



Vishwakarma Government Engineering College
Chandkheda, Ahmedabad - 382424



NEWSLETTER'22

Volume 7 : Jan 2022 - Dec 2022

DEPARTMENT OF INFORMARMATION TECHNOLOGY



Nr. Visat three roads, sabarmati-koba
highway, Chandkheda, Ahmedabad-24

www.vgecg.ac.in | (079) 26293866



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From the Department Co-ordinator's Desk



The department of Information Technology is thrilled to unveil the 2022 edition of VGEC IT newsletter. Being a member of an organization that produces top-quality engineers is a source of immense pride for us. As one of the major suppliers of IT professionals globally, India carries the responsibility of producing socially responsible, highly skilled, and technically adept engineers. We aim to fulfill this responsibility and contribute to the growth of the IT industry through our graduates.

At VGEC IT Department, our focus is on cultivating a responsible and capable young generation. To this end, we organize seminars and workshops that facilitate dialogue between students and industry experts. Our students are also encouraged to participate in SSIP (Student Start-Up Innovation Programme) and various hackathons, which provide valuable experience and foster a competitive spirit in tackling real-world problems. Additionally, we encourage students to engage in competitive coding on platforms such as Leetcode, Codechef, Hackerrank, and more. Internship opportunities are also promoted to enable students to gain industrial experience and prepare for the constantly evolving modern world. Our ultimate goal is to foster the holistic professional development of our students and equip them with the skills they need to embark on a journey of lifelong learning.

Our NBA re-accreditation provides our students with access to cutting-edge resources to aid them in achieving their goals and pushing their boundaries. Additionally, we are thrilled to report that various events, such as seminars, techfests, placement drives, research activities, and more, have been thriving and providing valuable learning opportunities for all our students. These events are helping our students to learn, grow, and achieve their full potential.

- Dr. V. D. Patel (Department Co-ordinator, IT, VGEC)

Vision

“The department aims to nurture students to be IT professionals who are innovative and technically competent to meet the advancements in industrial and societal needs.”

Mission

1. To produce technically competent and socially responsible graduates.
2. To develop well-equipped laboratories to gain practical exposure in IT practices.
3. To support research culture, consultancy work and enhancement of entrepreneurship skills.
4. To enhance industry linkage for good placements and real-world exposure.
5. To encourage, involve and support students for environmental and social wellbeing.

Department Best Practices

1. Pedagogy sessions on recent technology by faculties.
2. Outcome based learning, Continuous mentoring and evaluation of student projects.
3. Faculties work on funded research projects to engage students in research related activities.
4. Organize seminars, workshops, expert sessions in cutting edge technology like IOT, Data Analytics, Big data, Machine learning.
5. Conduct remedial sessions for weak students.
6. Collaboration with industries in projects.
7. Arrange expert sessions for all round development of students to make them industry ready.

Program Educational Objectives (PEOs)

1. The graduate will be a competent professional with high-level technical proficiency in the field of Information Technology to identify problems and develop innovative solutions to meet the industrial needs.
2. The graduate will exhibit professionalism, teamwork, leadership skills, and lifelong learning.
3. The graduates will ethically apply their computing knowledge and skills considering societal, economic, and environmental factors.
4. The graduate will be intellectually competent to pursue higher education and conduct research-oriented activities.

Program Specific Outcomes (PSOs)

1. Demonstrate proficiency in one of the emerging Technology like Data Science, Machine Learning, and Web/- Mobile Application Development.
2. Demonstrate skills to design, develop and test software systems to provide solutions to real-world problems

Department Profile

Name of the Department	Information Technology
Course	Bachelor of Engineering
Year of Starting	1999
1st Year Approval by Council	1999 742-1-5(GUJ)/EI/99, 6/7/99
Year Wise Secnctioned Intake	60
NBA Accreditation Details	2022-2025(File number: 20-43-2010-NBA:DT 22/12/2022)
Approved by AICTE, New Delhi	vide File no. Central/1-10974696414 /2022/EOA dated 03.07.2022
Affiliated to Gujarat Technological University, Ahmedabad	vide File no. GTU/Ins_Affi/017 /2022-23 dated 28.07.2022

