, Spent silkworm pupae as a renewable and sustainable source for biodiesel, Biofuels, Bioproducts and Biorefining Vol.17, No. 1: 167-177, 2023
23. Dr. Meenakshi H N, Exposure of Thermoplastics to Methanol-Gasoline Blends: A Material Compatibility Study, Journal of Elastomers & Plastics,54(4):605-619, 2022





NATIONAL/INTERNATIONAL CONFERENCES

1. Dr. R Madhusudhan, Received best paper award at IACESD 2023 and Springer, organized by JIT Bangalore, on July 7th-8th, 2023 for the title **“Finite element method for one – dimensional Darcy-Brinkman-Forchheimer fluid flow model”**.
2. Dr. M C Kemparaju, attended the “G20 C20 International Conference on Interdisciplinary Approaches in Civil Engineering for Sustainable Development” held on 7th and 8th of July 2023 Organized by the Department of Civil Engineering Jyothy Institute of Technology Bangalore, presented a paper on the topic **“Effect of partial slip on mass transfer flow of non-Newtonian fluid due to unsteady stretching sheet”**.





LIBRARY



LIBRARY AND INFORMATION CENTRE



Mr. Mohan Kumar S
Librarian
M.Lib.Sc., M.Phil.



Mr. Rajshekar K L
Asst- Librarian
MLISc.

MESSAGE FROM CHIEF LIBRARIAN

JIT Library is a resource centre for teaching, learning & research. Being the heart of the academic centre, it is home for all the information services. The objective of our library is to provide right information/knowledge to the right users at the right time. It is equipped in area of 400 Square feet. The library can accommodate 200 users at a time which is well ventilated and furnished.

COLLECTION ORGANISATION

The library has adopted Open Access System. Documents are classified as per International Classification System 'Dewey Decimal Classification'. Library has good collection of books covering the engineering subjects. International, National Journals, Technical Magazines & Newspapers are subscribed to update subject knowledge. Reference section covers with latest year books, Bibliographies, Dictionaries, Directories and handbook. General knowledge books are also supported with other books which are helpful to prepare for the competitive exams/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. Library is fully automated covering all its areas & OPAC facility is provided for users to locate the documents.

DIGITAL CENTER AND INTERNET FACILITY

Library's Digital Centre is having a good collection of CDs/ DVDs. Users can scan and refer information available in CD's/DVDs. Also, Internet facility is provided in the digital centre for web search. The Library regularly scans all VTU question papers and uploads them to the college server. Apart from question papers e-journals, e-books and notes are added to server. Users can access and download them using login details provided by the library.

E-Resources

Library has subscribed to e-resources through VTU Consortium which covers major publication and also it has subscribed to DELNET e-resources to help students/staff to get latest or current information.



REPROGRAPHIC FACILITY

Users can take Xerox copies of Reading material available in the library from library's Photocopier.

INTER LIBRARY CO-OPERATION

Our Faculty and Students can visit the following libraries with their I D Cards for reference purpose and also can take Xerox copies of literature of their interest for project, study or research purpose.

STATEMENT SHOWING NUMBER OF BOOKS UNDER UG & PG COURSES as on 21/06/2023



ABSTRACT Total No of Titles & Volumes

UG- BE	TITLES	VOLUMES
Books	2158	12946
Handbooks	04	1281
Complimentary Copy	400	443
Departmental Library Books	75	800
e-books	2500	5000
PG-M.Tech	TITLES	VOLUME
Books	34	65
TOTAL	5171	20535



COMPUTER/INFORMATION SCIENC ENGG.

#	NAME OF THE JOURNAL
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	IUP JNL of Computer Sciences
8	IUP JNL of Information Technology
9	Tele Net Magazine





ELECTRONICS AND COMMUNICATION ENGG



#	NAME OF THE JOURNAL
10	Electronics for You
11	Journal of Electronics Engineering
12	I-Manager's Journal on Electrical Engineering
13	IEEMA Journal

CIVIL ENGINEERING



#	NAME OF THE JOURNAL
14	Indian Concrete Journal
15	Journal Of Indian Water Works Assn
16	Indian Cement Review

MECHANICAL ENGINEERING



#	NAME OF THE JOURNAL
17	Journal Of Mines Metals & Fuels
18	Journal Of Manufacturing Engineering
19	Indian Journal Of Engg. & Matls. Science
20	Manufacturing Technology Today
21	Foundry
22	ICFAI University Journal of Mechanical Engg.

BASIC SCIENCE

#	NAME OF THE JOURNAL
23	Resonance
24	Annals Of Library & Information Studies

List of e-journals Subscribed for the year 2023

The following e-journals are subscribed under the VTU Consortium for the year 2023:

#	E-Journals
1	Springer Nature
2	Elsevier
3	IEEE (POP)
4	Emerald Publishing
5	Taylor & Francis
6	ProQuest
7	Kinmbus
8	Drillbit Plagiarism detection



Physical Education

Department of Physical Education

Message from the PED Director



Madhu
Sports Director and
Vice Chairman,
JSA

The Physical Education Department strives hard to inculcate discipline and sportsmanship in students and faculty through numerous indoor and outdoor games, thereby promoting a healthy body and a sound mind required for a successful technical education. JIT has a very positive and student-friendly atmosphere conducive to both academics and sports. The department offers competitive, fitness and recreational activities serving those interested in benefiting from the wider educational value of sports and recreation.

JIT is recognized as much for its illustrious sporting tradition as it is for its excellence in education, learning and research. The wide range of activities at the PED have one thing in common – they will all help you to keep fit and healthy. Physical Education plays a vital role in ensuring physical, social, and emotional health and the well-being of all. Through continuous focus on high quality training in a wide range of sports and activities, the physical education department (PED) seeks to create an environment where students can develop a love for active learning and physical activity through engaging and wide-ranging schemes of sports and extra curricular activities.

VISION

To be recognized as an excellent department of physical education providing state-of-the-art sports and games facilities and training

MISSION

To provide standard facilities for sports and games.
To train and coach students in sports and games.
To arrange sports tournaments at all events.
To create awareness about rules and regulations, and the importance of sports man spirit and ethics.
To educate students to be come life long learners of good health and physical fitness

The endeavor of the department is to instill the knowledge, skills and motivation required to equip students for a healthy lifestyle and lifelong participation in physical activity and sports. We strongly encourage students to represent the institution at different levels of tournaments across the state and the nation.

JIT has hosted a number of national, state and regional level sporting events and has never lost an opportunity to host a sporting event. The institution has hired coaches for team events on contract basis. JIT hosts one of VTU's South Zone tournaments on a regular basis.

Outdoor Sports Facilities

Sport	No of Courts	Playing Area	Total Area	Extra Area
Basket Ball	1	28 m x 15 m	33 m x 21 m	5 m x 6 m
Cricket Practice Pitch	2	4 m x 12 m	6 m x 20 m	2 m x 8 m
Throw Ball	1	12.2 m x 18.3 m	16 m x 25 m	3.8 m x 6.7 m
Volley Ball	1	9 m x 18 m	15 m x 25 m	6 m x 7 m

Indoor Sports Facilities

Sport	No of Courts	Playing Area	Total Area	Extra Area
Badminton	2	13.4 m x 6.1 m	20 m x 8 m	6.6 m x 1.9 m
Carrom	4	74 cm x 74 cm	2 m x 2 m	1.26 m x 1.26 m
Chess	6	21cm x 21cm	-	-
Table Tennis	2	2.74 m x 1.52 m	10 m x 8 m	7.3 m x 6.4 m
Taekwondo Practice	1	5 m x 5 m	10 m x 10 m	5 m x 5 m

Sports Events 2022-23

Sports are a powerful tool that helps in the overall development of the personality of an individual. They help to develop team spirit, and leadership qualities among the students. The institution encourages its students to participate in different inter-college competitions as well as in the VTU Inter-Collegiate sports games activities.

Below is a list of our students' achievements and merited triumphs in different competitions at various sports events conducted in the year 2022-23.

- The state-level weightlifting competitions for both men and women were held at GAT Bangalore. **Four girls and two boys** participated in the competition and one of our students Mr.Tharun T S got the **bronze medal in the below 76 kg category.**
- The VTU State level swimming competitions (men and women) 2022-23 were held at Basavanagudi Aquatic Center, organized by BMSCE Bangalore. One of our students Sushma S Bharadwaj secured **1 Gold, 2 Silver, and 5 Bronze medals and in total, 8 Medals.**



- VTU Bangalore South division badminton (men and women) competitions were held at SJBIT on 4th and 5th November 2022. Our college men's and women's teams participated in the tournament.
- VTU Bangalore South division Kabaddi (Men) tournament 2022-23 was held at KSSEM on 4th and 5th November 2022. Our students reached the **semifinals** of the tournament.
- The VTU Bangalore Division Hockey (Women & Men) tournament 2022-23 was held at SSCE, Anekal, on 9th November 2022. Our college hockey **women's team secured the runner-up position & men's team secured the winning position.**





- The VTU State level hockey (Men) tournament 2022-23 was held at BITM, Bellary, on 14th and 15th November 2022. Our college hockey men's team qualified in this tournament.
- The VTU Bangalore South division volleyball Men's tournament 2022-23 was held at RVCE on 17th and 18th November 2022. Our college team reached the **semifinals**.
- VTU Bangalore South division basketball (Men) tournament 2022-23 was held at JSSATE on the 28th and 29th of November 2023. Our students participated in the tournament.
- The VTU Bangalore division basketball (Women) tournament 2022-23 was held at Dr. AIT on 5th and 6th December 2022. Our college women's team also participated in this tournament.
- The VTU Bangalore South division football tournament 2022-23 was held at RNSIT on 15th and 16th December 2022. Our college Women's team participated in this tournament.



- JIT Organized the Annual Sports Day for Students 2022 -23 under the banner of **Jyothy Premium League Season-1** on 21st And 22nd December 2022 at SHEEN Sports Academy, Kaggalipura.
- **Jyothy Premium League Season-2** was held for the faculties who showed keen interest and enthusiasm by participating actively.



- Our college Hockey Men's Team participated in SHARDHA-22 organized by CMRIT from 14th to 17th December 2022.
- Our college volleyball (Men) team participated in the BMSCE volleyball tournament from 6th to 8th Jan 2022.
- Our College Tug of War Team participated in the VTU state-level Tug of War (Men) competition 2022-23 held on 4th January 2023 at Sai Vidya Institute of Technology, Bangalore.
- Our College Staff Members participated PES Staff Tournament 2022-23 held at PES University from 22nd to 25th January 2023. **Dr Madhu B R, HOD, Department of AIML won the title in Table Tennis.**



- Two of our college students participated in VTU State Level Power Lifting Competitions 2022- 23 held on 9th February 2023 at Vidya Vardhaka College of Engineering, Mysore.
- The VTU Bangalore South Division throwball (Women) tournament 2022-23 was held at GAT Bangalore on 10th & 11th March 2023. Our women's team participated in the competition.
- The VTU Bangalore South Division handball (Men) tournament 2022-23 was held at GAT Bangalore on 10th & 11th March 2023. Our men's team participated in the competition.



- VTU Bangalore South Division Cricket (Men) tournament 2022-23 was held at DBIT Bangalore on 13th March 2023. Our men's team participated in the competition.
- The VTU Bangalore South Division Khokho (Men) tournament 2022-23 was held at RVCE Bangalore on 17th March 2023. Our men's team participated in the competition.
- The 22nd VTU State Level Youth Festival was held at Nagarjuna College of Engineering, Bangalore from 30th March to 2nd April 2023. **Mr.Aprameya won first place in Instrumental Solo (Percussion) Talavadya.**
- The 24th VTU Inter Collegiate State Level Athletic Championships 2022-23 was held from 21st to 24th May 2023 at VTU Campus, Belgavi. In this tournament, 08 Boys and 03 Girls of our Institution participated. Jeevan N M secured the **Gold Medal in the Triple Jump and the Silver Medal in the Long Jump.** The VTU awarded him with the **Best Athlete of the Meet.**





NCC Report for the year 2022-23 1/2 Coy 1 Kar Bn, NCC

1. NCC has adopted community development activity with the aim of imbibing amongst youth selfless service to the community, importance of self-help, need to stop contamination of environment.
2. In support of lake cleaning Activity, on World Environment Day, 1 Karnataka Bn NCC, Bengaluru, planned an activity at Agara Lake Road, Bengaluru, Karnataka 560062, the program was initiated at Jyothy Institute of Technology, on 10 Sep 2023 at 11:00 hrs by Lt. Dr. Manoj Kumar M.
3. The undermentioned activities were executed after assembling in the college: -
 - (a) Display of placards.
 - (b) Awareness Rally on importance of cleanliness with slogans.
 - (c) Cleaning Event organized at Agara Lake.
 - (d) Skit at center of village to bring awareness of plastics usage
 - (e) G-20 awareness speech by Lt. Dr. Manoj Kumar M.
 - (f) Felicitation on behalf 1kar bn to local eminent person Mr. Chikkanna.

PLANNING AND PREPARATION

4. Jyothy Institute of Technology was nominated as the institutes to provide necessary arrangements for conducting the event under respective ANO's & PI Staff for co-ordination and assistance during the activity.
5. The basic frame work of the activity was planned as per the instruction from the NCC Group HQ and Unit. ANO's and PI Staff identified and visited the activity place area for reconnaissance and a plan for the activity was worked out and briefed to the cdt's of different institutions who acted as overall coordinators for the event.



TEAMS

6. Two different teams were made for each of the task as given below:-
- (a) Planning and co-ordinations - ANO's and PI Staff were nominated to make complete planning of the event in order to conduct in a meticulous way.
 - (b) Performance team - The teams were constituted to perform various activities like rally and street play to bring awareness amongst the cdts in order to save Water and keep our planet clean.

