



Faculty of Technology and Engineering (FTE)
Devang Patel Institute of Advance Technology and Research
(DEPSTAR)
(A constituent institute of CHARUSAT)
(AICTE Approved Institute)

COMPUTER ENGINEERING

COMPUTER SCIENCE & ENGINEERING

INFORMATION TECHNOLOGY

About Charotar University of Science and Technology (CHARUSAT)

Charotar University of Science and Technology (CHARUSAT) has been conceived by Shri Charotar Moti Sattavis Patidar Kelavani Mandal. It is a not-for-profit premier education trust of India having a social lineage of more than 125 years. CHARUSAT has been established by promulgation of the Gujarat Private University Act, 2009. It is empowered to confer degrees under Section 22 of the UGC Act, 1956. Presently, CHARUSAT offers 72 programs from UG to Ph.D. under the wing of 9 Institutes, 5 Centers/Cells and 7 Faculties. They are in the associated disciplines of Technology & Engineering, Pharmacy, Computer Applications, Management Studies, Applied Sciences, Nursing, Physiotherapy and other Paramedical Sciences.

About Devang Patel Institute of Advance Technology and Research (DEPSTAR)

Devang Patel Institute of Advance Technology and Research (DEPSTAR) is a constituent institute of CHARUSAT. The Institute is managed through a think tank of technocrats, administrators, scientists and engineers, educationalists, businessman, stakeholders and other well-wishers from all parts of the world. DEPSTAR is patronized by IPCO Industries, headed by Philanthropist and Industrialist Shri Devang Patel. The Institute envisions being a forerunner in teaching and research in advanced technologies. For this in years to come, It will be an Institute with advanced Infrastructure, distinguished faculty, networking with global Institutes and Implementing the most modern processes.

Vision:

“To emerge as eminent research driven entity in Education in the field of Computer Engineering to meet the needs of the fast-paced modern society.”

Mission:

“To develop competent and responsible Computer Professionals for amelioration of the society at large.”

Bachelor of Technology (B. Tech) Program

Computer Engineering 120 Seats

Computer Science & Engineering 120 Seats

Information Technology 60 Seats

DEPSTAR Staff Strengths and Achievements

- The institute comprises dedicated, faithful and experienced faculty members with adequate qualifications from various reputed institutions.
- The staff have also cleared various entrance exams like UGC-NET and GATE and are Gold Medalist from reputed universities.
- The staff members of the institute are either Ph.D. or pursuing Ph.D.
- Staff members have published 90+ journal papers, 70+ conference papers and 30+ book chapters till the date.
- All the staff members are involved in active participation in various professional bodies like ACM CSI and IEEE.
- Staff members undergo industrial training in summer vacation to enhance their technical and practical knowledge.
- Staff members of DEPSTAR received the best research paper award and National Award by Indian National Engineering Academy (INEA) in New Delhi.

Student-Centric Support

- Industrial visits are planned for the students twice a year to make them aware of the industrial environment.
- Students are provided support to prepare and appear for various competitive exams, like TOEFL, GRE, GATE, CAT, IELTS.
- Use of NPTEL, COURSERA, Google Classroom, SWAYAM, edX, Microsoft Teams, Moodle and Edmodo is done for holistic development of students.
- Career Development and Placement Cell guides the students throughout their study years for the betterment of their career.
- There is a Women Development Cell for encouraging women empowerment.
- Activities are conducted with the support of the Alumni Association and Parent-Teacher Association.
- A health checkup once a year is scheduled in association with CHARUSAT Healthcare and Research Foundation (CHRF).
- The students are counseled and encouraged in the areas of Academic, Social, and Personal Matters through a structured Student Wellness Program assisted by Clinical Psychologist.
- The University and Institute organize technical and non-technical festivals like SPOURAL and Cognizance respectively for the holistic development of the students.
- Students are provided with an opportunity to avail UG Student Fellowship (UGSF) under the supervision of staff members.

INFRASTRUCTURE

CHARUSAT Sophos Information Security Lab

- CHARUSAT Sophos Information Security Lab
- 2 High-End HP Servers – Dell ProLiant 390.
- 3 Manageable Switch and 5 LED TVs



Mobile Application Lab (MAC LAB)

- APPLE IMac 21"
- Core i5 1.6 Ghz/8GB/1TB/Intel HD, Graphics 6000.



