



SUMIT PANWAR | 20AG61R10

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FARM MACHINERY AND POWER

Contact no. 6261315809

## EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2022	M.TECH	IIT Kharagpur	8.38 / 10
2020	B.TECH	JNKVV Jabalpur	7.61 / 10
2015	HSC	Madhya Pradesh Board of Secondary Education	87.2%
2013	SSC	Madhya Pradesh Board of Secondary Education	81.5%

## PROJECTS

### M.Tech Project (2021-22)

#### Modeling soil - tool interaction of a sweep type cultivator using Altair EDEM software

- Creation of a 3D model of the sweep cultivator
- Determination of soil properties towards model simulation
- Simulation of the performance of the sweep cultivator using Altair EDEM

### B.Tech Project (2020)

- Study of water table behaviour in Dindori, Mandla and Jabalpur districts
- Study of type of water body and drainage system available in the area
- Analyzed effect of climate change on ground water
- The study of ground water and drainage system of upper Narmada basin

## TRAINING

### Skill Development Training -1 Northern Region Farm Machinery Training & Testing Institute, Hisar (July 2018)

- Operation and maintenance of Tractor and Agricultural Machinery
- Study of various sub-assemblies of Tractor
- Tractor testing activities and Testing procedure
- Operation, maintenance and repair of 5hp Single Cylinder IC Engine

### Industrial Training Patidar Enterprises Indore( 1 August 2019- 10 October2019)

- Manufacturing of farm equipment and their parts
- Operated Drill, Sheet Metal Cutting Machine, Metal Cutter and Shaper
- Assembling, adjustment and maintenance of various farm machinery

### Hands on Training College of Agricultural Engineering, Jabalpur( October 2019- December2019)

- Solar plate installation
- Processing of raw turmeric and preparing turmeric powder and its packaging
- Installation of Sprinkler and Drip irrigation system at experimental plots
- Remote Sensing and GIS Applications

## CERTIFICATIONS

### Introduction to SQL | SkillUp

- This program consist MySQL, PostgreSQL and SQL Server, built-in SQL functions, joins and subqueries stored procedures

### Master solidworks2018-3D (2021) | Udemy

- This program consists of sketches and 3D Modelling section which have provided structure design and their simulations

## AWARDS AND ACHIEVEMENTS

- Secured AIR-59 in Graduate Aptitude Test in Engineering 2020
- Awarded Merit scholarship under medhavi vidhyathi protasahan yojna (2015)

## COURSEWORK INFORMATION

Tractor system design | Farm machinery design and testing | Soil dynaics in tillage and traction | Statical method | Internal combustion engine | Alternative energy sources | Solar photovoltaic technologies and systems | Robotics | Tyre Technology

## SKILLS AND EXPERTISE

- **Computer Skill** : Solidwork Software, SQL, MSOffice
- **Soft skill** : Communication skill, Management skill, Responsibility and punctuality, Quick learning, Problem-solving

## EXTRA CURRICULAR

- Represented JNKVV university in 19th All India Agri-sports meet, PAU Ludhiana (2018-19)
- Secured winning position in volleyball in the 20th inter collegiate sports &games meet (2018-19)
- Procured winning position in volleyball in the 19 th inter collegiate sports &games meet (2017-18)

Iself declaration by the student