

2022-23

INNOV8IT

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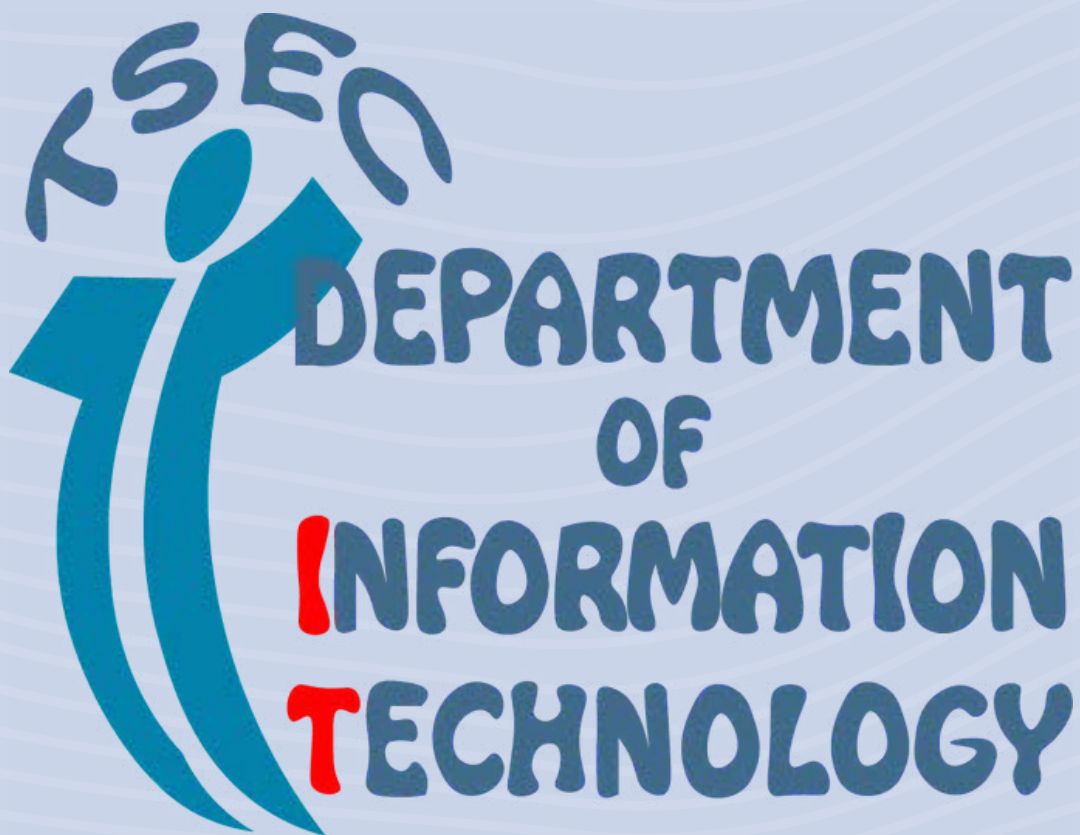


2ND EDITION

THADOMAL SHAHANI

TSEC

ENGINEERING COLLEGE



From the Principal's Desk



Welcome to the latest edition of the Information Technology Department's Annual Magazine. As we embark on another exciting journey into the world of technology, it is paramount to reflect on the remarkable advancements reshaping our industry / Business landscape. In recent times, the realm of Artificial Intelligence (AI) has witnessed unprecedented growth and innovation. NVIDIA, a pioneering force in the field, has continued to redefine the possibilities of AI with its cutting-edge tools and technologies.

Through its relentless pursuit of excellence, NVIDIA has empowered individuals and organizations worldwide to harness the transformative potential of AI. Their commitment to providing accessible platforms for AI development has not only democratized the field but also fostered a thriving ecosystem of innovation and creativity.

Moreover, the dawn of Quantum Computing represents a paradigm shift in computational capabilities. With its unparalleled processing power and capacity to handle complex problems, Quantum Computing holds the promise of revolutionizing various industries. From optimizing supply chains to accelerating drug discovery, the potential applications are limitless. As we witness the emergence of this transformative technology, it becomes imperative for us to explore its implications and leverage its capabilities to develop new business models and solutions.

Furthermore, during technological advancement, the imperative of environmental sustainability cannot be overlooked. The urgency to combat climate change and minimize our carbon footprint necessitates a concerted effort towards building carbon-neutral enterprises. As stewards of technological innovation, we have a responsibility to integrate sustainability measures into our operations and practices. By embracing carbon neutrality, we not only mitigate environmental impact but also pave the way for a more sustainable future for generations to come.

In this edition of our newsletter, we delve into these topics and more, exploring the intersections of technology, innovation, and sustainability. From insightful articles to thought-provoking discussions, we aim to provide a comprehensive overview of the latest trends and developments shaping the IT landscape.

As we navigate the ever-evolving terrain of technology, let us remain committed to fostering a culture of curiosity, collaboration, and continuous learning. Together, we can embrace the opportunities that lie ahead and drive positive change through the power of information technology.

Dr. G. T. Thampi
Principal

HOD's Message

Firstly, I would like to express my gratitude to our esteemed principal, Dr. G T Thampi, for his unwavering guidance and support in providing the department with all the essential facilities. He is a pillar of strength for all department activities.

The distinguished faculty of the Department of Information Technology spans multiple cadres. I would want to sincerely thank each and every one of you for your unshakable commitment and diligence in improving the department.



Our department's success and noteworthy contributions to the organization are a result of your dedication and proficiency.

We have seen incredible growth over the last year because to the efforts of our team, who have increased the department's overall efficiency. In addition to their outstanding academic achievements, the department's students have excelled in national and intercollegiate contests such as SIH and hackathons. These successes would not have been possible without the department's creative solutions, unwavering work ethic, and collaborative attitude.

We have an ambitious plan in place for the future year. In order to spur innovation and improve IT services, we should concentrate on utilizing cutting-edge technologies like artificial intelligence, machine learning, and data analytics.

To broaden their skill set and stay current with market trends, I strongly advise staff and students to actively participate in knowledge-sharing sessions, workshops, FDPs, and training programs.

Finally, I want to stress how important collaboration and team spirit are. As usual, let's work to promote an environment of candid dialogue, respect, and assistance in order to get over any barriers and produce amazing outcomes.

Finally, but just as importantly, I would like to express my gratitude to the Magazine team for their unwavering efforts in bringing this publication to life in its current form. Staff and students use the magazine as a platform to share their ideas and opinions.

Thank you and Happy Learning!

Dr. Arun Kulkarni
Head of Department

Team's Word



Dear Readers,

We are pleased to present the second edition of 'INNOV8IT', our department's inventive magazine shining light on our vibrant community. Curating this collection has been a rewarding endeavor, highlighting the immense talent and perspective within our student body.

Within these pages, you'll find an array of enlightening articles, stirring creative works, insightful commentary on current events, and more. Our goal is to provide a platform to amplify diverse voices across campus, fostering greater understanding between all members of our department.

We extend deep appreciation to our contributors for bravely sharing their narratives and viewpoints. Additionally, we thank our faculty advisors for their invaluable guidance upholding journalistic standards. We hope this magazine offers you, the reader, a glimpse into the dynamic community we are fortunate to participate in.

As always, we welcome your feedback as we continuously strive to deliver exceptional content that both informs and engages. We hope you enjoy this edition of INNOV8IT as much as we enjoyed creating it. Happy reading!

Warm regards,
The Magazine Team

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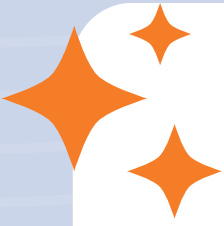
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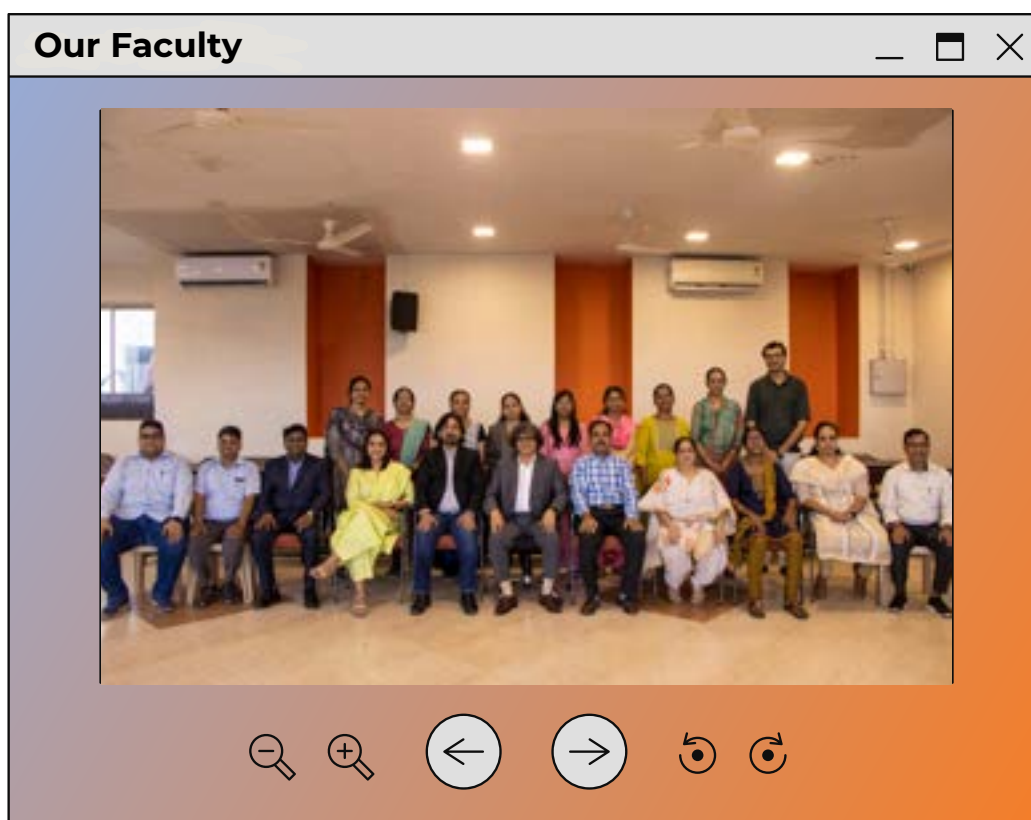
About Us



About Department



Department of Information Technology was established in the year 1998 with a clear view of a forerunner in the field of Information Technology, the Department seeks to evolve towards excellence and adapt itself to the rapid advancements in specialized fields. A highly qualified, dynamic, and technologically sound faculty endowed with this Department. The department is always keen in organizing seminars, hackathons, workshops, and symposia in emerging technological areas.



