



**Name: Vikas Yadav**  
**Chemical Engineering**  
**Rajiv Gandhi Institute of Petroleum Technology, Jais**  
**Email -1: eche17058@rgipt.ac.in**  
**Email -2: yvikas33@gmail.com**

**Roll Number: EChE17-058**  
**Gender: Male**  
**B. Tech: 4<sup>th</sup> Year**  
**DOB: 6 Feb. 1999**  
**Phone-1: 8299673350**

### OBJECTIVE

I intend to be a part of an organization that will challenge me to work best of my skills and develop industrial experience and make use of it for the growth of the organization.

EXAMINATION	University	Institute	Year	CPI/%
Graduation	RGPT	Rajiv Gandhi Institute of Petroleum Technology	2017-21	8.30
Intermediate/+2	C.B.S.E	B.S.F Senior Secondary School	2016	82.2%
Matriculation	C.B.S.E	B.S.F Senior Secondary School	2014	9.4

### INTERNSHIP / PROJECTS

#### INTERNSHIPS:

- **HNV Castings Private Limited** [July'19-Aug'19]  
I understand the basic principle of casting, property of the moulding sand used, how to remove defects from a mould and help me gain industrial experience.
- **Modelling and Neural Network NIT Durgapur** [Dec'19-Jan'20]  
**Supervisor - Dr. S.K Lahiri**  
With the help of MATLAB, we modelled industrial ethylene oxide reactor data and optimized it for maximum selectivity and minimum temperature. This helped me to understand how we can improve reactor Working.

#### RESEARCH PROJECT:

- **Hydrogels for Use as Soft Electrode in a Wearable Electrocardiogram Monitoring Device**  
**Supervisor Dr. U. Ojha**  
We formed hydrogel and modified its properties to enhance its conductivity, to use it on body wearable device applications to test our theory we made an ECG (Electro cardiogram) Device with help of hydrogel and developed its custom software to measure heartbeat. We published this research in ACS journal whose link is below.  
DOI: [10.1021/acscapm.9b00988](https://doi.org/10.1021/acscapm.9b00988)

#### INDUSTRIAL PROJECT:

- **ANN Modelling and Optimization** [April'20 -May'20]  
**Firm: Bell Energy**  
We were provided with input and output parameters of commercial reactor, using these data we used neural network in MATLAB to find the best equation by which we can predict the desired variable values and finally optimized these data to find the optimum running conditions.

## **ACADEMIC PROJECT:**

- **Designing of Double Pipe Heat Exchanger**

Supervisor-Dr. Milan Kumar

We were given a design problem to design a double pipe heat exchanger using advanced excel and determine the final temperatures of the fluid coming out of the heat exchanger.

- **Designing of Three Phase Separator**

Supervisor-Dr. U. Ojha

We researched on different separation processes and come up with a new modification to the existing Three phase separator and done all the design calculation and presented it.

## **TECHNICAL PROJECT:**

- **College Utility Website, Winter School 2K19**

**[Nov.'18-Jan.'19]**

I designed a website for the students of my college, whose main purpose is to give information about all the basic amenities provided by the college and give the information about upcoming events and contact numbers of staff members (Faculty, Cleaning Staff, Mess, Hostel Committee, Student Post bearers).

## **AWARDS AND ACHIEVEMENTS**

- Won 3<sup>rd</sup> Prize in Project Exhibition, Winter School 2K19
- Among Top 2.2% in JEE 2017
- Secured 16<sup>th</sup> State Rank in NSO (National Science Olympiad) and 19<sup>th</sup> State Rank in IMO (International Math Olympiad)

## **POSITION OF RESPONSIBILITY**

- Head Cybergaming Committee Urjotsav 2K19 [Nov.1-3 2019]
- Convener Kode Club, Science & Technical Committee [May'18-May'19]
- Web Designing Committee, IICHE RGIPT Student Chapter [May'18-May'19]
- Coordinator 4<sup>th</sup> Convocation & Lecture Series Programme

## **WORKSHOP AND CONFERENCES**

- **Industrial Trip IOCL, Panipat**
- Data Science Workshop, Winter School 2K18
- Halliburton Workshop on Data Science, ICUER
- Workshop IOCL Allahabad Terminal

## **TECHNICAL SKILLS**

- **Coding Skills:** Web Development, C Programming, Python, MATLAB (Modelling & Optimization)
- **Software Skills:** Auto-Cad, Origin, Advanced Excel, MS Office