PHOTOGRAPHS







G-20 awareness speech by Lt. Dr. Manoj Kumar M



Felicitation on behalf 1kar bn to local eminent person Mr. Chikkanna





Jyothy Institute of Technology National Cadet Corps (NCC) Unit

Annual Report 2023

Why Choose NCC?

Jyothy Institute of Technology, NCC Unit, offers a unique blend of personal growth and national pride. Our cadets embark on a transformative journey where they gain valuable skills, build lasting friendships, and serve their community with passion.

We are a dynamic force committed to shape the “leaders of tomorrow” through a tapestry of values and experiences. Rooted in character, comradeship, discipline, and selfless service, our NCC unit stands as a crucible for personal growth and patriotic spirit. With a resolute focus on fostering character, we guide our cadets along a transformative journey where they embrace the highest ideals of ethical conduct and responsibility.

Comradeship forms the bedrock of our community, forging connections that transcends backgrounds and beliefs. Through discipline, we inculcate the habits of diligence, accountability, and precision that form the cornerstones of effective leadership. Our unit proudly upholds a secular outlook, nurturing an environment where diversity is celebrated and unity thrives.

At the heart of our endeavor lies the spirit of adventure, pushing our cadets to explore their potentials, overcome challenges, and seize opportunities with courage. It's ideal of selfless service truly binds our cadets together. Each action, each effort is a testament to their commitment to make a positive impact on our society. As we continue to pave the path towards excellence, we invite you to join us on this journey. Together, let's foster a new generation of leaders who



embodies the values of character, comradeship, discipline, a secular outlook, the spirit of adventure, and the unwavering commitment to selfless service.

Dr. Manoj Kumar M has cleared the selection board interview for Associate NCC officers and recommended for Direct Commission ANO and awarded with rank Lieutenant. The Pipping ceremony was held on 10-11-2022 for the same.

The total strength of the Unit increased to 52, 33 SDs(Boy cadets) and 19 SWs (Girl Cadets).Our cadets have been selected for special camps such as Army Attachment Camp(AAC), Ek Bharath Shresht Bharath(EBSB), Services Selection Board(SSB).

In the academic year 2022-23, 5 cadets appeared for B certificate exam, 4 of them passed with A grade and 1 cadet passed with B grade.

JIT NCC has organized several activities such as tree plantations, lake cleaning, performed skits, street plays and rallies to reduce usage of plastic.

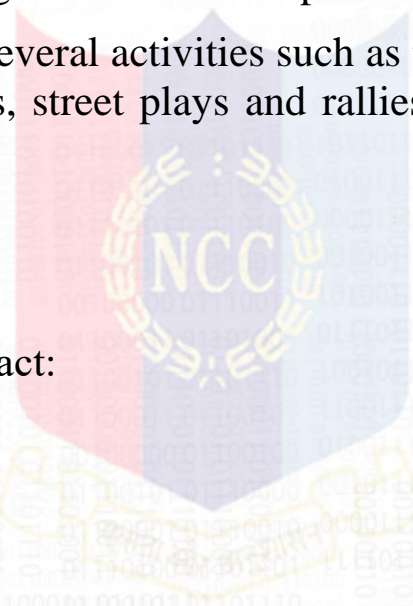
For inquiries, please contact:

Lt. Dr. Manoj Kumar M
Associate NCC Officer
9880210123

Sanjana
Parade Instructor
9353506681

Thank you,
Regards

½ Coy, National cadets corps, JIT



TRAINING AND PLACEMENT DEPT.



" One step of your future starts here "



TRAINING AND PLACEMENT DEPARTMENT



Ms. Rekha K V
Training & Placement
Officer and a
certified student
counsellor

JIT's **Training and Placement Department (TAPD)** 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.

TAPD 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 2021-22 has been very good with 230 offers received for 186 students who were eligible for campus placement as per hiring companies' policies.

JIT has partnered with Cognizant, Accenture and HCL Technologies where the students are given early hiring opportunity in their sixth semester.

Two students, Ms. Rachana from ISE and Mr. Vishal Panja from Mechanical Engineering, have been chosen as student ambassadors for Cognizant Technologies. Mr. Arun Kumar, Assistant Professor of CSE department, is the faculty ambassador for the same.



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/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

Team building

GD and mock interviews

LIFE SKILLS

Life Skills Recommended by WHO



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 skill gap that exists between industry and academia has been a moot point for years now. While the Indian education system prepares candidates with theoretical and practical knowledge, employers find most graduates struggling with on-ground understanding of the job they are engaged in. The Training and Placement department works hand in hand with the HR and business team of various companies and aims to narrow down the industry- academia gap, thereby making students industry ready.

JIT has maintained an excellent track record in recruitment process, placing 70-95% of the eligible students. The number of offer letters varies every year as per the recruitment drives and based on students' performance. The department aims at providing at least one offer letter to each outgoing student. Sources of placement are: in-campus placement drives, pool campus placement drives, off-campus drives, internship-cum-hiring, VTU drives and Alumni, JIT.

JIT invites companies, understands their recruitment process, organizes pre-placement talks and company specific trainings for the students, and prepares them for the HR round of inter-views, and help them in their on-boarding, in terms of document verification, etc.

The department coordinates with 100+ leading industries that hire aspiring engineers for open positions in their respective domains and verticals.

Placement Statistics for the class of 2023

Branch	Total Students	Total Offers
CE	24	4
CSE	118	115
ISE	60	60
ECE	53	42
ME	55	20
TOTAL	253	230

Highest Package	Company
1 st Highest 45.00 LPA	Virtusa, USA
2 nd Highest 21.00 LPA	4 th Valley Corporation, Japan



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 to into action, thereby aiding their practical learning. They are exposed to the real corporate environment and under-stand 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.

Internships

Students are encouraged to visit pertinent industries as part of a concerted effort to connect academia with the professional world. During these visits, they have the opportunity to witness first-hand how theoretical concepts are applied in practice, enriching their practical knowledge. This exposure immerses them in the actual corporate environment, allowing them to grasp the workings of organizations.



The training and placement department actively works to bridge the gap between the academic and industrial realms, ensuring that students are well-prepared to transition seamlessly from campus life to the corporate world. This "finishing school" initiative commences in their first year of engineering studies and continues throughout their final year.

Internships are largely with paid stipend to the students. The highest stipend from the internship drives conducted by the department is Rs. 30,000/- per month at LG soft India

Foreign Language Training

The Virtual Inauguration of the World Language Club took place on May 12, 2021, at JIT. This club is dedicated to enhancing students' language skills, with a focus on languages such as Japanese, German, and French. At present, the department offers training in the Japanese language, preparing participants for certifications. Additionally, the department conducts introductory French language training. To date, more than 50 students have undergone Japanese language training, with over 10 students achieving certifications at various levels ranging from N1 to N3 in the examinations administered by the Government of Japan. Two batches of students have received elementary French training, and there are plans to introduce German language training in the upcoming academic year.

The Club also arranges activities that showcase the culture and heritage of different nations.

Two students from the World Language club have been placed in Japan for a package of Rs.21.00 LPA (equivalent yen)

In essence, the Training and Placement Cell strives for the comprehensive growth of students, from the very first semester throughout their academic journey and even beyond, providing ongoing support to alumni.



Training and Placement Department 2023



The World Language Club would like to invite you to

茶道

A JAPANESE TEA CEREMONY TO CELEBRATE OUR NEWLY INAGURATED CLUB ROOM

27.12.21 | 4pm | The World Language Club Room
Jyothy Institute of Technology
Tataguni, Bangalore





Proposed activities in 2023

Inauguration of Toastmasters' club

The Toastmasters Club in an engineering college plays a pivotal role in nurturing vital skills and qualities among students. Here's a brief note on its importance:

The Toastmasters Club in an engineering college serves as a valuable platform for students to develop and enhance their communication and leadership abilities. It offers a safe and encouraging environment for them to practice public speaking, effective communication, and presentation skills.

In summary, the Toastmasters Club in an engineering college equips students with essential life skills that not only aid them academically but also prepare them for successful careers in the engineering field and beyond.





Centre for Incubation, Innovation and Research Consultancy (CIIRC®)

Message from the Director



Dr. Krishna Venkatesh
Director CIIRC®

VISION

To be a Centre of
Excellence for Developing
New Technology,
Innovation and Incubation

MISSION

Pioneering Product
Development

Greetings from the Centre for Incubation, Innovation, Research and Consultancy!

From times immemorial, teaching and research have been an indispensable activity and, today, is becoming increasingly multidisciplinary in nature. Technological advances are happening in every stream the world over and cultures are increasingly starting to interact 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:

Bio composites, Biopolymers	Remote Sensing and VLSI
Computational Engineering	Sophisticated Instrumentation Facility
Energy	Surface and Interface Physics
Environment	Thermal Engineering
Nanoscience and Nano Engineering	Tribology
Plant and Microbial Technology	Water



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)
- Lyophiliser
- PCR
- XRD (Xray Diffractometer)
- GC (Gas Chromatography)
- Epi - Fluorescence

Microscope

- FT-IR (Fourier Transform IR Spectroscopy)
- BSC - L2

Other facilities available on-site include:

- Bio-safety Cabinet Level II
- Probe Sonicator
- 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
- Ultra Cool Centrifuge
- Thermo-cycler
- Inverted Microscope
- Autoclave
- Laminar Air Flow Chamber
- Deep Freezer (-80°C; -20°C)
- Rotary Evaporator
- Microwave Reactor
- Animal Cell Culture Facility
- Cmpnsn. Molding Machine
- Tribometer
- Thermal Imager
- Environmental Chamber
- Wrapper Packaging
- Machine
- Powder Packaging Machine
- Double Nozzle Piston Liquid Filling Machine
- SS Product Mixer



FACULTY-RESEARCHERS

A qualified group of 70 faculty - 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[®] 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[®] 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[®] 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[®] 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[®] 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[®]

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*

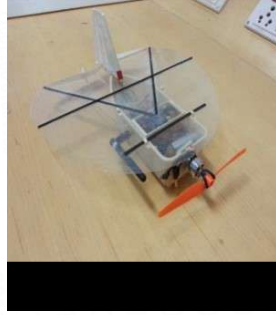


INNOVATIVE PRODUCTS FROM THE PORTALS OF CIIRC®

Centre for Incubation, Innovation, Research and Consultancy (CIIRC)



Micro air vehicle



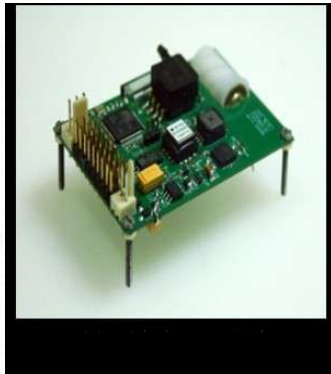
3D Printed MICAV



Micro-Amphibian



Embedded Dev Board



MEMS Dev Kit



Tracking Antenna



Radio Modem



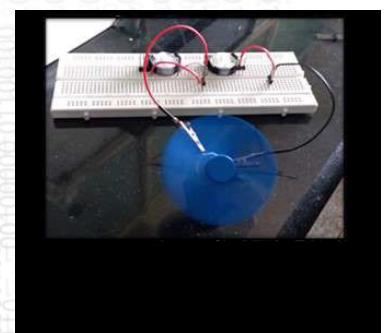
Autopilot System



Robotic Fish



Exercise Toy



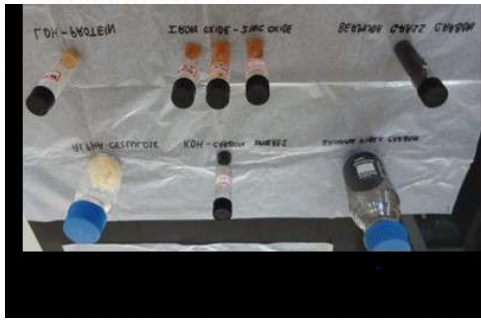
Fabricated coin cells



RP Coated Space Parts



INNOVATIVE PRODUCTS FROM THE PORTALS OF CIIRC®



Multifunctional Adsorbents



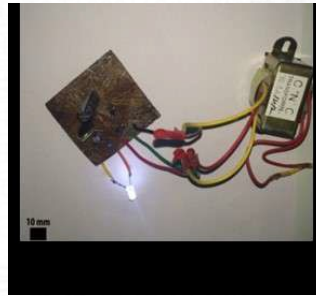
Biodegradable Plates and Cups



Centre for Incubation, Innovation, Research and Consultancy (CIIRC)



Container/Pots



Biodegradable PCB



Herbal Floor Cleaner



Wound Healing Cream



Turmeric Concentrate



Laminates



Dezinfecta



Hand Wash



Biodiesel



Soap Oil



Floor cleaner



Burn Oil



Bio Boxes



Bio Sensor



LIST OF FACULTY

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. G C Vijayakumar	Professor	Ph.D(VTU)	Mech Engg	Machine Design/Mgmt
10.	Dr. M Narendra Kumar	Professor	Ph.D(VTU)	Mech Engg	Thermal Engg.
11.	Dr. M Geetha Priya	Professor	Ph.D(Anna Uni.)	Electronics Engg.	VLSI/Remote Sensing
12.	Dr. Umananda Bhatta	Asso. Professor	Ph.D. (Homi-Baba Nat'l Inst.); Post Doc UK	Physics	Nano Physics
13.	Dr. H B Muralidhara	Asso. Professor	Ph.D.(Kuvempu Uni) Post Doc IISc	Chemistry	Electrochemistry
14.	Dr. Harshvardhan Tiwari	Asso. Professor	Ph.D. (Jaypee Inst.)	Computer Science	Info. Security
15.	Dr. Chandre Gowda	Asso. Professor	Ph.D(NITK)	Civil Engg.	Hydraulics
16.	Dr. Raghavendra K	Asso. Professor	Ph.D(NITK)	Mech Engg	Steriolithography
17.	Dr. Uma Ullas Pradhan	Asso. Professor	Ph.D(Mysore Uni.)	Electronics Engg.	Sensors
18.	Dr. Roopa Reddy	Asso. Professor	Ph.D(Uni. Of Nebraska)	Microbiology	Cancer Biology
19.	Dr. Soumitra Banerjee	Asst. Professor	Ph.D(IITK)	Food Tech.	Food Processing
20.	Dr. G S Nagananda	Asst. Professor	Ph.D(Karpagam Uni.)	Biology	Plant Microbiology



