



**Dr. AMBEDKAR
INSTITUTE OF TECHNOLOGY**

An Autonomous Institute Under VTU,
Aided By Government of Karnataka

People
Ideas
Technology
A Brighter Tomorrow

PRAJNA

DR AIT'S E-NEWS LETTER

IDEAS | INNOVATION | IMPACT



APRIL - JUNE

2026

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DR. AMBEDKAR INSTITUTE OF TECHNOLOGY
OUTER RING ROAD, MALLATHAHALLI, BENGALURU - 560056

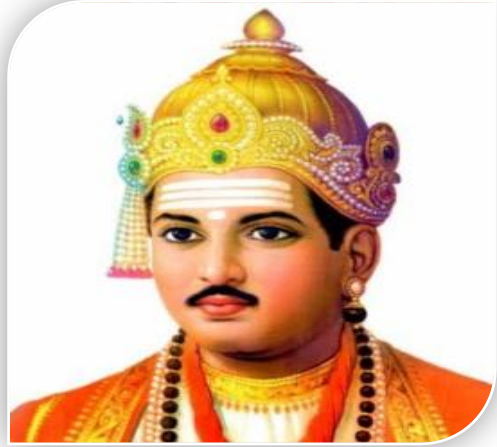
 www.dr.ait.edu.in

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Our Inspiration



BUDDHA



BASAVANNA



DR. B. R. AMBEDKAR



**LATE SRI M. H. JAYAPRAKASH
NARAYAN**



“Every institution carries a story written not only in its history, but in the aspirations of its students, the dedication of its faculty, the commitment of its staff, and the vision of those who guide it. As we continue our journey, may every idea inspire innovation, every challenge create strength, and every achievement remind us that together, we are shaping a future beyond ourselves.”

--Dr AIT



Visionaries Of Panchajanya Vidya Peetha Welfare Trust



Dr. S. Mariswamy, I.P.S
The Honorable Chairman, PVP
Welfare Trust, Former Director
General of Police, Govt. of
Karnataka, Bengaluru



Dr. M. Mahadeva,
Ph.D
The Honourable Managing
Trustee/Secretar, PVP Welfare
Trus, Former Professor, ISEC
Former Chairman I/C, KPSC,
Goverment of Karnataka



Sri. A.R. Krishnamurthy,
B.A., P.G. Diploma in Journalism,
The Honourable Treasurer, PVP
Welfare Trust, MLA, Kollegal Con-
stituency, Welfare Trust, MLA,
Kollegal Costuency, Former Chair-
man, Dr. Ambedkar Development
Corporation, Bengaluru



Sri S. Shivamallu,
B.E., F.I.E
The Honourable Trustee, PVP
Welfare Trust, Director :
Transmission(Retd.) KPTCL,
Govt. of Karnataka, Bengaluru



Dr. B.N. Umesh,
B.E., M.Tech., Ph.D(Comp.Sc)
The Honourable Trustee, PVP
Welfare Trust, Member-
Academic Council(Govt. Nom-
inee), Bangalore Central Uni-

DEAN's



Dr. C. R. Mahesha
Dean In Charge (Academics)



Dr. T. N. Raju,
M.Tech, Ph.D
Dean (Examination) Professor,
Mechanical Engineering



Dr. Shylaja K R
Dean (Research & Development) Professor, Computer
Science & Engineering



Dr. L. Manjunatha Rao,
MBA, MCA, Ph.D
Dean (Planning & Development)
Professor, Master of Computer
Applications



Dr. Prerana Chaithra
Dean (Industry Connect &
Foreign Affairs)
Professor, Information Science
& Engineering



Dr. R. Murali
Dean (First Year)

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**Mr. S. H. Santosh
Kumar,**
K. C. S
Administrator



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B P**
Manager – Public Relations &
Events



Mr. Kantharaju
Manager- Estate and Facilities



Mrs. Pavithra A
Manager – HR & Student
Affairs



Mrs. Renu R
Manager – Finance & Procure-
ment

Head of Schools



Dr. S. Kavitha
School of Core Engineering &
Technology



Dr. H. V. Govindaraju
School of Electrical, Electronics
Sciences & Engineering



Dr. GowriShankar S
School of Computer Science &
Engineering



Dr. Jambunath S Baligar
School of Applied Science & Hu-
manities



Dr. Bhaskaran
School of Commerce &
Management



FROM PRINCIPAL'S DESK...

It gives me immense pleasure to connect with all our stakeholders through this edition of the e-newsletter PRAGNA of Dr. Ambedkar Institute of Technology. This platform reflects the vibrant academic environment, innovative initiatives, and the remarkable achievements of our students, faculty, and staff.

At Dr. AIT, we remain committed to fostering excellence in education by blending strong academic foundations with practical exposure, research, and industry collaboration. Our focus continues to be on nurturing responsible, skilled, and socially conscious engineers who are well-equipped to meet global challenges.

I am proud to note the consistent efforts of our students in academics, co-curricular, and extracurricular activities. Their achievements, along with the dedication of our faculty, are a testament to the institute's pursuit of quality and holistic development.

As we move forward, we will continue to strengthen our academic processes, enhance infrastructure, and build meaningful partnerships that contribute to the growth of our institution and society at large.

I congratulate the editorial team for bringing out this newsletter and encourage all readers to actively engage with and contribute to this platform.

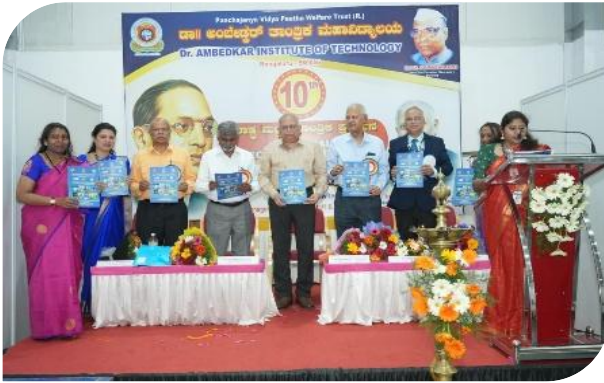
Wishing you all success and continued progress.

Prof. Mahalinga V Mandi

Principal

Dr. Ambedkar Institute of Technology

10TH TECHNO EXHIBITION & DR. AMBEDKAR BIRTH DAY CELEBRATION ON APRIL 13 & 14, 2026.



Dr. Ambedkar Institute of Technology, Bengaluru, commemorated the birth anniversary of **Dr. B. R. Ambedkar** with a two-day celebration held on **April 13 and 14, 2026**, featuring a vibrant **Techno Exhibition** that brought together innovation, creativity, and the spirit of learning.

The 2026 edition received **more than 500 innovative project submissions**, of which **93 projects were shortlisted** for exhibition and demonstration at the Dr. AIT campus. With a total **prize amount of ₹2,00,000**, the exhibition encouraged students to transform their technical knowledge into practical and innovative solutions.

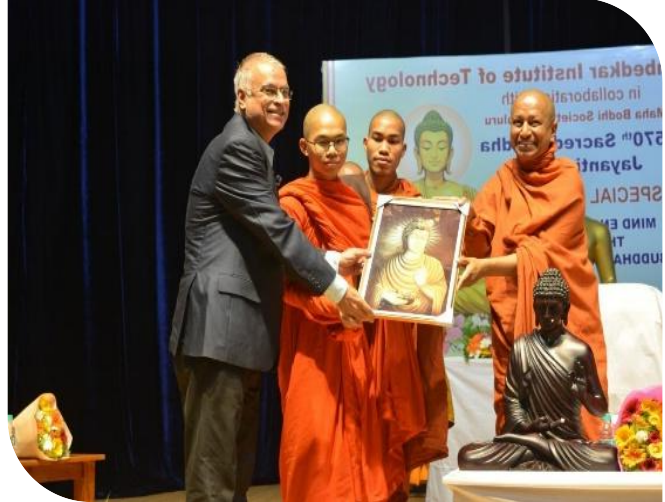
The shortlisted projects represented institutions from across the country, including **Dr. AIT and other institutions in Karnataka, Tamil Nadu, Telangana, Maharashtra, and Polytechnic institutions**. The exhibition thus brought together a diverse range of student innovations and provided opportunities for technical knowledge sharing.

The **National Techno Exhibition** serves as a window into emerging technologies and encourages **research, development, innovation, and knowledge transfer**. It gives students an opportunity to demonstrate their learning, creativity, technical aptitude, and ability to address **industry-defined and user-defined problems** through practical solutions.

BY THE NUMBERS

500+ Project Submissions | 93 Projects Shortlisted | ₹2 Lakh Prize Pool | National-Level Participation

BAGAVAN BUDDA JAYANTHI – APRIL 27, 2026



Dr.

Dr Ambedkar Institute of Technology observed **Bhagavan Buddha Jayanthi** on **April 27, 2026**, commemorating the birth, enlightenment, and teachings of **Lord Buddha**.

The occasion served as a reminder of Buddha's timeless values of **peace, compassion, wisdom, equality, and non-violence**. His teachings continue to inspire individuals to pursue a life guided by mindfulness, kindness, and harmony.

The celebration reflected the institution's commitment to promoting **ethical values, social responsibility, inner growth, and peaceful coexistence** among its students and the wider campus community.

The teachings of Bhagavan Buddha remind us that true progress begins within. When knowledge is guided by compassion, wisdom, and peace, it becomes a force for creating a better and more harmonious society.

A PROUD MILESTONE IN PUBLIC SERVICE AND EDUCATIONAL LEADERSHIP

Honorary Doctorate Conferred upon Honourable Chairman Dr. S. Mariswamy, IPS (Retd.)

Recognised by Nrupathunga University, Bengaluru, for Outstanding Contributions to Social Service



BENGALURU, 2 JUNE 2026 - Nrupathunga University, Bengaluru, conferred an Honorary Doctorate upon Sri S. Mariswamy, IPS (Retd.), Honourable Chairman of the Panchajanya Vidya Peetha Welfare Trust and former Director General of Police, Government of Karnataka. The distinction recognises his outstanding contributions to social service and marks a significant milestone in a life devoted to public administration, institutional leadership and social advancement.

Dr. Ambedkar Institute of Technology proudly congratulates **Dr. S. Mariswamy, IPS (Retd.)**, Honourable Chairman of the Panchajanya Vidya Peetha Welfare Trust, on being conferred an **Honorary Doctorate** by **Nrupathunga University, Bengaluru**, in recognition of his outstanding contributions to public service, education, and social development.

The honour was presented during the **2nd & 3rd Annual Convocation** held on **2nd June 2026**, celebrating his distinguished career as the former Director General of Police, Government of Karnataka, and his continued leadership in advancing educational excellence through the Panchajanya Vidya Peetha Welfare Trust.

This prestigious recognition is a proud moment for the entire Dr. AIT community and reflects the institution's commitment to leadership, service, and nation-building.



DR. AIT HOSTS FELICITATION AND BOOK RELEASE CEREMONY



Dr. Ambedkar Institute of Technology (Dr. AIT), Bengaluru, organized a **Felicitation and Book Release Ceremony** at the JPN Auditorium, bringing together eminent academicians, administrators, and distinguished guests.

The highlight of the event was the felicitation of **Dr. S. Mariswamy, IPS (Retd.)**, Chairman of the **Panchajanya Vidya Peetha Welfare Trust** and former Director General of Police, Government of Karnataka, in recognition of his exemplary public service and on the occasion of being conferred an **Honorary Doctorate** by Nrupathunga University, Bengaluru. In his address, Dr. Mariswamy emphasized the importance of professional competence, integrity, and meaningful social relationships in achieving success.

The event also featured the release of the book ***Human Settlement Issues and Development in India***, authored by **Prof. M. Mahadeva**, Secretary of PVP Welfare Trust and former Member of KPSC.

The programme was graced by **Prof. Hampa Nagarajaiah** as the Chief Guest, with **Prof. R. S. Deshpande** presiding over the function. **Prof. Mahalinga V. Mandi**, Principal of Dr. AIT, welcomed the gathering, and the programme concluded with a vote of thanks by **Prof. Najundaswamy C. N.**

The event reflected Dr. AIT's continued commitment to **academic excellence, leadership, social responsibility, and nation building.**

When knowledge is shared and ideas are celebrated, learning becomes a lasting legacy. The felicitation honours a life of service, while the release of a new book opens doors to fresh ideas, deeper understanding, and meaningful change.

CAPACITY BUILDING TRAINING FOR THE ADMINISTRATIVE TEAM – June 19 & 20, 2026



Dr. Ambedkar Institute of Technology organized a **two-day Capacity Building and Administrative Training Programme** for its non-teaching administrative staff at **Spoorthidham Campus** on **19 and 20 June 2026**. The programme was designed to enhance professional skills, strengthen teamwork, and promote organizational excellence in a focused learning environment.

The training was led by **Mr. Santhosh Kumar**, Administrator, with valuable sessions conducted by **Mr. Kishore**, HR Manager, and **Ms. Akshitha** from NIMHANS. A total of **43 administrative staff members** participated in the programme.

The sessions covered essential topics including **teamwork, communication skills, office documentation, interpersonal skills, customer relations, SWOT analysis, discipline, and time management**.

The programme was inaugurated by **Dr. M. Mahadeva**, Managing Trustee, who emphasized the importance of human capital development in achieving the institution's vision of attaining university status by **2030**. **Prof. Mahalinga V. Mandi**, Principal, encouraged participants to focus on accountability and customer-centric service.

The programme concluded with a valedictory session led by **Mr. A. R. Krishna Murthy**, Trustee & Treasurer, who encouraged participants to implement the knowledge gained in their professional responsibilities. The training also included **yoga, meditation, bonfire activities, and team-building exercises**, making it a unique learning and development experience.



**Best Staff / Branding Exercise/
HR DAY Celebrations – May 20, 2026**



**WELCOMING NEW STAFF FOR
JUNE MONTH 2026**



**STAFF RETAIRMENT / SEND
OFF CELEBRATIONS – JUNE**



**MONTHLY STAFF BIRTHDAY
CELEBRATIONS**



**Three Vending Machines
Formal Inaugurated at Dr. AIT
campus**



**BODHI VRUKSHA – 2ND YEAR
MEMORY CELEBRATIONS**

SPORTS



PVP SCHOOLS VISIT – June 10, 2026 & PVP SCHOOLS / RAJAJINAGAR VISIT – June 25, 2026



CAMPUS INTERVIEWS FOR ITI STUDENTS BY HIMALAYA WELNESS COMPANY, BANGALORE Jun 16, 2026



Principal and PR Manager visited NCC CAMP at BGS School campus



WORLD ENVIRONMENT DAY CELEBRATIONS JUNE 5, 2026



APPRECIATION FOR SUCCESS OF 10th NATIONAL TECHNO-EXHIBITION



SCHOOLS & DEPARTMENTS

01

SCHOOL OF CORE ENGINEERING & TECHNOLOGY

- B.E. in Aeronautical Engineering
- B.E. in Mechanical Engineering
- B.E. in Civil Engineering
- B.E. in Industrial Engineering and Management
- M.Tech in Structural Engineering
- M.Tech in Robotics and Artificial Intelligence



02

SCHOOL OF COMPUTER SCIENCES AND ENGINEERING

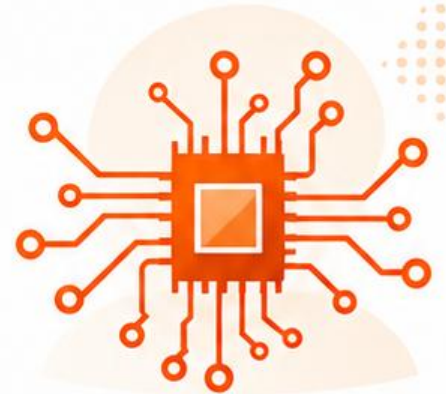
- B.E. in Computer Science and Engineering
- B.E. in Artificial Intelligence and Machine Learning
- B.E. in Computer Science and Business Systems
- B.E. in Computer Science and Engineering (Data Science)
- M.Tech in Computer Science and Engineering
- Master of Computer Applications (MCA)
- Bachelor of Computer Applications (BCA)



03

SCHOOL OF ELECTRICAL & ELECTRONICS SCIENCES AND ENGINEERING

- B.E. in Electronics and Communication Engineering
- B.E. in Electrical and Electronics Engineering
- B.E. in Electronics and Instrumentation Engineering
- B.E. in Electronics and Telecommunication Engineering
- B.E. in Electronics and Communication Engineering (VLSI Design & Technology)
- M.Tech in VLSI Design and Embedded System (Under ECE)
- M.Tech in Power Electronics (Under EEE)



04

SCHOOL OF COMMERCE AND MANAGEMENT STUDIES

- Bachelor of Business Administration (BBA)
- Master of Business Administration (MBA)



EVENING ENGINEERING PROGRAMMES OFFERED FOR WORKING PROFESSIONALS



B.E. in
Civil Engineering



B.E. in
Electrical Engineering



B.E. in
Mechanical Engineering

COMPUTER SCIENCE & ENGINEERING PROGRAMME

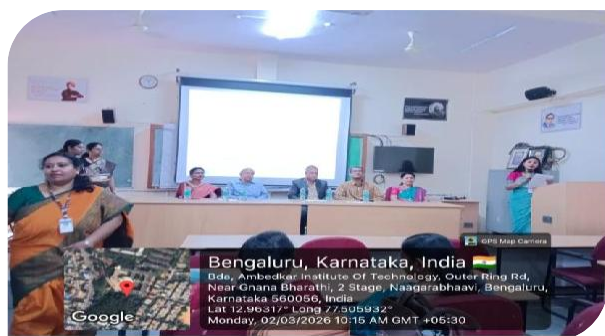
EVENTS ORGANIZED

ISTE Sponsored One-Day Workshop on “Innovative Pedagogy, Mentoring and Assessment Practices in Engineering Education”

The Computer Science and Engineering programme organized a **One-Day Workshop on “Innovative Pedagogy, Mentoring and Assessment Practices in Engineering Education – Graduate Attributes and Professional Competencies (GAPC V4.0)”** on **02 March 2026** under the **ISTE Chapter**. The workshop aimed to strengthen faculty competencies in innovative teaching methodologies, mentoring practices, and outcome-based assessment aligned with modern engineering education.