Augmented Reality and Virtual Reality Lab

- ZSpace display: 24 inch HD LCD (1080p/120Hz) with built-in tracking sensors.
- Stylus with 3-buttons and integrated infrared LED.
- Polarized passive eyewear.



Anita Devang Patel Ipcowala Center of Excellence in Artificial Intelligence (ADPICoE(AI))

- NVIDIA DGX Station A100 (160 GB GPU)
- 4 NVIDIA Workstation 12/16 GB GPU.
- 10 NVIDIA Jetson nano developer kit and 5 drones.



- Best Placements
- Best Funding for Startups & Research

- Best Scholarships
- Best Study Abroad Opportunities

DEPSTAR ADVANTAGES



Highly Qualified
Faculties



Merit-based
Scholarships



Industry Relevant
Curriculum



Student Holistic
Development Programme



Paperless Admission
and Examination



Digital Labs and
Seminar Hall

CHARUSAT CAMPUS AMENITIES



Gym
Facilities



24 x 7
Hospital Facilities



Indoor and Outdoor
Sports Facilities



Digital
Studio



Girl's
Hostel



Wi-Fi
Facilities

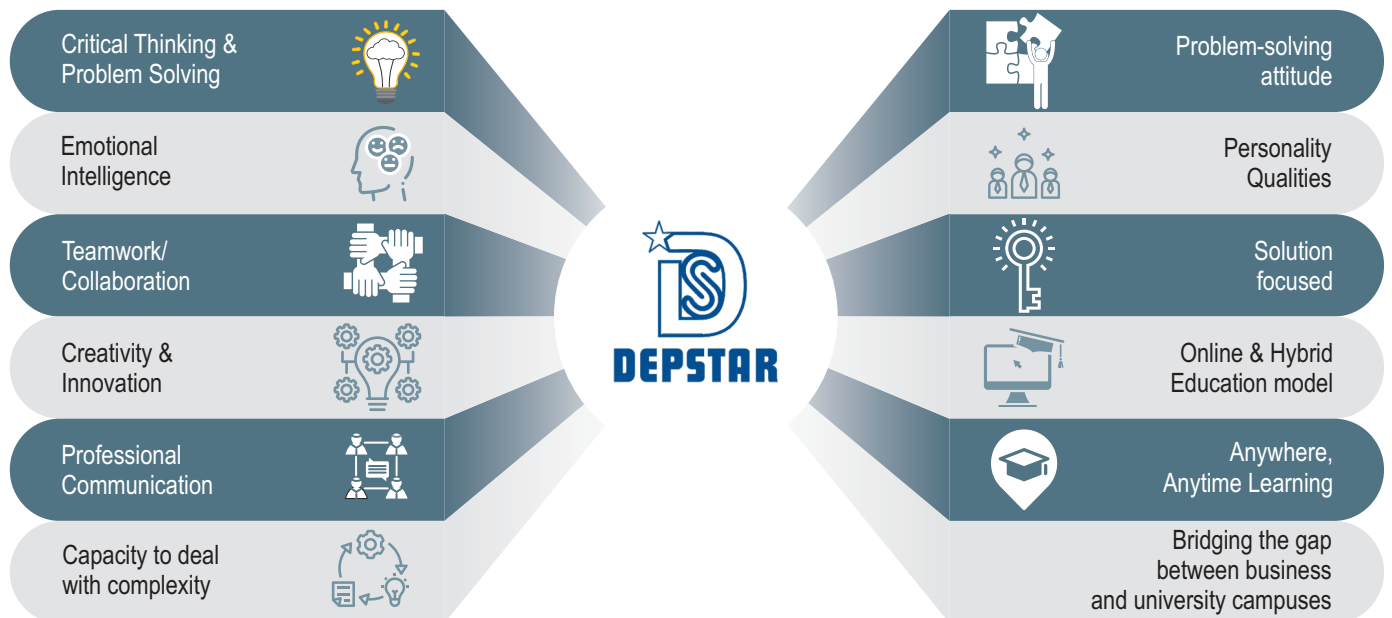


Multi-cuisine
Cafeteria

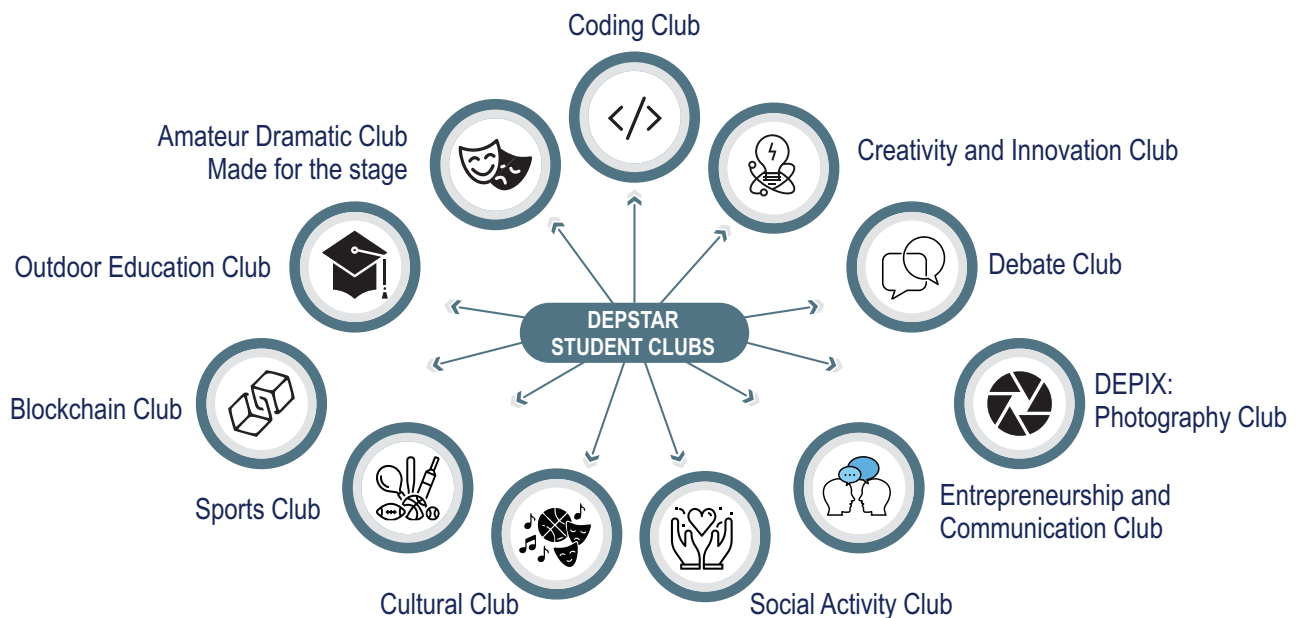
TEACHING AND LEARNING METHODOLOGIES

- Modern and Global Curriculum
- CBCS (Choice Based Credit System)
- Research-Based Learning
- Student-Centric Learning
- Cross Functional Learning
- ICT Based Learning
- Group/Team Learning
- Peer to Peer Learning
- Experimental Learning
- Project-Based Learning
- e-Learning
- Blended Learning
- Outcome Based Education (OBE) Implementation
- Collaborative Learning

We are preparing the students for the challenges of today & tomorrow through career skills & behavior training.