Faculty Profile

Faculty Name	Designation
Prof. (Dr.) Vibha D Patel	Professor
Prof. (Dr.) Chirag A Patel	Associate Professor
Prof. Shailesh J Molia	Associate Professor
Prof. Vallabh G Patel	Assistant Professor
Prof. (Dr.) Dhaval J Varia	Assistant Professor
Prof. Nikunj C Gamit	Assistant Professor
Prof. Jashvant R Dave	Assistant Professor
Prof. Chetna G Chand	Assistant Professor
Prof. Naimisha S Trivedi	Assistant Professor
Prof. Jignesh H Vania	Assistant Professor
Prof. Dipak C Patel	Assistant Professor
Prof. Om P Mehta	Assistant Professor
Prof. Manmitsinh C Zala	Assistant Professor

Gallery



Orientation 2022

The Orientation 2022 was a transformative experience for every engineering student who participated. It was a comprehensive program designed to improve their skills and mindset, and prepare them for the challenges they will face in their future careers. The program was held over two weeks, from September 9th to September 22nd, and was divided into three phases.

In the first two phases, students participated in sessions on Universal Human Values, Virtual Activity, Innovations, Literary and Proficiency Modules. These sessions helped students to develop an innovative and kind mindset, and provided opportunities to interact with eminent people in the field of engineering. Creative arts sessions were also held, where students engaged in activities that helped them to improve various skills such as public speaking, presentation, paper arts, and generating sharp ideas.

In the final phase of the program, students discussed their problems, ideas, engineering careers, placements, and future planning with faculty, seniors, and alumni. The objective of this phase was to make students comfortable with the college atmosphere and with each other. The program gave students the ability to be ready for different situations in their lives where they will need both technical and non-technical skills. They got to know about different ideas and innovative mind-

mates, seniors, and other people from the orientation, which enhanced their ability to think.



This 2-week Orientation was a booster dose for the students, enhancing their human values and helping them become better people. The program was extremely helpful for both Freshies and Seniors, as Freshies were made aware of the college atmosphere, and seniors got a chance to further build their management skills, public speaking skills, and much more. With the skills and mindset they gained from the Orientation, every engineer can change the world in any direction that people want.



“

**Let's go invent tomorrow
instead of worrying about
what happened yesterday**

- Steve Jobs

VGEC IT Accomplishments

• NBA Accreditation

The department of Information Technology is proud of its recent achievement which includes Accreditation from the National Board of Accreditation (NBA) once again for a period of 3 years 2022-2025. Batches till 2025 will get benefit from this accreditation. This accreditation is a result of continuous and seamless efforts of faculties and the students.

Departmental Activities

• A Webinar on “Architectural insights on state of the art big data processing and analysis framework”



The Information Technology Department organized a webinar on "Architectural Insights on State-of-the-Art Big Data Processing and Analysis Framework" on 22nd February 2022 by Dr. Sumit Kalra, an Assistant Professor at IIT Jodhpur, on an online platform. Dr. Kalra, who is an expert on big data processing, IoT, and software framework, shared enriching insights on his expertise. The objective of the event was to provide an idea of the current scenario in the world, which is affected by big data. The following points were discussed: the importance of big data in our world today, understanding possible solutions for solving big data problems, and the role of the next generation in solving unsolved problems related to big data.

• A Webinar on “Start-Up talk on GreenoBazaar”



The Information Technology Department under the Student startup and support policy. Organized an online webinar on “Start-Up talk on GreenoBazaar” on 5th March, 2022. The webinar was conducted by the expert Mr. Rajan Patel (Founder & CEO GreenoBazaar, Ahmedabad). The webinar was attended by 70+ students of various department of VGECE, Chandkheda. The main purpose of the webinar was to make students aware about innovation, start-ups and entrepreneurship. New Entrepreneurial Ideas in current time are discussed by expert. How to validate your idea and up to what extend you can scale it was also discussed by expert. The fundamental resources to own and run a start-up are explained with example of Tesla Car. Key facts and various hurdles in the business are also briefed with case studies. Expert also described how to start thinking towards the start-ups and innovations and how to build it and shared some resources which proved to be very helpful to every students.