Our Vision

The department should be known globally for its core competence in terms of intuitive and intelligent architectural solutions on “Conversion of problem to logic”.

Our Mission

Focusing and Practicing

- Theoretical rigour to develop conceptual clarity.
- Modelling and design of experiments to inculcate culture of investigation.
- Making project based learning-learning as a pervasive pedagogy.
- Transcending learning in the emerging areas of Artificial Intelligence, Deep Learning, Block-chain technology and Quantum Computing.
- Short term training program in evolving fields of Information Technology.
- Collaborative learning, interdisciplinary studies and exposure to functional areas.
- Sensitising all concerned about automation in IT services, software product and software process innovation.
- Introducing risk management, risk mitigation and the process of hedging.
- Inculcating and enhancing the culture of entrepreneurship, start-up ventures and incubation process.
- Metamorphosis from teaching paradigm to learning paradigm.
- Every day discourse shall inculcate research culture and create IPR in terms of process and product patents, by understanding various markets and cultures.

Program Outcomes (POs)

1. An ability to apply knowledge of mathematics, science and engineering fundamentals in the field of computing.
2. Critically identify, formulate and evaluate emerging topics and the recent development in the field and Provide solutions to futuristic engineering problems.
3. The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental and societal context.
4. Ability in requirement gathering, design and implementation of software with computer systems to analyze and interpret the data.
5. An ability to use the techniques, logical and analytical skills and modern engineering tools necessary for engineering practice.
6. An ability to design a system component or process to meet desired needs within realistic constraints such as economic, environmental, social, cultural and safety issues.
7. An ability to understand the impact of engineering knowledge towards society and the environment with need for sustainable solutions.
8. To inculcate professional ethics.
9. An ability to function effectively, individually and in teams to accomplish a common goal.
10. An ability to communicate solutions of complex computing problems effectively using reports and presentations to a wide range of audiences.
11. To instill leadership and managerial skills in a multidisciplinary environment.
12. Recognition of the need for and an ability to engage in life-long learning.

Program Specific Outcomes (PSOs)

1. Apply Core Information Technology knowledge to develop stable and secure IT system.
2. Design, IT infrastructures for an enterprise using concepts of best practices in Information Technology and security domain.
3. Ability to work in multidisciplinary projects and make it IT enabled.
4. Ability to adapt latest trends and technologies like Analytics, Blockchain, Cloud, Data science.

Course Structure

Sem 3 R19 (December 2022) • Engineering Mathematics-III • Data Structure and Analysis • Database Management System • Principle of Communication • Paradigms and Computer • Programming Fundamentals	Sem 4 R19 (May 2023) • Engineering Mathematics-IV • Computer Network and Network Design • Operating System • Automata Theory • Computer Organization and Architecture
Sem 5 R19 (December 2022) • Internet Programming • Computer Network Security • Entrepreneurship and E-business • Software Engineering Electives: • Advanced Data structure and Analysis	Sem 6 R19 (May 2023) • Data Mining & Business Intelligence • Web X.0 • Wireless Technology • AI and DS 1 Electives: • Image Processing
Sem 7 R19 (December 2022) • AI and DS 2 • Internet of Everything Electives: • Infrastructure Security • Information Retrieval Systems • Product Lifecycle Management • Management Information System • Operation Research • Cyber Security and Laws	Sem 8 R19 (May 2023) • Blockchain and DLT Electives: • Simulation and Modeling • User Interface Design • Project Management • Finance Management

NBA Accreditation

Achieving Great Heights: Our IT Department Receives Coveted NBA Accreditation

I am thrilled to announce that our college's Information Technology Department has been accredited by the National Board of Accreditation (NBA) for a period of 3 years! This prestigious validation is a testament to the quality education we provide in the IT sphere. I wish to acknowledge the continuous guidance and mentorship of our beloved principal, Dr. G. T. Thampi and the following faculty members.

Criteria	Title	Faculty
1	Vision, Mission and Program Educational Objectives	Dr. Arun Kulkarni Dr. Shanthi Therese
2	Program Curriculum	Dr. Arun Kulkarni Dr. Shanthi Therese
3	Course and Program Outcome	Dr. Shachi Natu Prof. Sanober Shaikh
4	Students' Performance	Dr. Kumkum Saxena Prof. Himani Deshpande
5	Faculty Information and Contributions	Dr. Nagaveni Hebbar Prof. Sanjay Pandey
6	Facilities and Technical Support	Prof. Reshma Malik Prof. Sheetal Gondal
7	Continuous Improvement	Prof. Sampada Pinge Prof. Archana Kale
8	First Year Academics	Dr. Mukesh Israni
9	Student Support Systems	Prof. Sunita Rathod Prof. Sanjay Pandey
10	Governance, Institutional Support and Financial Resources	Prof. Geeta Karande Dr. Darshan Ingle

- **Dr. Arun Kulkarni**
HoD

B.E. Batch of 2023

B1



B2



Shining Success

It is a matter of great pride for the department that the students have excelled in the exams, and it is a testament to their dedication and hard work. The students have put in long hours of study and have worked hard to achieve their goals. The department is proud of their achievements and is confident that they will go on to do great things in the future.

Odd Semester

Category	SE Sem III (Nov 2022)	TE Sem V (Nov 2022)	BE Sem VII (Nov 2022)
Distinction	37	78	48
First Class	45	35	63
Second Class	18	05	19
Pass Class	01	02	00
Fail	38	17	08
Total	139	137	138

Even Semester

Category	SE Sem IV (May 2023)	TE Sem VI (May 2023)	BE Sem VIII (May 2023)
Distinction	99	114	109
First Class	16	10	23
Second Class	00	02	05
Pass Class	00	00	00
Fail	24	01	03
Total	139	137	140

Semester VII: December 2022



Nayni Shah
9.77



Neeraj Patil
9.59



Nidhi Chandarana
9.59



Nisarg Sonar
9.45

Semester V: December 2022



Sneh Davaria
708/775



Harsh Nagpal
699/775



Prem Dhawane
686/775

Semester III: December 2022



Siddique Sayed
652/775



Archie Shah
652/775



Dhruv Sanghavi
650/775



Rutuja Haladkar
643/775

Semester I: December 2022



Vedant Hariyan
10

Semester VIII: May 2023



Isha Nalawade
87.76%



Neeraj Patil
85.87%



Vinisha Adappa
85.85%

Semester VI: May 2023



Harsh Nagpal
709/775



Sneh Davaria
708/775



Veer Pariawala
701/775

Semester IV: May 2023



Prasad Arote
672/775



Niranjana Joshi
665/775



Ayesha Nagdawala
650/775

Semester II: May 2023



Vedant Hariyan
9.70



Our Faculty





◀ Dr. G. T. Thampi

Designation: Principal

Qualification: Ph.D. (Technology), Mumbai University recognized Ph.D. guide in Information Technology and Mechanical Engineering.

Experience: 37 Years

Area of specialization: Generative AI, Business Process Reengineering, Big Data Analytics, Cloud Computing, Internet of Things, Integration in Enterprises.

Dr. Arun Kulkarni ▶

Designation: Vice Principal, Dean (AICTE/NBA), Professor and HOD(IT)

Qualification: Ph.D (Computer Science and Engineering)

Experience: 32 Years

Area of specialization: Digital Signal & Image Processing, Soft Computing.



◀ Dr. Mukesh Israni

Designation: Vice Principal and Associate Professor

Qualification: PhD (Technology) in IT

Experience: 27 Years

Area of specialization: Wireless Sensor Networks, Entrepreneurship and E Business.

Prof. Archana Kale ▶

Designation: Associate Professor

Qualification: Ph.D (Pursuing)

Experience: 30 Years

Area of specialization: Generic System Analysis and Design, Parallelization, Intelligent Systems.



◀ Prof. Anjali Malviya

Designation: Associate Professor

Qualification: ME (Electronics)

Experience: 29 Years

Area of specialization: Image Fusion, Data Analytics



◀ Prof. Sampada Pinge

Designation: Associate Professor

Qualification: M.E (Electronics)

Experience: 29 Years

Area of specialization: Internet of Things, Infrastructure Security, Neural Network.

