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### OBJECTIVE

An initiative-taking, hardworking, undergraduate student looking for a job in the Chemical and Petrochemical Industry to gain deeper insights of the processes.

EXAMINATION	University	Institute Year	Year	CPI/%
Graduation	RGPT	RGPT	2020	5.95
Intermediate/+2	CBSE	Kautilya senior secondary school, Kota, Rajasthan.	2016	66.66
Matriculation	CBSE	Seksaria Sushila Devi public school, Hathras, (UP).	2014	9.6

### INTERNSHIP /ACADEMIC PROJECTS

- **Project - controlling the electrical appliances using sensors | Jan, 2018- Feb, 2018**  
**Guide – Dr. Susham Biswas**
  - A PIR sensor was used to detect the presence of a living being in an enclosed space.
  - The electrical appliances would turn on/off accordingly, They were wired via arduino.
  - Showcased in Winter School, RGPT, 2018.
- **Project - natural convection on isothermal surface | Oct, 2018 – Nov, 2018**  
**Guide – Dr. Milan Kumar**

Made the program in excel which gives nusselt number of vertical and horizontal cylinder, plates and irregular solids by providing the values of fluid temperature and surface temperature
- **Summer internship in IIT Roorkee on Effect of Surface Modification on the Property Analysis of Sisal Fibers | June, 2019 – July, 2019**  
**Guide – Dr. Shishir Sinha**
  - Sisal Fibers were treated with alkali and silane solutions for surface modification.
  - Characterization was done by running XRD, TGA and SEM.
  - Slight variations are observed in the values of decomposition energy calculated by FWO and KAS.
- **Project – Optimization of Gas Dehydration via absorption process | Oct, 2019 – Nov, 2019**  
**Guide – Dr. Umprasa Ojha**
  - In the Gas dehydration process, DMA solvent was used instead of glycol.
  - DMA being comparatively cheaper, and requiring less usage of trays, was found to be commercially viable.
- **Ongoing project – PDMS electrospinning for making superhydrophobic surfaces | Sept, 2019 – Present |Oct,2019- Feb,2020.**  
**Guide – Dr. Amit Ranjan**
  - Aluminium foil and Glass surface were coated using PDMS, THF and stearic acid solutions.
  - Properties like viscosity and concentration of solutions were changed to observe the mechanical strength of coating.
  - The project is ongoing, to derive a relation between these properties, and the mechanical strength.
  - It has been accepted as a DIC Project, with funding, by RGPT institution.
- **IIChE Online summer internship on Zero Liquid Discharge Management, | May,2020-June,2020.**

- Learned different process like Ultrafiltration, reverse osmosis, Crystallization, that helps in the industry to manage the wastewater that helps to achieve the aim of zero liquid discharge management.

#### **AWARDS AND ACHIEVEMENTS**

- Participated in chess in Spardha 2018, IIT BHU Sports Fest.
- Participated in volleyball in Spardha 2018, IIT BHU Sports Fest.

#### **TECHNICAL SKILLS**

- **Programming Language:** C.
- **Software:** Matlab, AutoCAD, Highscore plus, MS Office, Origin.

#### **POSITION OF RESPONSIBILITY**

- Member of RGIPT Mess Committee.
- Head organizer of carrom matches, Energia 2020.
- Creativity and Hospitality Committee Head at Energia'20, RGIPT Sports Fest.

#### **WORKSHOP AND CONFERENCES**

- **Workshop – IOT, Winter School, RGIPT, 2018.**
- **Industrial trip – An educational trip to IOCL, Panipat,** where we were shown how the refinery units are controlled by control panel and were introduced to the safety rules of the industry via the safety garden.
- **Plastic waste management Online Workshop,** in this we learned about the management of plastic waste and its uses on industrial level.