● A Faculty Development Program on “Industrial Revolution 4.0 Technology”

The Information Technology department organized a Faculty Development Program on Industrial Revolution 4.0 Technology – Cloud Computing under the TECH SAKSHAM PROGRAM in collaboration with Edunet Foundation, Microsoft, and SAP during 28th March - 1st April, 2022. Participants gained elaborated knowledge about cloud computing and all the services regarding deployment in Microsoft Azure. Sixty-nine faculties from various colleges in the state participated in this FDP. The sessions were conducted by senior experts from Microsoft and SAP with faculties of VGEC. Topics covered included Cloud-Based Database Management, Cloud Native Application Development, Cloud Native Cognitive Services for AI-Based Applications, Using AI NLP Services for Sentiment Analysis, Demonstration of Private Cloud using "OpenNebula", Docker Containers, Pedagogy, and Design Thinking.



● An Expert talk on “Machine Learning and AI in healthcare”

The Information Technology Department organized an Expert Talk on "Machine Learning and AI in Healthcare" by Mr. Abbas Dhilawala, Chief Technology Officer, Galen Data, Houston, Texas in online mode on 31st March, 2022. The expert discussed topics such as the importance of machine learning in the medical field, AI case study – drug discovery and trial, and the future of machine learning and artificial intelligence. Eighty-nine-plus students from various departments of VGEC participated in the program.



● SAP Transformation Bus Exhibition Visit

"The SAP Transformation Bus Exhibition Visit" was conducted to make students aware of SAP and its various products at VGEC campus. 33 students from the IT department at VGEC participated in the visit. The SAP experts taught the importance of SAP and its usefulness in designing solutions, along with the role of SAP in providing digital solutions.



● A Workshop on AI and ML

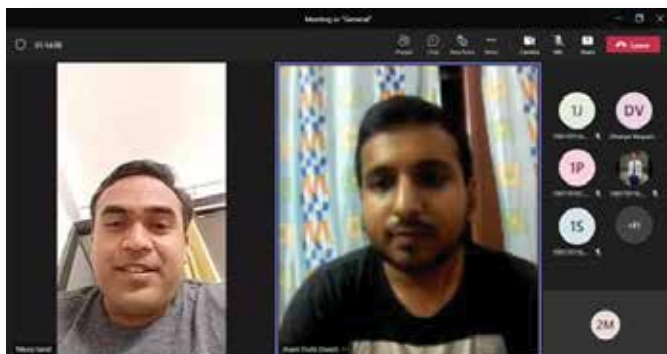
The department had organized a workshop on AI & ML in collaboration with _VOIS Tech Company on April 29th and 30th, 2022 in B Block, VGEC. The workshop included hands-on sessions on AI & ML and deep learning. It was organized for 3rd and 4th-year engineering students to bolster their skills and enable them to design meaningful solutions to real-world technological problems. The sessions were conducted by company experts.

● “Alumni Interaction for Placement Perspective” session at Simform

The Department of Information Technology has organized a session “Alumni Interaction for Placement Perspective” on 19th July, 2022 through online mode. The objective of the event was to prepare students regarding placement and giving guidance regarding various career options at Simform.

● A session for “Alumni Interaction for Placement Perspective”

The Department of Information Technology had organized a session “Alumni Interaction for Placement Perspective” on 19th July, 2022 through online mode. The objective of the event was to prepare students regarding placement and giving guidance regarding various career options at Simform.



The Department of Information Technology had organized a session “Alumni Interaction for Placement Perspective” on 20th July, 2022 through online mode. The objective of the event was to prepare students regarding placement and giving guidance regarding various career options at Argusoft.

● An Industrial Visit to “EINFOCHIPS”



The Department of Information Technology organized an industrial visit to EINFOCHIPS, Ahmedabad, for 5th-semester IT students on September 6th, 2022. A group of 48 students participated in the visit, accompanied by faculty members Prof. Om Mehta and Prof. Jashvant Dave.

● Techfest “TechXIT 2022”



The Department of Information Technology's 3rd-year students organized a Techfest called "TechXIT 2022" on October 1st, 2022, in collaboration with the IE(I) Chapter of VGEET. The Techfest aimed to develop various soft technical skills through multiple technical events. The department received an overwhelming response to all events, making it a magnificent success. TechXIT 2022 had over 130 total participants from the department, and its motive was to develop students' co-curricular skills and expose them to current trends in the technical and professional fields. The event included various competitions such as Coding, Web Development, Quizzes, etc. Winners received a total prize money worth Rs 6,000/- for various competitions.