Dr. Shanthi Therese S. ▶

Designation: Associate Professor

Qualification: Ph.D (Technology) in Computer Engineering

Experience: 27 Years

Area of specialization: : Automatic Speech Recognition, Data Mining and Business Intelligence Applications, Machine Learning



◀ Dr. Gopal Pardesi

Designation: Associate Professor, IQAC Co-ordinator

Qualification: Ph.D (IT)

Experience: 32 Years

Area of specialization: Artificial Intelligence, Machine Learning

Prof. Kumkum Saxena ▶

Designation: Assistant Professor

Qualification: PhD (Pursuing), M.E. (Computer), B.E. (Computer Science)

Experience: 23 Years

Area of specialization: Machine Learning, Image Processing, Advance Data Structures and Algorithms. Operating System, Computer Networks, Java, Information Systems, Automata Theory



◀ Prof. Geeta Karande

Designation: Assistant Professor

Qualification: M.E (Electronics and Telecommunication)

Experience: 24 Years

Area of specialization: Robotics, Communication Engg



◀ Prof. Nagaveni Hebbar

Designation: Assistant Professor

Qualification: Ph.D (Pursuing)

Experience: 21 Years

Area of specialization: Image Processing, Information Security, Wireless Technology and Digital Forensics

Prof. Chetan Agarwal ▶

Designation: Assistant Professor

Qualification: Ph.D. (Pursuing)

Experience: 20 Years

Area of specialization: Blockchain Technology



◀ Prof. Reshma Malik

Designation: Assistant Professor

Qualification: Ph.D.(Pursuing), M.E (Computer Engineering)

Experience: 19 Years

Area of specialization: Neural Networks and Fuzzy Systems, Management of Information System

Prof. Sanjay Pandey ▶

Designation: Assistant Professor

Qualification: Ph.D. (Pursuing)

Experience: 19 years

Area of specialization: Software Engineering, Software Project Management, Computer Networks



◀ Prof. Sunita Rathod

Designation: Assistant Professor

Qualification: M.E. (Computer Engineering)

Experience: 20 Years

Area of specialization: Programming, Web programming , Bio-metrics



◀ Dr. Nikhilesh Joshi

Designation: Assistant Professor

Qualification: Ph.D. (Technology)

Experience: 22 Years

Area of specialization: Neural Network, Image Processing

Dr. Shachi Natu ▶

Designation: Assistant Professor .

Qualification: Ph.D. (Computer Engineering)

Experience: 18 Years

Area of specialization: Image Processing, Machine Learning, Deep Learning, Natural Language Processing



◀ Prof. Sanober Shaikh

Designation: Assistant Professor

Qualification: Ph.D. (Pursuing)

Experience: 18 Years

Area of specialization: Information Security, Wireless Technology, and Digital Forensics.

Dr. Darshan Ingle ▶

Designation: Assistant Professor.

Qualification: Ph.D. (Computer Science & Engineering)

Experience: 14 Years

Area of specialization: Python, Julia ,R , Data Analytics Machine Learning , NLP , Generative AI , Deep Learning , Stats , Tableau , PowerBI , Alteryx , Pyspark , Prompt Engineering



◀ Prof. Anuradha Mistry

Designation: Assistant Professor

Qualification: M.Tech. (IITB)

Experience: 21 years

Area of specialization: Biomedical Instrumentation, Modelling and Simulation, Rehabilitation Engineering, Biomechanics

Prof. Sheetal Gondal ▶

Designation: Assistant Professor

Qualification: M.E (Computer Engineering)

Experience: 9 Years

Area of specialization: Database, Big Data Analytics , Software engineering , C Programming , Project Management





Placements & Internships



Placement Diary

The placement round at Thadomal Shahani Engineering College for Information Technology was a true testament to the hard work and dedication of its students. The college is proud of all its students, whether they have chosen the path of immediate employment or further education, and wishes them all the best in their future endeavors.

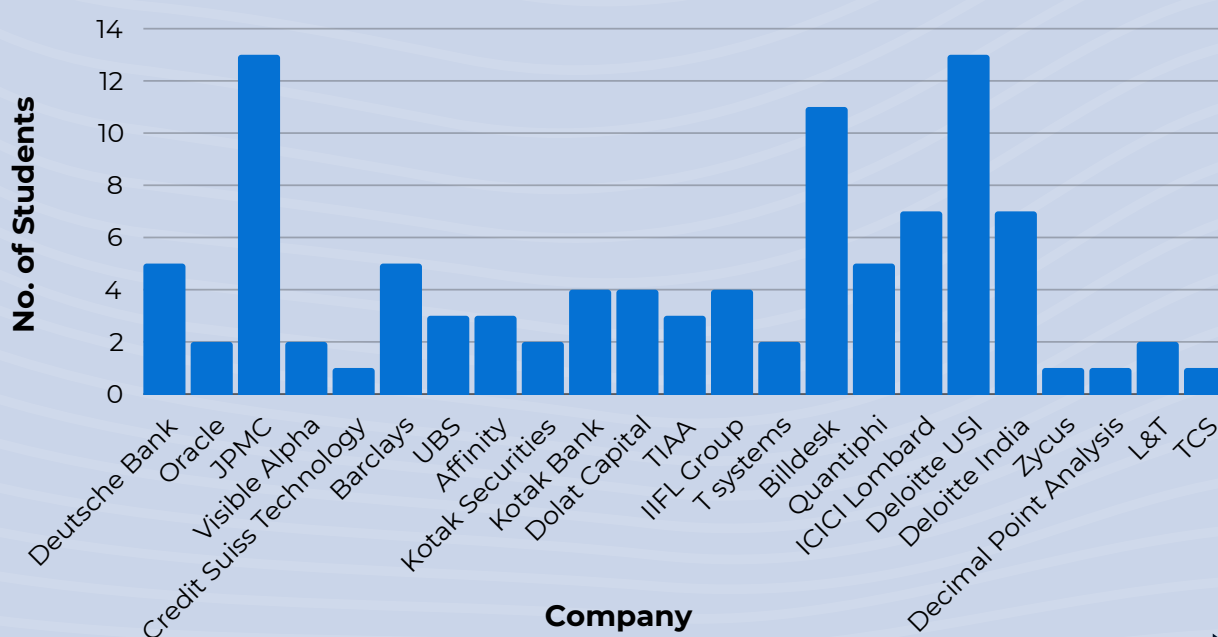
Total Number of Students	No. of Student Registered for Campus Placement	No. of Student Placed	Going for higher Studies	Entrepreneurship	Joined Family Business	Others
140	106	96	33	0	4	7

Top 10 Company Packages

Sr. No.	Company Name	Student Name	Amount (LPA)
1.	Deutsche Bank	Burhanuddin Khambati	19.63
		Farhan Shaikh	
		Neeraj Patil	
		Priyansi Chogale	
		Sanket Ardekar	
2.	Oracle	Rishabh Raghuvanshi	17.97
		Avinash Dengani	
3.	JP Morgan & Chase	Arpita Pawar	17.75
		Balaji Wadawadagi	
		Bhagavatiraj Yadav	
		Bhavyesh Shah	
		Muskan Gupta	
		Nandini Gawankar	
		Vruddhi Tolia	
		Shreesh Srivastava	
		Sanjeevan Bapat	
		Vinisha Adappa	
		Unnati Sorathi	

Sr. No.	Company Name	Student Name	Amount (LPA)
4.	Visible Alpha	Aniket Surve	14
		Pratham Shah	
5.	Credit Suisse Technology	Trisha Shetty	13.59
6.	Barclays	Hanil Jain	12.67
		Yash Champaneri	
		Aarya Wilankar	
		Chaitanya Padol	
		Harsh Mody	
7.	UBS	Darshan Rander	12
		Abhay Rangnani	
		Rishi Khetpal	
8.	Affinity	Harsh Kotian	12
		Bhavya Sheth	
		Nikita Lulla	
		Ankit Pandey	
9.	Kotak Securities	Manish Maurya	12
		Krupesh Patel	
10.	Kotak Bank	Gaurav Wadhawa	12
		Neel Patel	
		Pratham Solanki	