STUDENT CLUBS



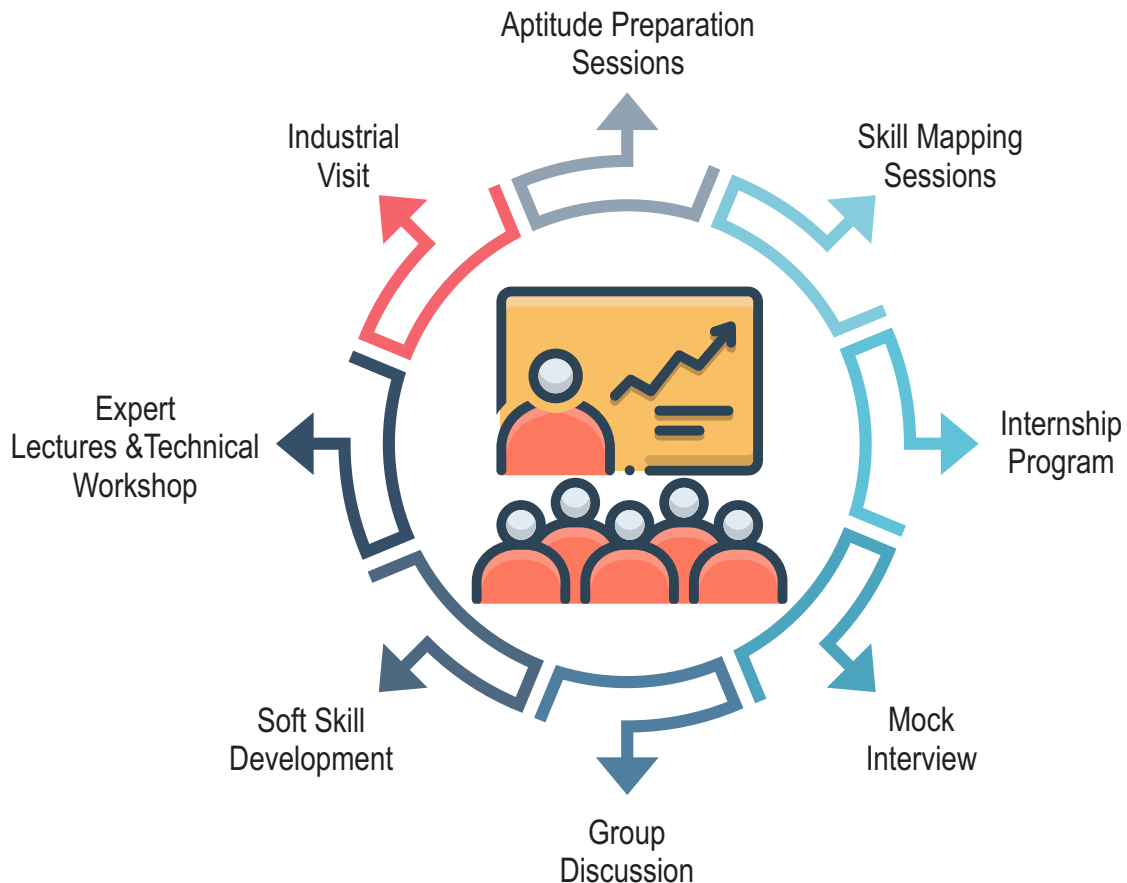
PROFESSIONAL SOCIETY CHAPTERS AND STUDENTS BRANCHES



INDUSTRY RECOGNIZED CERTIFICATION COURSES



TRAINING AND PLACEMENT ACTIVITIES



COMPUTER ENGINEERING

ABOUT DEPARTMENT OF COMPUTER ENGINEERING:

Computer Engineering deals with the design, implementation, and management of information system of both software and hardware processes. The jobs of Computer Engineers are projected to grow at twice the rate of all other jobs. By combining computer engineering and mathematics, computer engineers are able to solve hardware problems and create state-of-the-art machines.

VISION:

“TO EMERGE As an eminent research driven entity in Education in the field of Computer Engineering to meet the needs of the fast-paced modern society.”

MISSION:

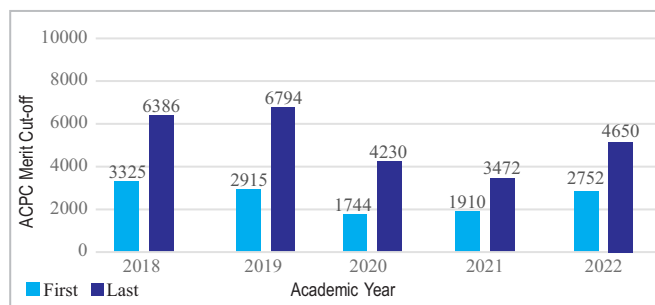
“To develop competent and responsible Computer Professionals for amelioration of the society at large.”

STUDENTS' ACHIEVEMENTS

- Sahil Lathiya (student of Batch 2019-2023) secured All India Rank (AIR) 55 in GATE 2023.
- Hetvi Hadvani (Batch 2019-2023) got placed at Morgan Stanley Capital International with a package of 15.3 LPA.
- Parth Trivedi and Savan Sanghani (Batch 2020 - 2024) got third rank in Codepie – 2023.
- Kelvi Manavadariya, Ankur Kapuriya and Pranv Savani (Batch 2020 - 2024) got second runners up in SMACKATHON – ONLINE - 2022
- Tanmay Damle, Kevin Modi and Kavya Pandya (Batch 2019-2023) cleared IELTS exam with 7.5 band.
- Hitarth Shah (Batch 2019-2023) secured 228 score in NMAT.
- Bhavya Patel, Archi Prajapati and Dev Talanpuri were the winners of One-Minutes Game in Spoural-2023, organised by Charotar University of Science and Technology.
- March Procession Team were the Champions in Spoural – 2023, organised by Charotar University of Science and Technology.