● An expert talk on “Practical approach to Convolution Neural Network (CNN)”



The Department of Information Technology has organized an expert talk on “Practical Approach to Convolutional Neural Network (CNN)”. The expert of the webinar, Prof. Rashmi M. Bhattad, is a faculty member at MMCOE, Pune, and specializes in various technologies, including machine learning and deep learning. Around 65 students from the 7th and 5th semesters of the IT department benefited from the event. The objective of the event was to introduce students to Convolutional Neural Networks and to familiarize them with Deep Learning. Students gained practical exposure to various concepts such as regularization and optimization, hyperparameter tuning, deep learning frameworks (TensorFlow and Keras), Convolutional Neural Networks and their applications, Recurrent Neural Networks and their applications.

Resource Persons

Dr Chirag A Patel

Delivered an expert lecture on “Cloud Computing Introduction and Demonstration of Private Cloud using Open Nebula” in online 5-day Faculty Development Program for “CLOUD COMPUTING” under the TECH SAKSHAM PROGRAM - Microsoft Azure organized by Information Technology Department, VGEC on 31st March, 2022.

Prof Manmitsinh Zala

Translated a book named “Programming for Problem solving” in Gujarati Language with Khanna Publication in AICTE book translation program (NEP 2020)

Prof Naimisha Trivedi

Delivered an expert talk on “Docker Containers” in Online 5-day Faculty Development Program for “IR 4.0 Technology – Cloud Computing” under the TECH SAKSHAM PROGRAM collaborated with Edunet Foundation, Microsoft and SAP on 1st April 2022

Faculty Research & Publication

Prof Dipak C Patel

Published a paper titled “A Cross-Domain Semantic Similarity Measure and Multi-Source Domain Adaptation in Sentiment Analysis” in International Conference on Augmented Intelligence and Sustainable Systems (ICAISS-2022). ISBN: 978-1-6654-8961-4, Nov 2022.

Dr Vibha D Patel

Published a paper titled “Evaluation of deep learning and transform domain feature extraction techniques for land cover classification: balancing through augmentation.” at Environment Science and Pollution Result(2022)

<https://doi.org/10.1007/s11356-022-23105-6>, September 2022.

Published a book chapter titled “Review of Weather-Affected Urban Air Pollution Forecast Models” at Artificial intelligence of Things for Weather Forecasting Climatic Behavioural analysis.

<https://doi.org/10.4018/978-1-6684-3981-4.ch015>, September 2022.

Published a paper titled “Crop type classification with hyperspectral images using deep learning: a transfer learning” at Modeling Earth Systems and Environment

<https://doi.org/10.1007/s40808-022-01608-y>, November 2022.

Published a paper titled “Brain Tumor Detection Using Supervised Learning: A Survey” at Intelligent Computing Instrumentation and Control Technologies <https://doi.org/10.1109/ICICT54557.2022.9917753> October 2022

Prof Dhaval J Varia

Published a paper title “Comparative analysis of artificial neural network and long short-term memory techniques for predicting air quality in smart cities: Ahmedabad city” at Indian Journal of Environmental Protection.

ISSN: 0253-7141 in May 2022

Faculty Participation

Prof Shailesh J Molia

Prof Dhaval Varia

Prof Naimisha Trivedi

Participated in Online 5-day Faculty Development Program during 28th March, 2022 to 1st April, 2022 for “IR 4.0 Technology – Cloud Computing” under the TECH SAKSHAM PROGRAM collaborated with Edunet Foundation, Microsoft and SAP

