

amitkumarpatel

M.Tech Chemical Engineering

about

department of
chemical engineering
Indian Institute of
Science
Bangalore,
Karnataka-560012
contact no.: +91
7065334790

amitpatel.nitdgp16@gmail.com
<http://linkedin/in/amit-kumar-patel-01556496>

languages

bilingual: english/hindi

skills/competence

programming: fortran,
matlab, c
software: lammgs
: goal oriented, future
focused, leadership,
creativity, time
management,
persistence.

interests

molecular dynamic
simulations, solar
energy collection
devices, waste water
treatment, chemical
reaction engineering,
heat and mass
transfer, chemical
engineering
thermodynamics.

careerobjective

to have a challenging position in the field of chemical engineering where I can apply my wide knowledge and professional expertise in the field; specially in the areas of chemical reaction engineering, chemical engineering thermodynamics and molecular dynamic simulations.

educationqualifications

feb,2020	m.tech chemical engineering Indian Institute of Science(IISc), Bangalore	cgpa - 6.25
2016	b.tech chemical engineering National Institute of Technology(NIT), Durgapur	cgpa - 7.45
2011	higher secondary majoring in P.C.M Maa Saraswati H.S.S Chandpur, Varanasi, U.P.	percentage - 75.20
2009	secondary majoring in Mathematics and Science Maa Saraswati H.S.S Chandpur, Varanasi, U.P.	percentage - 79.17

academicprojectdetails

m.tech

(2019-2020) **title:** calculation of contact angle of solid and liquid using Molecular Dynamic simulations. supervisor: Dr. Sudeep Punnathanam, Associate Prof. department of Chemical Engineering, IISc Bangalore.

description: this work is basically concerned with the calculation of contact angle in the extraction of crude oil. the contact angle is calculated with the help of Molecular Dynamic simulations.

b.tech

(2015-2016) **title:** optimum efficiency calculation of parabolic solar trough concentrating collector. supervisor: Dr. C.M. Narayanan, Prof. department of Chemical Engineering, NIT Durgapur.

description: in this project, we are basically concerned to calculate the efficiency of parabolic solar trough concentrating collector where we introduce input liquid at different temperatures and flow rates, so that we can achieve optimum collection efficiency.

researchinternship

2014 **title:** characterization and application of biomass gasifier waste material for absorptive removal of Cr(VI) from aqueous solution. mentor: Dr. Manoj K Mondal, Prof. Dept. of Chemical Engineering, IIT(BHU) Varanasi

description: i have done this during my B.Tech degree programme while i was in second year. this research internship is mainly concerned with the removal of Cr(VI) from aqueous solution using biomass gasifier waste material and to characterize the different properties.

coursesdone

m.tech

major courses done in m.tech

1. Chemical Reaction Engineering
2. Interfacial and Colloidal Phenomena
3. Modelling in Chemical Engineering
4. Molecular Dynamics Simulations
5. Statistical Thermodynamics

b.tech

major courses done in b.tech

1. Heat and Mass Transfer
2. Chemical Reaction Engineering
3. Process Dynamics and Control
4. Petrochemical and Petroleum Refining
5. Plant Design and economics
6. Numerical and Statistical Methods
7. Fluid Mechanics
8. Chemical Engineering Thermodynamics

publications

characterization and application of biomass gasifier waste material for adsorptive removal of Cr(VI) from aqueous solution.

article (pdf available) in Environmental Progress and Sustainable Energy 35(1) · July-2015 with 314 Reads

https: <https://doi.org/10.1002/ep.12205>