

KUSHAL PATEL

CE17M044 | PR No. 33/CE/19/044

Indian Institute of Technology, Madras



EDUCATION

Program	Institution	%/CGPA	Year of completion
MTech (Structural engineering)	Indian Institute of Technology Madras, Chennai	8.49/10	2019
BE (Civil engineering)	Vishwakarma Government engineering College, Ahmedabad, Gujarat	7.76/10	2017
STD XII	M.B.Patel Gyanjyot High School, Ahmedabad, Gujarat	74 %	2013
STD X	M.B.Patel Gyanjyot High School, Ahmedabad, Gujarat	89.4 %	2011

SCHOLASTIC ACHIEVEMENTS

- **Runner up** in “**OPEN HOUSE’17**” (A **State Level** Project Competition) held at VGEC, Ahmedabad, Gujarat (2017)
- **Runner up** in “**QUISTRUC’17**” (A **State Level** Quiz Competition) held at CHARUSAT, Changa, Gujarat (2017)

COURSE WORK

- Structural Dynamics
- Advanced Theory and Design of Concrete structures
- Finite Element Analysis
- Structural Design of Foundations
- Advanced Design of Metal structures
- Prestressed Concrete Structures
- Advanced Mechanics of Structures
- Bridge Engineering

LAB

- Experimental Techniques
- Structural Engineering Design Studio

SOFTWARE SKILLS

- **Programing** : MATLAB
- **Analysis** : ETABS, SAFE, SAP 2000, STAAD pro, Midas Gen, Abaqus, CSi Bridge, Midas Civil
- **Drafting** : AutoCAD

PROJECTS

1. An analytical study on performance of **tall structure** using **pushover analysis** at IIT Madras under the guidance of **Dr. B. Nageswara Rao** (Ongoing)
 - **Advanced pushover analysis** method is used for fast and accurate predicting earthquake-induced forces in tall structure.
2. **Efficient waste management in Dolarana Vasna-Gujarat** under the guidance of **Prof. Asim I. Shaikh** at Vishwakarma Government engineering College (2017)
 - Design of sewerage network is carried out using **SewerGEMS**, **Google Earth** and **AutoCAD** software.
 - Designed **Imhoff tank** for treatment of waste water

PROFESSIONAL EXPERIENCE

- Internship in **Ducon Consultants Pvt. Ltd.**, Ahmedabad, Gujarat. (June'18-July'18)
 - Assisted senior structural engineers with various **analysis**, **design calculations** and **detailing** using ETABS and spreadsheets
 - Coordination of work with other disciplines such as Architectural, Mechanical and Electrical etc.
 - Build up my confidence in structural designing skills and got experience of working in teams on a single project

CO-CURRICULAR & EXTRA-CURRICULAR ACTIVITIES

- Participated in **BUILTRIX** (A Bridge making competition) at VGEC, Ahmedabad, Gujarat.