LIST OF FACULTY RESEARCHERS

Sl. No	NAME	DESIGNATION	QUALIFICATION	DOMAIN	SPECIALISATION
21.	Dr. Meenakshi H N	Asst. Professor	Ph.D. (AU)	Chemistry	Biofuels
22..	Dr. Padmashree Anand	Asst. Professor	Ph.D. (Mangalore Uni.)	Material Science	Ancient Indian Metallurgy
23.	Dr. Swetha S	Asst. Professor	Ph.D. (Jain Uni.)	Microbiology	Agri. Microbiology
24.	Dr. Minichitha U	Asst. Professor	Ph.D. (Jain Uni.)	Chemistry	Catalysis
25.	Dr. Swarna Haldar	Asst. Professor	Ph.D. (IITK)	Clinical Nutrition and Dietetics	Food Technology
26.	Dr. Skandakumar B N	Asst. Professor	Ph.D(VTU)	Civil Engg.	Highway Engg.
27.	Sandeep Suryan	Asst. Professor	M.Sc	Biotechnology	Industrial Biotech
28.	Deepak V Ingale	Asst. Professor	M.Tech	Electronics Engg.	VLSI
29.	Nayana Bhat	Asst. Professor	(Ph.D VTU) (on going)	Computer Science	Image Processing
30.	Chandan Kumar Sahu	Asst. Professor	M.Tech(IITK), (Ph.D IITB Ongoing)	Food Tech	Food Processing
31.	Krishna Kishore J	Principal Research Engineer	M.Tech	Mech Engg	Energy/ Autonomous Systems
32.	Prasanna V Bhat	Senior Research Engineer	M.Tech	Mech Engg	DSP
33.	Keshav Gowtham	Research Engineer	M.Tech	Computer Science	CNE
34.	Chandrashekhar R	Research Engineer	B.E	Chemical Engg.	ETP

ADMINISTRATIVE STAFF

35.	Kowshik V N	Accounts Officer	B.Com
36.	Ram A	System Administrator	BCA
37.	Madhura M Nadgir	Office Assistant	B.Com
38.	Raghu K R	Admin. Assistant	B.Com



ONGOING FUNDED PROJECTS

Sl. No	Title of the Project	Funding Agency	PI
1.	Compatibility of fueling infrastructure materials with dimethyl ether and diesel blends	DST, GoI	Dr. Meenakshi H N
2.	Development of Low Cost Iron Based Flow Batteries for Grid Level Energy Storage	DST, GoI	Dr. H B Muralidhara
3.	Development of an Efficient Microbial Consortium for the Enhancement of Plant Growth and Essential Oil Yield in Eryngium foetidum L. under Abiotic stresses – A New Approach towards Organic Farming	DST, GoI	Swetha S
4.	Development of Fabrication of RP Products for the Helathcare, Consumer and Sporting Segments	DIC-KCTU, GoK	M G Ananthaprasad
5.	Establishment of a Genome Computing Cluster	VGST, GoK	S Balaji
6.	Evaluation of Airborne L and S-band SAR for Disaster Damage Identification	DoS, Space Application Centre, ISRO	Dr. Geethapriya M
7.	Snow Cover, Snow Depth and Snow Line Studies in Himalayan Basins	NCOARMOES, GoI	Dr. Geethapriya M
8.	Integrated Studies of Himalayan Cryosphere using Space Based Inputs	ISRO	Dr. Geethapriya M
9.	Development of Ni/Co/Mn/MWCNTs based Nanocomposites as Positive Electrode and Low Cost “Green” Carbon obtained from biowaste as negative electrode materials for hybrid supercapacitors	DST, GoI	Dr. Kathyayini N
10.	Improvement of thermostability and functionality of cancer therapy related enzyme isolated from Variovorax paradoxes by using nanoapproaches	K-FIST VGST	Ravi Kumar K
11.	Estimation of Food Quality Based on Microbial Load and Microscopic Structure keeping inMind Consumer's Helath and food safety	VGST, GoI	Soumitra Banerjee



ONGOING FUNDED PROJECTS

Sl. No	Title of the Project	Funding Agency	PI
12.	Retrieval of ice velocity using interferometry techniques to understand ice dynamics and glacier stored water of Karakoram glaciers	DST SPLICE	Dr. Geethapriya M
13.	Whole-cell Modeling and Accelerated Simulation on Heterogeneous Parallel Platform	VGST, KSTePS	Nayana Bhat
14.	Development of Vortex bladeless wind turbine	VGST, KSTePS	Dr. Chandre Gowda
15.	Design and development of biodegradable films from food waste for food packaging	VGST, KSTePS	Dr. Swarna Halder
16.	Thermal management of space electronics using multi-turn pulsating heat pipes	RESPOND (ISRO)	Dr. M Narendra Kumar
17.	An electrochemical approach for recovery of Sericin from degumming waste water	SERB, GoI	Dr. Narendra Reddy
18.	Green Valorization of sheep wool wastes towards biocomposites and bioactive building materials	CEFIPRA (Indo French)	Dr. Narendra Reddy
19.	Digitization of best-before date of the packaged meats using a Smart Label	DST, GITA	Dr. S Balaji

AWARDS/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 Incubation Centre - JIT Foundation (AIC - JITF)



Dr. M G Anantha Prasad
CEO, AIC - JITF



Ms. Savitha Prakash
Incubation Manager



Ms. Rama Jyothi
Incubation Manager

MESSAGE FROM THE CEO

Greetings from AIC - JITF! London, Mumbai and Bengaluru have featured among the world's top startup hubs according to a comprehensive ranking of international startup hubs compiled by Startup Genome for its annual Global Startup Ecosystem Report 2021. Bengaluru Startups raised \$ 31.5 Bn from 2,115 funding deals between 2014 and 2020.

Bengaluru recorded the highest number of M&A deals with more unicorns and soonicorns, than other StartUp Hubs. High density of entrepreneurs and investors and availability of co-working space are some of the fuelling factors that have contributed to Bengaluru being recognized as a renowned Startup Capital of the country. Being a stakeholder of the Bengaluru StartUp ecosystem, we are happy to see Bengaluru emerging as a preferred Start Up hub.

PM Modi declared **16th January** as National **Startup Day** six years ago in 2016. It was when the **Startup India Seed Fund Scheme** initiative was launched. The PM termed startups as the “backbone of new India” and the engine that will power the nation’s economic growth in the runup to the 100th year of Independence. He pointed out that the number of startups in India had grown to over 60,000 from less than 500 just five years ago and are “changing the rules of the game.”

We are also glad to announce that AIC - JITF has been selected for Seed fund support up to Rs. 5 crores under **Startup India Seed Fund Scheme** in the month of December 2021. We are happy to serve as facilitators/ ecosystem enablers between DPIIT and Startups across India, building a robust Start-up ecosystem in the country for nurturing innovation and providing opportunities to budding entrepreneurs.



Ms. Shravya R
Incubation Associate



Mr. Nithin Kumar M
Incubation Associate



Mr. Suresh H D
Incubation Associate

Atal Incubation Centre - Jyothy Institute of Technology (AIC - JITF) is an incubation center supported by AIM, NITI-Aayog, GoI. It marks a new era in the field of scientific entrepreneurship enabling aspiring individuals, students and faculty to incubate and build their start-up ventures.

AIC - JITF is housed in Jyothy Institute of Technology which also has a state-of-art R&D center, CIIRC, The Centre for Incubation, Innovation, Research and Innovation.

Key Features of AIC - JITF are:

- Provides 360° support for incubation
- Facilitates mentoring support from renowned scientists and successful entrepreneurs
- Better networking with investors
- Necessary assistance for seed funding, grants, loans
- Pre-Incubation support
- Technology and IP facilitation services
- Access to labs, markets and other resources AIC - JITF currently focuses on three thrust areas:

- Devices and Sensors (IoT)
- Food Technology • Materials



Academic Partnerships

AIC - JITF has partnered with several academic institutions to instil a spirit of entrepreneurship among the student community. This endeavour can ignite their young minds with innovative ideas and provide them an opportunity to incubate their companies and scale it to commercialization. Academic partnerships have been signed with the following institutions:

1. Adichunchunagiri University, Mandya
2. Adi Shankara Institute of Engineering and Technology, Kaladi, Kerala
3. AMC Engineering College, Bengaluru
4. APS College of Engineering, Bengaluru
5. Bahra University, Himachal Pradesh
6. Bapuji Institute of Engineering and Technology, Davanagere
7. BMS College of Engineering, Bengaluru
8. Cambridge Institute of Technology, Bengaluru
9. Centurion University of Technology and Management, Odisha
10. Dayananda Sagar Academy of Technology and Management, Bengaluru
11. Don Bosco Institute of Technology, Bengaluru
12. GSSS Institute of Engineering and Technology for Women, Mysore
13. Global Academy of Technology, Bengaluru
14. Holy Trinity College, Kunigal
15. IEMS B-School, Hubballi
16. Jawaharlal Nehru National College of Engineering, Shivamogga
17. KLS Institute of Management Education and Research, Belagavi
18. Kongunadu College of Engineering and Technology, Tamilnadu
19. Malnad College of Engineering, Hassan
20. Modern Group of Institutions, Bengaluru
21. Niharika Education Foundation, Bengaluru
22. Presidency University, Bengaluru
23. QIS College of Engineering and Technology, Andhra Pradesh
24. RMK Engineering College, Tamilnadu
25. Raghavendra Hi-Tech PU College, Davanagere
26. Raghu Engineering College, Andhra Pradesh
27. Raj Kumar Goel Institute of Technology, Ghaziabad
28. SLN College of Engineering, Raichur
29. Sivananda Sarma Memorial Rashtreeya Vidyalaya, Bengaluru
30. Sri Madhwa Vadiraja Institute of Technology and Management, Bantakal
31. Sri Sai Ram College of Engineering, Bengaluru
32. Sri Siddhartha Institute of Business Management, Tumakuru
33. Sri Siddhartha Institute of Management Studies, Tumakuru
34. Sri Siddhartha Institute of Technology, Tumakuru
35. Vivekananda Institute of Technology, Bengaluru

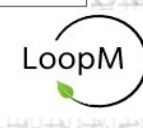
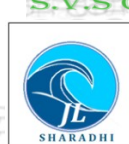
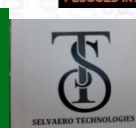
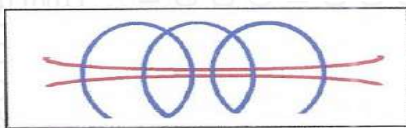
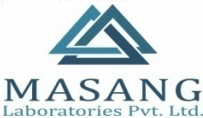


E2E BioTech

Start - Ups Incubated at AIC — JITF

AIC - JITF proudly presents start - ups incubated at the Centre. All of them belong to the three thrust areas identified for growth, with good potential to scale up in terms of product range and market share, thus providing more employment opportunities and contributing to the country's economy.

The list of start-ups incubated at AIC - JITF in the recent past include:



**AIC-JITF Incubatees so far :**

1. Prakhoj Pvt Ltd
2. Clonartis Biotech Pvt Ltd
3. Ameliorate Biotech Pvt Ltd
4. Shudh Labh Solutions Pvt Ltd 1
5. Tattvavai
6. Infodoct Innovative Solutions LLP
7. Aparat Technologies
8. Grus Ecosciences Pvt Ltd
9. Innule Life Sciences
10. E2E Biotech Pvt Ltd
11. Veza Agrobots
12. Machbee
13. Bauplechain
14. FlyatMach
15. Masang Laboratories Pvt Ltd
16. Gridflow Technologies Pvt Ltd
17. Frenvi Pvt Ltd
18. Sparcolife Technologies Pvt Ltd
19. muEdge AI Technology Pvt Ltd
20. Vemsa Biotech Pvt Ltd
21. Perfect Day India Pvt Ltd
22. Next Big Innovations Labs
23. Ameliorate Biosensor
24. Decibels Lab Pvt Ltd
25. NAKA Foods Pvt Ltd
26. 5W ventures Pvt Ltd
27. Power Factor
28. Shree Hurlay Tech Solutions LLP
29. Selcius Techops Pvt Ltd
30. 2S Deli Dairy Products Pvt Ltd
31. Magic Mux Technologies LLP
32. InnovMon Technologies Pvt Ltd
33. Saskia Labs Pvt Ltd
34. Fermensis Bio Pvt Ltd
35. Milkvilla Pvt Ltd
36. Selvaero Technologies
37. Thaingrow Labs Pvt Ltd
38. Pi
39. Praketa Innotech Pvt Ltd
40. Samparkadindu Solutions Pvt Ltd
41. S .V. S. Circulating Hydro Power Pvt Ltd
42. BioArtha Labs
43. M/S Kraft-Obench LLP
44. Lumin AI Systems LLP
45. Saish GSE Private Limited
46. Health is wealth
47. Octosense Pvt Ltd
48. JL Sharadhi
49. Chahil Clean Tech Pvt Ltd
50. Fine Elements
51. Hachidori Robotics Pvt Ltd
52. Chapter New Studios LLP
53. Renewable Insights Pvt Ltd
54. Symber Bio Fabs Pvt Ltd
55. Niragh Foods Pvt Ltd
56. Avirahtech Solutions Pvt Ltd
57. LoopM Alternatives
58. Plotnew Bio Innovations Pvt Ltd
59. Samsrushti Health Technology Solutions Pvt Ltd