Prof. Jashvant R Dave

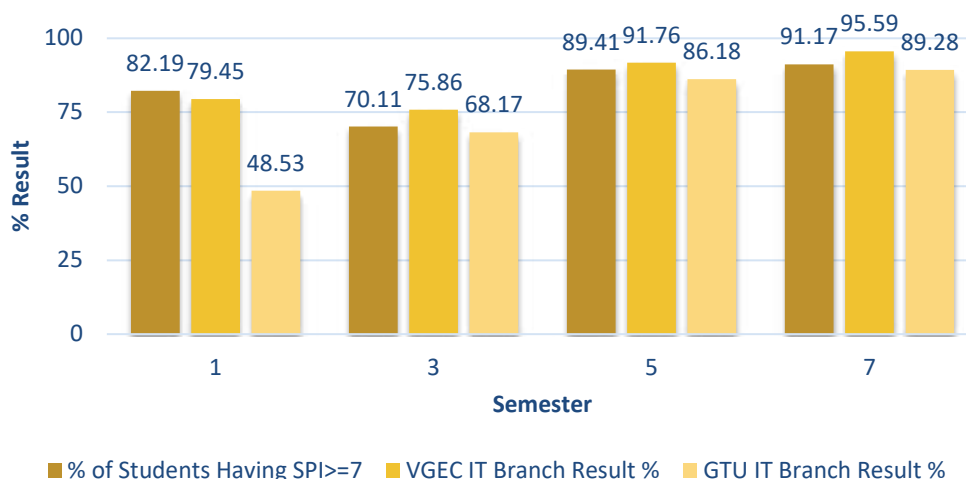
Successfully completed the 12 week MOOC course during July 2022 to October 2022 on “Programming in Modern C++” conducted by NPTEL, IIT Kharagpur with a consolidated score of 77%.

Prof Dhaval J Varia

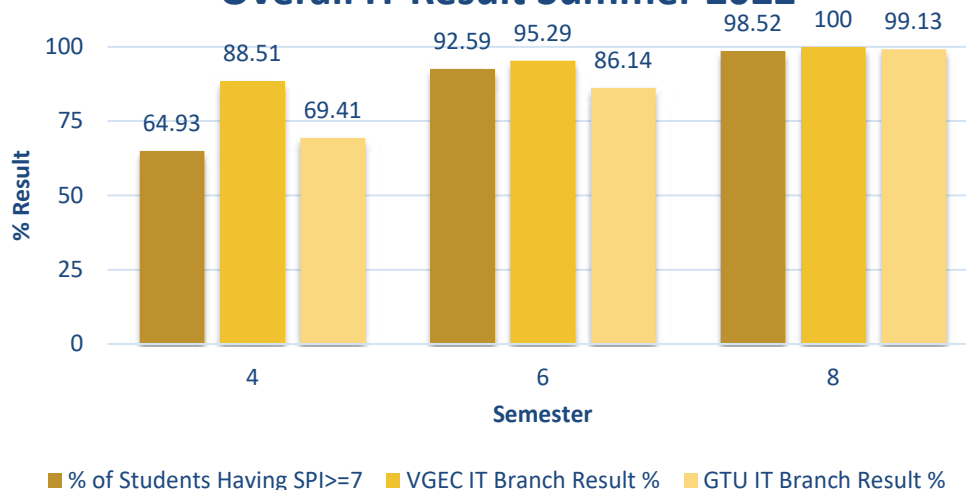
Participated in Faculty Development Program during 14th Feb., 2022 to 18th Feb., 2022 “Design And Development Of Iot (Internet Of Things) Application by NITTTR, Bhopal

Result Analysis

Overall IT Result Winter 2021



Overall IT Result Summer 2022



Student Achievements

Name of Student	Brief Description of Achievement	Name and Address of Awarding Agency	Month and Year of Award
Yaksh Bhesaniya	received a Gold Medal for standing first in Diploma Engineering	Gujarat Technological University	27th January 2022
Keval Maru, Nilay Doshi	Got selected in final round (Top 10) of Gujarat's largest Community Hackathon - HackSVIT (CodeGen) at HackSVIT	SVIT, Vasad (National Level Hackathon)	10th April, 2022
Yaksh Bhesaniya, Devarsh Mavani, Brijesh Sukhadiya, Raj Mahadevwala	the Winners of Ingenium 2022 Hackathon for the project "Speak and Code" (A web app for Specially-Abled Coders) at Ingenium 2022 Hackathon	Ahmedabad University	29th April, 2022
Jap Hirpara, Kesha Shah, Vishal Prajapati, Tanvi Zankat, Jayshree Vanparia, Divyesh Variya	A team named Abhimanyu from the Information Technology department was short-listed for the grand finale of Smart India Hackathon 2022. Students have successfully participated and demonstrated their solution at Lovely Professional University, Punjab by the students guided by Prof. Nikunj C. Gamit and Prof. Jashvant R. Dave	Grand Finale Round of Smart India Hackathon-2022	25th August and 26th August, 2022
Devarsh Mavani	Completed Google Summer of Code 2022, contributing to the open source organization MIT App Inventor	Google Summer of Code	12th September 2022
Raj Mahadevwala	Won FinHacks 2 Hackathon for Best Use of MongoDB Atlas	FinHacks 2	3 December 2022
Shubham Dusane, Ankit Verma, Ankit Chotaliya, Jap Hirpara, Shruti Jagtap, Denis Shingala	A Project named AUTSILEARN (web app and mobile app that provides visual learning for children who have autism) won the Special recognition award and cash prize of \$100 by VOSAP's International Assistive Technology Hackathon	LD college	7th December 2022
Raj Mahadevwala	Won Hack-On-Chain Hackathon for the project Hack For Society	Hack-On-Chain	10th December 2022
Mihir Someshwara, Vaishnavi Barot, Dharmit Shah, Bhavika Balasra, Abhi Shah, Diti Soni	A Project named YatriSahay-guidance application for tourists from the Information Technology department won 3rd prize and cash of 1500/- Rs in IDEATHON 2022 held by COGNIAN INCUBATION AND RESEARCH CENTER - SAL under .Students have successfully participated and demonstrated their solution at SAL university, Ahmedabad.	SSIP 2.0 & IIC 5.0.	23rd December 2022