Placement Analysis



Our Top Recruiters



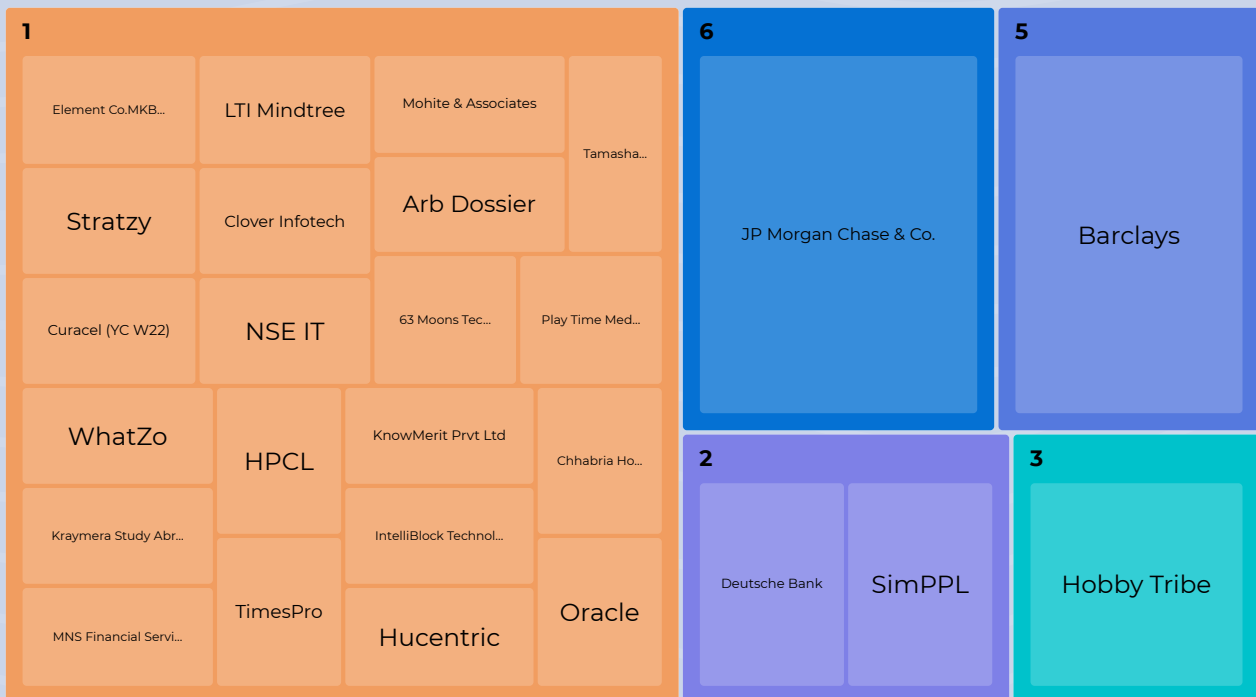
Deutsche Bank



JPMORGAN
CHASE & CO



Internships



Internships are educational and career development opportunities, providing practical experience in a field or discipline. They are structured, short-term, supervised placements often focused around particular tasks or projects with defined timescales.

The internship drive was a great success, with students gaining internships at reknowned companies with stipends ranging from Rs. 3000 to Rs. 75000 per month. The department is proud of all of the students who participated. The students have returned to TSEC with a newfound confidence and a wealth of practical experience. They are now better equipped to tackle the challenges of the dynamic world of technology and are ready to take on leadership roles in their careers. The department is confident that the students will continue to make a positive impact in the industry and will become leaders in their respective fields.

Paid Internships 2022 - 23

SR.	NAME	SEMESTER	COMPANY	STIPEND (Rs.)
1	Mokshit Surana	6	Deutsche Bank	75K/month
2	Adhiraj Soparkar	6		
3	Mahek Karia	6	Barclays	75K/month
4	Aahana Ganjewar	6		
5	Vaibhav Gawad	6		
6	Sumanta Jena	6		
7	Ronak Lala	6		
8	Priyal Jain	6	JP Morgan & Chase	70K/month
9	Rukshar Khan	6		
10	Harsh Nagpal	6		
11	Aadi Vora	6		
12	Gayatri Joshi	6		
13	Gargi Sathe	6	Oracle	50K/month
14	Omkar Bhostekar	6		

SR.	NAME	SEMESTER	COMPANY	STIPEND (Rs.)
15	Veer Pariawala	6	Element Co. MKB Enterprises	10000/month
16	Mohd Anas Ghani Khan	4	Mohite Consultancy Services (MOHITE & ASSOCIATES)	10000
17	Darshan Rander	8	Stratzy	30000
18	Harsh Mody	7	Curacel(YC W22)	24000
19	Ameya Vivek Shirsat	8	LTIMindtree	20000
20	Rudrani Chavarkar	4	Clover Infotech Pvt. Ltd	15000
21	Pratiksha Limbulkar	3	National Stock Exchange Information Technology	10000
22	Tanisha Gupta	5	Arb Dossier	10000
23	Nikunj Mistry	6	Tamasha.Live	10000
24	Dhairya Hiten Shah	6	63 moons technologies	10000
25	Shubh Dhaval Mehta	8	Play Time Media Pvt Ltd	10000
26	Archit Virendra Rathod	6	SimPPL	7500/month
27	Mrunmayi Parker	6	SimPPL	7500/month
28	Gaurish Bhosale	6	WhatZo	7000/month

SR.	NAME	SEMESTER	COMPANY	STIPEND (Rs.)
29	Ninad Naik	4	Kraymera Study Abroad	6000/month
30	Jason D'souza	6	MNS Financial Services	5500/month
31	Sumil Suthar	4	The Hobby Tribe	5000/month
32	Shashank Gupta	4	The Hobby Tribe	5000/month
33	Soham Satam	4	Adv. Nilima Bhosle - Satam & Associates	5000/month
34	Shipra Suvarna	4	Hindustan Petroleum Corporation Limited	5000/month
35	Maryam Chowdhry	4	TimesPro	5000/month
36	Bhuvan Sawant	4	KnowMerit Private Limited	5000/month
37	Rahul Shah	6	IntelliBlock Technologies	5000/month
38	Shreeya Rokade	8	Hucentric	5000/month
39	Sheen D'Cruz	4	Chhabria Housing LLP	3000/month
40	Shagun Gupta	4	Hobby Tribe	3000/month



Higher Studies





University of Southern California

Ruchit Thaker
Kevin Masalia
Parinda Pranami
Dishant Israni
Leena Kirtikar
Tanvi Khasgiwal



Rutgers University

Harshish Bedi
Aayush Jadhav



Stony Brook University

Rishabh Patil
Pranav Dani



Arizona State University

Jay Mistry
Shubh Mehta



Binghamton University

Nidhi Chandarana
Avantika Deshmukh



Indiana University Bloomington

Utkarsh Bhosekar
Shreeya Rokade
Snehashish De



University of Massachusetts Amherst

Isha Nalawade



University of Buffalo

Arya Satam



North Carolina State University

Manasi Bhagwat



Worcester Polytechnic Institute

Parth Shroff



University of Illinois Chicago

Aakash Kapadia



Boston University

Gunjan Sharma



King's College London

Palak Devnani



University of Utah

Harsh Talreja



Purdue University

Harsh Parikh



Central University of Jammu

Imran Mehdi



Publications & Patents



BackGen – Backend Generator

Authors: Darshan Rander, Pranav Dani, Dhairya Panjwani, Dr. Darshan Ingle

Journal/Conference: Springer LNNS Series

ICT Analysis and Applications: Proceedings of ICT4SD 2023, Volume 2



Sign Detection System

Authors: Chintan Shah, Farhan Shaikh, Surojit Saha, Dr. Darshan Ingle

Journal/Conference: Springer LNNS Series

ICT Analysis and Applications: Proceedings of ICT4SD 2023, Volume 2

Neural Transfer of Style Learning and Its Application

Authors: Harsh Mody, Harsh Parikh, Neeraj Patil, Dr. Shanthi Therese S.

Journal/Conference: Springer LNNS Series

ICT Analysis and Applications: Proceedings of ICT4SD 2023, Volume 2



Umpire Hand Sign Detection Images

Authors: Anirudh Navin, Arya Satam, Dr. Shanthi Therese S.

Journal/Conference: IEEE DataPort

IEEE DataPort

A comprehensive study of the nuances and intricacies of ultimate tic-tac-toe

Authors: Harsh Parikh, Dhairya Panjwani, Aniruddh Navin, Kumkum Saxena

Journal/Conference: I4th International Conference on Multidisciplinary Innovation

ICMIAR-2023 | 17th & 18th March 2023





Road Lane Line Detection

Authors: Shreesh Srivastava, Bhavya Sheth, Pratham Shah, Dr. Darshan Ingle

Journal/Conference: Springer LNNS Series

ICT Analysis and Applications: Proceedings of ICT4SD 2023, Volume 2

COMPARATIVE ANALYSIS OF FORECASTING TECHNIQUES FOR ITS EFFECTIVENESS

Authors: Sanobar Shaikh, Dr. G. T. Thampi

Journal/Conference: ICSTEMSD-23

Industrial Engineering Journal ISSN: 0970-2555 Volume : 52, Issue 2, No. 1,
February : 2023



LITERATURE REVIEW ON EFFICACY OF ICT IN REALM OF CONSTRUCTION INDUSTRY

Authors: Sanjay Pandey, Dr. G.T. Thampi

Journal/Conference: JETIR

Journal of Emerging Technologies and Innovative Research, ISSN : 2349-5162,
Volume 9 Issue 8 , August-2022

Bluetooth Based Fire Detection and Robust Protection System by Using Arduino

Authors: Sanjay Pandey, Snehashish De, Palak Devnani, Chetan Agarwal

Journal/Conference: IRJET

International Research Journal of Engineering and Technology ISSN:
2395-0056 Volume: 09 Issue: 12 | Dec 2022



Building Scalable Blockchains: Strategies, Trade-Offs, And Future Directions

Authors: Dr. Gopal Pardesi, Diksha Pardeshi

Journal/Conference: IJCRT

International Journal of Creative Research Thoughts Volume 11, Issue 5 May 2023
| ISSN: 2320-2882

Secured e-learning and Assessment web-based Application with Parental Control

Authors: Sanjay Pandey, Snehashish De, Palak Devnani, Pratham Gianani

Journal/Conference: IRJET

International Research Journal of Engineering and Technology ISSN: 2395-0056
Volume: 10 Issue: 01 | Jan 2023



Unravelling the Challenges: A Deep Dive into the Problems of Blockchain Technology

Authors: Dr. Gopal Pardesi, Diksha Pardeshi

Journal/Conference: IRJET

International Research Journal of Engineering and Technology ISSN: e-
ISSN: 2395-0056 Volume: 10 Issue: 05 | May 2023

A Deep Learning Framework with Transfer Learning Approach for Image Forgery Localization