The resource person, **Prof. N. C. Shivaprakash**, delivered an insightful session on **Outcome-Based Education (OBE), Program Educational Objectives (PEOs), Program Outcomes (POs), Course Outcomes (COs), Graduate Attributes, Bloom’s Taxonomy, and effective assessment strategies**. The program was inaugurated by **Dr. Mahalinga V. Mandi, Principal**, who emphasized the role of innovative pedagogy in enhancing engineering education. **Dr. Gowrishankar S., Head of the School (SCSE)**, highlighted the importance of adopting student-centric teaching practices, while **Mrs. Veena Potdar** introduced the resource person.

The workshop witnessed the participation of **30 faculty members**, including **5 participants from PVP College**, and concluded with a vote of thanks by **Mrs. Veena Potdar**. The event provided valuable insights into contemporary teaching, mentoring, and assessment practices, enabling faculty members to enhance the quality of engineering education



STUDENT DEVELOPMENT PROGRAMME – CYBERSPARK FOUNDATION COHORT



Panchajanya Vidya Peetha Welfare Trust (P)

Dr. Ambedkar Institute of Technology
(An Autonomous Institute, affiliated to Visvesvaraya Technological University, Belagavi) Accredited by NBA and NAAC with 'A' Grade
Outer Ring Road, near Asha Bhudhary Karapur, Mandanahalli, Bengaluru-56



India Israel
CyberSpark Academy
making you job ready

School of Computer Science and Engineering
Computer Science and Engineering Programme

STUDENT DEVELOPMENT PROGRAM
CyberSpark Foundation Cohort
Career Clarity in Cybersecurity

- Too many roles.
- Too many certifications.
- Too much confusion.

Build clarity before specialization.

Dates:
2-11 March 2026

Mode:
Online (Live Sessions)

LIVE ONLINE PROGRAM

CyberSpark Foundation moves students from curiosity to career clarity through structured, industry-aligned cybersecurity exposure.

- Live Interaction
- Certificate
- Live Online Sessions
- Career Roadmap Framework

Chief Convenor
Dr. Mahalinga V Mandi
Principal, Dr. AIT

Convenors

Dr. C. R. Mahesha Academic Dean, Dr. AIT	Dr. Gowrishankar S Professor & HOD, School Of CSE, Dr. AIT	Dr. Nandini N HOD, CSE, Dr. AIT
Dr. Prabha R HOD, ISE, Dr. AIT	Dr. Ajay Prakash BV HOD, AIML, Dr. AIT	Dr. Vidyarani H J HOD, CSES, Dr. AIT

Faculty Co-ordinators
Sheela G, Assistant Professor
Poornima R.D., Assistant Professor
CSE Programme

www.dait.edu.in www.cybersparkacademy.in

Scan QR to Register





The School of Computer Science and Engineering, Dr. Ambedkar Institute of Technology, in collaboration with the India Israel CyberSpark Academy, organized the CyberSpark Foundation Cohort – Student Development Programme from 2nd to 11th March 2026 in online live mode. The programme aimed to provide students with career clarity in the field of cybersecurity by introducing them to various cybersecurity domains, industry-recognized certifications, and career pathways. Through expert-led interactive sessions, participants gained valuable insights into roles such as Security Analyst, Penetration Tester, Cloud Security Engineer, and AI Security Specialist. The programme also offered a structured career roadmap, industry-oriented exposure, and certification, empowering students to make informed career decisions and build a strong foundation in cybersecurity.

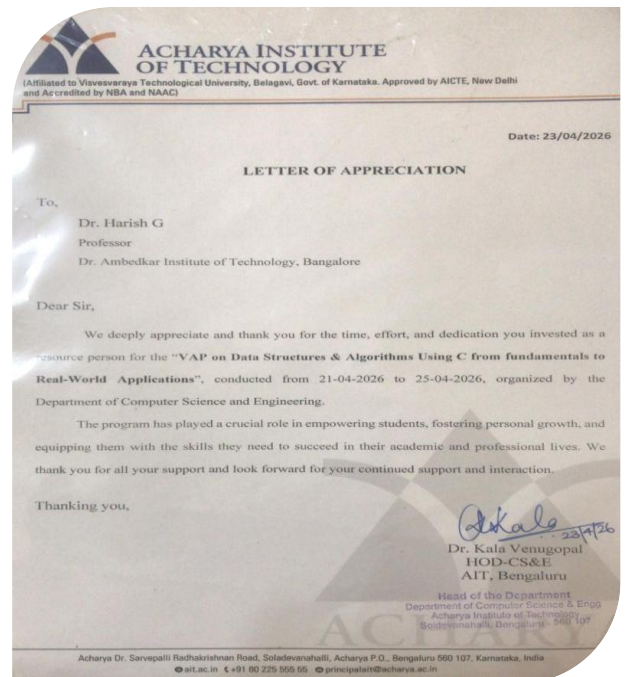
WORKSHOPS/STTPS/FDPS ATTENDED BY FACULTY MEMBERS

Faculty members actively participated in several **Faculty Development Programmes (FDPs)** and **Workshops** conducted by reputed institutions to enhance their teaching, research, and technical expertise.

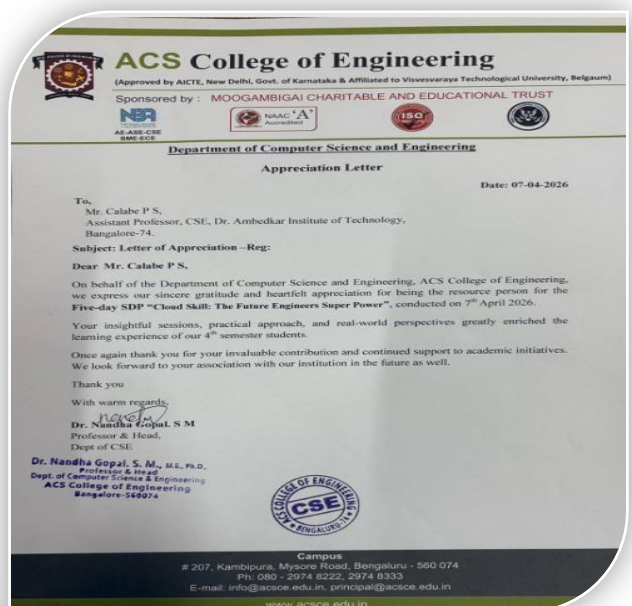
1. Attended the AICTE Sponsored Faculty Development Programme on "**Exploring the Synergy between eAcoustics and Machine Learning for Tomorrow's Technologies**", organized by Dr. Ambedkar Institute of Technology, by Dr. Harish G., Dr. Smitha Shekar B., Dr. Asha K.N., Dr. Arvind H L, Mrs. Veena Potdar, Mrs. Lavanya Santhosh, Mrs. Sneha G., and Mrs. Poornima R.D.
2. Attended the Faculty Development Programme on "**Advanced Generative AI & Context Engineering**", organized by Innomatics Research Labs, by Dr. Asha K.N., Dr. Smitha Shekar B., Mrs. Veena Potdar, Mr. Calab, and Mrs. Lavanya Santhosh.
3. Attended the Faculty Development Programme on "**ARM Cortex M3 and Embedded Systems**", organized by RNS Institute of Technology (RNSIT), by Dr. Aravinda H.L.
4. Attended the Faculty Development Programme on "**Quantum Machine Learning for Healthcare**" by Dr. Madhu B.
5. Attended the AICTE Sponsored Faculty Development Programme on "**Advancement in Precision Health: Innovations in Healthcare and Medical Technology**", organized by Jadavpur University, by Mrs. Sneha G.
6. Attended the AICTE Sponsored Faculty Development Programme on "**Next Gen Computing: AI, Supercomputing & Data Science**", organized by Majlis Arts and Science College, by Mrs. Sneha G.
7. Attended the Workshop on "**Application Development with AI & Essential Skills**", organized by Dr. Ambedkar Institute of Technology in association with Brain Solution Pvt. Ltd., by Mr. Vinod Kumar K.P.
8. Attended the One-Day Regional Awareness Workshop on "**Space Enabled Geoinformation for Disaster Management**", organized by the Indian Space Research Organisation (ISRO), National Remote Sensing Centre (NRSC), Regional Remote Sensing Centre–South (RRSC-South), Bengaluru, on 27 March 2026 by Dr. Asha K. N., Dr. Madhu B., Mrs. Veena Potdar, Mrs. Uma K. M., Mrs. Lavanya Santhosh, and Mr. Calabe P. S.

FACULTY OUTREACH ACTIVITIES

1. **Dr. Harish G.** served as a Resource Person for the Value Added Programme (VAP) titled "**Data Structures & Algorithms Using C: From Fundamentals to Real-World Applications**", organized by the Department of Computer Science and Engineering, **Acharya Institute of Technology, Bengaluru**, from 21–25 April 2026, where he trained students on fundamental and real-world applications of data structures and algorithms.



2. **Mr. Calabe P. S.** served as a Resource Person at **TECHNOVA–2026**, a Student Development Programme on Emerging Computing Technologies organized by the Department of Computer Science and Engineering, **ACS College of Engineering, Bengaluru**, where he delivered an expert session on "**Cloud Skill: The Future Engineers SuperPower**" on 10–11 April 2026.



ACS COLLEGE OF ENGINEERING
Approved by AICTE, New Delhi, Affiliated to VTU, Belagavi, Govt. of Karnataka
No. 207 Kambipura, Mysore Road, Bengaluru – 560 074

All Are Cordially Invited For

TECHNOVA - 2026

Student Development Program on EMERGING COMPUTING TECHNOLOGIES

Organized by : DEPT. OF CSE

Resource Persons

Chief Patron
Dr. A.C. Shanmugam
B.A., LL.B., FIMSA, FRCPs (Glasgow, UK)
Founder Chancellor
RajaRajeswari Group of Institutions,
Bengaluru

Patron
Sri. A.C.S Arun Kumar
B.Tech (Hons.), LMISTE., MIET (UK), LMCSL,
MIEEE, MCSL, MISTE, CEng (India)
President
RajaRajeswari Group of Institutions,
Bengaluru

Resource Persons:

Dr. Jyothi R
Professor Global Academy of
Technology CSE Department

Mr.Vinay Kumar G N
Vinda Consultancy Services

Mrs.Supriya H S
Global academy of technology

Dr. Sudhindra R
BMS College of Engineering

Mr. Calabe P S
Dr Ambedkar Institute of Technology

Mr.Murthy Adivi
Intrulcent Innovations Pvt. Ltd.,
Bengaluru

Date: 7th to 11th April 2026 Time: 9:30 AM to 4:00 PM Venue: ACSCE Auditorium

Dr. S. Vijayanand, M.Tech, Ph.D
Executive Director, RRG

Sri.C.N.Seetharam, IAS (Retd.)
Chief Executive Officer, RRG

Dr.S.Jeyabalan., Ph.D
Special Officer, RRG

Dr.A.K.Marappan
Rector, RRG

Dr.S.Meenakshi Sundaram
Registrar, RRG

Dr.B.S.Shylaja
Principal, ACSCE

Dr.S.Usha
Vice Principal, ACSCE

Dr. Nandagopal S M
HOD, Dept. of CSE

PUBLICATIONS

1. **A. T. Sujan, Sudhanva S. Joshi, Y. R. Thanay Kumar, K. V. Ujwal Karanth, Dr. Asha Rani K. P., and Dr. S. Gowrishankar** published a conference paper titled **"A Survey of Smart Nutrition Applications: From Food Recognition to Customized Exercise Plans"** in the **International Conference on Modeling, Simulation and Optimization**, published by **Springer Nature** in the **Smart Innovation, Systems and Technologies (SIST), Volume 461**, pp. **185–196**, February 2026. DOI: https://doi.org/10.1007/978-981-95-4161-4_10
2. **Dr. Nandini N. and Amulya** published an article titled **"LRA: A Lightweight Reputation-Based Authentication Framework for Secure IoT-Driven E-Commerce Supply Chain Management"** in the Q2 Scopus-indexed journal *Engineering, Technology & Applied Science Research (ETASR)*, Volume 16, Issue 3, June 2026, pp. 36497–36504. DOI: <https://doi.org/10.48084/etasr.18062>
3. **Dr. Asha K. N., Dr. Praveena M. V and Mrs. Lavanya Santhosh** published an article titled **"A Hybrid Quantum-Classical Framework for Saliency-Aware Medical Image Encoding"** in the Scopus-indexed journal *Quantum Reports*, Volume 8, Issue 2, May 2026., DOI: <https://doi.org/10.3390/quantum8020046>.
4. **Mrs. Vinutha M. S, Bharatkumar M. Patil, Himanshu Yadav, Bikash Prasad Yadav, Anshum Ashu** published an article titled **"Infrared Sensor-Based Virtual Keyboard Using Holographic Laser Projection"** in the International Journal for Research in Applied Science & Engineering Technology (IJRA-SET), Volume 14, Issue IV, April 2026. DOI: <https://doi.org/10.22214/ijraset.2026.79203>

ACADEMIC MILESTONES: NEW DOCTORATES



Dr. Asha Rani K P

The Computer Science and Engineering programme proudly congratulates **Dr. Asha Rani K. P.** on the successful completion of her **Doctor of Philosophy (Ph.D.)** from **Visvesvaraya Technological University (VTU), Belagavi**, in **2026** under the guidance of **Dr. Gowrishankar S.** Her research was carried out in the area of **Data Science**. During her doctoral journey, she made significant research contributions, publishing **one Scopus Q1 journal paper, two Scopus Q3 journal papers, two IEEE international conference papers, one Springer international conference paper, two Scopus-indexed book chapters, and one Indian patent**. She has also submitted **two additional papers to reputed Q1 journals**, and her research has received **over 250 citations**, reflecting its strong academic impact.



Dr. Vinod Kumar K. P

The Computer Science and Engineering programme proudly congratulates **Dr. Vinod Kumar K. P.** on the successful completion of his **Doctor of Philosophy (Ph.D.)** from **Visvesvaraya Technological University (VTU), Belagavi**, under the guidance of **Dr. Vinay V. Hegde, R.V. College of Engineering (RVCE), Bengaluru**. During his doctoral journey, he made significant research contributions, publishing **one Scopus Q1 journal paper, one Scopus Q3 journal paper, two Scopus-indexed journal papers, and one IEEE international conference paper**. His doctoral research focused on **image compression using hybrid transformation techniques**, contributing to the field of **image processing and multimedia systems**.

SKILL LAB @ CSE

The Computer Science and Engineering Programme, Dr. Ambedkar Institute of Technology, successfully organized a series of Skill Lab Programmes for the 2nd, 4th, and 6th Semester students during the academic year **2025–26**. These programmes were designed to complement classroom learning with practical, industry-oriented training, enabling students to develop technical competencies, problem-solving abilities, and hands-on experience in emerging technologies. Each Skill Lab was carefully structured to align with the curriculum while addressing current industry requirements, thereby enhancing students' employability and innovation skills.

The 2nd Semester Skill Lab focused on the fundamentals of **Embedded Systems and Internet of Things (IoT) using the Raspberry Pi Pico platform**. Students gained practical experience in digital interfacing, analogue sensors, displays, motors, Bluetooth communication, and home automation through mini-projects such as traffic light controllers, electronic voting machines, visitor counters, and temperature monitoring systems. These activities strengthened their understanding of hardware programming and real-time embedded applications.

The 4th Semester Skill Lab emphasized **Applied Data Analytics and Visualization**, introducing students to the complete data analytics lifecycle. Participants learned data preprocessing, exploratory data analysis, SQL, business analytics, dashboard development using industry-standard BI tools, and capstone project implementation. Hands-on exercises using **Python, Pandas, Matplotlib, and Power BI/Tableau**, along with Kaggle and HackerRank certification activities, enabled students to develop practical analytical and data visualization skills required in today's data-driven industries.