Products from our Incubatees



3D Bio Printer



Food Adulteration Testing



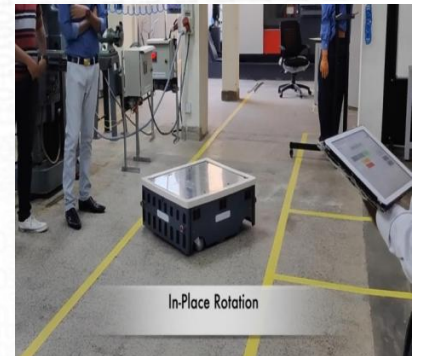
Negative Ion Generator



Innoskin



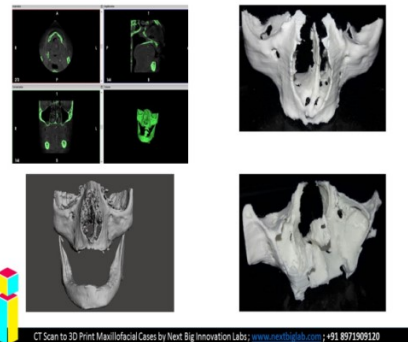
Milk Adulteration Testing Kit



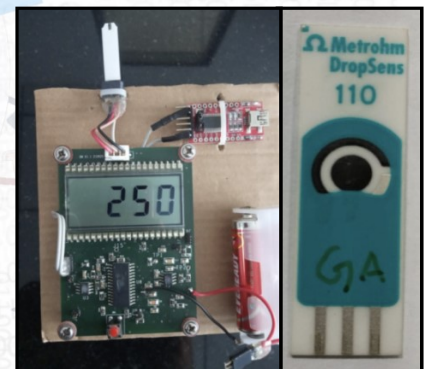
Collaborative Autonomous Mobile Robots



4 PM Bar



CT Scan to 3D Print



Blood free Glucometer



Wine making Kit



Natural Colours



Micro Algae based Liquid Fertilizers



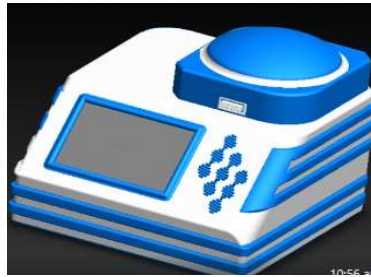
Developing BMS for Electric Vehicles



Developing Motor Controller for Electric Vehicles



Mental Health Care Assessment System



PCR Product from Octosence



Cuff free BP Measurement works with PPG Signals



Aerobic Digester



Borer Management device to be used in Agriculture



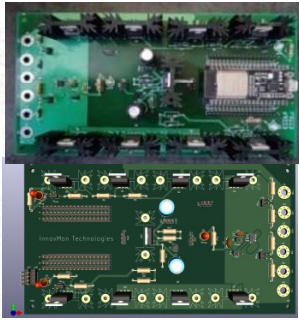
Natural Biodegradable Products



Remote controlled Agrobots



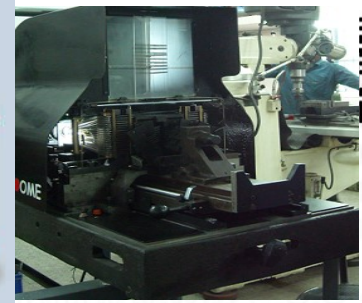
Edible Cutlery



Neutraceuticals



Work from Home Unit



Milkvilla Cart



Propellers



Molecular Biology Enzymes & Reagents



Nutri Foods



Supportive System for Defense



Space Blaze



eBLOOME



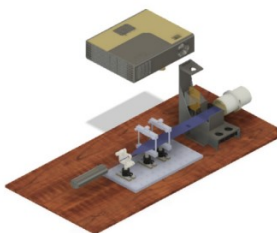
Initial Hardware and Software testing of Duo pack board 350W hub motor

Testing the WEC model in actual sea conditions

1-KW WEC
Preliminary test

SPECIFICATION	VALUE
FLAP WIDTH	1.0 m
FLAP HEIGHT	1.5 m
DEPTH OF IMMERSION	0.9 m

Wave Energy Converter From JL Sharadhi



3D Printing PoC of Apara Technologies



eDIVA



Millet Products

Notable Achievements



Gold Award (Arohana Social Innovation) from Infosys Foundation.

Ameliorate Biotech Pvt Ltd received this award.

ZS Prize award received by Ameliorate Biotech Pvt Ltd

Prize Money: Rs. 25 Lakh



Developed by the funding from Ministry of Heavy Industries with ARAI-AMTIF as accelerator.

Patent filed: Twin Battery system with AI Propulsion for EV by Innovmon Technologies.

Our start up NBIL has participated in National Technology Day. Their innovation, 3D Bio Printer has been showcased and the co-founder Mr. Piyush got an opportunity to interact with Hon'ble Prime Minister Sri Narendra Modi in the event.





Our Funding Agencies Supported AIC-JITF



IMPACT CREATED

AIC - JITF :

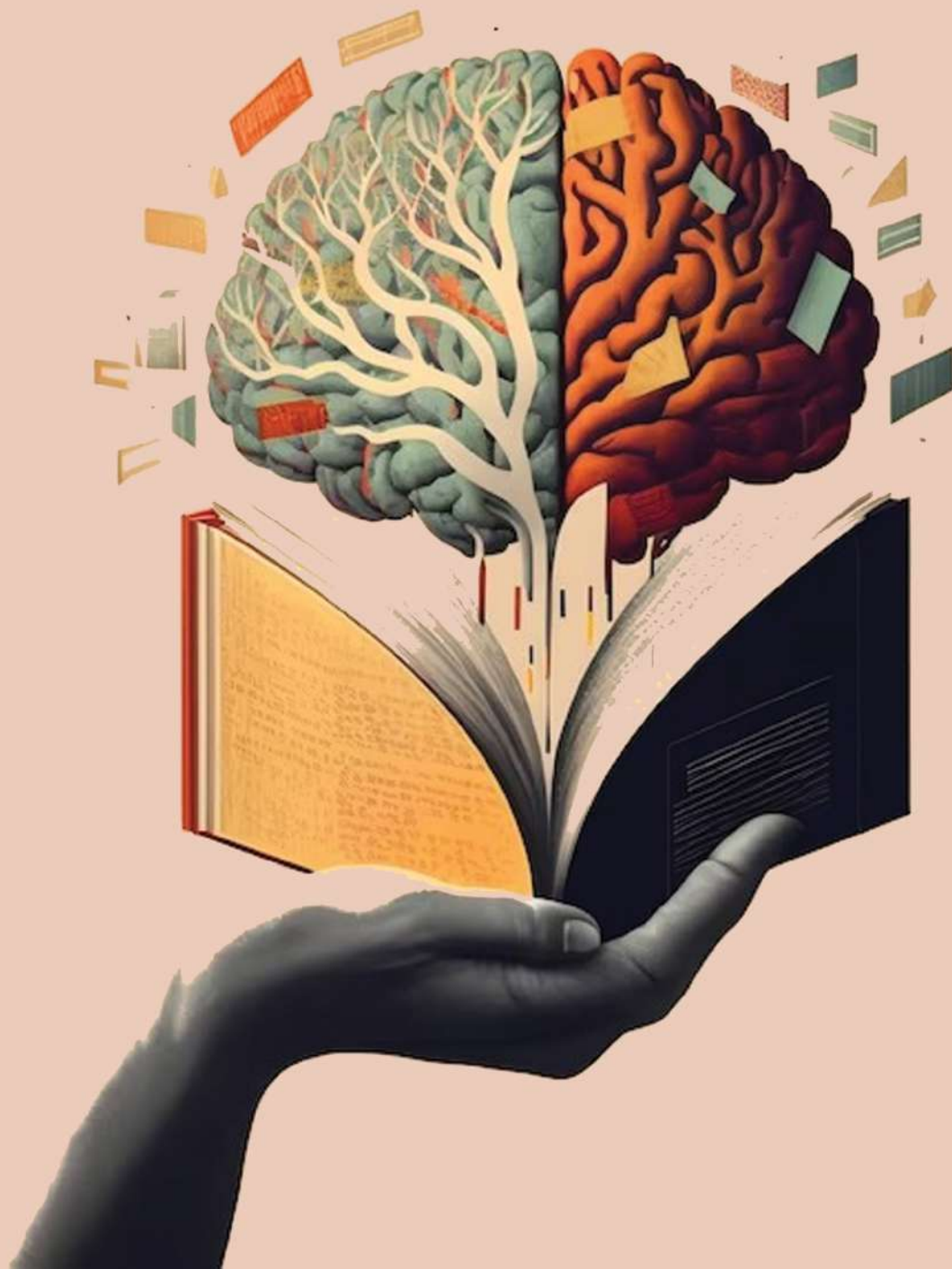
- **82** - Startups Incubated
- **22** - Graduated Startups
- **70** - Partnerships
- **28.5 Cr** - Grants
- **181** - Number of Events and Meetings
- **60000 sq. ft.** - Built-up Area

STARUPS :

- **400+** - Jobs Created
- **450+ Cr** - Startups Valuation
- **187 Cr** - Sales Turnover FY 2019-23
- **28.81 Cr** - Funds Raised
- **8 Cr** - AIC-JITF Investment(Equity)
- **06** - Awards Won

STUDENTS' ARTICLES

"Engineering Minds, Creating Binds,
Exploring Finds."



THE STORY OF THE INDIAN PREMIER LEAGUE

On 11th June 2023, Team India under Rohit Sharma fell short in yet another ICC event. The last time we can remember India winning an ICC trophy dates back to 2013 when India won the ICC Champions Trophy under MS Dhoni.

Winning ICC trophies isn't easy as MS Dhoni made it look like. MS was a champion skipper who knew how to dominate the opposition calmly. He used to get into the heads of the opponents without actually being involved in any of the so-called 'verbal spats'.

Unlike Mr. Virat Kohli is someone who always plays with his heart on his sleeve. He believes in dominating the opposition with his aggression. Which worked for Team India. India went on to become the most successful test team under Virat. But it is tough to believe that such a champion skipper neither has an ICC trophy (as captain) nor an IPL trophy to his name.

During the Sourav Ganguly era in the BCCI administration, there were a series of controversies between the captain and the administrators. But eventually, the captaincy in all formats was taken back from Virat Kohli. It was the start of Rohit Sharma's era as captain of India in all formats. But in the 2022 T20 WC under Rohit Sharma, India failed to even qualify for the semifinals in the ICC event. Since the 2013 Champions Trophy Team India has failed to capitalize in the ICC events like the 2015 cwc, 2016 T20 wc, 2017 Champions Trophy, 2019 cc, 2021 WTC, 2021 T20 wc, 2022 T20 WC, and 2023 wtc. All of them were opportunities missed by Team India from being the World Champions.

2020-2022, It was times when Virat was going through a tough phase. But just when India needed the services of his former skipper, come the Asia Cup 2022... though India's campaign ended up in the super 4s, It was Virat Kohli's comeback that was treasured more than anything else. He broke his century drought to score his most awaited 71st century in the least expected format of him to have scored a 100. He also had a match-winning outing against Arch rivals Pakistan both in the Asia Cup and the World Cup 2022. The 23rd of October 2022, Virat scored the best knock of his career. The chase-master showcased a masterclass chase.

That knock scripted the comeback of him. He had a pretty decent 2023 IPL too. But the 2023 IPL was a tournament that announced the future superstars of Indian Cricket. Players like Shubman Gill, Yashasvi Jaiswal played like they are here to play and dominate in the International level. Shubman Gill in particular destroyed the opponents with every single shot in his armory. He looked unbeatable and seemed a proper X-factor for the forthcoming 2023 WTC Final.

Team India yet again fell short of getting their hands on the ICC mace. But this time, the Indian fans have been furious. There are many reasons for the Indian fans to show their rage upon... the first one being the exclusion of Ravichandran Ashwin from the playing 11.

Excluding him considering the conditions and the pitch seems foolishness because he's someone who can adapt and pick wickets on any track. It was also so strange when Rohit said that playing 3 match series to decide the winners of WTC would be ideal rather than playing 1 match. He said playing 1 match will deny them from

showcasing team's character of coming back from setbacks. He also said they didn't have enough time to prepare and train properly for the Final. But it was clearly visible how prepared Australia were, come the Final. It was certainly because most of their players had skipped IPL to train for the ultimate test. Skipping IPL to train for the Red Ball Final is so obvious. But for the Indian Cricket team, playing franchise cricket has seemed more important. The money-rich tournament is now being hated by Indians because it has become an evident reason for India's failure in the Final of WTC23.

Players like Shubman Gill and Virat Kohli who were in some form during the IPL failed to make their mark. Pujara who had a superb stint with Sussex both as captain and as a batter, failed to score runs, Skipper Rohit Sharma couldn't get back his lost mojo. Neither Shardul, nor Umesh had the required steam in their deliveries that could threaten the Aussie batsmen. Shami and Siraj were inconsistent at times. India were ruthlessly beaten by the Australians. It was the character and temperament showcased by Rahane and the heroics of one & only Sir Jadeja that saved them from an innings defeat. Shardul was good with the bat but Ashwin in place of Shardul or Umesh would have made a lot more sense.