Authors: Nagaveni Hebbar

Journal/Conference: IEEE

2022 IEEE 3rd Global Conference for Advancement in Technology (GCAT)



Digi Log

Authors: Hrishita Kumar, Muskan Gupta, Shreya Manjucha, Kumkum Saxena

Journal/Conference: ICNC -2023

Fourteenth International Conference on Advances in Communication,
Network, and Computing – CNC 2023

PATENT

Title: Investigating Big Data Analytics in Indian Industries for building efficiencies

Author: Dr. G. T. Thampi & Dr. Mukesh Israni

Date of Publication: 18th November, 2022

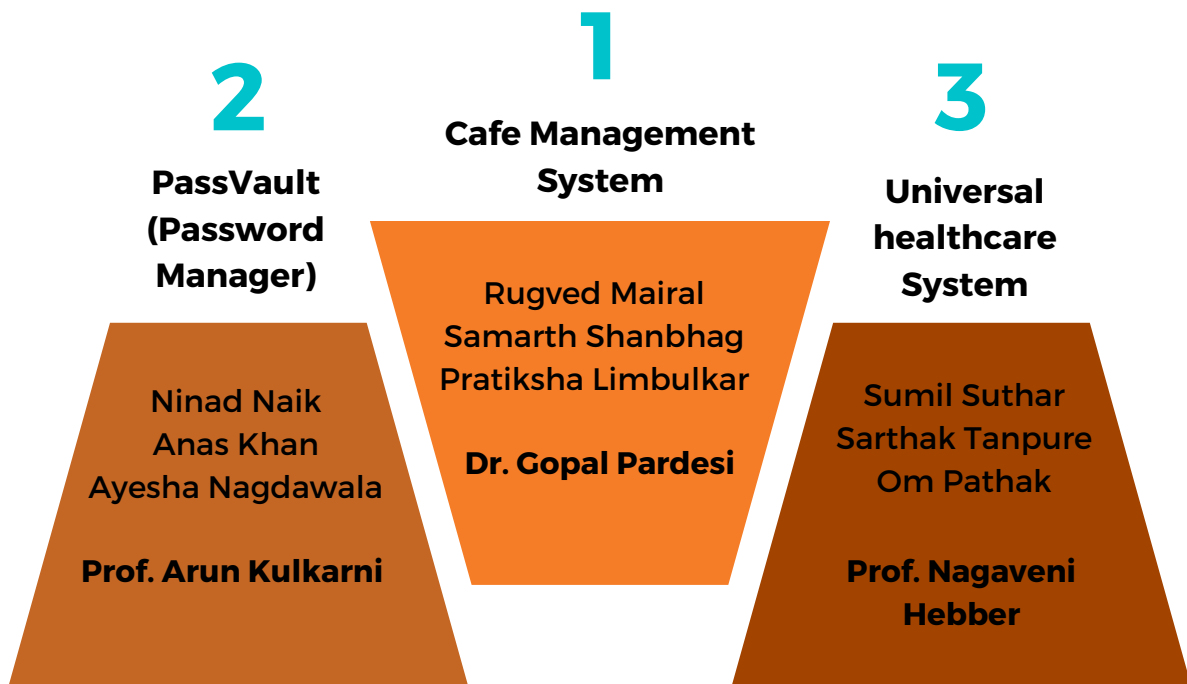


Events:

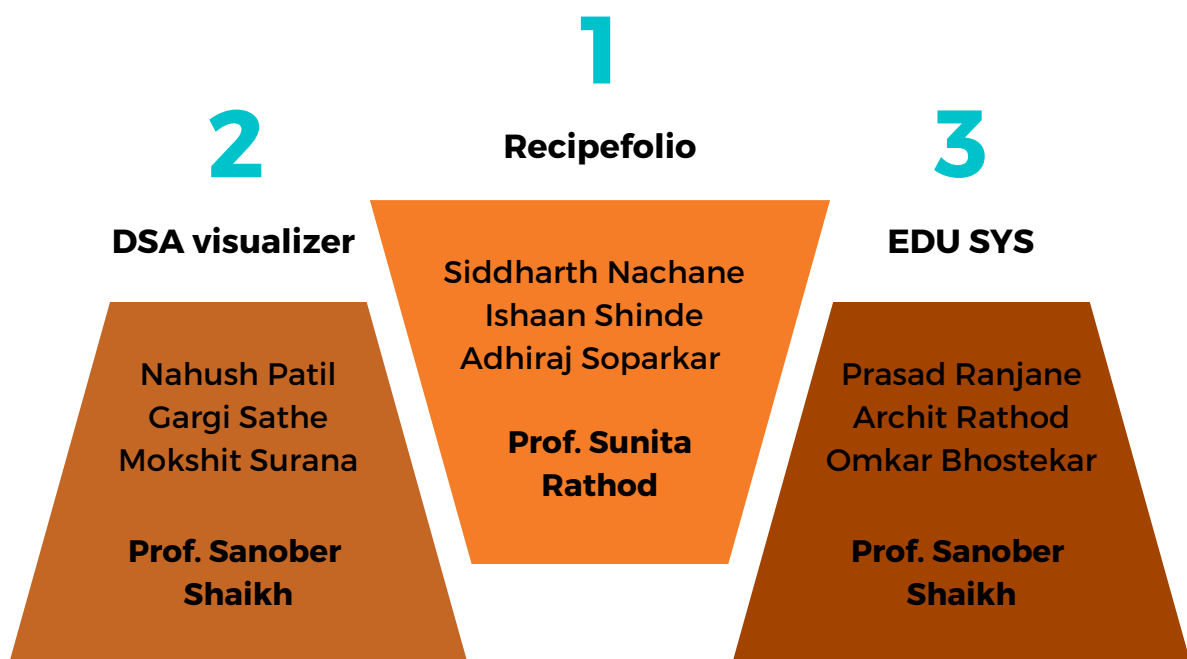
Year in review



JAVA 2.0



WEB DEVELOPMENT 2.0



PYTHON 2.0

2

**Jarvis - Virtual
voice based
assistant**

Avadhoot Dhumal
Mitesh Audichya
Anmol Tripathi
Chetan Patil

Prof. Chetan Agarwal

1

Gym Buddy

Shreyas Dhamankar
Shaunak Rananaware
Sarthak Tanpure
Sumil Suthar

**Prof. Sheetal
Gondal**

3

**SpeakSure -
Public speaking
practice app**

Gaurav Ghade
Atharva Honrao
Ninad Naik
Atharva Pandit

Dr. Arun Kulkarni

MACHINE LEARNING 2.0

1

**Reflections: Discover the
Power of Story Telling**

2

Flycast

Siddesh Shetty
Prateek Vishwakarma
Swapnil Vishwakarma
Veer Pariawala

**Prof. Kumkum
Saxena**

3

Notein.AI

Aadi Vora
Siddharth Yadav
Abhishek Shirke
Sandeep Sinha

**Dr. Gopal
Pardesi**

Codeissance 2022

The TSEC CodeStorm successfully hosted its annual Codeissance Hackathon on September 23rd-24th, 2022. This 24-hour on-campus event saw 56 teams compete across three domains: social cause, web/app development, and blockchain. The event aimed to provide a platform for students to showcase their technical skills and collaborate on innovative solutions. Ten teams progressed to the final round, with the winners receiving cash prizes, internship opportunities, and software subscriptions. The Hackathon, organized by students and faculty, drew participation from across India and served as a valuable learning and networking experience for all involved.



Innov8IT Magazine Launch

The IT Department proudly unveiled its inaugural edition of the "Innov8IT" magazine on March 27th, 2023, marking a milestone in showcasing departmental achievements. The launch event, graced by faculty and students, saw Principal Dr. G.T. Thampi and HOD of IT Dr. Arun Kulkarni unveil the magazine. "Innov8IT" chronicles the department's vibrant year of 2021-22, highlighting student and faculty achievements, successful placements and internships, a dedicated "Creativity Corner," and a comprehensive overview of departmental events. This launch marks a new chapter in documenting and celebrating the IT Department's journey towards innovation.





Committees



Committees

The IT department of Thadomal Shahani Engineering College isn't just celebrating academic excellence; they're also brimming with pride for their students who actively shape the college experience. These go-getters aren't content with just textbooks – they actively contribute their talents and skills by participating in various committees. These committees benefit from their leadership, collaboration, and dedication, as students take on roles in organizing events, managing budgets, and even planning initiatives with a wider impact, extending beyond the college walls. Their contributions not only leave a positive mark on the college community but also equip them with valuable skills like leadership and teamwork, preparing them for success in their future careers and personal lives. Moreover, many IT students take the initiative even further by leading crucial roles within these committees, further demonstrating their dedication and leadership potential, making them well-rounded individuals ready to tackle any challenge that comes their way.



