



Sigireddi Yamuna Devi
Civil Engineering
Indian Institute of Technology Bombay

160040085
UG Third Year (B.Tech.)
Female
DOB: 10-06-1999

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2019	7.85
Intermediate/+2	Sri Chaitanya Junior College	Sri Chaitanya Junior College	0	96.10
Matriculation	St. Joseph's Girls' High School	St. Joseph's Girls' High School	0	95.00

SCHOLASTIC ACHIEVEMENTS

- Ranked in the top **0.25%** out of 1.2 million candidates in JEE Main 2016
- Secured a rank in the top **1.5%** among 2 lakh students in JEE Advanced 2016
- Pursuing **Honors Degree** in the department of **Civil Engineering**, IIT Bombay

TECHNICAL PROJECTS

Associate Design Engineer, Team Shunya

May '17 - Dec '17

Guide: Prof. Rangan Banerjee, Energy Science and Engineering Department, IIT Bombay

- Worked in Civil subdivision to design and construct net zero energy steel frame house
- Improved functional performance of house by incorporating **sustainable** materials integrable with techniques of fast and modular construction
- Analysed over various characteristics like thermal, acoustic and fire insulation properties of **15+** materials to decide the material to be used in flooring of house
- Performed SWOT analysis of various building materials after extensive market research

Intermittent Cut Gears, Course Project

Oct '16

Guide: Prof. K.P. Karunakaran, Engineering Graphics Drawing

- Designed robust and innovative model for gears using **Solid works**
- Experimented with the dimension ratios of various parts to come up with practical model

Bluetooth Controlled Racing Bot

Aug '16

Electronics and Robotics Club, IIT Bombay

- Designed and built Remote controlled bot and its components, while being in team of 4
- Used efficient mechanism and designed **robust gripper** based on it
- Implemented bot with L293D IC, HC05 Bluetooth Module for wireless communication

POSITIONS OF RESPONSIBILITY

Core Team Member, Student Alumni Relations Cell

Leading a team of 6 members as Head of Alumni Student Mentorship Program

Apr '18- Present

- Consolidated mentor pool of **400+** alumni across 10+ sectors; included sector of civil services
- Ideated web based portal with robust **allocation algorithm** to simplify registration process
- Revamping structure of Group Mentoring; planning to conduct **online ice-breaking** sessions
- Conceived skeletal framework of **Shadow Programme** indulging **25+** mentor mentee pairs
- Introducing self evaluation for mentees to analyse the impact of program on their progress
- Worked out ASMP Video Testimonials; Poster Series; Mentor/ Mentee Handbook for publicity
- Planned and executed Phonathon, a telephonic marathon; successfully reached out to about **12.5k+** alumni in a span of 10 days managing 120+ volunteers
- Planned and executed Institute Valedictory Function leading to y-o-y **120%** audience rise

Team Member, Alumni Student Mentorship Program

An initiative of Student Alumni Relations Cell (SARC), IIT Bombay

Apr '17- Mar '18

- Acted as first point of contact for mentees and mentors who registered for the program
- Networked with **300+** alumni leading to **80% y-o-y** increase of alumni registrations
- Planned Mentor Mentee Meet up, an open discussion about effective ways to provide mentorship for 50 mentors after Break The Ice, a lunch session for **100+** alumni and students
- Introduced **multiple mentoring** as part of phase II catering to **200+** students

Convenor, Biotech Club

Team to enthuse students towards the interdisciplinary field of bio-engineering

Apr '17- Mar '18

- Part of 55-membered Institute Technical Council for promoting technical activities and projects
- Coordinated among a team of 5 conveners to ideate and organise 5 lectures and 3+ lab visits
- Successfully conducted the club's debutant flagship event **Crime Scene Investigation** a competition on forensics in crime investigation which saw a turnout of **150+** participants
- Organised Symbiont Quiz on bio-engineering, and achieved **85% y-o-y** increase in participants

TECHNICAL SKILLS

Programming C/C++, Python, HTML/CSS

Software AutoCAD, Solidworks

Operating Systems Windows, Linux

COURSES UNDERTAKEN

Civil Engineering Structural Mechanics I,II*; Structural Design(RCC)*; Structural Design(Steel)*; Solid Mechanics; Geotechnical Engineering I*; Applied Hydraulic Engineering; Building Materials and Construction; Geodesy; Transportation Engineering I*; Engineering Mechanics; Fluid Mechanics; Optimisation in Civil Engineering**;

Mathematics & Computing Differential Equations I,II; Calculus; Linear Algebra; Computer Programming and Utilization

Labs Solid Mechanics Lab; Hydraulic Engineering Lab; Transportation Engineering Lab I*; Geotechnical Engineering Lab I*

Other Courses Sociology*; Philosophy of Life(Minor); Decision Analysis and Game Theory; Economics; Introduction to Electrical and Electronics Circuits; Engineering Graphics and Drawing; Biology

**To be completed by Nov'18 @To be completed by Apr'19*

***Post Graduate Course, to be completed by Nov'18*

EXTRA-CURRICULARS

- Devoted 80 hours towards development of nursery/plantations in the campus under NSS '18
- Master of Ceremony of **Institute Valedictory Function** with **650+** audience '18
- Involved in organising workshops for ETABS and STAADPRO for **1000+** students of different colleges as co-ordinator of AAKAAR 2018, the civil engineering department fest '18
- Panelist for the **Freshmen Newsletter**, published by **InsIghT**, the Media Body of IITB '17
- Attended **Business Model workshops** organised by Entrepreneurship Cell, IIT Bombay '17
- Learnt basic techniques of Hockey by undertaking rigorous one month Beginners Camp '17
- Participated in Freshiezza Video Making conducted by the Institute Cultural Council '16