The 6th Semester Skill Lab focused on **Artificial Intelligence, Machine Learning, Deep Learning, Natural Language Processing, Transformers, and Generative AI**. Students explored AI agents, machine learning paradigms, sequence models, transformer architectures, prompt engineering, Retrieval-Augmented Generation (RAG), AI chatbot development, and Large Language Models (LLMs). Practical sessions, industry interactions, and an industry visit to Innomatics Research Labs provided valuable exposure to cutting-edge AI technologies and their real-world applications.

GLIMPSES OF THE SKILL LAB



STUDENT ACHIEVEMENTS/AWARDS/RECOGNITION

1. The Students' Research Project Proposal (SRPP) titled "VermiTrack – Automated Earthworm Cultivation and Vermicompost Process with App-Based Monitoring" has received approval from the Institution of Engineers (India) (IEI), Karnataka State Centre, Bengaluru by Navaneeth V, Saravan V, Tejas L, and Prajwal K. C. under the guidance of Dr. Gowrishankar S. and Dr. Asha Rani K. P.



The Institution of Engineers (India)

Karnataka State Centre, Bengaluru

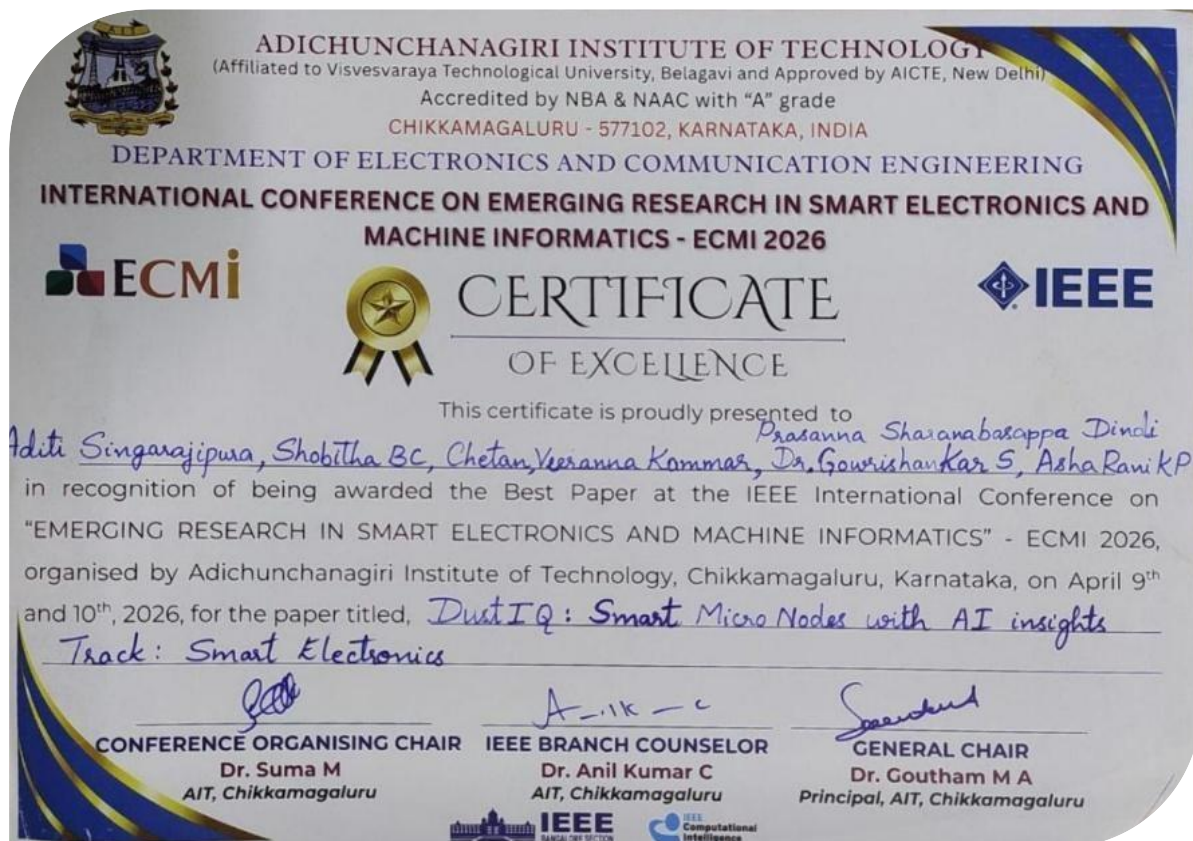
Following Projects have been approved by the Expert Committee for the Students Research Project Proposal (SRPP) for the year 2025-26

SUBJECT: COMPUTER SCIENCE

Project Team:

28.	Dr Ambedkar Institute of Technology	VermiTrack-Automated Earthworm Cultivation & Vermicompost Process with App-Based Monitrng	Prof Asha Rani K P Dr. Gowrishankar S	1. Navaneeth V 2. Saravan V 3. Tejas L 4. Prajwal K
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2. Aditi Singarajipura, Shobitha B. C., Chetan Veeranna Kammar, Prasanna Sharanabasappa Dindi, Dr. Gowrishankar S., and Dr. Asha Rani K. P. were awarded the **Best Paper Award** at the **IEEE International Conference on Emerging Research in Smart Electronics and Machine Informatics (ECMI 2026)**, organized by the **Department of Electronics and Communication Engineering, Adichunchanagiri Institute of Technology, Chikkamagaluru**, held on **9–10 April 2026**. The award was conferred for their paper titled **"DustIQ: Smart Micro Nodes with AI Insights"** under the **Smart Electronics** track.



3. **"DustIQ: IoT-Enabled Environmental Safety and Intrusion Surveillance Using Smart Micro Nodes"** (Proposal No. 49S_BE_5294) by **Shobitha B. C., Aditi Singarajipura, Chetan Veeranna Kammar, and Prasanna Sharanabasappa Dindi**, under the guidance of **Dr. Gowrishankar S. and Dr. Asha Rani K. P.**, received a sponsorship of **₹3,500**.



4. **"Smart Agri to Control Pesticides"** (Proposal No. 49S_BE_5963) by **Dhanya Bharadwaj, Akash Potti, Nishaant N. Upadhyaya, and Sharan Reddy M.**, under the guidance of **Dr. Asha Rani K. P. and Dr. Gowrishankar S.**, received a sponsorship of **₹4,000**.
5. **"MindfulFlow: An AI-Powered Digital Wellness and Lifestyle Companion"** (Proposal No. 49S_BE_6668) by **Benak Kishan J., C. Dhanush, Basaveshwari Malipatil, and Akshatha M. D.**, under the guidance of **Dr. Asha Rani K. P. and Dr. Gowrishankar S.**, received a sponsorship of **₹4,000**.

 KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY Indian Institute of Science Campus, Bengaluru – 560 012 Website: www.kscst.org.in, https://kscst.karnataka.gov.in Email: spp@kscst.org.in Tel: 080-2334 1652, 2334 8848/49/40							
49 th series of Student Project Programme (SPP): 2025-26							
List of Student Project Proposals Approved for Sponsorship							
52. Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY, BENGALURU							
Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)	AMOUNT SANCTIONED (Rs.)
369.	49S_BE_5294	DUSTIQ: IOT-ENABLED ENVIRONMENTAL SAFETY AND INTRUSION SURVEILLANCE USING SMART MICRO NODES	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. GOWRISHANKAR S Prof. ASHA RANI K P	Ms. SHOBITHA B C Ms. ADITI SINGARAJIPURA Mr. CHETAN VEERANNA KAMMAR Mr. PRASANNA SHARANABASAPPA DINDI	3,500.00
370.	49S_BE_5963	SMART AGRI TO CONTROL PESTISIDES	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. ASHA RANI K P Dr. GOWRISHANKAR S	Ms. DHANYA BHARADWAJ Mr. AKASH POTTI Mr. NISHAANT N UPADHIYAYA Mr. SHARAN REDDY M	4,000.00

KSCST: 49th Series of Student Project Programme (SPP): List of approved projects for sponsorship Page 102 of 365

 KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY Indian Institute of Science Campus, Bengaluru – 560 012 Website: www.kscst.org.in, https://kscst.karnataka.gov.in Email: spp@kscst.org.in Tel: 080-2334 1652, 2334 8848/49/40							
49 th series of Student Project Programme (SPP): 2025-26							
List of Student Project Proposals Approved for Sponsorship							
371.	49S_BE_6668	MINDFULFLOW: AN AI-POWERED DIGITAL WELLNESS AND LIFESTYLE COMPANION	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. ASHA RANI K P Dr. GOWRISHANKAR S	Mr. BENAK KISHAN J Mr. C DHANUSH Ms. BASAVESHWARI MALIPATIL Ms. AKSHATHA M D	4,000.00

6. The Students' Research Project Proposal (SRPP) titled “Intelligent AI: AI Powered Cavity Monitoring and Cancer Detection” has been approved by the Institution of Engineers (India) (IEI), Karnataka State Centre, Bengaluru by Ms. Hema (1DA22CS062), Lavanya A (1DA22CS079), Malika Bhat (1DA22CS087), and Malini Manohar (1DA22CS088) under the guidance of Dr. Madhu B.

**The Institution of Engineers (India)**
(Established 1920, Incorporated by Royal Charter 1935)
A Century of Service to the Nation
KARNATAKA STATE CENTRE
No. 3, Dr. B. R. Ambedkar Veedhi, Bengaluru- 560 001
Mob: 81056 25725, Phone: 080-22264698 ; Fax : 080-22256191
E-mail: ieiksc.ksc@gmail.com; karnatakasc@ieindia.org; www.ieiksc.org.in

Dr. H K Ramaraju, FIE
Chairman
Mob: 98456 25608

Prof (Dr.) K R Nataraj, FIE
Honorary Secretary
Mob: 99160 65415

To,
The Principal,
Dr. Ambedkar Institute of Technology
Bengaluru

Dear Sir!

Subject: Sanction of Student Projects: Year 2025-2026

We are pleased to inform you that the following projects from your esteemed college have been awarded for recognition based on their innovation, technical presentation, and project performance.

The details of the awarded projects are given below:

Sl. No.	Project Title	Department	Project Guide	Sanctioned Amount
1.	Intelligent AI: AI Powered Cavity Monitoring & Cancer Detection	Computer Science	1. Dr. Madhu B	Rs. 3,000/-
2.	VermiTrack- Automated Earthworm Cultivation and Vermicompost process with App-Based Monitoring	Computer Science	1. Prof Asha Rani K P 2. Dr. Gowrishankar S	Rs. 3,000/-

We congratulate the students and faculty guides for their excellent efforts and valuable contribution. Your institution's encouragement towards technical education and innovation is highly appreciated.

a). The sanctioned amount will be released to the account of the Principal of the respective College. It is also requested to **send hard Copy of the report with utilization Certificate signed by the Head of the Institution on or before 30.05.2026 to IEI, KSC Office Bengaluru & soft copy by mail to karnatakasc@ieindia.org. (Utilization Certificate is enclosed along with mail)**

b). In this connection, it is requested to share the Account Details of Principal of the College/ Institute:

a) Name of the Account	b) Bank Name	c) Branch Name
d) Account Type	e) Account Number	f) IFSC Code No. of the Bank

Google Link: <https://forms.gle/kPkCzUmXjGTX4NfK8> to share A/c Details

7. A team of CSE students comprising **Alikhya K., Divya G., Hamsalekha S. N., and Harshita Ramesh** secured the **Second Prize** in the National Level Paper Presentation at **ENIGMA'26**, the Annual National-Level Technical Fest organized by Malnad College of Engineering, Hassan, held on **28 March 2026**. Their paper, titled "**Sign Language Detection to Enhance Communication**", was presented under the guidance of **Dr. Harish G. and Dr. Smitha Shekar B.**
8. **Jayakirti Savant** bearing USN: 1DA22CS067 secured the 2nd prize at Manthan, organized by **the Federation of Karnataka Chambers of Commerce and Industry**

(FKCCI). This competition focused on innovative business models and entrepreneurial solutions, where my proposal was recognized for its strategic implementation and scalability.



9. Joyce Malik and his team have secured the 2nd Prize at 10th National Techno Exhibition 13.04.2026 for innovative project “Orbitalnet OS: Distributed Architecture For Intelligent Satellite Fleet Management Tagline - Self-Organizing, Secure, And Scalable Space Operations” under the guidance of Dr. Smitha Shekar B.



NEW JOINEES IN THE CSE PROGRAMME

The Computer Science and Engineering Programme is pleased to welcome its new faculty members. Their diverse academic backgrounds and professional expertise will contribute significantly to strengthening the department's teaching, research, and student development activities. The CSE Programme extends a warm welcome and wishes them a successful and rewarding career at Dr. Ambedkar Institute of Technology.



Mrs. Vybhavi P.

Designation: Assistant Professor, Computer Science and Engineering Programme, SCSE, Dr.AIT.

Mrs. Vybhavi P. has joined the Computer Science and Engineering Programme as an **Assistant Professor**. She holds **one year of teaching experience** as an Assistant Professor at **East West Institute of Technology, Bengaluru**. She is dedicated to academic excellence and is committed to creating an enriching learning environment that supports student growth and professional development.



Mrs. Komala N.

Designation: Assistant Professor, Computer Science and Engineering Programme, SCSE, Dr.AIT.

Mrs. Komala N. has joined the Computer Science and Engineering Programme as an **Assistant Professor**. She has three years of teaching experience, including one year as an Assistant Professor at **East West Institute of Technology, Bengaluru**, and two years as an Assistant Professor at **Rajiv Gandhi Polytechnic, Bengaluru**. She is committed to fostering academic excellence and creating an engaging learning environment that supports student learning and professional development.

PLACEMENT HIGHLIGHTS

The Computer Science and Engineering programme continues to uphold its strong placement record, with students securing placements and internships in several leading multinational companies and technology organizations. During the academic year, recruiters such as **Tata Consultancy Services (TCS Prime, TCS Digital, and TCS Automotive), Infosys, Schneider Electric, Netgear, AO Smith, Silicon Microsystems, Rosell Techsys, CDD India, RDC Concrete (India) Ltd., and The Civil Engineers (TCE)** visited the campus, offering diverse career opportunities across software, AI, cloud computing, engineering, and core technology domains.

Students received attractive compensation packages, with the **highest package reaching ₹14.6 LPA** offered by **Netgear** for the role of **Software Development Intern**, along with a **monthly stipend of ₹35,000**. Students also secured prestigious offers from **TCS Prime (up to ₹11.59 LPA)** and **TCS Digital (₹7.09 LPA)**, reflecting the department's emphasis on academic excellence, technical competency, and industry readiness. Internship opportunities with companies such as **Schneider Electric, CDD India, AO Smith, and TCS Automotive** further enabled students to gain valuable industry exposure before graduation.

The remarkable placement achievements are a testament to the dedicated efforts of the **Career Development Cell**, faculty members, and students, supported by continuous skill development initiatives, industry-oriented training, internship opportunities, and placement preparation programmes. The department remains committed to nurturing industry-ready graduates capable of excelling in the ever-evolving global technology landscape.



Heartiest Congratulations!

ON YOUR WELL-DESERVED PLACEMENT
WE ARE PROUD TO ANNOUNCE THAT OUR
PRE-FINAL YEAR STUDENTS OF
COMPUTER SCIENCE ENGINEERING
HAVE BEEN PLACED AT

TCS TCS DIGITAL

CTC ₹ 7.09 LPA

"Your Hard Work Today, Your Success Tomorrow."

VAIBHAV S
ADITYA SWADI
SUCHARITHA SHETTIGAR
RAKESH
VIGNESH A
SHWETA MARUTI GAONKAR

PRE-FINAL YEAR STUDENTS
BRANCH: COMPUTER SCIENCE ENGINEERING
COLLEGE: DR. AMBEDKAR INSTITUTE OF TECHNOLOGY
A STEP TOWARDS A BRIGHTER FUTURE

YOUR SUCCESS OUR PRIDE!
Keep Learning, Keep Growing, Keep Inspiring.

DEDICATION Leads to Excellence
FOCUS Drives Success
LEARNING Never Stops
TEAMWORK Makes the Dream Work

THE FUTURE IS YOURS!

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Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY
Outer Ring Road, Malathahalli, Bengaluru-560056, Karnataka, India

CAREER DEVELOPMENT CELL

Infosys®
Congratulations!

Heartiest congratulations to our talented students for being selected at Infosys

1 Shreya Santosh ECE
2 Keerthana G ECE
3 K Neha ECE
4 Sneha A S CSE
5 Bhoomika G CSE
6 Chandana M ECE
Grishma Shanbhag CSE

SELECTED AT Infosys

ROLE: Software Engineer
PACKAGE: **3.6 LPA**

LEARN PREPARE PERFORM SUCCEED
Your hard work today, your success tomorrow!

Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY
CAREER DEVELOPMENT CELL
Connecting Talent, Creating Opportunities

Congratulations!
PROUD TO ANNOUNCE OUR STUDENTS' ACHIEVEMENTS

SHOBITHA B C
USN: 1DA22CS149
COMPANY NAME: **NETGEAR**
JOB ROLE: Software Development Intern
STIPEND: ₹ 35000
CTC: 14.6 LPA

VASANTH KUMAR M
USN: 1DA22AI048
COMPANY NAME: **NETGEAR**
JOB ROLE: Software Development Intern
STIPEND: ₹ 35000
CTC: 14.6 LPA

YOUR HARD WORK. OUR PRIDE!
Wishing you a successful and fulfilling career ahead!

Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY
CAREER DEVELOPMENT CELL

Congratulations!
We are proud to announce that our students have been placed in

TCS TCS - Prime JOB ROLE: SYSTEM ENGINEER
CTC: 9.09 LPA

USN: 1DA22CS165
USN: 1DA22CS105
USN: 1DA22CS100
NAME: Suhas A
NAME: Nithyashree R
NAME: Nandeesha N M

Wishing you a bright and successful future ahead!

"In Computer Science, every great innovation begins with a curious mind and the courage to explore what is possible. Through knowledge, creativity, and collaboration, we don't just prepare for the future, we help create it."

COMPTER SCIENCE AND BUSINESS SYSTEMS

ABOUT THE DEPARTMENT



Welcome to the Computer Science & Business Systems Programme at Dr. Ambedkar Institute of Technology, Bengaluru. CSBS is a forward-looking programme that uniquely bridges cutting-edge computing technology with business intelligence — co-designed with Tata Consultancy Services (TCS), India's largest IT company. Our programme is built on a vision to create a competent learning ecosystem that deepens understanding of both technology and management, developing innovative, principled, and insightful leaders who are ready to change the world. Our faculty are not just educators but active researchers and innovators. With publications in Web of Science, Scopus, IEEE, and Springer Q1/Q2 journals — covering AI in healthcare, deep learning, blockchain security, droneassisted crime detection, and computational cardiology — we embed research thinking into every course. Students work on live projects with IISc Bengaluru, ISRO, DRDO, Sri Jayadeva Institute of Cardiovascular Science Research, and Avinya TechKnows. Our 80%+ placement rate, Smart India Hackathon winners, AICTE Product Fellows, and IIT Bombay participants are proof that CSBS students are industry-ready from Day One. Through NEXORA — our student innovation and leadership club — and ASTRAVA, our 24-hour national-level hackathon, we build not just engineers but leaders with vision, creativity, and enterprise.

GLOBAL INTERACTION - UNIVERSITY OF SUNDERLAND, UK



Mr. Sumanth Attur with Secretary Prof. Mahadeva and CSBS faculty

Mr. Sumanth Attur, International Recruitment Manager, **University of Sunderland, UK**, visited the Department of Computer Science and Business Systems (CSBS) at Dr. Ambedkar Institute of Technology, Bengaluru. During the visit, he interacted with Secretary Prof. Mahadeva Sir, the Principal, Dean, HoS, HoD, and department faculty and students to explore avenues for international collaboration, student exchange, and higher education pathways for CSBS students. The discussion focused on strengthening global academic partnerships and expanding opportunities for students to pursue further studies abroad.

TECHNO EXHIBITION 2026 — MATRICARE PROJECT SHO-CASE



CSBS students showcasing the MatriCare project at Techno Exhibition 2026

Students of the CSBS department showcased their innovative project “**MatriCare – An AI-Integrated Maternal Monitoring System**” at Techno Exhibition 2026. The project, powered by AI and IoT, presented a next-generation approach to pregnancy monitoring, demonstrating the department's commitment to solving real-world healthcare challenges through technology. The team received an encouraging response from visitors, faculty, and industry experts at the event, reflecting the growing research and innovation culture within the department.

HOD INTERACTION VISIT - NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY



HoDs of School of CSE with Principal and department heads at NMIT

HOP's of the School of CSE visited **NITTE Meenakshi Institute of Technology** to interact with the Principal and Heads of various departments, focusing on the **AICTE-IDEA Lab** and **Skill Lab** initiatives. The visit facilitated an exchange of ideas on setting up innovation infrastructure, fostering entrepreneurship, and enhancing skill-based learning for students, paving the way for future collaboration between the institutions.

PANCHAJANYA VIDYAPEETHA MEGA EDUCATION EXPO 2026

The Department of Computer Science and Business Systems actively participated in the **Panchajanya Vidyapeetha Mega Education Expo 2026**, showcasing the department's academic programs, innovative student projects, and learning initiatives. Faculty members and students interacted with prospective students and parents, providing insights into the CSBS curriculum, emerging technologies, and career opportunities. The event served as an excellent platform to highlight the department's commitment to academic excellence, industry-oriented learning, innovation, and holistic student development.



SKILL LAB ACTIVITIES – II SEMESTER

The department organized **Skill Lab sessions** for second-semester students to strengthen their programming fundamentals and computational thinking skills. Students actively participated in practical exercises designed to enhance logical reasoning, problem-solving abilities, and collaborative learning.

The hands-on sessions provided valuable exposure to real-world programming concepts and laid a strong technical foundation for advanced coursework.



SKILL LAB ACTIVITIES – IV SEMESTER

The **Software Engineering for Intelligent Systems Skill Lab** was conducted for fourth-semester students, focusing on modern software development practices and intelligent system design. Students gained practical experience in Artificial Intelligence tools, application development, and software engineering methodologies through project-based learning.

The programme encouraged creativity, teamwork, and innovation while preparing students to build intelligent software solutions for real-world applications.



Electronics Expo 2026



The Department of Computer Science and Business Systems actively participated in the **Electronics Expo 2026**, providing students with an opportunity to showcase their innovative projects and technical expertise. The event was coordinated under the guidance of **Sahana R, Assistant Professor**, and **Dr. Kavitha Devi C. S., Assistant Professor**, who mentored and encouraged students throughout the exhibition.

Students presented project prototypes and technology-driven solutions across domains such as **Artificial Intelligence, IoT, Embedded Systems, Healthcare Technology, and Smart Applications**. The expo promoted creativity, interdisciplinary collaboration, and practical implementation of engineering concepts while enabling students to interact with faculty members, industry experts, and fellow participants.

STUDENTS PUBLICATIONS

Students of the department continued to contribute to research through publications in reputed international journals.

1. Aircraft Certification Rule Extraction and Dashboard System Using Python and FastAPI

Final-year student **Darshan S**, under the guidance of **Dr. Kavitha Devi C. S.**, published a research paper in **IRE Journals (Volume 9, Issue 12, June 2026)**. The research presents an intelligent framework for extracting and visualizing aircraft certification rules using **Python** and **FastAPI**, improving accessibility and regulatory document management.

2. ANVAYA: AI-powered Navigation & Vision-based Assistive System for the Visually Impaired

Students **Grishma Harisha**, **Maddala Tabitha Angel**, **Sinchana K. S**, and **Vardhini M.**, under the guidance of **Dr. Kavitha Devi C. S.**, published their research in **IRE Journals (Volume 9, Issue 12, June 2026)**. The project integrates **Artificial Intelligence**, **Computer Vision**, and **Ultrasonic Sensor Technology** to assist visually impaired individuals through real-time obstacle detection and voice-based navigation.

FACULTY PUBLICATION

Dr. Vidyarani H. J. paper accepted and in production phase of publishing "A Novel Intelligent Drone Assist Framework for Identifying Crime in Public" in the **Journal of Multidisciplinary Applied Natural Science**, published by the **Pandawa Institute** (E-ISSN: 2774-3047), a **Scopus Q2 Indexed Journal**.

-

"At the intersection of technology and business, innovation finds its true purpose. Through knowledge, creativity, and strategic thinking, we prepare students not only to understand the digital world, but to lead and transform it."

FAREWELL 2026

The First Legacy of CSBS

The Department of Computer Science and Business Systems bid a heartfelt farewell to the graduating Class of 2026, marking a significant milestone as the department's **first graduating batch**. The farewell celebration was filled with gratitude, cherished memories, and best wishes as students, faculty members, and juniors came together to celebrate the remarkable journey of the outgoing batch. The event featured inspiring speeches, cultural performances, interactive activities, and moments of appreciation that reflected the strong bond shared within the department. The graduating students leave behind a legacy of academic excellence, friendship, leadership, and perseverance that will continue to inspire future batches. The department extends its sincere appreciation to the Class of 2026 for their invaluable contributions and wishes them every success in their higher education, careers, and future endeavors.

“Explore all about this” [https:// nexoracb.pages.dev/](https://nexoracb.pages.dev/)”



"The First Legacy of CSBS will always remain a proud chapter in the history of the department."

PLACEMENT HIGHLIGHTS

CSBS Students Secure Placements at Tata Consultancy Services (TCS)

The Department of Computer Science and Business Systems proudly congratulates its students on securing placements at **Tata Consultancy Services (TCS)**, one of India's leading global IT services and consulting organizations. A total of **11 students** from the department were selected through the campus recruitment process, reflecting the department's commitment to academic excellence, technical competency, and industry-oriented learning. The department extends its heartfelt congratulations to all the selected students and wishes them continued success as they begin their professional careers.

FACULTY ARTICLE

EMERGING TECHNOLOGIES: DRIVING INNOVATION AND FUTURE CAREERS

Technology continues to transform every aspect of our lives, creating new opportunities for innovation and sustainable development. Emerging technologies such as Artificial Intelligence, Machine Learning, Data Science, Cloud Computing, and the Internet of Things are reshaping industries and redefining the skills required for future professionals.

As educators, our responsibility extends beyond classroom teaching to fostering creativity, critical thinking, ethical values, and lifelong learning. By encouraging research, innovation, and practical problem-solving, we empower students to become confident professionals capable of addressing real-world challenges and contributing meaningfully to society.

The future belongs to those who continuously learn, adapt, and innovate. Together, let us embrace technology responsibly and build solutions that create a positive impact on our communities and the nation.



— Sahana R,
ASSISTANT
PROFESSOR
CSBS

STUDENT ARTICLE

WOMEN IN ENTREPRENEUR- SHIP: REDEFINING INDEPEND- ENCE THROUGH INNOVATION

Entrepreneurship has become a powerful platform for women to transform ideas into meaningful ventures and create a lasting impact on society. Today, women entrepreneurs are leading innovation across technology, healthcare, education, finance, and numerous other sectors, proving that determination, creativity, and resilience can overcome every challenge.

Entrepreneurship not only promotes financial independence but also inspires confidence, generates employment, and contributes to national development. As students, we must encourage an environment where innovative ideas are valued equally, regardless of gender, and where every aspiring entrepreneur receives the opportunity to grow.

When women are empowered to innovate and lead, they inspire future generations and strengthen communities. True progress is achieved when every individual has the freedom to dream, create, and transform ideas into reality.



— Sinchana K S,
4th Year, CSBS,
Dr AIT

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING PROGRAMME

ABOUT THE PROGRAMEE



AI & ML Programme is Established in 2022 and affiliated to VTU with AICTE approval with intake of 60 students at Dr. AIT. AI & ML offers cutting-edge courses including Machine Learning, Deep Learning, Natural Language Processing, Python, PyTorch, DevOps, Computer Vision, Data Structures & Algorithms and DBMS. The department is powered by highly qualified faculty, including Ph.D. holders who actively publish research and mentor students on industry-aligned projects. Through strong industry MoUs, workshops, internships and expert lectures, graduates gain real-world exposure and excellent placement opportunities with leading IT companies. Our faculty are not merely educators but active researchers and innovators, with publications in Web of Science, Scopus, IEEE, and Springer Q1/Q2/Q3 journals spanning deep learning architectures, natural language processing and machine translation, federated learning, computer vision, and applied AI across agriculture, healthcare, forensics, and finance. Backed by externally funded research from agencies such as AICTE and VGST, and active collaborations with IISc Bengaluru and industry partners, our students engage in live projects, high-impact publications, and pioneering initiatives such as large-scale forensic signature research. Through ASTRAVA our national-level hackathon and a culture that blends rigorous research thinking with hands-on learning, the AI & ML Programme is committed to shaping confident, principled, and visionary technologists ready to change the world.

EVENTS ORGANIZED

The Artificial Intelligence and Machine Learning Programme, in association with the Computer Science and Business Systems Programme, organised a technical talk on **"Go Beyond Resume in the Age of AI"**, featuring distinguished industry speakers **Ms. Asha Lakshmi Narasimha** (Data & AI Engineer), **Ms. Koushika Rajkumar** (MUDr, Palacký University), and **Dr. Neelima M Reddy** (L&D Lead, Reliance). The session guided students on building future-ready careers in the age of Artificial Intelligence, emphasising the theme **"Blossom Where You Bloom — Engineering your Future"** and inspiring them to look beyond conventional resumes toward genuine skill, adaptability, and innovation.



ASTRAVA 2026 24-Hour National Level Hackathon

The AI&ML Programme organised **ASTRAVA 2026**, a 24-hour national-level hackathon, on **6th and 7th March 2026** at the JPN Auditorium, Dr. AIT. The event drew an overwhelming national response with **over 1,200 registrations and 850+ original idea submissions**, from which **101 teams** were shortlisted to compete on-site across six thematic tracks including AI for Healthcare, Smart Agriculture, SpaceTech, Cybersecurity & FinTech, Sustainability, and Open Innovation. Shortlisted teams battled through a rigorous three-round evaluation totalling 300 marks, mentored by faculty and senior industry practitioners from organisations such as Accenture and CGI. The event concluded with a valedictory ceremony where cash prizes, mementos, and certificates of merit were awarded to the winning teams, reaffirming Dr. AIT's standing as a vibrant national hub for student-led innovation in Artificial Intelligence.



AI&ML Programme Signed MoU with IMS Learning Resources Private Limited to provide access to the students to spread awareness about GATE, CAT, GRE, Profile Building Workshops.



PARENT-TEACHER MEETING

AI & ML programme organized a **Parent-Teacher Meeting** to strengthen the vital partnership between the department and the families of our students. Faculty members interacted with parents to discuss their wards' academic progress, attendance, and overall development, while sharing insights into the programme's curriculum, learning initiatives, and career opportunities in Artificial Intelligence. The meeting fostered open communication and mutual collaboration, reaffirming the department's commitment to nurturing every student's growth through the shared involvement of parents and teachers.



SKILL LAB ACTIVITIES – II SEMESTER

JAVA FULL STACK DEVELOPMENT

The AI & ML Programme organised a six-day hands-on Skill Lab on "Java Full Stack Development" for first-year (second-semester) students from 6th to 11th April 2026, aimed at building strong end-to-end software development foundations. Conducted by Dr. Ajay Prakash B.V. and industry resource persons from SunBio IT Solutions, the programme progressively covered Java and Object-Oriented Programming, frontend fundamentals (HTML, CSS, JavaScript), collections and file handling, Spring Boot and REST API development, and database integration using MySQL, JDBC, JPA, and Hibernate. Through practical activities such as building a personal portfolio website, a student records manager, CRUD APIs, and a team-based full-stack mini project, students gained real-world exposure to industry tools including Git, Postman, and deployment platforms. The lab concluded with a project demonstration and assessment, with participant feedback strongly affirming improved conceptual clarity, hands-on confidence, and readiness for real-world application development.





INDUSTRY VISIT, INTERNSHIP EXPLORATION IN IISc, AICTE-IDEAL LAB EXPLORATION AT NITTE.

Our students participated in ABB's flagship team-based challenge on MyCareernet for 2027-batch engineering graduates. This initiative offered students an opportunity to apply their technical knowledge, foster innovation, and gain valuable industry exposure through collaborative problem-solving and real-world challenges. Visted AE Department in IISc to explore internship opportunities, with the supervision of Dr. S. N. Omkar, Chief Research Scientist, Guidance & Control, IISc our students selected for intern for providing AI based solutions to the AE department. All the HoPs of SCSE cluster visited NITTE, Bengaluru for exploring the infrastructure developed for skill labs and AICTE-IDEA Lab establishment.



STUDENT ACHIEVEMENTS/AWARDS/RECOGNITION

Sl. No.	Name of the Student	Name of the Competition	Place and Date	Details of Award/Recognition
1.	Rohith S V	HIGH JUMP	KIT, Tiptur, 26 th and 29 th march 2026	Secured 1 st place, VTU 27 TH State level Inter-collegiate athletic Meet-2025-26
2	Veda K Vajjalad	Technical Fest	March 2026	Mini Engineering at the Katalyst Bangalore Tech Fest 2026



PANCHAJANYA VIDYAPEETHA MEGA EDUCATION EXPO 2026

The Department of AI & ML actively participated in the **Panchajanya Vidyapeetha Mega Education Expo 2026**, showcasing the department's academic programs, innovative student projects, and learning initiatives. Faculty members and students interacted with prospective students and parents, providing insights into the CSBS curriculum, emerging technologies, and career opportunities. **The event served as an excellent platform to highlight the department's commitment to academic excellence, industry-oriented learning, innovation, and holistic student development**



MAY – JUNE 2026 HIGHLIGHTS

Dr. Ajay Prakash B.V., Head of the Artificial Intelligence and Machine Learning Programme, was honoured with a **Certificate of Appreciation** by the Organizing Committee of the **National Techno Exhibition 2026** for his valuable contribution in preparing the event compendium. The compendium, which consolidated the technical abstracts showcased at the exhibition, stood as a testament to his meticulous scholarly effort and commitment to academic documentation. This recognition reflects the department's dedication to fostering research culture and supporting institutional events of national significance.