STUDENT'S COUNCIL

Jason D'souza - General Secretary
Noynicaa Santani - Joint Cultural Secretary
Madhur Rajpal - Magazine Secretary
Mihir Lad - Joint Magazine Secretary
Yash Yadav - Sports Secretary (July - Dec 2022)
Manav Doshi - Sports Secretary: Inter-College
Ved Jaiswal - Sports Secretary: Intra-College
Aaron Fernandes - Sports Secretary: Marathon
Ruchit Thaker - Event Head



Sports Team:

Vinit Kedia

Cultural Team:

Smit Madhani

Sneha Dahikar

Aditi Patil

Bhagyashree Patil(July - Dec 2022)

Magazine Team:

Aryan Singh

Rohit Vaswani

Arush Karekar

Prabal Sharma

Juhi Nathani

Marketing Team:

Aaditya Chinchkhedkar

Prem Dhawane

CODECELL



Gargi Sathe
Ronit Malhotra
Gayatri Joshi
Rohit Nehara

NSS

National Service Scheme



Vaishnavi Hindalekar : Creatives Head
Jeevika Tiwari: Public Relations Officer
Meet Shah: Event Coordinator

CODESTORM

Aaditya Chinchkhedkar
Karan Chopra
Isha Parab
Veer Pariawala



RCTSEC

Rotaract Club

Veer Pariawala - Digital Communications Director

Yash Shah - Public Relations Director

Atharva Maskar - Entrepreneurship and Professional Development Director

Omkar Pathak - International Service Director

Sara Ghosalkar - Editorial



IETE

Institution of Electronics & Telecommunication Engineers



Mahek Karia: Creatives Head

Aadi Vora: Logistics Head

Nikita Saha: Marketing Head

GDSC

Google Developer Student Clubs



Mokshit Surana - Core Team Member

Ninad Naik - Core Team Member

CSI

Computer Society of India

Manan Mehta - Chairperson

Aditi Patil - Vice Chairperson

Mounika Jindam - Secretary

Aadi Vora - Senior Organisational Manager

Manav Doshi - Senior Organisational Manager

Mrunmayi Parker - Communications Head

Nahush Patil - Operations Head

Parag Patel - Logistics Head

Prem Dhawane - Marketing Head

Ritesh Mestry - Technical Head

Krishna Khadke - Joint Technical Head



DEVELOPER'S CLUB

Aaditya Chinchkedkar - Chairperson

App Team:

Prasad Ranjane

Web Team:

Shreesh Srivastava

Ronak Lala

Operations Team:

Jeevika Tiwari

Anas Khan

Jay Samberkar

Shreya Kamath

Sarah Khan

Design Team:

Gayatri Joshi



TIE

The Inner Engineering Club



Nikhil Manchhani -
Secretary

E-CELL

Entrepreneurship Cell



Aditya Rajpathak
Sairaj Pawar

ISTE

Indian Society for Technical Education

Vatsal Mehta - Treasurer





Achievements





Thadomal Shahani Engineering College's Information Technology department, established in 1998, equips students with programming skills and real-world expertise. Led by a diverse faculty, the department fosters a gender-neutral learning environment, aiming to empower students to become productive professionals within four years.

The department has seen a remarkable year, publishing 15 research papers in prestigious journals and international conferences. Further solidifying its academic prowess, seminars, and webinars were organized, covering topics like Artificial Intelligence, Blockchain, social causes, and Data Science with Python.

To enhance its students' practical knowledge, the department established a Center of Excellence for Cloud Computing, Blockchain Technology, Data Science, and Analytics. This center provides access to advanced laboratory infrastructure, equipping students with competencies in Deep Learning, Artificial Intelligence, and Blockchain technologies.

TSEC students actively participate in various hackathons, including Smart India Hackathon, Machine Intelligence 2.0, and Python 2.0. Their dedication manifests in multiple awards and certificates across various domains, showcasing the department's commitment to student achievement.

Demonstrating their well-roundedness, TSEC's IT students have also won awards in project management, hackathons, and even sports, highlighting their diverse skills and abilities.

In essence, Thadomal Shahani Engineering College's Information Technology department provides a dynamic learning environment that fosters both academic excellence and real-world skills, preparing students for successful careers in the ever-evolving IT landscape.

Extra-Curricular



Mehak Mehta (SE)
Aaditya Nitin (TE)

Ruchit Thaker (BE)
Isha Nalawade (BE)

- **Winners of Street Play at IIM Ahmedabad Chaos 2023**
- **Winners in Street Play of Verve 2023 at Vidyalankar Institute of Technology**



Diptanshu Mishra (SE)

- **Winners at Group Music IIM Ahmedabad Chaos 2023**



Shagun Gupta (SE)
Laksh Doshi (SE)

Gaurav Wadhva(BE)
Isha Parab(TE)

- **1st Runner Ups at Group Dance IIM Ahmedabad Chaos 2023**
- **Winners in Group Dance of Verve 2023 at Vidyalankar Institute of Technology**
- **Runner Ups in Group Dance of Symphony 23 at KJ Somaiya College of Engineering**



Laksh Doshi (SE)

**Solo Dance Competition Winner of Groove 2023
organized by TSEC Student Council.**



Vedant Shinde (SE)
Ayush Singh (SE)

Harsh Makharia (SE)
Hriday Jain (FE)

Shipra Suvarna (SE)
Jainam Ranawat (SE)

**Team IT Smashers- Winners of Kurukshetra 2023
organized by RCTSEC.**



Jason D'souza (TE)

**Cleared the National Level NCC 'C' Certificate examination
with 'A' grade and first ranker in his detachment.**



Swati Vettiyattil (BE)

2nd Runner Up of Diversity Hackathon 2023 by Standard Chartered



Anas Khan (SE)

Panel Discussion member for Open Source Software, IIT Bombay.



Ninad Naik (SE)

1st Runner up at Csx battle organized by CSI TSEC.

Hackathons



Winners of Smart India Hackathon 2022

Shreya Manjucha(BE)
Muskan Gupta (BE)
Priyansi Chogale (BE)

Zubiya Alvi(BE)
Nidhi Kochar (BE)
Arpita Pawar (BE)

The Unforgettable Win: Generic Genius SIH'22 Journey

Participating in the Smart India Hackathon (SIH) marked a thrilling chapter for our Team GenericGenius. Focused on the challenge presented by the University Grants Commission (UGC), our mission was to develop a cross-platform application for language translation, aiming to boost the use of Hindi in official matters. Our journey unfolded as a captivating rollercoaster ride, full of highs and challenges.

The hackathon unfolded in three rounds, beginning with an internal college round. This phase not only tested our technical strengths but also strengthened our camaraderie as we worked together to overcome challenges. The subsequent rounds, both internal and at the nodal centre, further pushed our limits, exposing us to diverse problem-solving approaches and innovative solutions.

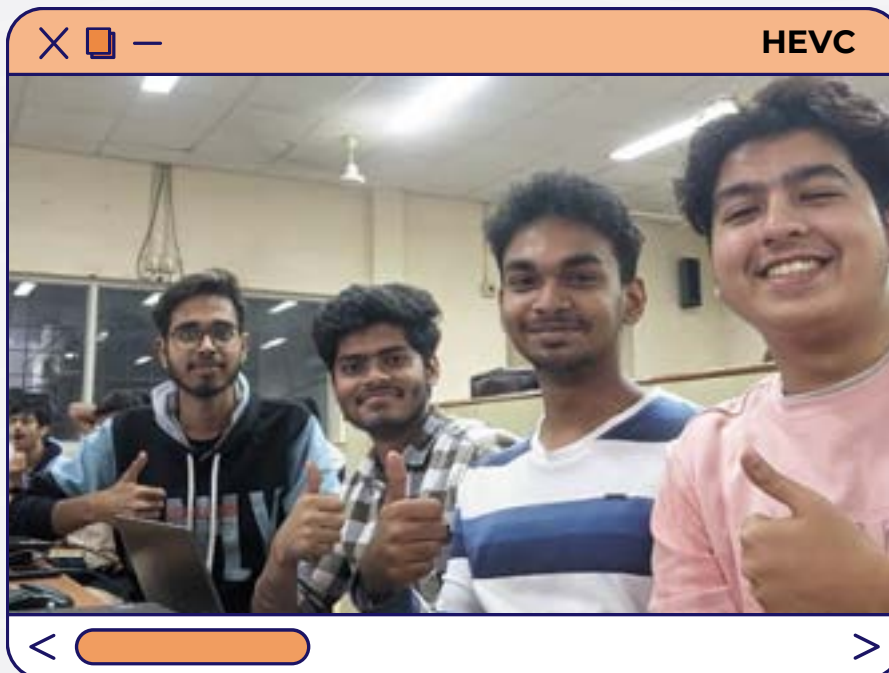
The hackathon period was an intense 36-hour sprint, during which we collaborated seamlessly to bring our vision to life. The race against time added an extra layer of excitement, pushing us to work efficiently and creatively. Amidst coding marathons, debugging sessions, and occasional moments of fatigue, the team persevered, fueled by a shared commitment to excellence.

From the inception of brainstorming solutions, navigating through numerous reviews for enhancement, ensuring meticulous logistics, to making travel arrangements for the nodal center – every step was a blend of excitement and anticipation. The climax was reached during the intense 36-hour offline hackathon, surrounded by like-minded, solution-driven enthusiasts.

We would like to take this opportunity to thank Thadomal Shahani Engineering College for providing the essential platform and resources that nurtured our innovative spirit. Special acknowledgement goes to our mentor, Dr. Shanthi Therese, whose invaluable guidance steered us toward success, and the entire IT department and Dr. Tasneem Mirza for their unwavering support and encouragement.

Our SIH Hackathon experience was a transformative journey, from ideation to execution. The experience not only honed our technical skills but also instilled in us a sense of accomplishment and the belief that our solutions can make a meaningful difference in solving real-world challenges.