- Girls' Students' Team were the Runners up in Volleyball event in Spoural – 2023, organised by Charotar University of Science and Technology.
- Fashion Show Team were the Runners up in Spoural – 2023, organised by Charotar University of Science and Technology.

ACPC MERIT CUT-OFF YEAR WISE



PLACEMENT RECORD

Academic Year	2020-21	2021-22	2022-23
Placement	100 %	100 %	100 %
No. Companies Visited	30+	40+	40+
Highest Package LPA (Company)	38.4 LPA	15 LPA	15.3 LPA
Average Package LPA (Company)	4.84 LPA	4.5 LPA	8.89 LPA
Lowest Package LPA (Company)	1.2 LPA	1.8 LPA	2 LPA

*LPA - Lakhs Per Annum

Endowment Chair

Title:

Recent Evolution in Deep Learning & Optimization



Dr. Swagatam Das

Associate Professor and Head,
Electronics and Communication
Sciences Unit,
Indian Statistical Institute, Kolkata, India.



As a student of the Computer Engineering department of DEPSTAR, CHARUSAT; I have not only been able to develop my technical skills but also been able to exalt my interpersonal relations as I learned networking with people; creating a dynamic persona for myself. In the technical area, I have worked on various projects and researched about some fascinating stuffs. Being able to participate in some workshops and hackathons were an add on. If one is dedicated to go into Computer Engineering or related; I assure I have been very well trained by DEPSTAR, CHARUSAT.

-Birva Shah



As a student of Charusat University, I can confidently say that it has been a truly enriching experience for me. The faculty is knowledgeable and supportive, the campus is modern and well-equipped, and the emphasis on practical learning has helped me develop real-world skills that will be valuable in my career. I highly recommend Charusat University to anyone seeking a high-quality education.

Dhruv Patel

COMPUTER SCIENCE & ENGINEERING

WHY CHOOSE COMPUTER SCIENCE & ENGINEERING?

The field of Computer Science & Engineering drives innovation throughout the country. The students need to acquire knowledge in fundamentals of different programming languages, linear and discrete mathematics, and software design and development. The students understand the logical province on which computers work and can create a program or operating system that meets customer requirements. This field helps the students to prepare themselves for the future wherein the knowledge about computer science and engineering is held in the top most position.

VISION:

“To make a leadership presence in Teaching- Learning and Research in the field of Computer Science & Engineering.”

MISSION:

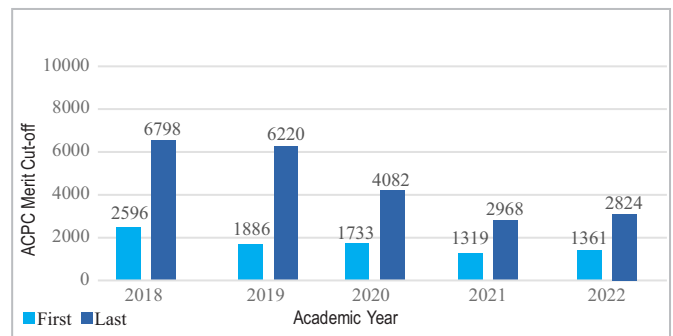
“To empower engineers with expertise and exposure to holistic development for solving the challenges of the technological era.”

STUDENTS' ACTIVITIES AND ACHIEVEMENTS

- DEPSTAR CSE outstood as “OVERALL RUNNERS-UP OF CULTURAL EVENTS FOR SPOURAL-2023” with 4 winners' trophies and 4 runners-up trophies, summing up 8 event trophies and a shining overall cultural runners up trophy.
- Mann Patel (Batch 2018-2022) won National and International Events Clash of Code: University champion, Kaggle: G2Net Gravitational Wave Detection, Intel AI DevMesh '21 and Amazon ML Challenge.
- Aashka Patel (Batch 2018-2022) secured first runners up position at Gujarat State Senior Karate Championship 2021.
- Kushan Mehta, Nistasha Gupta and Mitanshu Bhatt (Batch 2017-2022) of the CSE Department were declared as the winner of “Smart India Hackathon 2020” organized by the Government of India.
- Meet K Patel (Batch 2022 – 2026) has won State - Level Karate competition 2022.
- Kandarp Vaghela (Batch 2021 – 2025) has secured winner position in Instrument playing at Spoural 2023.

