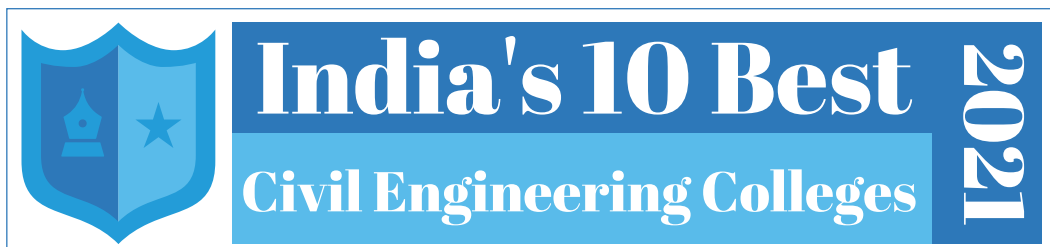




# THE ACADEMIC INSIGHTS

*Proudly Presented To*

M. S. Patel Department  
of Civil Engineering, CSPIT, CHARUSAT  
*for being featured in*



*in recognition of the commendable contributions the  
Civil Engineering Department has made towards the  
society and the educational fellowship*

*RS Prasad*  
Editor-in-Chief

# Frontiers of Technology

**M. S. PATEL DEPARTMENT OF CIVIL ENGINEERING  
CHANDUBHAI S. PATEL INSTITUTE OF TECHNOLOGY (CSPIT),  
CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY (CHARUSAT)  
(CHANGA, ANAND, GUJARAT)**



**F**rom primitive hutments of early years to sophisticated buildings of the modern era, the growth of the civil engineering industry has been phenomenal. These achievements will continue growing in the construction of residential, high rise, commercial complexes, malls, highways, waterways, railways, and many more. Also, as days pass and the demand for skilled and passionate civil engineers in diverse fields increases each day, urgent factors such as the ongoing pandemic make it even more competitive in this already competitive world of Civil Engineering. Furthermore, with a mushrooming number of colleges across the length and breadth of our country having involved themselves in an endless journey towards imparting the best Civil Engineering Education to the masses, quite a few institutes have proven their true prowess as all-rounded educators. One such prime educator which is ranked amongst 150 universities of India by NIRF and which is accredited by NAAC with Grade 'A' is Charotar University of Science and Technology (CHARUSAT). Its constituent institute, Chandubhai S. Patel Institute of Technology (CSPIT), excels as today's engineering hub educating towards a better tomorrow.

Being the first institute established in 2000 at Education Campus, Changa, CSPIT is managed through a think tank of academicians, scientists, engineers and professionals from around the world. Started with only 240 seats in bachelor's degree engineering programs, CSPIT now has a total intake of 690 seats in 7 programs of bachelor's degree and 108 seats of Post Graduate Degree.

The M. S. Patel Department of Civil Engineering especially has grown tremendously over the last twelve years and is now recognized as one of the major engineering departments of CSPIT. The Department currently offers B. Tech. Civil Engineering, B. Tech Civil Engineering with minor specialization in Artificial Intelligence and Machine Learning (AI & ML), M.Tech (Structural Engineering) and Ph.D. programs. Additionally, getting the best of teachers and industrialists imparting high quality teaching both at UG and PG levels, the department and the teachers push the relevance and importance of basic and applied research in every endeavor carried out at the department. The strong links of the university have also facilitated strong industry connections with the department, thus, industries like L&T, Adani, Cube Construction Company, Patel Infrastructure Ltd. and academic institutions such as GIDM, CEE, NITs & IITs actively participate in curating the best of educational experiences to the students.

## Dissemination of Knowledge

By taking existing courses and regularly updating and developing up to date curriculum and resource material, teachers at the Department of Civil Engineering at CHARUSAT, associate themselves with industry experts actively staying abreast with the latest developments in the industry, and inculcating the changes into the day-to-day activities at the department. Also, thanks to the impressive industry-academia connections the department has, industrial consultancy work is carried out by GPCB

recognized and NABL approved Environment Engineering laboratory of the department. It also holds seminars, workshops, FDPs, STTPs, etc. at regular intervals, emphasizing on the importance of practical knowledge, and at the same time strengthening by observing current field practices. Also, over 90 workshops, seminars, webinars, short term training programs have been arranged for all the courses related to curricular and co-curricular topics. Moreover, the department also encourages its students to take up certificate courses on various software like STAAD.Pro, SAP, STRUDS, ETABS, AutoCAD, GIS, etc., to ensure that the students are industry-ready. The Civil Engineering Department also has specially signed an MoU with L&T Power Training Institute and the Department has obtained complete sponsorship from the university for all the students to undertake extensive Industrial training.

