Curriculum Vitae

Shivam Pandey
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Educational qualifications

Qualification	University/ Board	Subject	Duration	CGPA/ Percentage
B.Tech	GGSIPU, NEW DELHI	Biochemical Engineering	2016 - 2020	7.91/10 (till 7th sem) or 79.1%
Intermediate	CBSE	Science	2014-15	82.6 %
Higher Secondary	CBSE		2012-13	9.6

Courses Undertaken

Chemical Engineering	Engineering Mathematics, Fluid Mechanics, Process Designing and Calculations, Unit Processes and Operations, Reaction Engineering, Instrumentations and control, Equipment Design, Computational Techniques, Hazards and IPR issues, Modelling and Simulation with their laboratory applications.
Life Sciences and Allied Areas	Life Sciences, Biochemistry, Microbiology, Molecular Biology, Immunology, Protein Science and Engineering, Environmental Biotechnology, Enzyme technology, Food Technology, Tissue engineering with laboratory applications
Interdisciplinary	Technical Communication, Project Writing and Presentation, Environmental Studies, Engineering Mechanics, C programming, Engineering Graphics, Organizational Behavior and Industrial Management, Economics, Environmental Impact Assessment and Risk Analysis

Internships and Projects Participation

1. ***Conversion of Cellulosic Biomass into Fermentable Sugar,***
   Centre for Environment Science and Climate Resilient Agriculture **Indian Agricultural Research Institute, New Delhi (June –Aug, 2018)**

   Objectives – (i.) Compositional Analysis of Wheat husk and (ii) Conversion of cellulosic biomass present in it to fermentable sugars

2. ***Usage of Agro wastes for heavy metal biosorption,***
   School of Biochemical Engineering, IIT – BHU (June – July 2019)
   (i) Heavy metal biosorption (Chromium and Manganese) using potato peels waste

3. ***Chlorella Vulgaris Microalgal growth and Acclimatization to toxic heavy metals for tolerance and further heavy metal extraction,***
   University School of Chemical Technology, GGSIPU (Aug 2019 – July 2020)
   Objective – Acclimatize and treat microalgae to sequential increasing concentrations of waste water

Skills

Core Engineering	Reaction engineering, Absorption and Catalysis Unit Processes operations and equipment handling , Heat and Mass Transfer, Separation Engineering, Simulation and Modelling, Process design and scaling, Cell culturing and Media preparation, Microbiology, Molecular biology, Batch preparation, fermenter handling
Software Skills	C programming, Microsoft word, Power-point, Excel and experience with professional **Design software's like MATLAB, CHEMCAD DWSIM and ASPEN**
Soft Skills	Communication skills, Presentation, Adaptability, Team work, Time management, Work ethics, Problem solving and conflict resolution, research and information gathering

Initiatives and Positions of Responsibilities

Srijan Science Club, GGSIPU	President (2018-19) and Finance Head (2017-18) Presided over meetings, oversaw club finances and successfully organized technical events and guest lectures for students
Sports Meet	Event Head – Successfully organized power lifting event
Student Member IIChe and AIChe	Participated in technical events, lectures and webinars
TPC, USCT	Active member of Student team from 2016- 18

Certifications

1. **Work Presentation – a. Technical Fest , USCT –** Direct Blue dye removal by adsorption
   b. Osmoze Technical Fest, IITBHU – Wheat husk to ethanol production; and case study competition for water treatment, CHEMCAD workshop
2. Plant visit to **National Fertilizers Limited, Panipat Haryana**
3. **NPTEL – Cell culture Technologies and Nanotechnology in Agriculture**
4. **IITD –** Lab sessions on **Unit operations**;
5. **UNFFC**- Climate change & Green Revolution