IPL THROUGH THE YEARS

It was back in 2008 when this tournament was kicked off to a start. It was looked at as a tournament that would enhance Indian Cricket. It did happen so. But IPL has now become a money-dominated event. It's India's pride to host such a magnificent league. Players from across the World come here and compete, and receive the hospitality of Indians. Many foreign Cricketers have loved India and its culture. People have also paid back the love. There are foreign players in India who are loved. But the viewership and the hype of the tournament nowadays has made IPL the primary talent scout. It might be one of many talent-hunting events. But definitely not the primary talent scout. The hype of the tournament has now taken the limelight off Domestic Cricket. The Domestic circuit in India has the right infrastructure to give the national team the able players for the future. But "IPL performances" are being given importance. Yes, IPL does give a lot more exposure than Domestic Cricket.... But traditional Indian domestic tournaments like the 'Ranji Trophy', 'Vijay Hazare Trophy', and 'Syed Mushtaq Ali Trophy' were introduced for talent scouting.

To summarize, BCCI should consider Domestic Cricket as a mainstay talent scouting event over IPL without hyping the IPL performances. BCCI also should start looking into the scheduling of IPL and the bilateral series by giving proper time for the players to remain fresh for the 'National Duty'. The players should also start prioritizing International Cricket and start serving the country with their hearts filled. The fans love them for the same then, now, and forever...!!!

**- ANIRUDHA R NIJAGAL
4TH SEM
DEPT OF ISE**



GENOMICS

HOPE FOR HUMANKIND

Genomics is an emerging technology that could outperform Tesla. The biggest upside surprises can be from the genomic domain bringing game-changing solutions for unresolvable diseases. The main reason behind this is that a combination of DNA sequencing, artificial intelligence, gene therapies, and CRISPR gene editing would turn around the tables.

Recently, the protein folding problem which was potentially unsolvable was solved by AI as well as single gene and multiple gene-related illnesses like paediatric blindness are cured by gene editing. As real science and technology surface the mutations in our genomic profile and as we surface those mutations, we see the earliest manifestations of diseases. Combination of both gene-editing and Artificial intelligence we can anticipate and find potential solutions for diseases.

COMMON MISUNDERSTANDING BETWEEN GENETICS AND GENOMICS

People often mistake genetics for genome but they are wrong. Genetics is the study of how different characteristics are inherited, things as eye color, etc. Genes control all the characteristics of a person. Studying a gene could reveal why mutation might occur but since diseases are complex they are not often caused by single genes, which makes it challenging to know what the main root cause is troubling the being. Stepping into the world of genomics, it studies all the organism's genes, and their genome, to know the difference, no matter how small they are contributing to their characteristics. This implies that going through billions of DNA units of a population.

HOPE IN HOPELESSNESS

IN genomic sequencing the normal healthy DNA tissue is being compared with unhealthy or tumour DNA units. So the differences spotted would be the cancer. Genomic sequencing has 3 insights that would be

-Developing an FDA-approved drug for one's unique driver of my disease for my cancer type.

-FDA-approved drugs for different cancer types but sharing the same genetic driver

-Are there any clinical trials for developing a great fit for what is driving my disease?

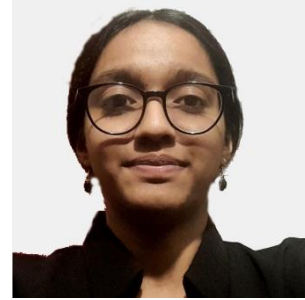
Tech has advanced that the sequencing of genome took 10 long years for sequencing taking up billions of dollars but now the procedure is within a day and in 1000 bucks.

Living in a world suffused with data one could find patterns that would help in finding to stop the mutations causing the cancer. Due to its existence artificial intelligence has helped to speed up the process of finding patterns that are not possible to see through human eyes. More the data studied under these machines, the discovery of new patterns is possible which could be ground-breaking in the healthcare field.

CONCLUSION

In the future, people could follow the process of sequencing instead of conventional means of solution which let people into the hole of despair. Genomics is a young field that relies on advancing tech space which is the new hope for a longer journey of the human species to live and thrive.

-EESHA BALIGA
4TH SEM
DEPT OF ISE



THE PHILOSOPHY

Introduction

Philosophy, often defined as the pursuit of wisdom and the exploration of fundamental truths, is a subject that has intrigued thinkers for centuries. In this article, we will delve into the concept of philosophy as a perception of truth and its connection to the understanding of the self. We will explore the idea that each individual accepts their truth based on their unique perception, and the significance of acknowledging the ultimate truth.

Philosophy as a Perception of Truth:

Rather than constraining philosophy to mere belief or aesthetics, let us consider it as the perception of truth. Philosophy is the pursuit of understanding the world and our place in it, seeking answers to fundamental questions about existence and reality.

Individual Acceptance of Truth

One striking aspect of philosophy is that each individual accepts their version of truth according to their perception. This subjective nature of human understanding acknowledges that diverse perspectives exist, each shaped by personal experiences, upbringing, and cultural influences.

However, does the search for truth end with personal perception? The quest for philosophy compels us to acknowledge the possibility of an ultimate truth—a truth that transcends individual perspectives and exists independently of our beliefs.

Acceptance of Others' Perceptions,

The challenge arises when we must reconcile our perceptions with those of others. Accepting and respecting the diverse viewpoints of fellow thinkers is a significant aspect of philosophical discourse. It prompts us to consider questions of relativism and the boundaries of our own beliefs.

Understanding the Self

To unlock the door to ultimate truth, we must first turn inward and seek to understand the self. Self-awareness and introspection become vital tools on the path to wisdom. Who are we? What drives us? How do our emotions, experiences, and perceptions shape our understanding of the world?

The Nature of Self

Questions concerning the nature of the self and how to maintain self-integrity have been central to philosophical inquiry. Exploring the depths of our consciousness and identity is an essential step in grasping the broader truths that philosophy seeks to uncover.

Control of Senses,

Once we have unraveled the complexities of our self, we gain greater control over our senses. This control is a manifestation of self-discipline and awareness, essential attributes for navigating the complexities of life.

The Role of "Why"

Throughout our philosophical journey, we may encounter the question of "why." While it may appear elusive or even irrelevant at times, this question drives us to explore the underlying causes, purposes, and meanings behind our beliefs and actions.

Conclusion

In conclusion, philosophy is a multifaceted discipline that encompasses the perception of truth, the understanding of self, and the acceptance of diverse perspectives. It is a journey that challenges us to acknowledge both personal truths and the possibility of an ultimate truth. By embracing self-awareness and introspection, we gain the necessary tools to navigate the complexities of philosophy, all while pondering the profound question of "why."

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Hot or Not: The Job Market Heat Map for AI Professionals

Artificial Intelligence (AI) and Machine Learning (ML) are no longer buzzwords; they are the driving forces behind some of the most transformative technologies of our time. From self-driving cars to personalized movie recommendations on streaming platforms, AI is everywhere, and it's only getting more influential. But what does this mean for aspiring AI professionals like you? Let's dive into the exciting world of AI and explore the trends, demands, and opportunities that await you in this dynamic field.

The Sizzling Demand for AI Talent

Why is the AI job market so hot right now? It's a combination of factors that make AI professionals highly sought after:

1. AI is Everywhere

AI has infiltrated nearly every industry you can think of, from healthcare and finance to entertainment and agriculture. Businesses are eager to harness its power to gain a competitive edge and improve efficiency.

2. Unquenchable Thirst for Data

Data is the lifeblood of AI, and with the proliferation of the internet and smart devices, there's more data available than ever before. AI professionals are needed to make sense of this vast amount of information.

3. Diverse Applications

AI isn't a one-trick pony. There are countless ways to apply AI and ML, from creating chatbots for customer service to training models to detect diseases in medical images.

4. Generous Compensation

AI professionals are among the best-paid in the tech industry. It's not just about the money, though – it's a sign of the value AI brings to organizations.

Hottest Careers in AI

If you're wondering which career paths are red-hot in the world of AI, here are a few to consider:

1. Machine Learning Engineer:

- **Role:** Machine learning engineers are the architects behind AI systems. They design, develop, and fine-tune machine learning models to address specific problems or tasks.
- **Responsibilities:** They are responsible for data preprocessing, model selection, training, and deployment. Their goal is to create models that can make predictions or decisions based on data.
- **Skills:** Proficiency in programming languages like Python and experience with machine learning libraries such as sci-kit-learn and XGBoost are essential. Strong problem-solving and debugging skills are also crucial.

2. Data Scientist:

- **Role:** Data scientists are the detectives of the AI world. They gather and analyze data to extract meaningful insights, identify trends, and make data-driven predictions.
- **Responsibilities:** Data cleaning, data visualization, and statistical analysis are core responsibilities. They also build and validate predictive models and communicate their findings to non-technical stakeholders.
- **Skills:** Expertise in data manipulation using tools like pandas, data visualization with libraries like Matplotlib and Seaborn, and proficiency in statistical analysis are essential. Strong domain knowledge is often a plus

3. AI Research Scientist:

- **Role:** AI research scientists are at the forefront of AI innovation. They focus on developing new algorithms, techniques, and approaches to advance the field.
- **Responsibilities:** Research scientists work on complex AI problems, conduct experiments, and publish research papers. They collaborate with academic and industry partners to push the boundaries of AI.
- **Skills:** Advanced mathematical knowledge, including linear algebra, calculus, and statistics, is crucial. Proficiency in programming languages like Python and experience with deep learning frameworks is often required.

4. Natural Language Processing (NLP) Specialist:

- **Role:** NLP specialists are instrumental in making computers understand and generate human language. They work on applications like chatbots, language translation, and sentiment analysis.
- **Responsibilities:** Building NLP models, text preprocessing, and feature extraction are typical tasks. They also fine-tune pre-trained language models like BERT and GPT-3.
- **Skills:** Expertise in NLP libraries like NLTK, spaCy, or Hugging Face Transformers, along with a solid understanding of linguistics, is essential. Knowledge of neural networks for NLP is a plus.

5. Computer Vision Engineer:

- **Role:** Computer vision engineers teach machines to interpret and understand visual information from images and videos.
- **Responsibilities:** They work on object detection, image segmentation, and facial recognition systems. Developing algorithms to process visual data is a key part of their jobs.
- **Skills:** Proficiency in computer vision libraries like OpenCV and deep learning frameworks like TensorFlow or PyTorch is crucial. Knowledge of convolutional neural networks (CNNs) is essential for image analysis.

These careers in AI offer a wide range of exciting opportunities, and each has its unique focus and demands. As you explore these paths, consider your interests, strengths, and long-term career goals to determine which one aligns best with your aspirations in the dynamic field of AI.

Skills to Stand Out

To thrive in the AI job market, you need a mix of technical and soft skills:

Technical Skills:

Programming: Proficiency in Python, R, and other AI-friendly languages.

Mathematics: A strong foundation in linear algebra, calculus, and statistics.

Machine Learning Frameworks: Familiarity with libraries like TensorFlow and PyTorch.

Deep Learning: Understanding neural networks and deep learning techniques.

Data Handling: Skills in data preprocessing, cleaning, and analysis.

Soft Skills:

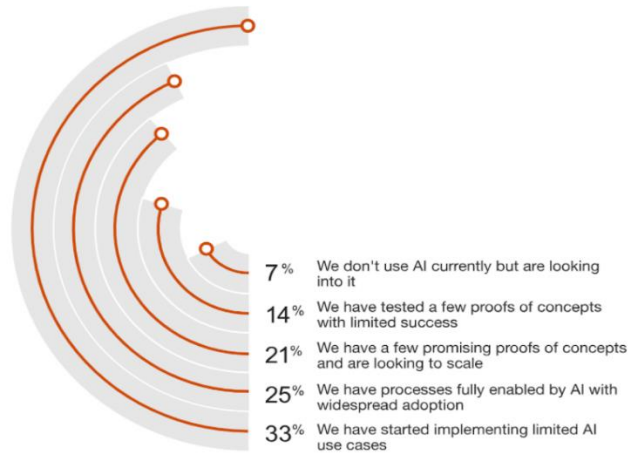
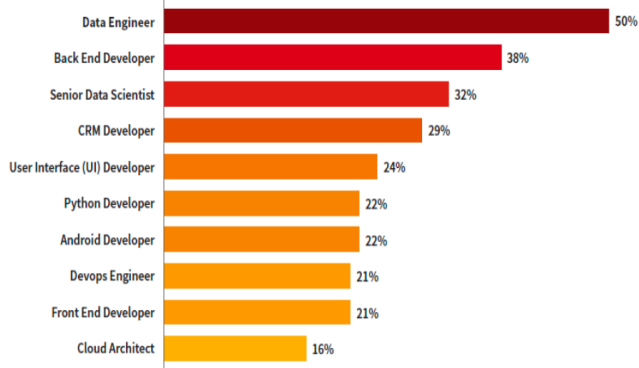
Problem Solving: AI professionals are problem solvers at heart.

Communication: The ability to explain complex concepts to non-technical stakeholders is crucial.

Collaboration: AI projects often involve multidisciplinary teams.

Adaptability: AI is a rapidly evolving field; being able to learn and adapt is key.

FASTEST GROWING TECH OCCUPATIONS YEAR-OVER-YEAR GROWTH



-KRUTHIKA K S AND NEETHU
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Generative AI: The voice of intelligent systems

Generative AI is a branch of artificial intelligence that deals with the creation of new data, such as text, images, music, and code. Generative AI models are trained on large datasets of existing data, and they learn to identify the patterns and relationships in the data. Once trained, these models can be used to generate new data that is similar to the training data, but also novel and creative.

How does Generative AI work?

There are many different types of generative AI models, but they all work on the basic principle of learning the underlying distribution of the data. Once the model has learned the distribution, it can be used to generate new data samples that are drawn from the same distribution.