- Cadet Kathan Shukla (Batch 2022 – 2026) from 2 Guj CTC NCC VVNagar, was selected to represent Gujarat Directorate in the Republic Day Camp at New Delhi from 28-12-22 to 03-01-23. He is selected as the best musician in Prime Minister's Rally to be held at KM Cariappa Parade Ground, New Delhi on 28th January 2022.
- Karan Shah (Batch 2019 – 2023) won Silver Medal at Maker Fest 2023, Vadodara.
- Krish Vachhani (Batch 2020 – 2024) and Jay Sudani (Batch 2020 – 2024) has secured winner's position in Codepie 2.0 event organized by CHARUSAT in collaboration with CodeChef.
- Krutik Shah (Batch 2020 – 2024), Shrey Savani (Batch 2020 – 2024) and Bansi Tilva (Batch 2020 – 2024) has secured winner's position in Codepie 3.0 event organized by CHARUSAT in collaboration with Code Chef.

ACPC MERIT CUT-OFF YEAR WISE:



PLACEMENT RECORD

Academic Year	2020-21	2021-22	2022-23
Placement	100 %	100 %	100 %
No. Companies Visited	30+	30+	40+
Highest Package LPA (Company)	4.5 LPA	10 LPA	10 LPA
Average Package LPA (Company)	3.71 LPA	6.5 LPA	6.5 LPA
Lowest Package LPA (Company)	2.64 LPA	3 LPA	4.5 LPA



Life @ DEPSTAR, was more than just learning. It was an experience. From wonderful and the most friendly professors to the amazing colleagues and state of the art Infrastructure, all the opportunities for one's overall development are readily available, one just have to snatch it! From getting us ready for aptitude and technical problems to making sure we are ready for the interviews, DEPSTAR has the T&P cell that makes sure to cover all aspects of the selection process. As the saying goes “All Work and No Play Makes Jack a Dull Boy”, overall development is a crucial point, which is not a problem, all thanks to various Tech and cultural annual events, various clubs organizing different activities throughout the year keeping the students engaged and interested in learning and exploring themselves.

-Amit Dubey



From the first semester through placement, DEPSTAR has always backed me up in my academics. They continued to give regular and quality lectures even during the pandemic. My questions were always promptly addressed, allowing me to learn more quickly. DEPSTAR is the ideal combination of superb infrastructure and helpful individuals. I enjoyed the expert talks from renowned institutes that provided me with a greater understanding of the topics.

-Jilsa Chandrarana

INFORMATION TECHNOLOGY

WHY CHOOSE INFORMATION TECHNOLOGY?

In a world that is consistently getting more and more defined by technology, the demand for the people with the ability to know about computer science has increased exponentially. IT is where most of the technologies that have become so intrinsically tied to our day to day lives have been born, and the more people there are that can be working in mastering the art of this science, the more innovations can be seen and created in the world of technology.

SOME REASONS THAT COULD PUSH YOU OVER THE EDGE:

1. Plenty of job opportunities everywhere
2. A very diverse field
3. An innovative career fields
4. Several IT careers have high earning potential

VISION:

"To become a leading department for quality education, research and development in the field of Information Technology."

MISSION:

"The Department of Information Technology is committed:

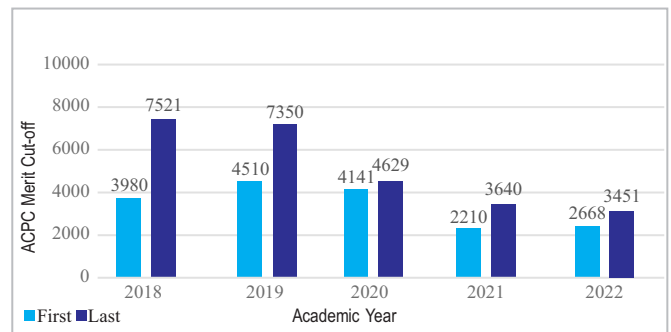
1. To prepare next-generation technocrats for societal upliftment.
2. To inculcate moral and ethical values in the students for building vibrant nation."

STUDENTS' ACTIVITIES AND ACHIEVEMENTS

- Sakshi Shah (Batch 2020-2024) with her team achieved first rank in the main track of Flow Hackathon hosted on Devfolio and earned a bounty of 30,000\$ for the project named Piece.
- Dalwadi Jayati (Batch 2019-2023) acclaimed Young Women Achievers Award – 2020.
- Under the direction of Ark Infosys, Bangkok, Yash Hitesh Kathiria (Batch 2019-2023) has released a mobile application called "Bhagvad Geeta with audio" on Google Play Store.