Final Year Students



Dhruv Chauhan

SPI : 10.0



Hardik Singh Janmal

SPI : 10.0



Poojan Pandya

SPI : 10.0



Hatim Nalawala

SPI : 10.0



Yas Patel

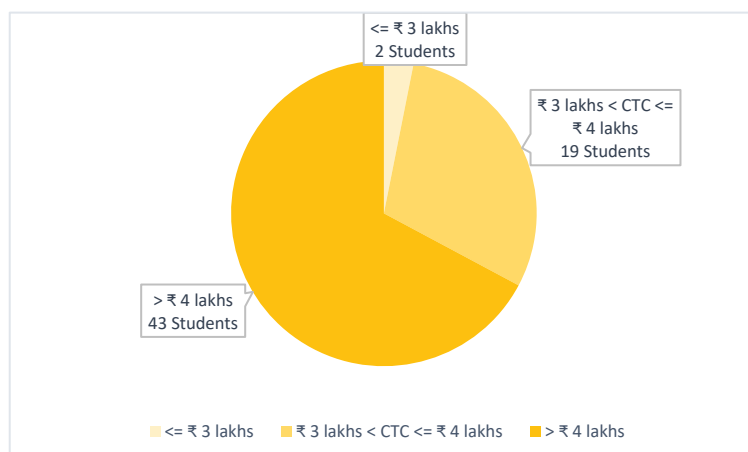
SPI : 10.0

Placement Cell

Sr. No.	Name	Company Name	Salary
1	Abhi Yamishkumar Shah	Argusoft India Ltd.	₹ 712,000
		Zeus Learning	₹ 720,000
		TCS	₹ 336,000
2	Akanksha Ramkumar Chauhan	Weblines India	₹ 360,000
3	Akshay Vithalbhai Dobariya	eInfochips Ltd.	₹ 400,000
4	Ankit Jayantibhai Chotaliya	IBM	₹ 360,000
		TCS	₹ 336,000
5	Ankit Omkarprasad Verma	Simform Solutions	₹ 650,000
6	Ashish Kanaiyalal Leuva	DRC Systems India Ltd.	₹ 400,000
		TCS	₹ 336,000
7	Ashish Popatbhai Parmar	Radixweb	₹ 400,000
8	Bansari Bhupendrakumar Thakker	Tatvasoft	₹ 480,000
9	Bhavika Rameshkumar Balasra	Argusoft India Ltd.	₹ 712,000
10	Brijeshkumar Jayshukhbhai Padsala	DRC Systems India Ltd.	₹ 400,000
11	Chintan Chimanbhai Togadiya	Maruti Techlabs Pvt. Ltd.	₹ 600,000
12	Denis Harsukhbhai Singhala	Simform Solutions	₹ 650,000
13	Dev Jeetendra Mehta	Simform Solutions	₹ 650,000
14	Dhainik Amrutbhai Suthar	Simform Solutions	₹ 650,000
15	Dharmik Kaushikbhai Gajjar	Radixweb	₹ 400,000
16	Dharmik Bharatbhai Vegda	Tatvasoft	₹ 480,000
17	Dharmin Mahendrabhai Gondaliya	IT Path Solutions Pvt Ltd.	₹ 300,000
18	Dharmit Jayeshbhai Shah	Simform Solutions	₹ 650,000
		Zeus Learning	₹ 720,000
19	Divyesh Mansukhbhai Variya	eInfochips Ltd.	₹ 400,000
20	Fenil Dineshbhai Patel	Meditab Group Of Companies	₹ 609,000
21	Gaurang Hemantbhai Bhoi	Meditab Group Of Companies	₹ 609,000
22	Harshilkumar Nareshbhai Lathiya	Tridhya Tech Pvt. Ltd	₹ 520,000
23	Helly Bhaveshkumar Prajapati	Simform Solutions	₹ 650,000
24	Hemal Darshanbhai Patel	Tatvasoft	₹ 480,000
25	Himaneesh Kishorbhai Sangani	eInfochips Ltd.	₹ 400,000
26	Jap Girish Hirpara	Argusoft India Ltd.	₹ 712,000
27	Jay Bharatbhai Prajapati	Optimum Solutions	₹ 400,000
28	Jay Chimanbhai Koshti	Simform Solutions	₹ 650,000
29	Jayshree Bipinbhai Vanpariya	Tatvasoft	₹ 480,000
30	Jil Niranjanbhai Patel	Simform Solutions	₹ 650,000
31	Kesha Parag Shah	Softweb Solutions Inc.	₹ 300,000