One common type of generative AI model is the **variational autoencoder (VAE)**. VAEs consist of two neural networks: an encoder and a decoder. The encoder compresses the input data into a latent space representation, and the decoder reconstructs the input data from the latent space representation. By minimizing the reconstruction error, the VAE learns the distribution of the input data. Once trained, the VAE can be used to generate new data samples by sampling from the latent space and decoding the latent space representation.

Another common type of generative AI model is the **generative adversarial network (GAN)**. GANs consist of two neural networks: a generator and a discriminator. The generator creates new data samples, and the discriminator tries to distinguish between real and generated data samples. The generator and discriminator are trained adversarially, meaning that they are trained against each other. This adversarial training process forces the generator to produce increasingly realistic data samples, and the discriminator to become better at distinguishing between real and generated data samples.

Generative AI has a wide range of applications, including:

- **Image generation:** Generative AI models can be used to generate realistic images, such as photos of human faces, landscapes, and objects.
- **Text generation:** Generative AI models can be used to generate realistic text, such as news articles, poems, and code.
- **Music generation:** Generative AI models can be used to generate realistic music, such as melodies, harmonies, and rhythms.
- **Data augmentation:** Generative AI models can be used to generate new data samples to augment existing datasets. This can be useful for training machine learning models on small or imbalanced datasets.

Generative AI is a rapidly developing field with a wide range of potential applications. Generative AI models can be used to create new data, such as text, images, music, and code, that is both realistic and novel.

One of the most exciting aspects of generative AI is its potential to be used to solve real-world problems. For example, generative AI models can be used to generate synthetic medical images for training medical imaging models. This can help to improve the accuracy of medical imaging systems and make them more accessible to people in underserved areas. Generative AI models can also be used to generate new drug candidates for testing and to develop new materials with improved properties.

However, there are still some challenges that need to be addressed before generative AI can be widely adopted. One challenge is training models to generate high-quality and realistic data. This is especially difficult for complex data types, such as images and music. Another challenge is training models to generate data that is both realistic and novel.

SAMEER PHANIRAJ KUMBLE
DHEERAJ N KASHYAP

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My Comrade

In bonds of friendship, deep and ever strong,
My friend, my brother, comrade true and dear,
A beacon of light when days seem so long,
Through joys and trials, always drawing near.

In laughter shared, our spirits intertwined,
The moments treasured, memories we hold,
Through every storm, your presence, gold refined,
A steadfast heart, a love that can't be sold.

For you, my comrade, ever by my side,
The battles fought, both far and close at hand,
Your courage shines, a beacon in the tide,
Together we endure, united, we stand.

No words can truly capture all you are,
The best man I know, shining like a star.

- a good friend

Sleepless nights, Starry dreams...

In the realm of sleepless nights,
Where shadows dance in pale moonlight,
I wander through the silent hours,
Lost amidst my thoughts' vast towers.

Beneath the tapestry of endless skies,
Where stars like diamonds softly rise,
I chase elusive dreams that gleam,
With every breath, a cosmic theme.

My weary eyes refuse to close,
As insomnia its grip bestows,
But in this wakeful solitude,
A realm of wonder is imbued.

The universe, a boundless sea,
Unfolds its secrets just for me,
Each twinkling star a guiding light,
Igniting passions in the night.

Within this realm of solitude,
I find a peace that's absolute,
For in the darkness, dreams take flight,
And paint the canvas of the night.

- a good friend



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2nd Semester
Department of AI&ML

कितनी जल्दी

कितनी जल्दी बड़े हो गए ना हम?
जो कभी छोटी छोटी चोट पर रोते थे,
आज गहरे घाव में भी चुप रह गए।

जिन्हे कभी ठहरना नहीं होता था,
आज कल दो पल रुकने की सोचते है।
जो दोपहर की नींद बेकार सी लगती थी,
आज बड़ा तड़पाती है।

लोग कहते है,
जो खत्म हो जाए,
वो तारों में बस जाते हैं
आज समझ आया की वो नहीं,
बल्कि उनकी कुछ अच्छी अच्छी यादें
हमारी ज़िन्दगी में तारों सी चमकती है।

बड़े होकर समझ आ रहा है,
कि हर बार हम सबको पसंद हो, वो ज़रूरी नहीं
कि हम सब के लिए ज़रूरी है, वो अनिवार्य नहीं
कि हम सब को अच्छे ही लगे, वो ज़रूरी नहीं।

कितनी जल्दी बड़े हो गए ना हम?
जो कभी छोटी छोटी चोट पर रोते थे,
आज गहरे घाव में भी चुप रह गए

पापा

पापा बहुत थक गई हूँ मैं,
आकर एक बार गले लगा लो ना,
एक बार उन नारीफों से मेरे कान भर दो ना।
आकर थोड़ी डाँट लगाओ ना,
लंबा भाषण सुनाओ ना, बात करो ना
पक्का मैं पल्के नहीं झपकाऊँगी,
एक बार आओ और बात करके,
मुझे उस हिम्मत से भर दो ना
आपकी छोटी सी शेरनी थक चुकी है
दुनिया से लड़ते-लड़ते....



Diya K Bhat
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Rhythm of courtesy!

Do you remember the night
While we were gazing over sky,
No, it was you finding
Pretty things in sky,
While I had found it beside me.
while my eyes submerged into you
For a pity human
The best thing that could ever happen.

Even those distant stars over horizon
used to fall for your beauty,
i was still beside you..
Even moon was ordinary,
you being one in billion.

And what for those jewels Of Queen's
could compete with you anklets.
While you dancing along rhythm
Rhythm of my heartbeat...

ಕವಿಯ ಕವಿತೆ

ಪದಪದಗಳನ್ನು ಎಳೆದು ಸೆಳೆದು ಕಟ್ಟಿ,
ಹೂ ಮಾಲೆಯಂತೆ ಇರಿಸಿ, ಘಮ ಘಮದ ಸುಧೆಯ ಅಕ್ಷರದಿ ಅಂಟು ಹಾಕಿ,
ಪ್ರತಿ ಸಲ ಸವಿಯುತ, ಅದರಲಿ ಸೋತು ಬೆರೆತು ಒಂದಾಗಿ,
ಕವಿತೆಯಂತ ಮೆಳೆಗೆ ಸಿಲುಕಿ ನೆಂದು ನೊಂದು, ಜಲಪಾತದಿಂ ಹರಿದ ಹನಿಗಳ ನೆನಪ ಒಯ್ಯು,
ಪಾತಾಳ ಸ್ವರ್ಗ ಸುಖವ ಸೇರಿ,
ಭುವಿಯ ಸಿರಿ ಕಲೆಯಬುನಾದಿ
' ಕವಿ ಕವಿ '

ಕವಿಯ ಮನದಾಳದ ಚಿಂತನದಿ
ಹುಟ್ಟಿ, ನವರಸಗಳೆಂಬ ಭಾವ ಜೇನ ಸವಿದು,
ಕವಿಯ ಶೋಕ ಸುಖ ಸಂಪತನ್ನೆಲ್ಲ ವ್ಯಾಕರಣದಿ ಬೆರೆಸಿ, ಅಕ್ಷರಗಳೆಂಬ ಮಾಣಿಕ್ಯದಿ ಪೋಣಿಸಿ,
ಕವಿಯ ಕೊನೆಯ ಮಾತೆಂಬ
ಚಂದನದಿ ಕೌಶಲ್ಯವ ಪದಗಳಿಗೆ ಅಂದದಿ ಅಲಂಕರಿಸಿ,
ಕವಿಯ ಎದೆಯ ಬಡಿತದ ಪ್ರತಿ ಸದ್ದಿಗೆ,
ನರ್ತಿಸುವ ಆತನ ಉಸಿರೆ ಕವಿತೆ,

Harith C M
4th Semester
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ಸುಖದಿ ಬಾಳು

ಜೇನುತುಪ್ಪ ಕುಡಿದು ಕರಡಿ
ಅದರ ರಕ್ತ ಶುದ್ಧಿಯಾಯಿತು

ಗಜರಿಗೆಡ್ಡೆ ತಿಂದ ಮೊಲ
ಅದರ ಕಣ್ಣು ಚುರುಕು ಆಯಿತು

ಕಾಳು ಕಡಲೆ ತಿಂದು ನಾಯಿ
ಅದರ ಬುದ್ಧಿ ಬೆಳೆಯಿತು

ಸೊಪ್ಪು ಸದೆಯ ತಿಂದ ಜಿಂಕೆ
ಅದರ ಮೂಳೆ ಗಟ್ಟಿಯಾಯಿತು

ಜೇನುತುಪ್ಪ ಗಜರಿ ಗೆಡ್ಡೆ ಕಾಳು ಕಡಲೆ
ಸೊಪ್ಪು ತಿಂದು ಎಲ್ಲವು ಗಟ್ಟಿಯಾದವು

ಅದರ ಹಾಗೆ ನೀನು ತಿನ್ನಲು
ನಿನ್ನ ದೇಹವು ಪುಷ್ಟಿಯಾಗಿ ಬೆಳೆವುದು

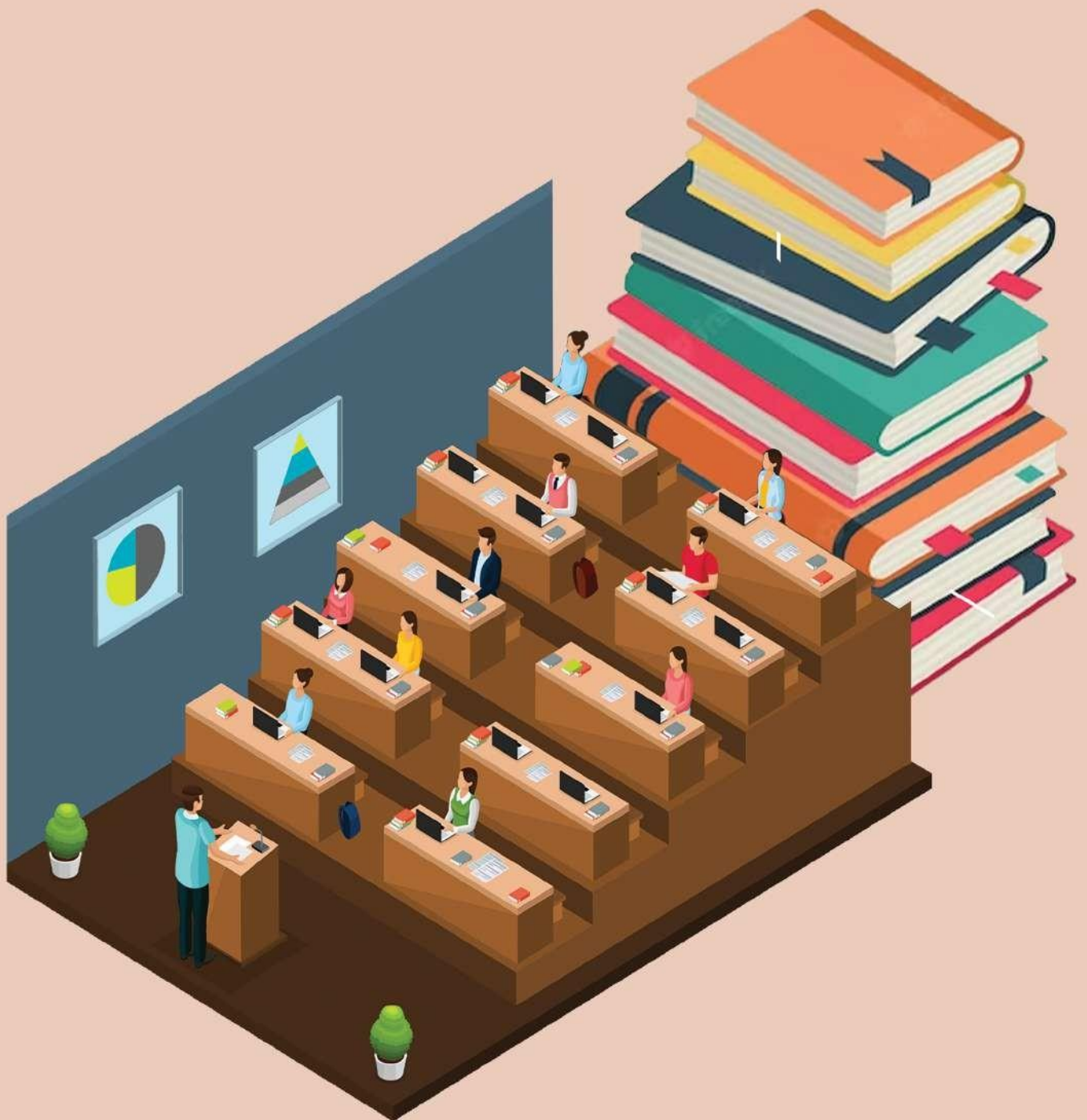


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ನಿಖಿತಾ. ಎ

FACULTY ARTICLES

"From Lecture Halls to Magazine Pages: Our Professors Speak."







Mrs. Anupama V P
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Quantum Computing: The Power of the Quantum World

Quantum computing is a new type of computing that harnesses the power of quantum mechanics to solve problems that are unknown or too complex for classical computers. Classical computers use bits, which can be either 0 or 1. Quantum computers use qubits, which can be 0, 1, or both at the same time. This is called *superposition*.

Another important discovery of the quantum effect is *entanglement*. This is when two qubits are linked together in such a way that they share the same fate, even if they are physically separated.

Imagine you have two magic coins. You put one coin in your pocket and give the other coin to your friend. You and your friend then go to different rooms. Now, you both flip your coins at the same time. The coins are superposed before you look at the results. Flipping one coin will influence the other coin and both coins may end up showing the same outcome.

Now, imagine that you and your friend entangle the coins. This means that you link them together in such a way that their superpositions are shared. If you look at the result of your coin, you will instantly know the result of your friend's coin, even if they haven't looked at it yet.