STUDENT PUBLICATIONS

- **Sahaj Dubey and Priyanshu Yadav**, under the guidance of **Mr. Kushala M.V., Dr. Ajay Prakash B.V., and Dr. Bharath V.S.**, published "*WeatherVibe: A Real Time Weather App*" in the **International Journal of Engineering Research & Technology (IJERT)**, Vol. 14, Issue 06, ACSCON – 2026. The paper presents a lightweight, privacy-conscious Progressive Web App that delivers real-time, hyperlocal weather updates with customizable alerts and data visualization.
- **Namitha L. and Suma**, under the guidance of **Mr. Kushala M.V., Dr. B.S. Shylaja, Dr. Ajay Prakash B.V., and Dr. Bharath V.S.**, published "*FIN-AI: An Intelligent AI-Based System for Household Budgeting and Grocery Planning*" in the **International Journal of Engineering Research & Technology (IJERT)**, Vol. 14, Issue 06, ACSCON – 2026. The paper introduces a Supabase-powered platform that integrates real-time expense tracking, automated grocery planning, and AI-driven health-conscious recommendations.

FACULTY PUBLICATION

- **Sneha G., Dr. Ajay Prakash B.V., Dr. D.V. Ashoka, and Dr. Lekha Ravikumar**, "*Elderly Primigravida Leading to Cardio-Renal Issue due to Fast-Paced Lifestyle*", **International Journal of Drug Delivery Technology (IJDDT)**, Vol. 16, Issue 66s, 2026 (pp. 402–421). The study analyses multi-hospital electronic health records of 222 pregnant women to establish the association between advanced maternal age, pregnancy complications, and long-term cardio-renal risk, proposing AI-based predictive risk stratification as future scope.

FAREWELL 2026- "DEPLOYMENT DAY"

Bidding Farewell to Our First Graduating Batch 2022-2026

The AI&ML Programme celebrated a truly historic milestone on 20th June 2026 with "Deployment Day", its very first farewell to the graduating batch the pioneering cohort of the department. Aptly named in the spirit of the discipline, the event marked the moment our students, having been meticulously "trained" through years of learning, were ready to be "deployed" into the wider world of industry, research, and higher education. The celebration was filled with warmth, gratitude, and cherished memories, as students, faculty members, and juniors came together with inspiring speeches, cultural performances, and heartfelt words of appreciation that reflected the strong bond nurtured within the department. As our first batch steps forward to write their own success stories, they leave behind a proud legacy of academic excellence, resilience, and camaraderie that will continue to inspire every batch that follows. The department extends its heartfelt best wishes to the Class of 2026 for a future rich with achievement and purpose.

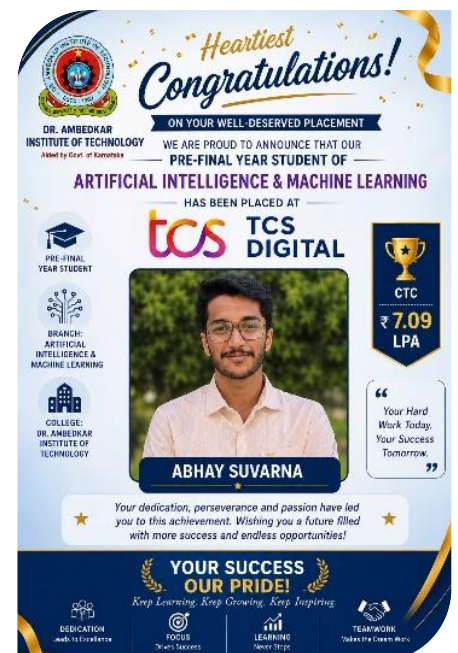


"Deployment Day will forever remain the first proud chapter in the journey of the AI & ML family."

PLACEMENT HIGHLIGHTS

We are delighted that our AIML sixth semester students have secured placements at Tata Consultancy Services (TCS) and NETGEAR with outstanding salary packages. 30+ students placed in AI-driven firms: Apteian, TCS, Netgear, Besant, NextWealth

High Package- ₹14.09 LPA - Mr. Vasanth Kumar M, NETGEAR		
TCS High Package – ₹9.09 LPA 1. Anvesh B. R. 2. Amsumalee Marakini 3. Sumit Kumar	TCS Package – ₹7.09 LPA 1. Abhay Suvarna	TCS Package – ₹3.46 LPA Anusha M. R., Thejas A. G. Jeeva Devaraju, Sanjana C. H. Harshavardhan K., Sneha Kumari



“Artificial Intelligence and Machine Learning are transforming the way we understand problems, make decisions, and create solutions. By combining human curiosity with the power of intelligent systems, we prepare to shape technologies that are not only smarter, but also more meaningful for the future.”

FACULTY ARTICLE



Dr. Ajay Prakash B.V.

*Research Professor & Head, AI & ML Programme,
Dr. Ambedkar Institute of Technology, Bengaluru*

ARTIFICIAL INTELLIGENCE: A CATALYST FOR ACHIEVING SUSTAINABLE DEVELOPMENT GOALS

Artificial Intelligence has emerged as a powerful ally in humanity's pursuit of the United Nations Sustainable Development Goals, offering data-driven pathways to address some of the most pressing challenges of our time. In agriculture, AI-powered crop monitoring, soil-nutrient analysis, and precision farming are strengthening food security and advancing the goal of Zero Hunger, while in healthcare, intelligent diagnostic systems and predictive risk models are extending quality care to underserved communities in support of Good Health and Well-Being. Machine learning models optimise renewable energy grids and forecast demand, contributing to Affordable and Clean Energy, even as computer vision and satellite analytics enable early detection of deforestation, floods, and pollution in the service of Climate Action and Life on Land. Equally, AI-driven personalised learning platforms are democratising Quality Education, and intelligent public-service systems are helping build Sustainable Cities and Communities. Yet the true measure of AI's contribution lies not merely in its technical prowess but in the responsibility with which it is deployed—demanding fairness, transparency, privacy, and inclusivity so that its benefits reach every section of society. As educators and researchers, our endeavour must be to harness this transformative technology ethically and purposefully, ensuring that Artificial Intelligence becomes not just an engine of innovation, but a genuine instrument of equitable and sustainable progress for the nation and the world

STUDENT ARTICLE



8th Semester, AI & ML,

ARTIFICIAL INTELLIGENCE: EMPOWERING OUR GENERATION TO BUILD A SUSTAINABLE FUTURE

As students of Artificial Intelligence and Machine Learning, we find ourselves standing at an exciting crossroads where technology meets responsibility, and where the ideas we build in our classrooms today can shape a better tomorrow. Every model we train and every project we develop carries the potential to contribute to the United Nations Sustainable Development Goals whether it is designing an app that promotes healthier living, building a system that detects crop deficiencies to support farmers, or creating tools that make quality education accessible to all. What inspires us most is realising that AI is not merely about writing code or chasing accuracy scores; it is about solving real problems that affect real people and communities around us. Through hackathons, research papers, and hands-on skill labs, we are learning that innovation must always go hand in hand with ethics, empathy, and inclusivity, ensuring that the technology we create uplifts everyone rather than leaving anyone behind. As the next generation of engineers and innovators, we feel both privileged and responsible to use our knowledge wisely, and we are determined to turn our curiosity into meaningful action that contributes to a cleaner, fairer, and more sustainable World.

DEPARTMENT OF COMPUTER APPLICATIONS (MCA)

ABOUT THE PROGRAMME

The **Department of Master of Computer Applications (MCA)** at **Dr. Ambedkar Institute of Technology, Bengaluru**, established in **1999**, is the institute's first postgraduate programme in Computer Applications. The programme is affiliated with **Visvesvaraya Technological University (VTU), Belagavi**, approved by **AICTE**, and has been granted **academic autonomy since 2016**. It is also **NBA accredited** for consecutive accreditation cycles, reflecting its commitment to quality education and academic excellence.

The department offers a **Master of Computer Applications (MCA)** programme along with a **Ph.D. programme** in Computer Applications through its recognized research centre. A team of highly qualified and experienced faculty members, including **five doctorate holders**, actively contribute to teaching, research, and the guidance of **10 Ph.D. scholars** in emerging areas of Computer Science.

The department provides **state-of-the-art computing laboratories**, specialized research facilities, high-speed internet connectivity, and digital learning resources to support an outcome-based learning environment. The curriculum is regularly updated in line with industry requirements, covering emerging technologies such as **Artificial Intelligence, Machine Learning, Cloud Computing, Big Data Analytics, Cybersecurity, Internet of Things (IoT), DevOps, and Data Science**.

Strong industry collaboration through internships, sponsored projects, expert talks, workshops, and placement training enables students to gain practical exposure and develop professional competencies. The department has consistently recorded excellent placements in leading national and international IT companies, supported by dedicated career guidance and industry-oriented skill development initiatives.

With a strong emphasis on academic excellence, research, innovation, and industry relevance, the Department of Master of Computer Applications continues to nurture competent software professionals, researchers, and technology leaders capable of addressing the evolving needs of the global IT industry.

INDUSTRIAL VISIT:

Second-semester MCA students have visited eMudhra Digital Campus, Hi-Tech Defence and Aerospace Park, Jala Hobli, near Kempegowda International Airport, Devanahalli, Bengaluru – 562149 on 13-05-2026. The industrial visit provided valuable exposure to real-world industry practices and emerging technologies in cybersecurity and digital identity management. The visit successfully enhanced students' technical knowledge, soft skills, and understanding of corporate culture. Overall, the visit was highly educational, interactive, and inspiring for all the students.



Resource persons delivering sessions on Cyber Security Essentials and Soft Skills



Group photo @ emudhra Limited

STUDENTS ACHIEVEMENT:

A Second Semester MCA student has been selected for the TCS Prime role with a package of ₹11.59 LPA.



DR. AMBEDKAR INSTITUTE OF TECHNOLOGY

Empowering Minds. Shaping Futures.

Congratulations!

ON YOUR WELL-DESERVED **PLACEMENT**

We are proud of your achievement and wish you
great success in your future endeavors!



Vinay Kumar V
PRE FINAL YEAR

COMPANY NAME :
TCS PRIME

CTC :
₹ 11.59 LPA

BRANCH :
**MASTER OF
COMPUTER APPLICATION**

**tcs TATA
CONSULTANCY
SERVICES**

TCS PRIME

YOUR HARD WORK. OUR PRIDE. A BRIGHT FUTURE AHEAD!

EXCELLENCE | INNOVATION | SUCCESS

DR. AMBEDKAR INSTITUTE OF TECHNOLOGY
Building Careers. Building Nation.

“In the ever-evolving world of technology, learning goes beyond mastering programming and software. It is about transforming knowledge into practical solutions, embracing innovation, and developing the skills to create meaningful impact in the digital future.”

CIVIL ENGINEERING

ABOUT THE PROGRAMME



Civil Engineering is one of the oldest programme in Dr. Ambedkar Institute of Technology, established in the year 1980. Under the School of Core Engineering & Technology, the Civil Engineering programme offers BE Degree apart from M.Tech degree course in Structural Engineering. The programme is strong in the fields of Structural Engineering, Environmental Engineering, Hydraulics and Water Resources, Geotechnical Engineering and Remote Sensing and GIS. It has well established state of the art laboratories viz. CAD Lab, Building Materials Testing Lab, Environmental Engg. Lab, Geotechnical Engg. Lab, Survey Lab and Highway Engg. Lab. It has been recognized as a Research Centre under Visvesvaraya Technological University, Belgaum and has facilities for carrying out research in the above said areas.

The department promotes experiential learning, research, industry interaction, and entrepreneurship to prepare graduates for dynamic careers in the global technology sector.

Supported by a team of experienced faculty members with expertise in Structural Engineering, Transportation Engineering, Geotechnical Engineering, Water Resources Engineering, Construction Technology, and Environmental Engineering, the programme is committed to academic excellence, innovation,, and holistic student development.

“Civil Engineering is about more than designing structures. It is about transforming ideas into foundations, connecting communities, and building infrastructure that stands as a lasting contribution to society and the future.”

FACULTY DEVELOPMENT PROGRAMME

Two days FDP on “Outcome Based Education and NBA Accreditation Strategies” Conducted on 28/03/2026 and 04/04/2026 April for the faculties of the School of Core Engineering & Technology, Dr.AIT. This FDP aims to create awareness among the faculties on NBA accreditation processes and its procedure involved in it. Dr. N C Shivaprakash, Chief Academic Mentor, Dr.AIT, shared his thoughts and also educated faculties about the preparation and the procedures involved in the NBA accreditation processes.



STUDENTS PARTICIPATION

Mr. Advait Kolkar (1DA24CV402), 6th semester student of Civil Engineering, Dr.AIT Participated in National Quantum Summit on 16th & 17th April 2026 at VTU Belagavi. The event served as an excellent platform to highlight the student's commitment to academic excellence, industry-oriented learning, innovation, and holistic student development.



SKILL LAB ACTIVITIES – II SEMESTER

The programme organized **Skill Lab sessions** for second-semester students to strengthen their basic engineering knowledge and thinking skills. Students actively participated in practical exercises designed to enhance logical reasoning, problem-solving abilities, and collaborative learning.

The hands-on sessions provided valuable exposure to real-world civil engineering concepts and laid a strong technical foundation for advanced coursework.



SKILL LAB ACTIVITIES – IV SEMESTER

Skill lab for 4th Semester Students of civil engineering conducted from 11/04/2026 for a week. Hands on training on brick laying, masonry construction, mortar preparation, plastering, tiles laying and etc., are provided under the guidance of industry persons. Also, training on basic softwares of civil engineering, carpentry and plumbing works also provided.

The programme encouraged creativity, teamwork, and innovation while preparing students to build intelligent solutions for real-world applications.



MAY – JUNE 2026 HIGHLIGHTS

TECHNICAL TRAINING PROGRAM

One day demo session on DGPS is organized on 06/05/2026 for 4th Semester Students. The demo was conducted by M/S Indus Instruments, Chennai. This session provided the knowledge of latest technologies available and its demonstration in the field of surveying.

Students of 4th semester civil engineering, actively participated in this event and learnt the technical significance of DGPS in modern surveying.



One Day Training Program on “Energy Conservation and Sustainable Building Code, KREDL” Conducted on 16th June 2026. The program is organized by the School of Core Engineering & Technology in association with Karnataka Renewable Energy Development Limited, Government of Karnataka. This program enhanced the knowledge of faculties about various building codes available and its application in order to sustainable management in the construction industries.



FACULTY ARTICLE

INDIA'S OLDEST WORKING AQUEDUCT

Aqueducts are engineering structures built to carry canals across natural or man-made obstacles such as rivers, roads, and valleys. One of India's earliest and most remarkable examples is the **Bangaradoddi Aqueduct** at **Srirangapatna, Mandya District**, believed to be the **first aqueduct constructed in India**.

The story behind its construction dates back to **1646–1648 AD** during the reign of **Ranadhira Kanthirava Narasaraja Wodeyar**, the courageous ruler of Mysore. According to historical accounts, after overcoming several personal and political challenges, including an incident involving **Doddamanni**, whom he later married, the king sought to create a lasting public welfare project in her honour. He affectionately called her "Doddi," inspiring the names **Bangaradoddi Dam** and **Bangaradoddi Canal**.

Although **Srirangapatna** is surrounded by the **River Cauvery**, the region often suffered from water scarcity due to the absence of an effective irrigation and drinking water distribution system. To address this, the king constructed a dam across the **Paschimavahini branch of the Cauvery** and developed the Bangaradoddi Canal. A major engineering challenge arose when the canal had to cross the Cauvery River to reach the town. This led to the construction of a unique elevated canal, now recognized as India's first aqueduct.

The aqueduct measures approximately **450 feet in length**, **15 feet in width**, and **5 feet in depth**, standing nearly **50 feet above the river level**. It was constructed entirely using **stone masonry and lime mortar**, supported by rows of stone pillars, beams, and slabs. The structure was ingeniously divided into **three channels**: one supplied drinking water to the **Srirangapatna Fort**, another served **Ganjam town**, and the third provided irrigation to surrounding agricultural lands.

Originally extending nearly **nine miles**, the Bangaradoddi Canal now covers about **five miles**, continuing to irrigate nearly **900 acres of farmland**. Despite being more than **370 years old**, the aqueduct remains functional, demonstrating the exceptional engineering knowledge of the Mysore Kingdom. Successive rulers periodically restored the structure, and after Independence, it also served as a road bridge before a new road and modern aqueduct were constructed nearby to preserve the historic monument.