Hackathons



1st Runner ups of TECHNOVANZA VJTI, February 2023

Anas Khan (SE)

Sarthak Tanpure (SE)

Sumil Suthar (SE)

Ajaykumar Maurya (SE)



1st Runner Ups of CRESCENDO HACKATHON, March 2023

Arohi Jambenal (SE)

Shreya Bagade (SE)

Nidhi Shinde (SE)

Hackathons



Winners of ERR_404 5.0 HACKATHON, March 2023

Ayesha Nagdawala (SE)
Mamta Gupta (SE)

Meetali Kapse (SE)
Archie Shah (SE)



2nd Runner Ups of ERR_404 5.0 HACKATHON, March 2023

Anas Khan (SE)
Sarbhak Tanpure (SE)

Sumil Suthar (SE)
Ajaykumar Maurya (SE)

Hackathons



Winners of TIAA Intercollege Hackathon, May 2023

Prasad Ranjane (TE)

Prateek Vishwakarma (TE)

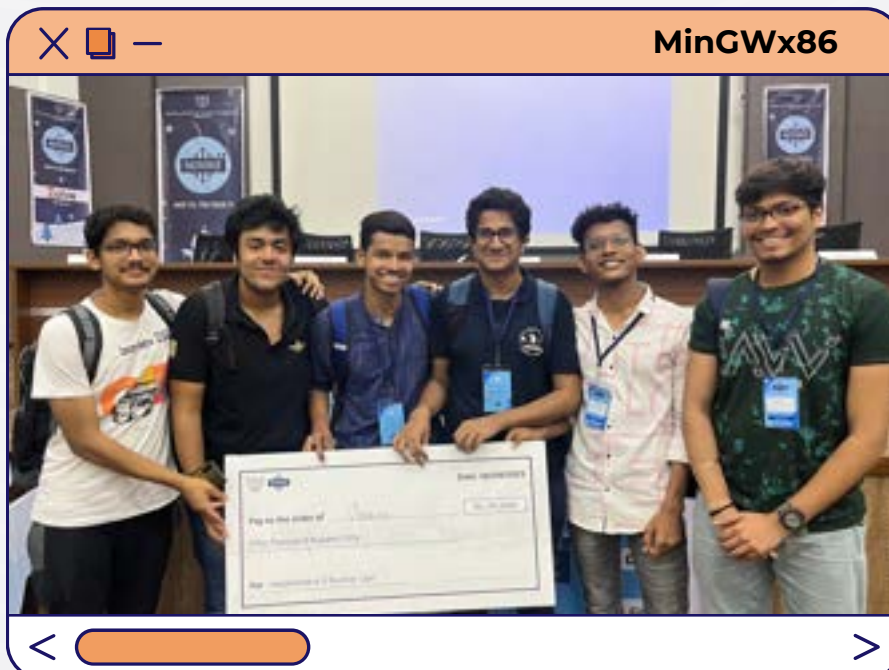
Archit Rathod (TE)

Nahush Patil (TE)

Siddharth Nachane (TE)

Veer Pariawala (TE)

Swapnil Vishwakarma (TE)



1st Runner Ups of NITK HACKATHON, April 2023

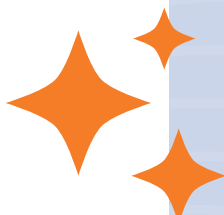
Omkar Bhostekar (TE)

Aditya Surve (TE)

Siddhesh Shetty (TE)



B.E Awards



B.E Awards

The annual B.E Awards ceremoniously recognized the outstanding achievements of our graduating class. The coveted Gold Medal and Principal's Award were presented to deserving students. Additionally, student ambassadors and leaders were acknowledged for their vital contributions to the College's vibrant community. This event marked a significant milestone for our graduating class, celebrating their accomplishments and their journey at our department.



Principal's Award of Excellence



Ruchit Thaker



Isha Nalawade



Rishabh Patil



Nidhi Chandarana

Student Ambassadors



Vinisha Adappa



Bhagavatiraj Yadav



Kevin Masalia



Nidhi Chandarana



Unnati Sorathi



Rishabh Patil



Bhavya Sheth



Jay Mistry

Envoy Awards



Arpita Pawar



Balaji Wadawadagi



Isha Nalawade



Leena Kirtikar



Manasi Bhagwat



Muskan Gupta



Nidhi Chandarana



Priyansi Chogale



Rishabh Raghuvanshi



Sanjeevan Bapat



Varun Bhangre



Shreesh Srivastava



Vinisha Adappa



Nidhi Walavalkar

Hall of Fame



Ruchit Thaker



Isha Nalawade



Zubiya Alvi



Nidhi Kochar



Priyansi Chogale



Arpita Pawar



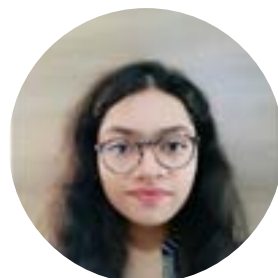
Shreya Manjucha



Muskan Gupta



Balaji Wadawadagi



Trisha Shetty

Leadership Awards



Kevin Masalia



Dishant Israni



Darshan Rander



Tanvi Khasgiwal



Nidhi Chandarana



Akshat Shah



Udit Kumar Jain



Gaurav Wadhwa



Isha Nalawade



Ruchit Thaker

Smart India Hackathon Winners



Gayatri Joshi



Muskan Gupta



Zubiya Alvi



Nidhi Kochar



Arpita Pawar



Priyansi Chogale



Shreya Manjucha

Developer's Club Award



Aaditya Chinchkhedkar

Best NSS Volunteer



Asmi Gawade



Creativity Corner



**“Creativity is seeing what others see and thinking what no one else ever thought.” –
Albert Einstein**

Creativity is the vibrant thread that weaves through the fabric of human existence, infusing life with colors unseen and melodies unheard. It is the daring leap into the unknown, the unfurling of imagination's wings to soar beyond the boundaries of convention. In a world increasingly mechanized and scripted, creativity stands as the torchbearer of innovation, beckoning us to explore uncharted territories and chart new courses.

Within the heart of our department, creativity thrives as a vibrant ecosystem, nourished by the fertile soil of inspiration and collaboration. Here, students and faculty alike cultivate the seeds of innovation, tending to them with care and dedication as they blossom into works of art, design, and discovery.

Let's have a look at the creativity, the faculties and students of our department have displayed.