This is a very strange and mysterious phenomenon, but it is a real one. Quantum entanglement is a key ingredient in quantum computing, and it has the potential to revolutionize many fields due to their unique capabilities:

Speed: Quantum computers can solve certain problems exponentially faster than classical computers. This is particularly promising for tasks like factoring large numbers (important for encryption) and simulating quantum systems (useful in chemistry and materials science).

Optimization: Quantum computers excel at optimization problems. They can find the best solutions among a vast number of possibilities, which is valuable in fields such as logistics, finance, and drug discovery.

Secure Communication: Quantum encryption, often referred to as quantum key



distribution (QKD), promises unbreakable security for transmitting sensitive information. It relies on the fundamental principles of quantum mechanics to ensure data privacy.

Artificial Intelligence: Quantum computing can enhance machine learning algorithms, making them more efficient and capable of tackling complex problems.

Applications of Quantum Computing

Cryptography: Quantum computers threaten classical encryption methods. Research in post-quantum cryptography aims to develop secure alternatives.

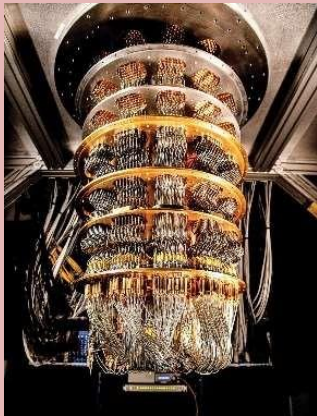
Drug Discovery: Quantum computing can simulate molecular interactions, accelerating drug discovery and development.

Financial Modeling: Quantum computing can optimize portfolios and predict market trends, benefiting the finance industry.

Material Science: Quantum simulations enable the discovery of new materials with unique properties, revolutionizing industries like electronics and energy storage.

Climate Modeling: Quantum computers can model complex climate systems with higher accuracy, aiding in climate change mitigation efforts.

Although quantum computing may appear complicated, at its core, it is a novel approach to carrying out calculations. Quantum computers can solve issues that were previously thought to be insoluble by taking advantage of the peculiar aspects of quantum physics. Although there are obstacles to be addressed, the future of quantum computing holds promise in industries like medicine research and cryptography. It's fascinating to see how this technology develops because of the potential significance of its effects on our planet.



Mrs. Ramya B N
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TRY YOUR BEST

If you always try your best
To overcome all life's test
Then you'll never have to wonder
All life's storm and thunder,
Try to be your best
Let your „good“ be „better“
And „better; be the „best“
We cannot be always right
But we have the future bright
If you can't achieve now
Think of all the why's and how's
Tomorrow will be better
And the day after, the best
But try, try and try
To be at your best.

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ENGINEERING MASTERS IN USA: PROS & CONS

Pursuing a Master's degree in engineering in the United States has become a beacon of aspiration for engineering enthusiasts worldwide. With its world-renowned institutions, state-of-the-art research facilities, and vast opportunities for specialization, the USA offers a promising platform for those seeking to advance their engineering careers. This article takes a close look at the advantages and challenges of embarking on an Engineering Master's journey in the USA.

Pros of Pursuing an Engineering Master's in USA:

US universities' engineering programs are synonymous with excellence. Renowned for their innovative research and rigorous academic standards, these institutions provide students with an environment conducive to mastering advanced engineering concepts. According to the "2019 Open Doors Report on International Educational Exchange," the United States hosted over 220,000 international students pursuing STEM degrees, reflecting the country's commitment to offering cutting-edge education in science, technology, engineering, and mathematics. Moreover, the access to cutting-edge laboratories, renowned faculty, and industry collaborations offers an unparalleled learning experience. Anjali Patel, who pursued her Master's in Mechanical Engineering at the University of Michigan, shares her insight: "The exposure to industry-aligned projects and hands-on research gave me insights into real-world engineering challenges. Collaborating with classmates from diverse backgrounds broadened my perspective and enhanced my problem-solving skills."

Cons of Pursuing an Engineering Master's in the USA:

While the rewards are substantial, the journey is not without challenges. One primary concern is the financial aspect. Tuition fees and living expenses can place a significant burden on international students. According to the Institute of International Education's "Project Atlas," the average annual cost for international students pursuing engineering Master's programs can range from \$20,000 to \$40,000, varying by location and institution.

The rigorous academic environment can be demanding, often requiring students to juggle coursework, projects, and research commitments. Cultural adaptation and work-life balance can also pose challenges. Rahul Kapoor, an Electrical Engineering graduate from Purdue University, offers insight into his experience: "Managing a rigorous academic schedule alongside part-time jobs and cultural adaptation was initially overwhelming. However, the resilience I developed during this journey has been invaluable in my career."



Financial Considerations

To navigate the financial challenges, prospective students should explore various funding options. Scholarships, research assistantships, and on-campus job opportunities can help alleviate financial stress. Meticulous financial planning is vital to ensure a smooth academic journey.

Academic Rigor and Industry Exposure

The academic rigor of US engineering programs is a double-edged sword. While demanding, it equips students with invaluable skills, preparing them for real-world engineering challenges. The USA's robust industry ties provide opportunities for internships and co-op experiences, enabling students to apply theoretical knowledge to practical scenarios.

Cultural Adaptation and Personal Growth

Adapting to a new culture is a transformative experience that fosters personal growth and intercultural competence. US universities offer comprehensive support services to aid international students in their cultural integration journey, ensuring a smooth transition.

Career Prospects and Return on Investment

The career prospects for engineering Master's graduates in the USA are promising. A US degree adds weight to one's resume, and the country's technological landscape offers a spectrum of job opportunities. According to the National Association of Colleges and Employers' "Winter 2022 Salary Survey," international students with engineering Master's degrees reported median starting salaries higher than those with Bachelor's degrees. Graduates have the option to extend their stay through the Optional Practical Training (OPT) program and the H-1B visa, potentially leading to long-term career prospects in the USA.

Conclusion:

An Engineering Master's in the USA is a voyage marked by both opportunities and challenges. The pursuit of academic excellence, exposure to cutting-edge research, and the promise of a rewarding career draw students to US universities. However, potential applicants must carefully consider the demands, financial implications, and personal goals before embarking on this transformative journey.

Mr. Akhilesh S Narayan
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MASTERS ABROAD OR PLACEMENTS?

What after Engineering for Indians?

The juncture where the pursuit of education meets the anticipation of a professional journey is a critical moment for Indian engineering graduates. The question of whether to pursue a Master's degree abroad or enter the job market directly after completing their undergraduate studies is a dilemma many face. This article aims to shed light on the considerations involved in making this decision and to provide guidance for the path forward.

Advantages of Pursuing a Master's Abroad

Opting for a Master's degree abroad offers a host of advantages. Specialized knowledge, advanced skill acquisition, and exposure to global perspectives are some of the immediate benefits. According to a survey by the Indian Graduate Outcomes Report 2021, Indian students who pursued a Master's degree abroad reported a median gross monthly salary of ₹80,000, significantly higher than those with only a Bachelor's degree.

Moreover, a Master's degree from a foreign institution can open doors to a diverse range of career options. Priya Sharma, who completed her Master's in Data Science in the United Kingdom, shares, "My Master's provided me with a strong foundation in data analytics and a network of international peers. This helped me secure a role in a multinational company back in India with a promising salary package."

Advantages of Direct Job Placements After Engineering

Entering the job market directly after completing an engineering degree also has its merits. Immediate practical experience in a professional setting allows graduates to apply their theoretical knowledge to real-world challenges. The income from a stable job provides financial security and independence. According to a survey by the All-India Council for Technical Education (AICTE), Indian engineering graduates who secured placements reported an average starting salary of ₹3.5 lakhs per annum.

Rahul Kumar, who secured a position at a leading Indian IT firm after his Bachelor's in Computer Science, reflects, "I wanted to contribute to real projects immediately. My job gave me exposure to various technologies and business environments, laying a solid foundation for my career."

Factors to Consider

Several factors play a crucial role in this decision-making process. Personal career goals and aspirations should be carefully evaluated. Consideration should also be given to the financial implications of pursuing a Master's degree abroad, including tuition fees, living expenses, and potential loan burdens. The Job Market Insights Report by LinkedIn reveals that employers in India value practical skills and experience, often considering them more important than the specific educational degree.

Making an Informed Decision

The decision to pursue a Master's degree abroad or opt for placements is a deeply individual one. Taking the time to research and understand personal preferences and aspirations is crucial. Many individuals find a middle ground by pursuing a Master's degree while working part-time, striking a balance between continuous learning and professional advancement.

Making an Informed Decision

The decision to pursue a Master's degree abroad or opt for placements is a deeply individual one. Taking the time to research and understand personal preferences and aspirations is crucial. Many individuals find a middle ground by pursuing a Master's degree while working part-time, striking a balance between in Germany. She shares, "Germany's strong emphasis on research continuous learning, and professional advancement.

Real-Life Examples

Aditi Desai, an Indian engineering graduate, chose to pursue a Master's degree in Renewable Energy and sustainable energy aligned with my passion. My international exposure broadened my horizons and helped me land a research role with an Indian government agency focused on renewable energy."

Conversely, Siddharth Rao entered the job market immediately after his engineering degree. He notes, "I believed in learning through practical experience. Starting my career early allowed me to develop a deep understanding of the industry and rapidly progress."

Conclusion

The choice between pursuing a Master's degree abroad or entering the job market directly after engineering is a pivotal one that shapes an individual's professional trajectory. Careful consideration of personal goals, financial implications, and long-term aspirations is essential. Ultimately, the decision should align with one's vision for the future and contribute to a fulfilling and successful career journey.



Mr. Akhilesh S Narayan
Asst. Professor
Dept. of CSE

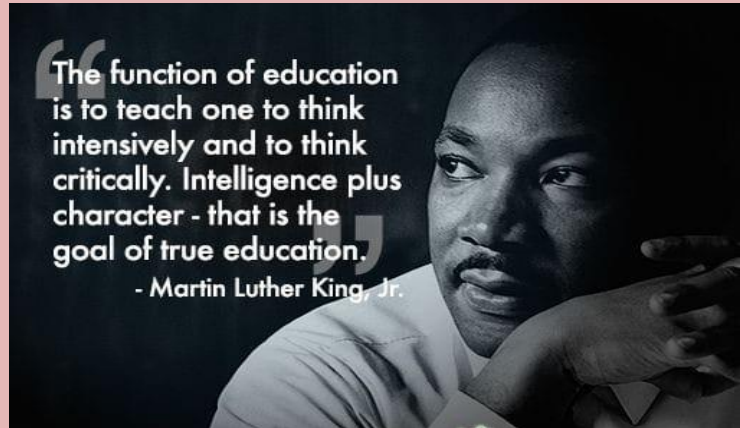
Technical Institutions and their Educational Systems

The educational system in the various technologies of engineering, instrumentation, computer engineering science, etc. is aiming to instill changes for the past few years with the groundwork preparation remaining in duck or not on par with the times. The primary education itself has not seen the right kind of inputs to suit the contemporary times of knowledge to take the students to different states with the federal system of constitution in discrimination against the respective States.

Even in recent times, there are cries of language enforcement in the technical institutes trying to persecute the others in turn leading to linguistic animosity amongst them and such attempts have become a routine of affairs. The educational system should see the amendment with the current relevance in entirety to the vast majority of the youths that the country comprising more of the global youth community capable of contributing more of varied interests.

The right kind of syllabus or knowledge if allowed to prosper with the freedom of the experts' subjective cognizance to develop the syllabi the scope of system will see a sea of change to better its scope. The students would like to contribute with the expert guidelines leading to explore many avenues of knowledge. The encouragement on these lines naturally rises the overall system development of varied skills, training, etc preparing them to help in the process of business thriving activities and in turn economy of the country.

The infrastructure of the technological institutes along with the expert deliberations have to be taken on a sustainable development manner. The engineering institutions when referred specifically have been able to impress the students input flawlessly because of its impressive infrastructure and hope of faculties and syllabi on par with student exploratory skills, knowledge of studies, etc.



On another side of technological institutions, are seen as materialistic, with the real-time data drawing flak of requirements of the industry and commercial economic interests view of global countries as they have to be considered to forge ahead to fit aptly.

To quote from the Call to Action of the report of the NRC's Board of Engineering Education "It is essential for each engineering institution to update itself within the context of an institutionally shared vision of the overall system and its goals—a concept best expressed by the phrase, think globally, act locally,"

Usha S
Dept. of Humanities
(English)



BRIDGE THE GAP BETWEEN INDUSTRY AND ACADEMIA

With a growing economy, India is also witnessing the growth of the education sector. However, the Indian industry is not so convinced about the job readiness of the graduates. There is an urgent need for Indian Industries and Academia to come together and address some of the underlying challenges.

One of the approaches to tackle the problem of lacking skill and job readiness is partnerships between the industry and academia. Jyothy Institute of Technology has adopted the process of industry interaction effectively by introducing Coursera for Campus Programme, Amazon Web Services (AWS) Academy, RedHat Academy, and many more.

Apart from only focusing on the curriculum structure, it is also imperative to provide the right exposure and training to the students. It is required to regularly undertake short industrial projects in collaboration with industry experts. This will help ensure that the students are in line with the current industrial trends.

Through Jyothy Institute of Technology - Coursera for Campus Programme 800+ students benefitted and completed 1000+ certification courses to date. Through AWS Academy 400+ students across the departments have completed various cloud computing courses. Redhat training is facilitated to around 170+ students. All these trainings are offered free of cost and certifications are 50% discounted for JIT Students. When the students clear the exam, the certification amount will be reimbursed, which is a great initiative by the Jyothy Institute of Technology management.