The Bangaradoddi Aqueduct is not only a remarkable example of ancient hydraulic engineering but also an important subject of study for civil engineering students. Built entirely with indigenous technology and without deep foundations, it has withstood centuries of flowing water, proving the durability and ingenuity of traditional Indian engineering. Today, it stands as a symbol of the visionary leadership of **Ranadhira Kanthirava Narasaraja Wodeyar**, the rich engineering heritage of Karnataka, and India's remarkable contribution to civil engineering history.



Mr. Shreyas H C,
Assistant Professor,
Civil Engg., Dr.AIT.
Mobile no.: 8722290569

MECHANICAL ENGINEERING

ABOUT THE DEPARTMENT



Mechanical engineering is one of the oldest and broadest engineering discipline, and plays a significant role in enhancing safety, economic vitality, enjoyment and overall quality of life throughout the world. A prerequisite for development is growth and that is directly related to production or output of a country. If production is done via a sustainable path it can maintain the sustainability of development.

A warm and green greetings from the Department of Mechanical Engineering at Dr. Ambedkar Institute of Technology, Bengaluru. The college has been simply unstoppable in its progress as it has been actively involved in various activities that have brought to light the hidden talents of the college students and staff. Mechanical Engineering is a professional Core engineering discipline that deals with the design, production and maintenance of any produce of any industry. The pride of every student and staff would be in his/her department and college.

Our department has a team of highly qualified and experienced faculty, good infrastructure and lab facilities. We are striving hard continuously to improve upon the quality of education and to maintain its position of leadership in engineering and technology. We always work with the motto "Nothing can be achieved without genuine effort." The core values of the department help the students to develop their overall personality and make them worthy to compete and work at global level. Our faculty are continuously attending various training programs, publishing research papers, books and filing patents. Many are pursuing research. Our department has been conducting seminar / conferences to keep the faculty and students abreast with the latest developments in the field of technical education. We are happy to share that many students are pursuing higher studies in leading universities in India and abroad. I am certain that our students will prove to be an invaluable asset to an organization. We Mechanical engineers are bound to build the nation.

“Mechanical Engineering transforms scientific principles into motion, machines, and meaningful solutions. Through innovation, design, and practical thinking, we continue to engineer technologies that drive progress and shape the world around us.”

PANCHAJANYA VIDYAPEETHA MEGA EDUCATION EXPO 2026

The Department of mechanical engineering actively participated in the Panchajanya Vidyapeetha Mega Education Expo 2026, showcasing the department's academic programs, innovative student projects, and learning initiatives. Faculty members and students interacted with prospective students and parents, providing insights into the Mechanical curriculum, emerging technologies, and career opportunities.

The event served as an excellent platform to highlight the department's commitment to academic excellence, industry-oriented learning, innovation, and holistic student development.



SKILL LAB ACTIVITIES – IV SEMESTER

Driving Future Tech: A Week of Hands-On Innovation

How a dynamic six-day immersive workshop empowered fresh engineering minds to bridge the gap between academic theory and disruptive industrial technology.

The Department of Mechanical Engineering successfully kickstarted the academic year by completely immersing its first-semester students in the rapidly evolving frontiers of modern engineering. From **April 6 to April 11, 2026**, the campus transformed into a vibrant hub of technical discovery as freshmen stepped out of traditional lecture halls and directly into an intensive, hands-on workshop. The week-long program focused heavily on major foundational pillars of modern industry: **Electric Vehicles (EV), 3D Printing, Embedded Systems, and Real-Time Robot Programming using Embedded C.**

By introducing these advanced concepts right at the inception of the students' academic journey, the initiative aimed to dismantle the traditional silos between distinct engineering streams, demonstrating how mechanical systems seamlessly blend with intelligent hardware and electronic control architectures.

Bridging Infrastructure with Industry Expertise

True engineering education thrives when state-of-the-art infrastructure meets seasoned industrial wisdom. Over the course of the six days, the workshop was actively distributed across multiple advanced campus facilities, including the **Electrical Machines Laboratory**, the **3D Printing Laboratory**, and **Room S-201**. These spaces allowed students to transition effortlessly from digital design phases to live physical testing.

To ensure that the learning paradigms aligned perfectly with current corporate standards, the department partnered with premier industry engineering firms: **TAMHAT Technologies** and **Technofly Bengaluru**. The workshop featured a stellar lineup of industry leaders and domain experts who served as resource persons, bringing invaluable real-world insights directly to the students:

- **Dr. Anjan B. N.** – Provided vital conceptual clarity on embedded systems design and industrial electronics.
- **Mr. Arunkumar V.** – Guided students through the architecture, battery management systems, and power-trains of Electric Vehicles (EVs).
- **Abzal Nawaz** – Led the hands-on sessions on additively manufactured prototypes and 3D printing workflows.
- **Mahabunni Nawaz** – Instructed students on real-time robot programming, showcasing how to compile and flash Embedded C code onto microcontrollers.

A Visionary Leadership and Organizing Framework

The flawless execution of this multi-venue, high-tech program was driven entirely by the visionary leadership and rigorous planning of the Mechanical Engineering Department's specialized committees. The collaborative initiative was spearheaded and managed seamlessly by the leadership team alongside a dedicated faculty executing body:

- **Coordinators & Department Leadership:**
 - **Dr. Gangadhar N.** (HOD / HOS)
 - **Dr. Sathish S.**
 - **Dr. S. Kavitha**
- **Faculty Organizing Team:**
 - **Dr. Rajesh M.**
 - **Mr. K. C. Byregowda**
 - **Dr. Jayanth H.**
 - **Mr. R. Chandan**
 - **Rathika M.**

Through their coordinated coordination, the team managed logistics across separate laboratories, ensuring that every student received personalized, small-group mentorship from both faculty and visiting industry experts.

Cultivating the Engineers of Tomorrow

Rather than relying on passive learning, the workshop was built around an experiential project-based model. By working in close-knit groups, students were forced to deal with realistic engineering design problems, such as troubleshooting buggy Embedded C code or configuring micro-actuators. This pedagogical approach successfully nurtured an environment of intense creativity, critical thinking, and rapid collaborative teamwork.

Ultimately, the workshop achieved its primary goal: it inspired the department's youngest engineering minds to look past theoretical boundaries and confidently design innovative, intelligent software-driven solutions for tomorrow's real-world applications. As these first-semester students advance through their coursework, the solid foundation built during this intensive week will undoubtedly shape their academic pursuits, project choices, and eventual careers in innovatio

FACULTY PUBLICATIONS

Faculty Laurels: 'Best Paper Award' at International Conference (ICAMST-2026)

The Department of Mechanical Engineering proudly celebrates a remarkable research milestone achieved by our faculty. **Mr. N. Srinivasu** (Assistant Professor & Corresponding Author), alongside his co-authors **Ratika M., Gangadhar N., Dr. Shivappa H. A., Preethi K., Vishwanath M. M. K.** (Dr. AIT) was honored with the prestigious **Best Paper (Best Oral) Award** at the International Conference on *"Advanced Materials for Sustainable Technologies (ICAMST-2026)"*.

Organized by the PG & Research Department of Chemistry at PSGR Krishnammal College for Women, Coimbatore, on January 8–9, 2026, the conference recognized their outstanding paper, **"Optimizing Tensile Performance in Carbide Austempered Ductile Iron through Controlled Austempering Conditions"**. The award-winning study addresses the optimization of Carbide Austempered Ductile Iron (CADI) through systematic control of austempering cycles to enhance structural integrity and the tensile-to-yield ratio. The department heartily congratulates the entire team on this exemplary academic recognition

Faculty Research Breakthrough in Advanced Materials / ICR CET 2026

A collaborative research paper co-authored by the faculty members of the Department of Mechanical Engineering was recently published under the IFRP Academy / ICR CET platform. The paper, titled **"Mechanistic Investigation into the Ausferritic Transformation and Tensile Evolution of Carbide Ductile Iron,"** features dedicated work by **Srinivasu N, Dr. Gangadhar N, Dr. Shivappa H.A, Dr. Preethi K, and Ratika M** from Dr. Ambedkar Institute of Technology,

The study focuses on optimizing the tensile performance of Carbide Austempered Ductile Iron (CADI) utilizing Taguchi optimization and ANOVA methods. Their experimental framework yielded a remarkable milestone, achieving a peak Ultimate Tensile Strength (UTS) of 505.6 MPa at an isothermal temperature of 375°C—representing a significant 20% improvement over the standard as-cast baseline. The department congratulates the team on this vital contribution to materials science engineering!

Faculty Presentation at International Conference IESAME-2026

The Department of Mechanical Engineering is proud to share that **Srinivasu N**, Assistant Professor, successfully presented his research paper at the International Conference on *"Innovations, Emerging Trends & Sustainable Advancements in Mechanical Engineering"* (IESAME-2026). The prestigious event was organized by the Department of Mechanical Engineering at R R Institute of Technology, Bangalore, on May 25, 2026. His paper, titled **"Development of a Multi-Degree-of-Freedom Morphing Wing UAV Using Compliant PLA Ribs and Active Servo Actuation,"** highlights cutting-edge advancements in unmanned aerial vehicle design. The department congratulates him on contributing to global engineering innovations!

PLACEMENT HIGHLIGHTS

Engineering the Future: Mechanical Department Secures Stellar Placements

The Department of Mechanical Engineering is proud to celebrate a phenomenal placement season, with **22 landmark offers** secured by our graduating batch in the "**Campus Selects.xlsx**" report. Demonstrating exceptional technical depth and adaptability, our students have successfully stepped into coveted roles spanning core industrial giants, technical consultancies, and next-generation global engineering firms.

Core Industrial Powerhouses Lead the Charge

Underscoring the high industry demand for our core engineering talent, global heavyweights and automation pioneers have recruited heavily from our department this year:

- **Johnson Controls & Innova Air Products** welcomed our graduates as Graduate Engineer Trainees (GET), setting a strong foundation for their corporate engineering careers.
- **QUEST Global Engineering & Rinac** absorbed top minds into specialized engineering and quality control domains.
- **Teamlease (Delphi TVS)** emerged as a major recruitment partner, selecting multiple students to spearhead high-precision production roles.

Breaking Boundaries in New-Age Domains

Beyond traditional manufacturing, our mechanical engineers have proven their versatility by clinching high-impact roles in software development, technical authoring, and specialized consulting:

- **Gemba Concepts** acquired top talent for lean management consulting.
- **Siphal Technologies & Qspider** opened avenues in advanced technical communication and software architecture.

Top Package Achievers

- **Raghavendra C (1DA23ME436)** – *GET / Lean Consultant* at Gemba Concepts (**6.00 LPA**)
- **Suhas Prajwal A R (1DA22ME063)** – *Business Development Associate* at Krutanic (**5.50 LPA**)
- **Dhanush Kumar A (1DA22ME017)** – *Graduate Engineer Trainee* at Johnson Controls (**5.00 LPA**)
- **Sumit Irayya Salimath (1DA22ME065)** – *International Sales Specialist* at Codeyoung (**Up to 8.36 LPA**)

"Our students continue to redefine what it means to be a modern mechanical engineer. Whether optimization happens on a heavy factory floor or within digital workflows, their foundational problem-solving skills make them invaluable assets to the global workforce."

Heartiest congratulations to all our placed students! You have set an inspiring benchmark for the entire department and the batches to come.

FACULTY CONTRIBUTION IN NPTEL AWARDS

Setting Benchmarks in Higher Education: Mechanical Engineering Faculty Shine at NPTEL Awards

The Department of Mechanical Engineering has once again solidified its reputation for academic rigor and continuous learning, as two of its distinguished faculty members clinched top nationwide honors from NPTEL-SWAYAM for the Jan–Apr 2026 semester. National Programme on Technology Enhanced Learning (NPTEL), an initiative by the IITs and IISc, is widely recognized as one of the country's most rigorous platforms for advanced engineering education. To excel here requires an immense depth of subject matter expertise, a feat made clear by the exceptional achievements of our faculty.

A Rare Dual Triumph

The department proudly celebrates **Dr. Gangadhar N** and **Dr Mohan Kumar B**, both of whom have been recognized as elite "Stars" in their respective paths, showcasing that our educators remain at the absolute forefront of engineering advancements.

- **Dr. Gangadhar N – The 'NPTEL Super Star'** Dr. Gangadhar N has been awarded the prestigious Certificate of Appreciation for being recognized as an **NPTEL Super Star**. This premier badge is strictly reserved for academic high-achievers who take on multiple grueling exams in a single semester (appearing in 4, 5, 6, or 7 exams) and successfully emerge as the nationwide topper in at least 3 subjects. His achievement underscores an unparalleled mastery across diverse mechanical domains.
- **Prof. Mohan Kumar B – The 'NPTEL Discipline Star'** Simultaneously, Prof. Mohan Kumar B has been honored with the coveted title of **NPTEL Discipline Star**. This long-term dedication award recognizes educators who immerse themselves in continuous learning within their core field for more than 50 weeks, maintaining a consistently high standard by securing a final score of 55 across all subjects. His persistence mirrors the department's commitment to lifelong learning and deep pedagogical development.



Inspiring the Next Generation: These extraordinary faculty accolades do more than just add to the department's growing trophy cabinet; they directly impact the classroom. By continuously testing their limits on national platforms, our professors bring cutting-edge insights and updated industry methodologies straight to the students, keeping our curriculum dynamic and competitive.

The entire institution extends its warmest congratulations to Dr. Gangadhar N and Prof. Mohan Kumar B. Thank you for leading by example and setting an inspiring standard for both your peers and the student community!

FACULTY ARTICLE

The Shadow of Conflict: The Iran–Israel War and Its Impact on the Indian Economy

The recent escalation of tensions between **Iran and Israel** has created global geopolitical uncertainty, with significant economic implications for countries like **India**, which relies heavily on international trade and energy imports.

One of the most immediate effects is the rise in **crude oil prices**. As India imports a major portion of its oil, disruptions in the Middle East, particularly around the **Strait of Hormuz**, can increase fuel costs, leading to higher transportation, manufacturing, and logistics expenses. This ultimately contributes to inflation and affects the prices of essential goods and services.

The conflict also impacts global trade by increasing shipping delays, freight charges, and insurance costs. These challenges raise the cost of imports and reduce the competitiveness of Indian exports. Financial markets often experience volatility during such crises, with investors turning to safer assets like gold, while the **Indian Rupee** may weaken against the US Dollar, making imports more expensive.

Despite these challenges, India's strong economic fundamentals, diversified trade partnerships, and prudent fiscal and monetary policies provide resilience against external shocks. The situation highlights the importance of strengthening domestic manufacturing, energy security, and global trade diversification to ensure long-term economic stability.



Srinivasu . N
Assistant Professor

STUDENT ARTICLE

Skyward Shift: The Rapid Evolution of Drones in Indian Airspace

India's drone ecosystem is witnessing remarkable growth, transforming from a niche technology into a key driver of innovation across industries. Supported by progressive government policies and the vision of making India a **global drone hub by 2030**, drones are now playing an important role in agriculture, infrastructure inspection, surveying, logistics, disaster management, healthcare, and public safety.

This rapid expansion has created new opportunities for engineering innovation, entrepreneurship, and employment. The growing demand for drone technology is also accelerating advancements in robotics, artificial intelligence, embedded systems, advanced materials, battery technology, and data analytics, strengthening India's deep-tech ecosystem.

Despite this progress, challenges remain. The industry continues to depend on imported electronic components, sensors, and semiconductor technologies. Strengthening indigenous manufacturing, encouraging research and development, and promoting collaboration between academia and industry will be essential for building a self-reliant drone ecosystem.

The evolution of drones represents more than technological advancement; it reflects India's commitment to innovation, digital transformation, and sustainable economic growth. For engineering students, this emerging sector offers exciting opportunities to contribute to the future of intelligent aviation and next-generation technological solutions.



Hishmith V Vardhan

SCHOOL OF ELECTRICAL, ELECTRONICS SCIENCES & ENGINEERING

ELECTRICAL AND ELECTRONICS ENGINEERING

ABOUT THE PROGRAMME

The **Department of Electrical and Electronics Engineering (EEE)** at **Dr. Ambedkar Institute of Technology, Bengaluru**, was established in **1980–81** with an initial intake of 40 students, later increased to 60. The department also offers an **M.Tech programme in Power Electronics** and is a **VTU-recognized Research Centre**, offering **M.Sc. (Engineering) by Research** and **Ph.D. programmes**. Currently, **17 research scholars** are pursuing doctoral studies.

The department is accredited by the **National Board of Accreditation (NBA)** and functions under the autonomous academic framework of the institution. It has a dedicated team of **15 faculty members**, including **6 doctorates**, specializing in Power Electronics, Power Systems, High Voltage Engineering, and allied areas. Faculty members actively contribute to research through publications in reputed national and international journals and are members of professional bodies such as **IEEE, IE(I), and ISTE**.

The department is committed to promoting research, innovation, and industry collaboration through sponsored projects funded by organizations such as **AICTE, VTU, VGST, and PVP Welfare Trust**, while also undertaking consultancy activities.