- Deep Thakkar (Batch 2019-2023) has won "ORIGINATE" - DIGITAL INNOVATION HACKATHON.
- Divy Shah (Batch 2020 -2024) presented a research paper in the 2022 International Conference on Automation, Computing and Renewable Systems (ICACRS) with the title "Recent Advancements of Internet of Medical Things (IoMT): Challenges and Future Opportunities with Emerging Technologies".
- In SPOURAL 2023, the girls' cricket and football teams achieved runner-up positions.

ACPC MERIT CUT-OFF YEAR WISE:



PLACEMENT RECORD

Academic Year	2020-21	2021-22	2022-23
No. Companies Visited	30+	40+	40+
Highest Package LPA (Company)	07 LPA	10.3 LPA	10.3 LPA
Average Package LPA (Company)	3.95 LPA	6 LPA	5 LPA
Lowest Package LPA (Company)	2.16 LPA	3 LPA	3.5 LPA



"The last two years have been wonderful for me as a student! The faculties are well experienced and friendly in nature; they helped me whenever needed. Also, it has been a wonderful experience to participate in all the cultural activities that DEPSTAR has organized as well as a volunteer during such activities. As a pilot batch student, I can assure that every student feels the same way as I do and surely would enlighten his/her future by joining this Institute."

-Ketav Pandya



"A better human being, a better developer and a dream to achieve something big is all, I hoped for when I joined Charotar University of Science & Technology. I am delighted to say that the faculties have helped me to achieve these dreams. Here, I not only had the chance to develop my technical skills but also other skills like Leadership & Management skills. The faculties always inspire me to go above and beyond my capabilities."

-Satvik Padhiyar

MAJOR RECRUITERS @CHARUSAT

SOPHOS

TATA
TATA CONSULTANCY SERVICES

MOTOROLA
SOLUTIONS

CREST
DATA SYSTEMS

Gateway

BACANCY[®]
TECHNOLOGY

Infochips

SIMFORM

THOMSON REUTERS[®]

Capgemini

TatvaSoft
sculpting thoughts...

ODYSSEUS
SOLUTIONS

SQUAD
TECHNOLOGIES
PVT. LTD.

VOLANSYS

Cygnnet Infotech
IT is about you

MEDITAB[™]

SPEC
INDIA

Jeavio

infostretch

WHITE OWL
An Affiliate of MBAF

ZEUS
LEARNING
... boundless thinking

INDUSAT

INDIAN NAVY

ARASU

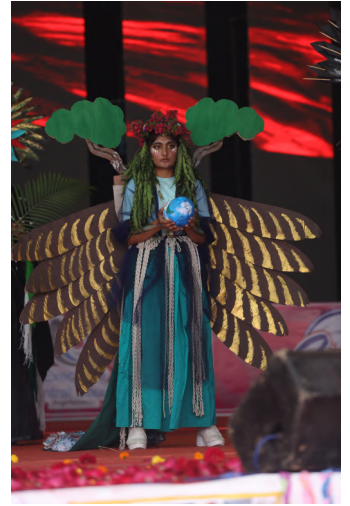
Si2 Tech

CELEBAL
TECHNOLOGIES

GLIMPSES OF CULTURAL & SPORTS ACTIVITIES



GLIMPSES OF CULTURAL & SPORTS ACTIVITIES





Thrust Areas Of Research

1. Data Science
2. Artificial Intelligence/Machine Learning/Deep Learning
3. Image Processing
4. Internet of Things (IoT)
5. Advanced Computing (Cloud/Fog/Distributed and Parallel)
6. Information Security (Blockchain/Network & Cyber Security/Cryptography)
7. Augmented Reality & Virtual Reality



Opportunities in CE/CSE/IT

1. Information Systems Manager
2. Application Developer
3. Game Developer
4. Database Administrator
5. System Analyst
6. IT Consultant
7. Technical Author
8. Application Analyst
9. IT Sales Professionals
10. Social media manager
11. Software engineer
12. Network engineer
13. Digital Copywrite
14. SEO specialist
15. Data analyst
16. Web designer
17. Hardware engineer
18. Multimedia programmer



Opportunities of CE/CSE/IT in Government Sectors

1. Union Public Service Commission (UPSC)
2. Gujarat Public Service Commission (GPSC)
3. Bank IT Professionals



Brochure



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