Sr. No.	Name	Company Name	Salary
32	Kevin Chetanbhai Patel	Tatvasoft	₹ 480,000
33	Khushali Bipinbhai Chauhan	Intellytics Solutions	₹ 640,000
34	Krupa Pankajbhai Khant	Bacancy Technology	₹ 450,000
35	Mihir Sureshkumar Someshwara	Simform Solutions	₹ 650,000
		Zeus Learning	₹ 720,000
36	Mitul Mahendrabhai Solanki	Riveredge Analytics Pvt Ltd.	₹ 400,000
37	Mitulsinh Jeevansinh Zala	Tatvasoft	₹ 480,000
38	Mohit Sampat Rathi	Bacancy Technology	₹ 450,000
39	Pranshu Sureshkumar Hasani	Tridhya Tech Pvt. Ltd	₹ 520,000
40	Raj Rameshbhai Ramani	Maruti Techlabs Pvt. Ltd.	₹ 600,000
41	Rajkumar Shaileshbhai Rabari	Asite Solution Pvt. Ltd.	₹ 600,000
42	Ravij Snehal Parikh	Simform Solutions	₹ 650,000
		TCS	₹ 336,000
43	Rohankumar Alpeshbhai M.	eInfochips Ltd.	₹ 400,000
		TCS	₹ 336,000
44	Ronak Rameshbhai Adroja	Meditab Group Of Companies	₹ 609,000
45	Sagar Maganbhai Desai	Logic Factor India Pvt. Ltd.	₹ 400,000
46	Sakshi Sandikumar Jain	Simform Solutions	₹ 650,000
47	Shivam Jayeshbhai Mojidra	Synoptek India Private Ltd.	₹ 550,000
48	Shobha Megharam Mistry	Argusoft India Ltd.	₹ 712,000
49	Shruti Shashi Jain	Primid Tech	₹ 900,000
50	Shubh Sunilkumar Vaghela	Asite Solution Pvt. Ltd.	₹ 600,000
51	Shubham Avinash Dusane	Tatvasoft	₹ 480,000
		Maruti Techlabs Pvt. Ltd.	₹ 600,000
52	Tanvi Jashubhai Zankat	Tatvasoft	₹ 480,000
53	Urvashi Bhagwandas Thakkar	Tatvasoft	₹ 480,000
54	Varshil Vimeshkumar Shah	Tatvasoft	₹ 480,000
55	Vraj Chandrakantbhai Patel	Aptologics	₹ 400,000

Total Interested Students	58
Placed Students	55
Total Offers	64



Creative Corner



Isha Sanghani
Sem - 4



**VISHWAKARMA GOVERNMENT
ENGINEERING COLLEGE**

DEPARTMENT OF INFORMATION TECHNOLOGY

Guided By
Prof Naimisha S. Trivedi
Editorial Team
Dhruvil Bhojani (200170116063)

Designed By
Mihir Someshwara (190170116068)
Dharmit Shah (190170116063)
Yaxita Amin(200170116066)