Equipped with modern laboratories and advanced software tools including **MATLAB, PSIM, and Keil**, along with **Texas Instruments development boards**, the department provides students with extensive hands-on learning opportunities. Strong collaborations with industries such as **Infosys, TCS, Wistron, and Electronono Solutions** facilitate internships, industrial visits, workshops, and career opportunities.

With a focus on academic excellence, research, innovation, and industry-oriented learning, the Department of Electrical and Electronics Engineering strives to develop technically competent, ethically responsible, and globally competitive engineers prepared to address the evolving challenges of the engineering profession.

INDUSTRY VISIT



Mr. Putranja Naik, VIII Sem. student has Participated in the international exhibition (Electrical Asia from May 14th to 17th 2026)



IV Sem. Students along with faculty members have visited the international exhibition centre (Electrical Asia) on May 16th 2026

PhD Award



Smt. Padmashree V Kulkarni has completed Final defence for the award of PhD under the guidance of Dr. H V Govindaraju on 11th April- 2026.

Publications:

International conference

Dhanvi S, H V Govindaraju “Performance analysis and harmonic mitigation of a Grid connected Three phase UPS inverter using SPWM and LC filter in MATLAB/ Simulink” ICDS (IEEE) during 25-27 June 2026.

“Electrical and Electronics Engineering powers the world through innovation, energy, and intelligent technology. By transforming scientific principles into practical solutions, we continue to create systems that drive progress and shape a smarter, sustainable future.”

ELECTRONICS & COMMUNICATION ENGINEERING

ABOUT THE PROGRAMME

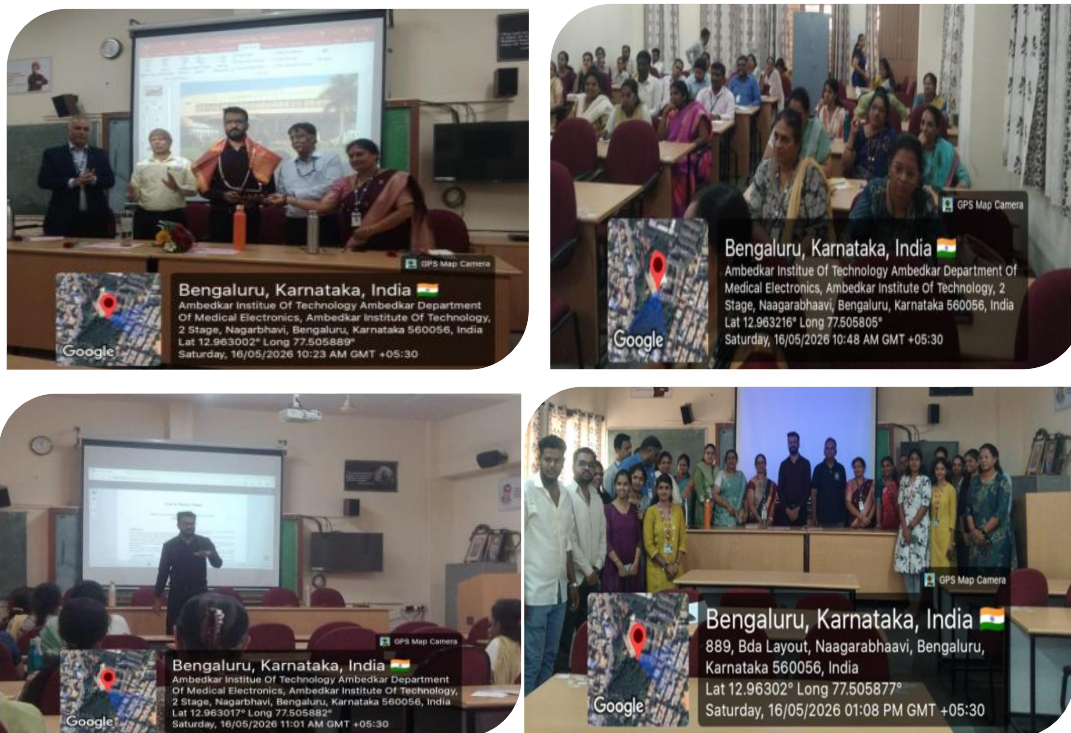
The Department of Electronics and Communication Engineering (ECE) at Dr. Ambedkar Institute of Technology focuses on developing strong foundations in **electronics, communication systems, signal processing, VLSI, embedded systems, and Internet of Things (IoT)**. The department encourages students to combine theoretical knowledge with practical learning, innovation, research, and emerging technologies.

With emphasis on areas such as **6G communication, wireless networks, FPGA-based signal processing, microelectronics, computer networks, cryptography, blockchain, embedded systems, and Industry 4.0**, the department provides a platform for exploring the evolving landscape of electronics and communication engineering. Faculty and students are encouraged to pursue continuous learning, technical activities, and research-oriented initiatives.

The department strives to nurture technically skilled and innovative professionals who can contribute to the rapidly changing fields of electronics, communication, and digital technology.

“Connecting communication, electronics, and innovation to build the technologies of tomorrow.”

TECHNICAL ACTIVITIES & RESEARCH EXPOSURE



As part of its technical initiatives during **April–June 2026**, the department organized a one-day workshop on **“Exploring the IEEE Conference, Its Challenges and Opportunities”** on **16 May 2026**. The session was conducted by **Dr. Gururaj H. L., Program Head (Cyber Security), MAHE Bengaluru**, and focused on strengthening awareness of research publication and scholarly communication.

The workshop covered important aspects of **IEEE paper writing, conference publication procedures, indexing systems, research ethics, plagiarism control, and AI-assisted research methodologies**. Participants also gained practical insights into selecting meaningful research topics, improving the quality of technical papers, preparing research presentations, and understanding the publication review process.

The initiative provided students with greater exposure to contemporary research practices and encouraged them to participate actively in **innovation, technical writing, research, and scholarly activities**. It also highlighted the growing role of modern AI tools in supporting technical research and communication.

FACULTY NPTEL ACHIEVEMENTS

Faculty members of the department demonstrated continued engagement in professional learning through **NPTEL courses** covering diverse and emerging areas of electronics and communication engineering. The courses included **Design Thinking, 6G Communications Networks, Internet of Things, VLSI Design Flow, IoT & Embedded Systems, Microelectronics, FPGA-Based Signal Processing Systems, Computer Networks, Cryptography & Network Security, Blockchain, Signal Processing Techniques, Embedded Sensing and Actuation, Industry 4.0 and Industrial IoT, Research Methodology, and Deep Learning for Natural Language Processing**.

Several faculty members achieved **Elite** certification, while others secured **Elite + Silver** and **Topper 2%** recognition. These achievements reflect the department's emphasis on continuous professional development and keeping pace with advancements in technology and engineering education.

PLACEMENT & CAREER HIGHLIGHTS

The department's students secured opportunities across a range of organizations in technology, electronics, engineering, IT services, and related sectors. The placement records provided by the department include companies such as **Johnson Controls, Infosys, IBM India, Siemens, K12 Techno Services, Microland, Rosell Techsys, Silicon Microsystems, Yokogawa, TCS, K12 Techno Services, TeamLease, and other organizations**.

The reported placement packages demonstrate opportunities across different career profiles and organizations. The supplied placement data includes packages ranging from approximately **₹3 LPA to ₹12.25 LPA**, along with higher package figures reported for selected students, including **₹25.5 lakh** in the listed placement records.

Students were placed with organizations including **Infosys at ₹3.6 LPA, Johnson Controls at ₹5 LPA, K12 Techno Services at ₹4–6 LPA, Siemens at ₹5 LPA, Rosell Techsys at ₹5 LPA, and IBM India at ₹12.25 LPA**.

The placement records also include opportunities through organizations such as **Palle Technologies, GenZ Educate, Rinex Technologies, Krutanic, Jaro Education, WIZZY BOX, and other recruiting organizations**, reflecting the varied career pathways available to ECE graduates.

Bridging Learning with Industry

The combination of technical workshops, continuous faculty learning, research-oriented activities, and placement opportunities demonstrates the department's focus on connecting **academic knowledge with professional and technological applications**. Students are encouraged to build technical competencies, explore emerging fields, participate in research and innovation, and prepare themselves for diverse career opportunities in the electronics and communication domain.

“Connecting communication, electronics, and innovation to build the technologies of tomorrow.”

ELECTRONICS AND TELECOMMUNICATION ENGINEERING

ABOUT THE PROGRAMME

The department of Telecommunication Engineering was established in the year 1991. The department changed its nomenclature from Telecommunication Engineering to Electronics and Telecommunication Engineering in 2018. The department offers B.E program in Electronics and Telecommunication Engineering, M.Sc. (Engineering) and Ph.D. programs by research. The B.E: program is under autonomous scheme under Visvesvaraya Technological University since 2010. The Research & Development centre is recognised under Visvesvaraya Technological University. Currently the department is working in AICTE and VGST sponsored projects. The department is having well qualified, experienced and doctorate faculty members. The department laboratories are equipped with the state-of-the-art equipment's and software tools. The UG has got accredited by NBA from 2022-23 to 2024-25

1. Skill Laboratory on **“Skill Lab on Smart Methods of Electronics Signal Controls”** for 2nd semester students was conducted from 06.04.2026 to 11.04.2026.



2. One Day workshop on **“Technical Forum on BIS Products”** was conducted on 08.05.2026 for 1st and 2nd year students.



3. Skill laboratory on **“Embedded Systems using Python and Raspberry Pi PICO”**, for 4th semester students was conducted between 11-04-2026 to 16-05-2026.



Workshop/FDP/Conference/Seminars /Training Programs / Technical Events / Industrial Visit / Webinars / Sports / MOOC/ NPTEL Courses (Attended):

1. Dr Praveen KB participated in the one-day seminar on “Federated Learning: Privacy Preserving in Artificial Intelligence”, organized by the Department of Computer Science and Engineering, Visakha Institute of Engineering and Technology (Autonomous), Vishakapatnam, Andhra Pradesh, held in online mode on 26th June 2026.

WORKSHOP/FDP/CONFERENCE/SEMINARS /TRAINING PROGRAMS / TECHNICAL EVENTS / INDUSTRIAL VISIT / WEBINARS / SPORTS / MOOC/ NPTEL COURSES (ORGANIZED):

1. One Day workshop on **“Technical Forum on BIS Products”** was conducted on 08.05.2026 for 1st and 2nd year students.



Publications:

1. Sudha H Thimmaiah and Yamuna Devi CR published a paper on “Performance Analysis of Node Density and Estimation of Ranges using ToA method for WSNs“ in INTERNATIONAL JOURNAL OF CREATIVE RESEARCH THOUGHTS - IJCRT in June 2022, Volume 14, Issue 5 May 2026, ISSN 2320-2882.
2. Shilpa S, Dr. Vinodkumar K P, Dr. B Shivakumar, Dr. Mohan kumar B published a paper on “A Novel ROI-Based Medical Image Compression Using Hybrid Deep Learning and Adaptive Encoding “ in Studi Medievali Volume 23 Issue 6 2026, ISSN:0391-8467.
3. Praveen KB, Rajeswari, Divya published a paper on “Adaptive Trust-Based Byzantine Detection using Machine Learning in Wireless Sensor Networks” in TANZ Research Journal, Volume 12, Issue 6, June 2026, ISSN:1869-7720.
4. Kamala C published a paper on “A Hybrid Deep Learning Architecture for Detecting Synthetic Speech Threats in Cybersecurity” in 6th International Conference on Intelligent Technologies (CONIT 2026) conducted on 19th to 21st June 2026.
5. Kavitha Narayan BM, Smitha Elsa Peter and Siddesha K published a paper on “Secure Sensor-Based Learning Analytics for Students with Disabilities Using Blockchain and Hybrid Artificial Intelligence” in International Journal of Special Education(Q3) p-ISSN: 0827-3383 e-ISSN: 1917-7844 , [Vol. 41 No. 8s \(2026\)](#), 776–790 June 2026.

Achievements & awards:



Dr. Praveen K. B., Assistant Professor, Department of Electronics & Telecommunication Engineering has successfully completed the prestigious NCC Officers Training PRCN Course of 90 Days, held from January 5, 2026, to April 4, 2026, at the NCC Officers Training Academy (OTA), Kamptee, Nagpur, Maharashtra.

Upon the successful completion of this rigorous training program, Dr. Praveen K. B. has been commissioned with the rank of Lieutenant by the Directorate General of the National Cadet Corps (DGNCC). This commissioning marks a significant milestone, recognizing his dedication, perseverance, and commitment to excellence.

Electronics & Telecommunication Engineering: Connecting Technology, Transforming Tomorrow

The **Electronics & Telecommunication Engineering (ETE)** discipline plays a vital role in building the connected world. From wireless communication and networking to electronic systems and emerging digital technologies, the field brings together innovation, communication, and engineering to solve real-world challenges.

With the rapid growth of **5G and next-generation communication, IoT, embedded systems, signal processing, and smart technologies**, ETE continues to create exciting opportunities for students and professionals.

The programme encourages students to develop strong technical fundamentals, practical skills, problem-solving abilities, and an innovative mindset. Through laboratory learning, projects, industry interaction, and hands-on experiences, students gain exposure to technologies that are shaping modern communication systems.

A Thought for ETE

“Communication connects people, technology connects possibilities, and innovation transforms those possibilities into the future.”

“Electronics and Telecommunication Engineering connects ideas, people, and possibilities through the power of technology. By exploring communication systems, intelligent electronics, and emerging innovations, we prepare to build a more connected and technologically advanced future.”

ELECTRONICS AND INSTRUMENTATION ENGINEERING

ABOUT THE PROGRAMME

The **Department of Electronics and Instrumentation Engineering (EIE)**, formerly known as the **Department of Instrumentation Technology**, was established in **1985–86** with an initial intake of **40 students**, which was later increased to **60** in 2012. The department was renamed by **Visvesvaraya Technological University (VTU), Belagavi** during the academic year **2014–15** to reflect advancements in the discipline.

The department is **NBA accredited** and has consistently maintained high academic standards through quality education, research, and industry-oriented learning. It functions under the autonomous framework of Dr. Ambedkar Institute of Technology and is supported by the **Government of Karnataka**.

The department has a dedicated team of **12 faculty members**, including **5 doctorates**, with expertise in areas such as **Control Systems, Robotics, Image Processing, VLSI, Automation, and Embedded Systems**. Faculty members actively contribute to research through publications in reputed national and international journals and are members of professional bodies such as **IEEE, IE(I), ISTE, and ISA**.

Equipped with modern laboratories and advanced infrastructure, the department provides students with hands-on learning experiences aligned with current industry requirements. The department also undertakes sponsored research projects funded by **AICTE, VTU, VGST, PVP Welfare Trust**, and other agencies, while promoting consultancy and innovation.

With a strong emphasis on academic excellence, research, and skill development, the department has consistently achieved excellent results, maintaining an **around 80% placement rate among eligible students**. Many graduates have secured positions in leading core and allied industries, while others have pursued higher education and research in prestigious institutions across India and abroad.

JOURNAL PUBLICATIONS:

- Monikashree T S, Kendagannaswamy S, **A Detailed Review of LFSR and NFSR-Based Stream Cipher Approaches on a Hardware Platform**, IAENG International Journal of Computer Science, Volume 53, Issue No. 2, February 2026, 1819-9224 1819-656X (print version) pp. 632-643.
- S. Nikhila, Dr.V.S. Krushnasamy, **AI-Based Hybrid Framework for Secure Medical Image Denoising and Transmission Using Transformer-Enhanced U-Net Algorithm**, Journal of wireless mobile networks, ubiquitous Computing and dependable applications (JoWUA), Volume 17, 31 January 2026, ISSN: 2093-5374 / E-ISSN: 2093-538, Doi: 10.58346/JOWUA.2026.I1.027
- Mrs. S Nikhila, **Secure Medical Data Transmission Using a Deep Learning-Based Quantum-Resistant Hybrid Strgno-Crypto Model**, Journal of Information Technology Management, Vol.18 Issue 1, January 20, 2026 pg. 80-101, ISSN: 2980-7972, DOI: <https://doi.org/10.22059/jitm.2026.106255>.

INTERNATIONAL CONFERENCE:

- Nikhila S, **A High-Performance Intelligent Traffic Light Controller using STM32: Design and Experimental Evaluation**, 9th IEEE International Conference on CSITSS @ 2025 at RV university, Bangalore on April 2026, ISSN: 2980-7972, DOI: DOI: 10.1109/CSITSS67709.2025.11294477.

“Electronics and Instrumentation Engineering brings intelligence and precision to the systems that shape modern industry. By combining electronics, measurement, control, and automation, we develop solutions that make technology smarter, safer, and more efficient.”

SKILL LAB FOR 2ND SEMESTER:

Skill lab for 2nd Semester Students of Electronics and Instrumentation Engineering conducted from 02/07/2026 for a week. Hands on training on IoT and Arduino-based embedded systems was conducted by Mr. P M Prabhu from Avinya Networks.



