SAURAV

ACADEMIC DETAILS

Year	Degree / Board	Institute	GPA / Marks(%)
---	B.Tech in Production & Industrial Engineering	Indian Institute of Technology, Delhi	6.87
2017	CBSE	Modern Academy	90.6/100
2015	CBSE	Nazareth Academy	10/10

INTERNSHIPS

• Himalayan Chipko Foundation (HCF), Paukhal Uttarakhand (25/6/2018 - 13/7/2018) : Garhwal Coaching Camp
  - Taught about 100 student of class 9,10,11 and 12 with a group of 8 people
  - Got to know about working of NGO and experienced working
  - Got aware of environmental issue and various problems of society from the president of HCF, JP Dabral a social entrepreneur and social activist honored by the Ashoka Fellowship, Real Heroes Award by CNN IBN and many other

PROJECTS

• **Internal model control on closed loop supply chain** (December, 2019) | Prof. Jitendra Madaan
  - Studied about internal control model and supply chain
  - Reviewed research paper on mitigating bullwhip effect on open loop supply chain and reproduced its result on Matlab
  - Model closed loop supply chain with IMC control approach for tracking inventory
  - Simulated the result of IMC model on Matlab simulink for inventory target tracking by considering return of products for better profit margins
• **Thermodynamic analysis of Punching** (May 2019 - June 2019) | Prof. PMV Subbarao
  - Studied heat transfer, surface deformation and force calculation in punching
  - Reviewed previous researches on surface contact, work done and heat exchanges
  - Calculated effect on punching force due to changes in thermodynamics and microstructure
• **Hydrothermal pretreatment of Bagasse** (May 2019 - June 2019) | Prof. Vivek Kumar
  - Analysed the production of ethanol from bagasse by hydrothermal pretreatment
  - Found the optimal pretreatment condition for extraction of lignin by varying mass, water and temprature
• **Modelling and flow analysis in solidworks plastics** (Feb 2019 - April 2019) | Prof. Naresh Bhatnagar
  - Designed model of comb and analysed in solidworks plastic for number and location for gate
  -Presented in class how to choose material, time of cooling, cooling channel for least warpage and other deformation
• **Foot pedal electricity generator** (Sep 2017 - Nov 2017) | Prof. P M Pandey
  - Designed and Manufactured a mechanism which upon walking produces electricity

SCHOLASTIC ACHIEVEMENTS

• Stood at 18th position in state in National Science Olympiad in Standard 10

TECHNICAL SKILLS

• Programming Languages - OCaml, Python, Java, Matlab, SQL
• Software - Autodesk Inventor, SolidWorks ,MS Excel, MS Powerpoint, MS Word, Anylogic
• Currently pursuing - Data structure and algorithms, Control theory and application
• Courses done - Operation research, Numerical method and computation, Stochastic modeling and simulation

EXTRA CURRICULAR ACTIVITIES

• **Event Executive in Rendezvous 2019** - Part of 250+ events that will take place, and a footfall of over 80,000, 13,000+ participants and 170+ artists from more than 20 countries.
  -Managing more than five events in team of four with the help of fifteen activity heads
• **Sports** - Participated in Inter Hostel Hockey Tournament 2017 and 2018 IIT Delhi. Regular player of badminton and chess
• Member of **Mechanical Nucleus Team 2018** in TNP IIT Delhi - Pitched companies for Mechanical Department and made companies open for mechanical and P&I students which were initially restricted for these branches
  - Managed interview and online test for training and placement process

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COURSES DONE

Solid Mechanics, Intro. To Computer Science, Intro. To Electrical Engg., Kinematics & Dy. Of Machines, Near Net Shape Manufacturing, Thermal Sc. For Manufacturing, Mechanical Engg. Drawing, Intro. To Industrial & Product, Calculus, Linear Algebra & Diffe. Equa., Introduction To Statistics, Electromagnetic Waves&qua.mec.