

Yogen Borkar

Mumbai, India

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Education

- Birla Institute of Technology and Science, Pilani**
Bachelor of Engineering (Hons.) in Chemical Engineering
Cumulative CGPA: 8.44
Goa, India
August 2018 to July 2022
(expected)
- PTVA's Sathaye College**
Maharashtra Higher Secondary School Certificate (Class 12)
Percentage: 87.08%
Mumbai, India
Graduated May 2018
- Parle Tilak Vidyalaya English Medium School**
Maharashtra Secondary School Certificate (Class 10)
Percentage: 92.6%
Mumbai, India
Graduated May 2016

Research Experience

- Life Cycle Sustainability Assessment**
A design-oriented project in studying and modifying the Life Cycle Assessment methodology. Under the guidance of Prof Sampatrao Manjare.
Jan 2021- Present
- Nanotechnology: Study on the effect of coagulation bath on the properties of the nanofibers synthesized via electrospinning**
A study-oriented project in learning the effect of coagulation bath on the formation of different morphologies of the nanofibers produced via electrospinning. Learnt how to interpret data for various characterization techniques like SEM, XRD, etc and about applications of helically coiled nanofibers in diverse areas. Under the guidance of Prof Sutapa Roy Ramanan.
Aug 2020- Dec 2020
- Synthetic Biology: iGEM Competition 2020, BITS Goa**
Member of the Dry Lab and Biochemical Modelling Teams
Awarded the gold medal and two special prizes at the International genetically Engineered Machines competition, for working on reduction of post-harvest losses in sugarcane, by using genetically engineered bacterial systems. Also worked on Human Practices, Implementation and Entrepreneurship.
Oct 2019 – Nov 2020
- Research Intern, Dhio Research and Engineering Pvt. Ltd.**
Researched on multiscale modeling for materials and worked on the 'Dissipative Particle Dynamics Modeling for A Carbon Nanocomposite in J-OCTA'. The final model was used to evaluate elastic properties of a polystyrene based nanocomposite.
May 2020 – Jun 2020

- **‘Lab on a Brick’, IDEATHON, BITS Goa**

October 2019

Project Lead

Participated and came second in the Ideathon organized by BITS BIRAC Bionest. The idea consisted of designing a customizable point of care diagnostic device using LEGO bricks. The model would use *microfluidics* and *biosensing* for detection by simple colour change reactions.

Skills

MATLAB, ASPEN, COMSOL, basics of Python and C programming languages, J-OCTA, AutoCAD, MS Office

Relevant Courses

Chemical Engineering	Introduction to Nanoscience, Material Science and Engineering, Biochemical Engineering, Kinetics and Reactor Design, Engineering Chemistry, Polymer Chemistry
Biology/ Chemistry	Molecular Biology of the Cell, Bio and Chemical Sensors, Supramolecular Chemistry
Others	Systems Biology, Computer Programming, Introductory level laboratory courses to Biology, Chemistry and Chemical Engineering

Extra-curricular Activities

- Coordinator and Convener at Srutilaya, the BITS Goa Indian Classical Music club; responsibilities involved maintaining faculty relations, finances and successfully organizing events to improve awareness of Indian Classical Music on campus.
- Taught the 9th and 10th standard students of A. A. Padhye School, Devrukh, Ratnagiri, under the able guidance of Mrs. Jennifer Gadgil, giving me valuable knowledge and insight into the efforts that are put into teaching.
- Performed and accompanied on harmonium in multiple cultural events in school and college.
- Supervised the functioning of Student Council as the Head Boy in school.
- Other interests include reading literature, drama, history, etc. because of which I have taken courses like Modern Fiction, Modern Political Concepts, Main Currents in Modern History. I am also a cooking and gardening enthusiast.