SKILL LAB FOR 4TH SEMESTER:

Skill lab for 4th Semester Students of Electronics and Instrumentation Engineering conducted from 23/02/2026 for a week. Hands on training on VLSI Design was conducted by Mr. George Jacob, Ms. Albeena Thomas from Semicon Industries.



Technical Fest: TECHKSHETRA 2026

The Department of Electronics and Instrumentation Engineering successfully organized Techkshetra 2026, a vibrant technical fest that commenced with the official logo launch ceremony on March 24th at 11:00 AM. The logo launch was conducted in the esteemed presence of the Dr. Ganapati V Sagar (HOP), department faculty, Techkshetra faculty coordinators, and students, marking the formal beginning of the fest and symbolizing innovation and unity within the department. There were technical and non-technical event under Techkshetra 2k26 namely

- Tech Relay (Technical Event)
- Fun Games (Non-technical Event)



Industry Visit by Faculty:

The faculty members Dr. Ganapathi V Sagar, Dr. Sridevi N, Dr. Shubha P, and Ms. Sheetal N from the Department of Electronics and Instrumentation Engineering, Dr. Ambedkar Institute of Technology visited DiFACTO Robotics and Automation Pvt. Ltd. on 09-01-2026 as part of an academic and industrial interaction program. The primary objective of the visit was to understand the multidisciplinary training methodologies and industrial practices adopted at DiFACTO in various technical domains, and to explore opportunities for skill development aligned with current industry requirements. The visit also aimed at gaining insights into modern industrial automation technologies, industry-oriented training practices, advanced robotic systems, and infrastructure that help bridge the gap between academia and industry.



Bengaluru, Karnataka, India
Bda, Ambedkar Institute Of Technology, Outer Ring Rd, Near
Gnana Bharathi, 2 Stage, Naagarabhaavi, Bengaluru, Karnataka
560056, India
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Thursday, 26/03/2026 02:56 PM GMT +05:30

SCHOOL OF APPLIED SCIENCE & HUMANITES

HUMANITIES AND SOCIAL SCIENCES PROGRAMME

ABOUT THE DEPARTMENT



Welcome to the Department of Humanities and Social Sciences at Dr. Ambedkar Institute of Technology, Bengaluru. Guided by the vision "*Beyond Technology: Expression, Ethics, and Engagement*," the department complements technical education by nurturing articulate communication, ethical and constitutional awareness, and professional sensibility among engineering students. Through a holistic, learner-centred approach, the department prepares students for professional success by fostering communication competence, critical thinking, civic responsibility, and lifelong learning beyond technical expertise.

The department specializes in enhancing communication, language proficiency, and soft skills while promoting ethical values, constitutional awareness, and professional development. It also strengthens regional language proficiency through Kannada and cultivates an appreciation of Karnataka's rich linguistic and cultural heritage. With a strong emphasis on learner-centred pedagogy, the department supports the holistic growth, employability, and overall personality development of students.

The Department of Humanities and Social Sciences offers a set of foundational and supporting courses that complement the core engineering curriculum. These include Communication Skills, Kannada, Soft Skills, and Indian Constitution and Engineering Ethics. While the Communication Skills and Soft Skills courses develop effective communication, interpersonal competence, and workplace readiness, the Kannada course promotes regional language proficiency and cultural awareness. The course on Indian Constitution and Engineering Ethics nurtures ethical reasoning, constitutional literacy, and responsible citizenship, contributing to the all-round development of future engineers.

The department also maintains a strong focus on research, academic excellence, and community engagement. Its faculty members actively contribute to scholarly research through publications in peer-reviewed journals and other academic platforms. To date, the department has published 28 research papers, including five Scopus-indexed publications, along with one granted patent and three book chapters, reflecting its commitment to innovation, knowledge creation, and academic advancement. By integrating research with teaching, the department continually enriches the learning experience and promotes intellectual inquiry among students. Beyond academics, the faculty actively organize and conduct workshops on grammar, vocabulary, writing, and presentation skills at various institutions. The department also collaborates with the NSS unit and other departments in her age walk initiatives, fostering cultural awareness, experiential learning, and meaningful community engagement.

"Humanities and Social Sciences provide the foundation for understanding people, society, values, and the world around us. By combining knowledge with communication, critical thinking, and human understanding, we prepare individuals to become responsible professionals and thoughtful contributors to society."

FACULTY RESEARCH ACHIEVEMENT

Dr. Nagarathna M. L., Assistant Professor and Counsellor, co-authored the research paper "Blockchain Technology Adoption in Supply Chain Management: An Integrated Framework of Organizational Capabilities, Adoption Barriers, and Performance Outcomes," published on 23 June 2026 in the International Journal of Computer Information Systems and Industrial Management Applications (ISSN: 2150-7988), a Q3-indexed journal.

The paper explores the factors influencing the adoption of blockchain technology in supply chain management by examining organizational capabilities, implementation barriers, and their impact on overall performance. It presents an integrated framework that offers valuable insights for organizations seeking to enhance supply chain transparency, operational efficiency, and decision-making through blockchain-enabled solutions.

FACULTY DEVELOPMENT PROGRAMME

Mrs. Prathiba D. S., Assistant Professor of English, participated in a One-Week Faculty Development Programme on "Writing and Publishing Research Papers Using Advanced AI Tools," organized by HI Learn Edutech Institute from 16 to 22 April 2026.

The FDP provided practical insights into leveraging advanced AI tools for academic research, manuscript preparation, and scholarly publishing. It enhanced participants' understanding of ethical AI-assisted research writing, improving the quality, efficiency, and effectiveness of research paper development and publication.

EXPERT SESSION

Dr. Nagarathna M. L., Assistant Professor and Counsellor, delivered an expert session on "Personality Development" during the Phase II Induction Programme for first-year engineering students on 27 April 2026 at the JPN Auditorium.

The session focused on the importance of self-awareness, effective communication, emotional intelligence, and positive personality traits in achieving personal and professional success. It motivated students to develop confidence, interpersonal skills, and a growth mindset, equipping them with essential life skills for academic excellence and future career development.

ACADEMIC COORDINATION

Geetha H., Assistant Professor of English, served as one of the organizers of the Phase II Induction Programme for first-year engineering students, conducted during April–May 2026.

As a member of the organizing team, she contributed to the successful planning and coordination of the programme, ensuring its smooth execution. The induction programme helped students transition into the engineering environment by familiarizing them with the institution, fostering personal development, and preparing them for academic and professional success.

FACULTY ARTICLE

FABLES IN THE DIGITAL AGE: CAN THEY STILL SHAPE VALUES?

An innocent conversation with my eight-year-old nephew made me reflect on the changing perspectives of today's generation. Hoping to distract him from gadgets, I decided to narrate a bedtime story. I picked up one of my childhood favourites—The Goose that Laid the Golden Eggs. As a child, I had learnt the timeless lesson that greed leads to loss and that one should be content with what one has. Naturally, I expected my nephew to draw the same moral.

To my surprise, his reaction was entirely different. Instead of sympathizing with the goose, he felt sorry for the farmer because he would never receive another golden egg. His response made me pause. The same story had evoked two completely different interpretations across generations.

This experience reminded me that today's learners grow up in a fast-paced digital world, where instant results, constant connectivity, and practical thinking often shape their outlook. They are curious, analytical, and eager to question rather than simply accept ideas. While this is a positive trait, it also presents educators with the challenge of nurturing empathy, patience, integrity, and other human values in meaningful ways.

Can values simply be taught through instructions? Probably not. Young minds learn best when they are encouraged to think, reflect, and discover lessons for themselves. This is where fables continue to hold remarkable relevance.

Centuries ago, Aesop used simple stories to communicate profound truths about human behaviour. Similarly, Aristotle observed in his Rhetoric that stories and fables could effectively persuade people when direct arguments alone were insufficient. Though brief and uncomplicated, fables present universal life lessons through animal characters whose actions mirror human strengths and weaknesses. Their simplicity encourages readers to interpret situations, reflect on consequences, and arrive at their own understanding.

In today's educational environment, where value-based learning is as important as academic achievement, fables can serve as effective tools for discussion and reflection. Rather than prescribing moral lessons, they invite learners to analyse situations, appreciate different perspectives, and connect ethical principles with real-life experiences.

Technology has transformed the way we learn, but it has not diminished the importance of compassion, honesty, responsibility, and contentment. Perhaps the stories that shaped our childhood still have the power to shape the future—not by providing ready-made answers, but by inspiring thoughtful questions. In that sense, the timeless wisdom of fables remains as relevant today as ever.



Ms. Geetha H
Assistant Professor of English
Dr. AIT

Student Welfare Office (SWO)

Dr. Ambedkar Institute of Technology, Bengaluru

The Student Welfare Office (SWO) of Dr. Ambedkar Institute of Technology (Dr. AIT), Bengaluru, serves as a vibrant platform for the holistic development of students by promoting cultural, technical, social, leadership, and extracurricular activities. The office is committed to creating an enriching campus environment that nurtures talent, innovation, teamwork, and social responsibility beyond the classroom.



Mrs. Sangeetha N
Student Welfare Coordinator (SWC)



Mr. N. Chetan,
Student Welfare Officer (SWO)

The Student Welfare Office is headed by **Mr. N. Chetan, Student Welfare Officer (SWO)**, and supported by **Mrs. Sangeetha N., Student Welfare Coordinator (SWC)**. Together, they coordinate and facilitate a wide spectrum of student development initiatives, enabling students to showcase their abilities, acquire new skills, and actively participate in institutional and national-level events.

Major Cultural Events

Sanskruithi

Sanskruithi is the flagship intercollegiate cultural festival of Dr. AIT, attracting participation from students across various institutions. The festival provides a platform for students to demonstrate their talents in music, dance, theatre, fine arts, literary events, and other creative pursuits. It fosters cultural exchange, creativity, leadership, and event management skills among students.

Kannada Kalarava

Kannada Kalarava celebrates the rich heritage, language, literature, and traditions of Karnataka. Through cultural performances, literary competitions, folk art presentations, and various Kannada-centric activities, the event promotes awareness and appreciation of Karnataka's cultural identity among the student community.

Maitri – Freshers' Welcome Programme

Maitri is the annual induction and welcome programme organized for first-year students. The event helps freshers integrate into campus life through interactive activities, cultural performances, orientation sessions, and networking opportunities, fostering friendship and a sense of belonging within the institution.

Technical Events and Innovation Platforms

Colossus – 24-Hour National Level Hackathon

The Student Welfare Office actively supports and coordinates **Colossus**, a prestigious **24-Hour National Level Hackathon** hosted at Dr. AIT. The event attracts participation from over **100 teams** representing engineering institutions across Karnataka and other states of India.

Colossus provides a platform for students to solve real-world problems through innovation, coding, product development, and teamwork. Participants compete for attractive cash prizes and recognition while gaining exposure to emerging technologies, industry challenges, and entrepreneurial thinking. The event has become a significant platform for fostering innovation and technological excellence among students.

Participation in National and International Competitions

The Student Welfare Office actively encourages and mentors students to participate in prestigious national and international competitions, thereby enhancing their technical competencies, innovation capabilities, and professional exposure.

NIDAR (MeitY), Aerothon SAE India– Drone Competition

Students are encouraged to participate in **NIDAR**, a national-level drone design and development competition supported by the Ministry of Electronics and Information Technology (MeitY). Participation enables students to gain practical experience in drone technology, autonomous systems, and aerospace innovation.

BAJA SAE India – Motor Sports

The office supports student teams participating in **BAJA SAE INDIA**, one of the country's premier engineering design competitions. Students design, fabricate, and race all-terrain vehicles while developing skills in engineering design, manufacturing, project management, teamwork, and leadership.

Technoxian World Championship (AICRA) - Robotics

Students actively participate in the **Technoxian World Robotics Championship**, organized by the All India Council for Robotics and Automation (AICRA). The championship provides exposure to robotics, automation, artificial intelligence, coding, and advanced technological innovations through global-level competition.

Fashion Club and Creative Expression

The Student Welfare Office also promotes artistic and creative expression through the institution's **Fashion Club**. The club provides opportunities for students interested in fashion, styling, choreography, and event management. Members actively participate in fashion shows, cultural festivals, and intercollegiate competitions across various institutions, bringing laurels to the college while developing confidence, creativity, and presentation skills.

AICTE Activity Point Initiatives

The Student Welfare Office organizes and coordinates numerous activities that enable students to earn **AICTE Activity Points** while contributing to their overall development. These include:

- Cultural and literary competitions
- Technical workshops and hackathons
- Industry visits and educational tours
- NSS and NCC activities
- Sports and fitness programmes
- Environmental awareness campaigns
- Social outreach and community service initiatives
- Entrepreneurship and innovation programmes
- Leadership development activities
- Volunteering opportunities during institutional events
- Professional skill development workshops
- National-level technical and cultural competitions



Industrial visit to TOYOTA Kirloskar plant with the association of Student Welfare Office (SWO), Dr AIT and Yuvaka Sangha.

KEA's Manthana 2026: Guiding Students and Parents Through the Seat Allotment Process

- The **Karnataka Examinations Authority (KEA)** organized **Manthana 2026**, a unique awareness programme designed to educate aspiring students and their parents about the complete counselling and seat allotment process for professional courses in Karnataka. Conducted **in collaboration with Dr. Ambedkar Institute of Technology, Bengaluru**, the programme aimed to provide participants with a clear understanding of the admission procedures, enabling them to make informed decisions regarding their higher education.

- The session addressed every stage of the counselling process, including registration, document verification, option entry, mock allotment, seat allotment, fee payment, downloading admission orders, reporting to the allotted institutions, and participation in subsequent counselling rounds. By presenting the procedures in a systematic and simplified manner, the programme helped eliminate confusion and reduced the anxiety often associated with the admission process.



- A key focus of the programme was the importance of **option entry**, which plays a crucial role in determining seat allotment. Students were guided on how to prioritize colleges and courses based on their CET rank, eligibility, reservation category, career aspirations, and institutional preferences. The significance of mock allotment and option modification was also explained, enabling students to make strategic choices that maximize their chances of securing a preferred seat.
- The programme further provided valuable insights into reservation policies, government and private quota seats, fee structures, eligibility criteria, and the counselling rules followed by KEA. These sessions ensured that students and parents received authentic information directly from experts, helping them avoid misinformation from unofficial sources and enhancing their confidence in the counselling process.
- The programme featured expert sessions by distinguished resource persons **Ms. Sang-eetha N, Mr. Chethan N, Dr. Mohan Kumar V, and Mr. Rajesh L. V.** Drawing on their extensive academic and counselling experience, they explained the complexities of the admission process through practical examples and interactive discussions. The resource persons patiently addressed participants' queries and provided valuable guidance on option entry strategies, career planning, document verification, and admission procedures. Their expertise and engaging presentations made the sessions highly informative and beneficial for both students and parents.



An important aspect of Manthana 2026 was its emphasis on parental involvement. Since parents play a significant role in educational decision-making, the programme encouraged their active participation, allowing them to better understand admission timelines, fee payment procedures, reporting formalities, and institutional choices. This collaborative approach enabled families to make well-informed decisions together.

Vision and Commitment

The Student Welfare Office at Dr. Ambedkar Institute of Technology remains committed to empowering students through diverse opportunities that foster creativity, innovation, leadership, social responsibility, and professional excellence. By organizing major cultural festivals, technical events, innovation challenges, and student development programmes, the office plays a crucial role in shaping well-rounded graduates prepared to excel in their careers and contribute meaningfully to society.

“Student welfare is at the heart of a meaningful educational journey. By providing guidance, support, opportunities, and a sense of belonging, we strive to help every student grow with confidence, overcome challenges, and achieve their fullest potential.”

TEAM SARANYU RACING AT SUPRA SAEINDIA 2026



Team Saranyu Racing from **Dr. Ambedkar Institute of Technology (Dr. AIT), Bengaluru**, proudly represented the institution at **SUPRA SAEINDIA 2026**, a national-level student automotive engineering competition. The event provided the team with an opportunity to demonstrate their expertise in automotive design, cost analysis, fabrication, teamwork, project management, and vehicle performance.

Competing among **48 teams**, Team Saranyu Racing achieved commendable results across multiple categories, securing **9th rank in BPP**, **25th rank in the Cost Event**, **31st rank in the Design Event**, **29th rank overall**, and **6th position among participating teams from Karnataka**.

Adding to the achievement, the team's **Faculty Advisor** was **honoured with the Dronacharya Award 2026** among **61 teams**, recognizing the valuable mentorship, technical guidance, leadership, and continuous support provided to the student team.

The achievements of Team Saranyu Racing reflect the team's **technical competence, dedication, teamwork, perseverance, and innovative spirit**, while highlighting the importance of practical engineering experience and faculty mentorship. The team extends its sincere gratitude to the management, Principal, faculty members, mentors, sponsors, and everyone who supported their journey to SUPRA SAEINDIA 2026.

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With regards,
Student Editorial Team
PRAJNA Quarterly Newsletter



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