Dr. Manoj Kumar M
Associate Professor
Department of CSE



From Pixels to Palette:

Chronicles of the Canvas, Strokes of
Emotion, Colors of Expression.





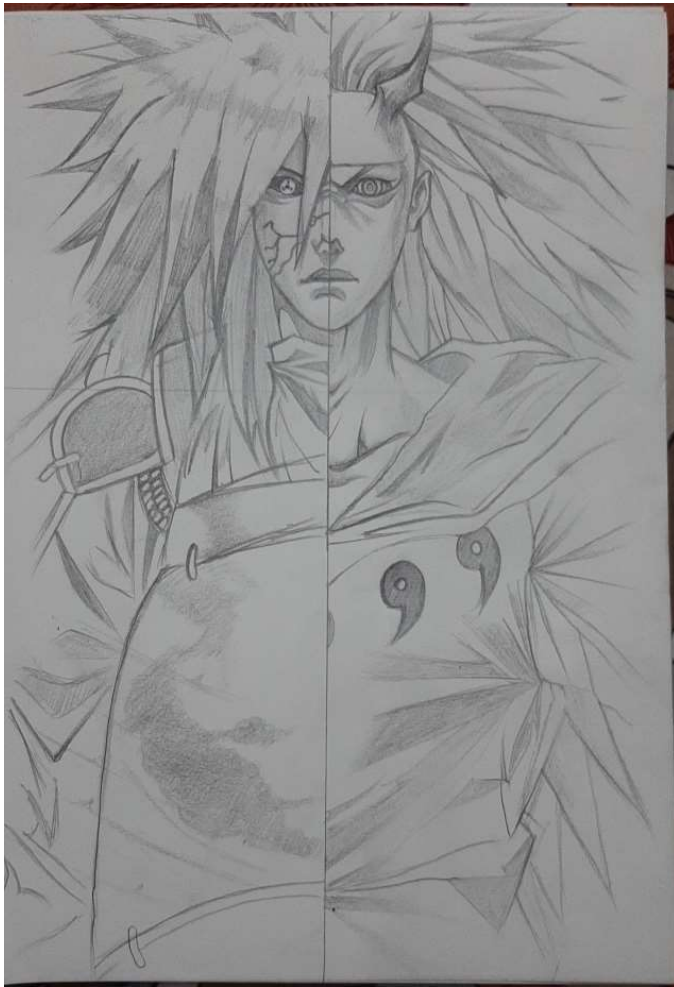
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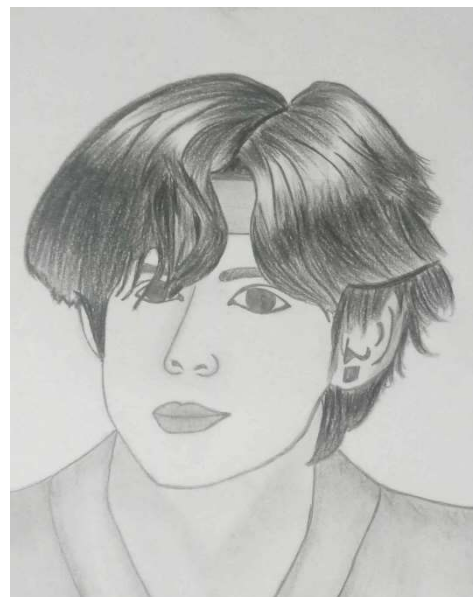




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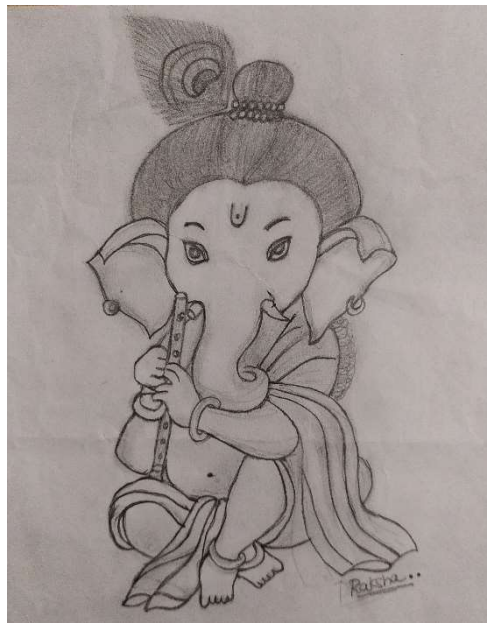
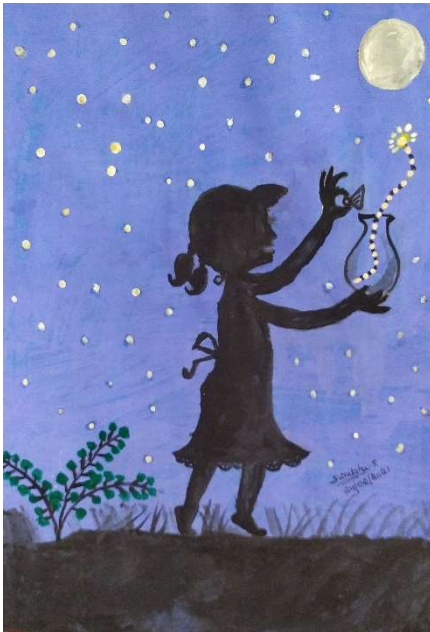
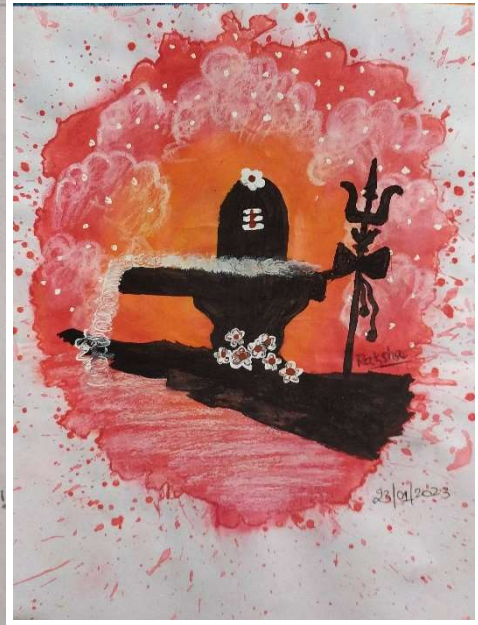


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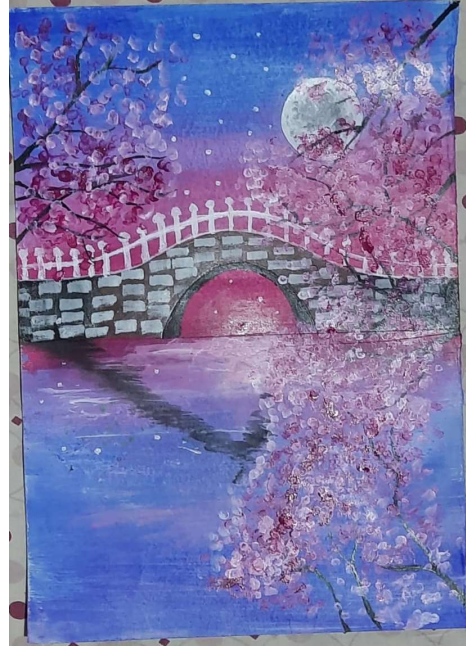




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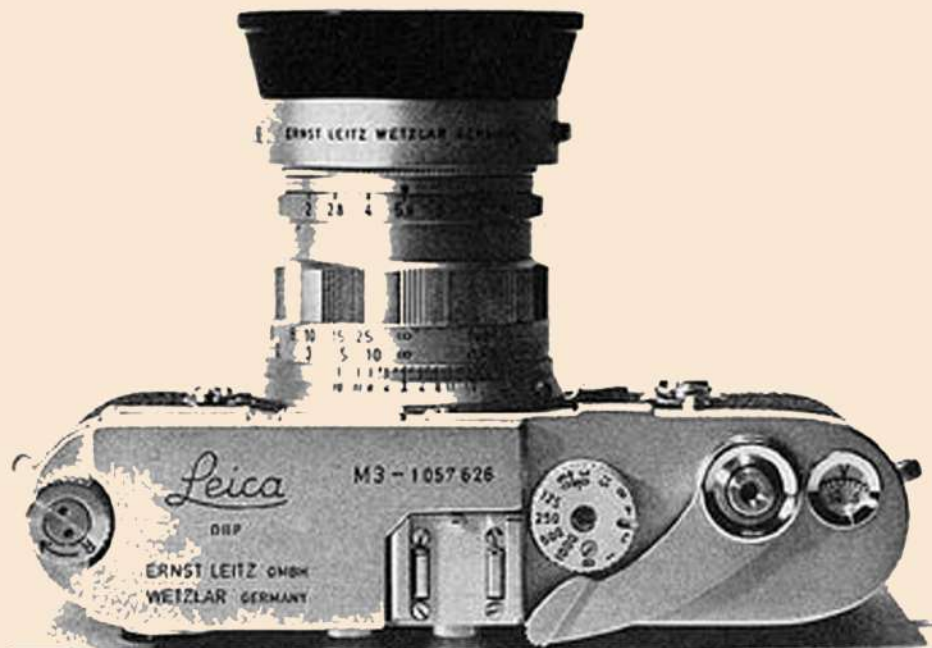


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Shreesha G Shetty



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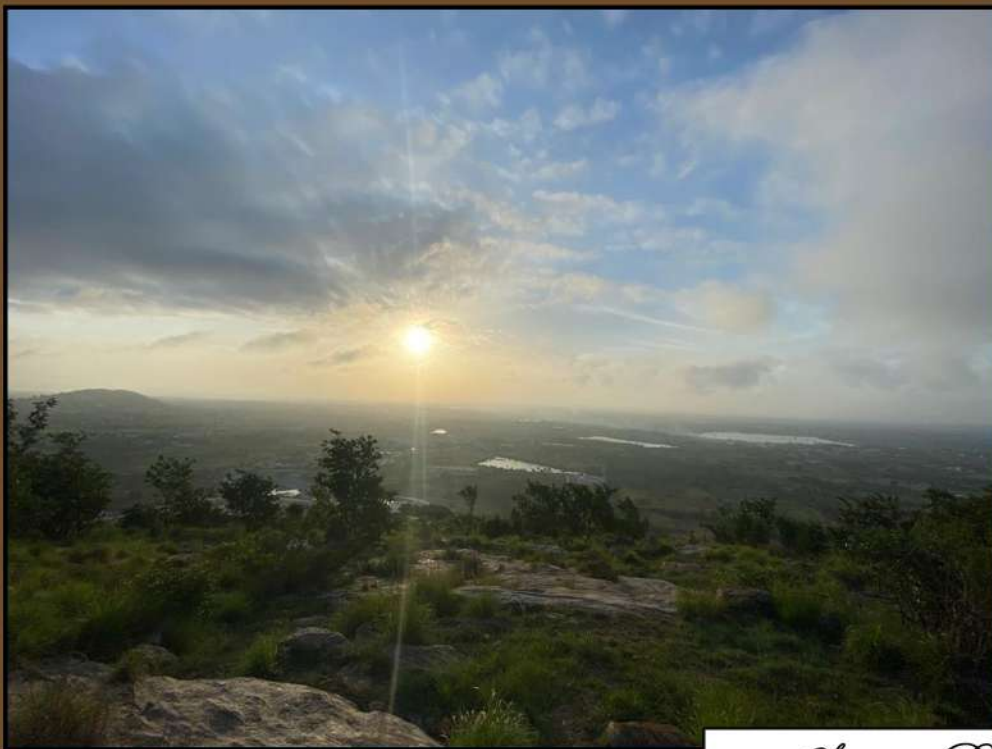
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Harsha S



Sinchana L



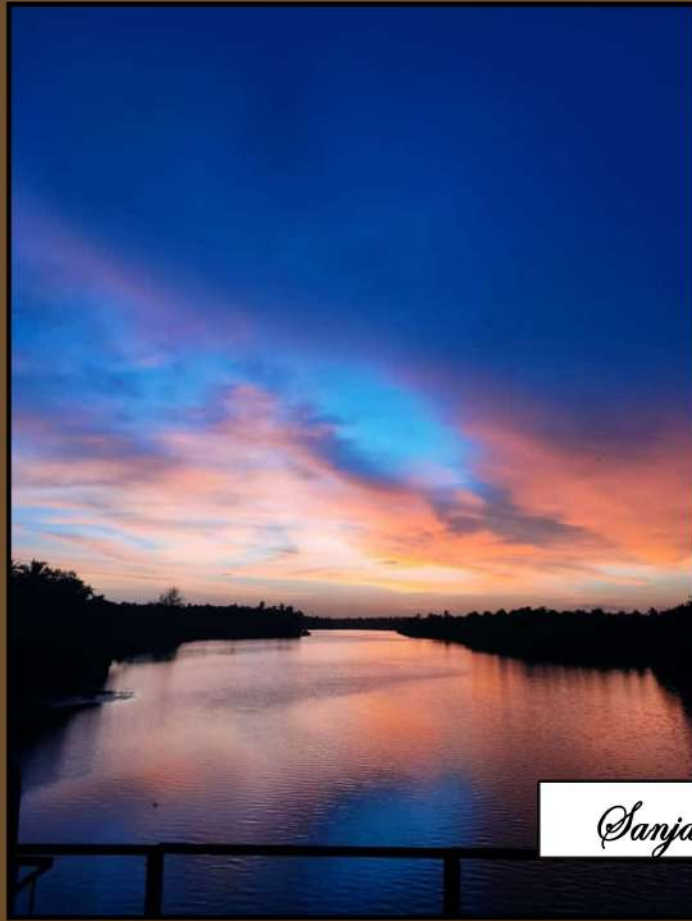
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