“Holistic development of students is of paramount importance and CHARUSAT offers elective courses in liberal arts to its first year students to enhance their creativity quotient”, stated - Dr. V. R. Panchal, who serves the Department and the Civil fraternity as a renowned Professor. Adding to his above statement, enunciating in detail how students at CHARUSAT not just excel as professionals in their respective fields, but as thorough all-rounders, he stated - “Over the years, the students are encouraged to take part in various sports, cultural, and other extra-curricular activities held during the University festivals and events like Spoural, Cognizance after others”. CHARUSAT, in addition, also runs the NCC and NSS units where students are involved in various social service activities like celebrating Cleanliness week, running health campaigns, tree plantation, imparting basic and computer education to rural citizens, etc.

CHARUSAT with its outstanding infrastructure has enabled effortless learning experiences, always aiming towards achieving smooth learning curves. From the laboratories to the latest machines, the management has worked relentlessly to help students get hands-on experience about the theory taught inside the classroom via practical methods. Moreover, now with the whole world moving towards digital solutions for teaching/learning purposes, the already existing ICT tools and amenities have helped students not to miss out on the lessons yet continue on their educational journey. Even during the lockdown period, the institute and the department showed real vigour and determination by conducting the external university examinations using - PEXA Lite, an examination from home software.

Being a dedicated student-centric environment of inclusivity, at CHARUSAT-student welfare plays a major role. Boasting of a 3 tier counseling system involving teachers, counsellors and professional psychologists, helps/motivates students to outperform on all fronts. In addition, the mentor and mentee meet at least once in every fortnight



**Dr. V. R. Panchal**  
Professor

*Currently heading as the main person in-charge of M. S. Patel Department of Civil Engineering, CSPIT, CHARUSAT since December 2016, Dr. Panchal has over 25 years teaching and industrial experience. He received his doctoral degree from Indian Institute of Technology Bombay (IITB), Mumbai in 2008 under Quality Improvement Programme (QIP) sponsored by AICTE. He has published more than 150 research papers in reputed international referred journals, international, and national conferences, besides being an author of one textbook. He successfully has guided more than 100 master's degree students and is currently guiding various doctoral students. He has worked as a Project Coordinator in Modernization and Removal of Obsolescence (MODROBs) projects funded by AICTE. He is a recognized Ph.D. Guide in four universities including CHARUSAT. He has worked as a reviewer in reputed international journals. He works as Coordinator in organizing AICTE and GUJCOST sponsored short term training programs. He is approved assessor of National Assessment and Accreditation Council (NAAC), Bangalore, Karnataka.*







Educational Visit at The Statue of Unity – World's Tallest Statue



Building Model Exhibition



Civil Engineering Students become Champions in Spourai 2020, a University Level Annual Cultural Festival



Workshop on "Climate Change and Environmental benefits from Space Observations" by Dr. Deepak Mishra, University of Georgia, USA



Civil Engineering Students get 1st position in UltraTech Sparkling Star Competition 2020 held at CHARUSAT Campus



Site visit to Shree Singaji Super Thermal Power Project at Mundi, Khandwa District, Madhya Pradesh under Industrial Training at L & T Power Training Institute

to discuss the progress and problems faced by the students whether they are of academic, social, or personal nature. The faculty members strive to ensure that they can build a friendly rapport with the students so that they are able to trust and open to the mentor about the problems faced by them. CHARUSAT also conducts regular online Parents Teachers meetings to make the parents aware about their ward's progress and other latest developments. Also, the management makes sure that even during these high times of turmoil, the mentors remain in touch with their mentees on a regular basis by creating Whatsapp groups and other social media platforms & attend online meetings to remain in contact from time to time.

In conclusion, having made its name as a hub which emphasizes on

research and development, students are guided towards taking up research projects along with expert lectures, short term training programs and staying up to date with latest developments in research. Subsequently, the management of the institute provides seed money to its teachers for research in the fields of Civil Engineering. The faculty members get motivated to take up various fellowships for advanced studies at national and international levels. Striving in unison towards fulfilling its duty as a today's educator, CHARUSAT provides scholarships and fee waivers to economically weak students and the meritorious lot, giving back to the society the technical professionals it needs, moving forward one step at a time towards united societal upliftment. 🇮🇳