Manav Dave- SE



Jason D'souza- TE

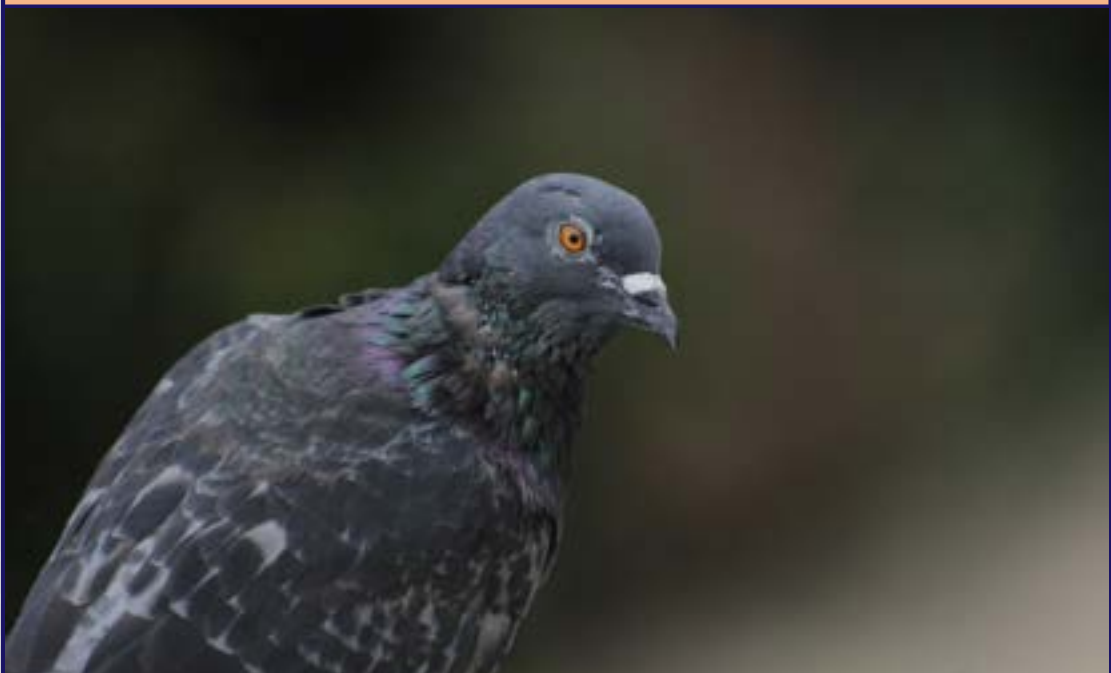




Medhaj Sarang- SE



Harsh Sharma - SE



○○○

Omkar Bhostekar- TE



○○○

Arush Karekar - SE



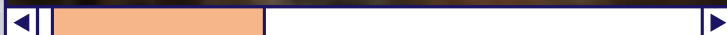
○○○

Shreya Bagade - SE



○○○

Madhur Rajpal - TE



○○○

Meetali Kapse - SE



○○○

Shreya Kamath - SE



○○○

Rudrani Chavarkar- SE



○○○

Meetali Kapse - SE





Dr. Mukesh Israni

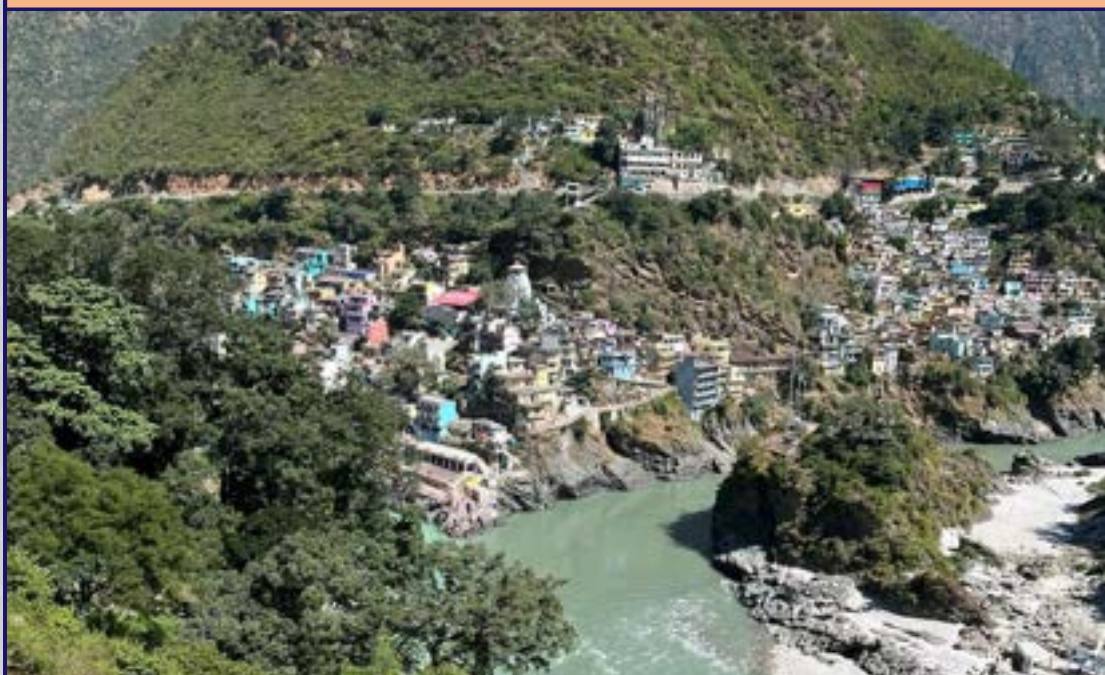


Dr. Shanthi Therese





Dr. Mukesh Israni



Dr. Shanthi Therese



○○○

Eshika Shetty - SE



○○○

Ayesha Nagdawala - SE



○○○

Shreya Kamath - SE



○○○

Archie Shah - SE





Shagun Gupta - SE



Harsh Sharma - SE

The Perfect Life

Right from the moment we are born we are always conditioned or made to believe that we must have the perfect or the ideal life as shown in movies and shows. But what is the perfect life?

Is it having the perfect family, perfect childhood, perfect academic education, perfect life-partner, perfect career...

The very definition of perfect has changed in the modern world, the world isn't just that simple anymore.

Having the perfect life doesn't mean you will get the opportunities you desire, the partner you love, the choice of career you want. Having the perfect life means no matter what you face in life making sure that you accept it and make the best out of it and most importantly with a smile, knowing that you will go to bed at night and sleep peacefully being satisfied with what you're doing and being happy at the moment in time.

I'll give you an example one of my most favourite games GTA (grand theft auto), I have completed this game thrice but you know what was the best thing I learned from this game. It was when I finished this game for the first time even though completing all the main story missions, the checklist of the game completion showed less than 75%, later I realised to get a full 100% checklist along with the main story line mission you also have to do some mission and tasks that are not related to the main story and have to go out of the way to complete those essentially these are to have fun while playing the game and finding out what you are good at in the game and then only can you get a full 100% completion score.

What if our life is also based on the same structure? To have a perfect life sometimes we need to go out of the way of our monotonous life and discover ourselves, what we are good at, enjoy life for what it is.... Not saying that don't take life seriously obviously you should we have only one chance at it.

But taking out time and doing stuff to enjoy life is also an essential part of living life.

Maybe then you can say that you lived a PERFECT life...

- **Jason D'souza (TE)**

Unsaid lines, heartfelt thoughts

These songs of love,
Never fascinated me as such;
And how would they?
'Cause I didn't know you much!

-**Manav Dave (SE)**

Words can't express,
How beautiful you looked!
The day I saw you,
I was totally hooked.

-**Manav Dave (SE)**

Haven't seen you for so long,
Still, I fall for you every day;
Believe me, had it been some attraction,
This feeling wouldn't stay.

-**Manav Dave (SE)**

The moon is pretty,
Prettier with you;
Never said you what I feel,
What if, you already knew?

-**Manav Dave (SE)**

Tangled Thoughts

I'm just a reckless kid, who can do nothing.
So don't try to convince me that
I'm competent enough of doing something
worthwhile or significant and
I can actually make a difference.
Your uncertainty makes me wonder if
I have what it takes to take a leap through the
hindrance.
And I am aware of the truth that
I'm not substantial or thoughtful enough.
And you will never be able to convince me that
I still deserve a chance to express myself.
Because no matter what I do,
I can't put my heart and soul into this.
I'd be lying if I say
The potential of changing the world does exist
within me
Because whenever I look at myself I always
ponder that
Am I not capable enough ?

(now read it bottoms up)

-Ayesha Nagdawala (SE)

Clusters

Distance, afar even light has to spar.
Its a quest for our sight to see you.
In this clutch can't find you.
Are you there? We don't know.
As the gap between us won't let me
know.
The cosmos is growing, might even
have clones.
Are we even alone?

-Harsh Sharma (SE)



Distinguished Alumni





Rekha Navani (2011)

Senior Agent, Entertainment Partnerships
Dharma Cornerstone Agency



Radhika Mody (2011)

Product Manager at Stripe



Manasi N.J. (2011)

Director at EY



Darshan Pania (2012)

Associate Director of Engineering
at CleverTap



Chinmay Rane (2012)

Macro Desk Strategist at Balyasny
Asset Management L.P



Devesh Makhijani (2012)

Senior Associate Vice President at
Darashaw



Tushita Roychaudhury (2014)

Software Development Engineer
at Amazon



Vishal Manghani (2014)

RXO, Lead Engineer Technology
at Quality Assurance



Roshni Masand (2015)

Founder of CuCoBox



Chirag Shah (2017)

Senior Software Engineer at
BrowserStack



Ritu Advani(2018)

Director at QuGates
Technologies



Gaurav Mirchandani (2020)

Co-Founder and COO at The Hobby
Tribe



Testimonials



CLASS OF 2011



Ankur Jhaveri

If there was one piece of advice I'd give engineering students, it would be to take the final year project seriously. For us, it was probably the most interesting and most useful learning we had in the 4 years of engineering. Let's you apply what you've learnt in the 4 years and see it practically, making you ready for the corporate world.

The second advice I'd want to give, is for students who have classes on floors above 6 - start working out, you'll need the stamina when the lift isn't working :D

CLASS OF 2012

The experience at TSEC, right from standing in the queue to get my admission till standing in the queue for my viva exams every semester and then finally in the queue for my placement interviews, was something that we can never summarize in few words..All the life-long friends, mentors and teachers we met, has shaped our careers and lives...helping us excel in both, our personal and professional lives...



Harnish Shah

CLASS OF 2014



Arpit Agarwal

The TSEC IT department has been a treasure of knowledge. The teachers are always there to help outside of the regular lectures and college hours as well. The department has played a major role in success of many students in the past, and I'm sure will keep doing the same always.

CLASS OF 2018



Vijay K Lachhani

TSEC's B.E. programme in Information Technology offered a great opportunity to learn, grow, and start a career. As I think on my time at TSEC, I am reminded of how beneficial and formative the experience was for me, both personally and professionally.

During my three years of graduation, I formed life-long friendships with both instructors and students. Throughout my graduate studies, the lecturers provided tremendous assistance and guidance, which I still seek now. Furthermore, the student body was engaged, cultivating a culture in which students learn from one another, celebrate one another's triumphs, and support one another during difficult times. Because of the collegial atmosphere, I was continually encouraged by the lecturers and fellow students as I worked through classes, research projects, and the dissertation process.

CLASS OF 2020

Hello there! As an alumnus of TSEC, I'm delighted to share some insights and experiences with the current students. My time at TSEC was truly transformative. Not only did I acquire valuable technical skills, but I also developed crucial soft skills through various extracurricular activities and interactions with peers and faculty.



Tamanna Chhabria

My advice to current students would be to make the most of every opportunity that comes their way, whether it's participating in hackathons, joining clubs and societies, or networking with industry professionals. Building a strong professional network early on can open doors to exciting career prospects. Additionally, don't forget to enjoy the journey – college is not just about academics but also about forging lifelong friendships and creating cherished memories. So, work hard, stay curious, and embrace the challenges because they will shape you into the IT professionals of tomorrow. Best wishes to all the students.



Our Team





Dr. Mukesh Israni
Faculty In-Charge



Dr. Shanthi Therese
Faculty In-Charge



Prof. Kumkum Saxena
Faculty In-Charge



Rudrani Chavarkar
Editor and Designer



Meetali Kapse
Editor and Designer



Shreya Kamath
Editor and Designer



Mahima Verma
Editor and Designer



Vedant Hariyan
Editor and Designer



Aryaa Patil
Editor and Designer



Rohan Naik
Editor and Designer



Hriday Jain
Editor and Designer



**"NEVER STOP FIGHTING UNTIL YOU
ARRIVE AT YOUR DESTINED PLACE - THE
UNIQUE YOU.**

**HAVE AN AIM IN LIFE, CONTINUOUSLY
ACQUIRE KNOWLEDGE, WORK HARD,
AND HAVE PERSEVERANCE TO REALISE
THE GREAT LIFE."**

-A. P. J. Abdul Kalam

