

CURRICULUM-VITAE

1. Personal Details:

Full Name : Dr. Omkar Gupta
Fathers Name : Rajkumar Gupta
Date of Birth : 10/06/1995
(DD/MM/YY)
Email : omkargupta9876@gmail.com
Age as on the date : 28 years 4 month
(10/10/2023)
Phone No : +91 8359092994
Marital Status : Unmarried
Permanent address : House No.- 217, Village-Post- Chhapra,
District – Katni (M.P.), Pin Code – 483440



2. Educational Qualifications:

Qualifications	Specialization /Discipline	Name of University / Board	Year of Passing	Marks /CGPA	Class /Grade
SSC (10 th)	Hindi, English, Sanskrit, Mathematics, Science and Social science	Madhya Pradesh Board of Secondary Education	2010	86.16%	First Division
HSC (12 th)	Hindi, English, Physics, Chemistry and Mathematics	Madhya Pradesh Board of Secondary Education	2012	89.80%	First Division
Bachelor's Degree	Agricultural Engineering	Jawaharlal Nehru Krishi Vishwa Vidyalaya, Jabalpur	2016	8.58	Grade A
Master's Degree	Farm Machinery and Power	IIT, Kharagpur	2018	8.68	Grade A
Ph.D.	Farm Machinery and Power Engineering	Indian Agricultural Research Institute, New Delhi	2023	8.25	Grade A
SET/GATE/NET	1. MHRD GATE 2016 – AIR 29 2. ICAR NET 2019 - Farm Machinery & Power 3. ICAR NET 2023 - Farm Machinery & Power				

3. Experience:

Name of the Institute	Post held	Period		Nature of work And place of work	No. of years /Month
		From	To		
Tractor and Farm Equipment Limited	Intern	09/07/2017	16/04/2018	Development of Mounted Laser Land Leveller Using Electro-Hydraulic Hitch System. TAFE R&D, Chennai	10 months
Tractor and Farm Equipment Limited	Post Graduate Executive Trainee	23/07/2018	30/07/2019	Verification and validation of developed system for control system team of R&D division. TAFE R&D, Chennai	1 year

4. Publications:

(i.) Published research papers:

Sr. No.	Title of the research paper	Journal	Year of Publication	NAAS rating
1.	Effect of operational parameter on tractor-implement system's performance	The Pharma Innovation Journal	2023	5.23
2.	Sensor-based performance monitoring system for tractor-implement combination	Journal of Community Mobilization and Sustainable Development	2023	5.67

(ii.) Published news articles:

Sr. No.	Title of the article	Publisher	Year of Publication	E-ISNN No.
1.	Electro-hydraulic Hitch System	Agriculture & Food: E-Newsletter	2022	2581-8317
2.	Head-land Management System for Agriculture Tractor	Agriculture & Food: E-Newsletter	2022	2581-8317
3.	IoT Based Monitoring System for Precision Agriculture	Agriculture & Food: E-Newsletter	2022	2581-8317
4.	Recent Advancements in Unmanned Ground Vehicles for Herbicide Applications	Agriculture & Food: E-Newsletter	2022	2581-8317
5.	Smart Agriculture Technology	Agriculture & Food: E-Newsletter	2022	2581-8317

6.	Laser Land Leveler: A Precise Levelling Technology	Agriculture & Food: E-Newsletter	2022	2581-8317
7.	Millets as Superfood for Good Health	New Era Agriculture Magazine	2023	2583-5173
8.	Artificial Intelligence and Machine Learning in Agriculture	New Era Agriculture Magazine	2023	2583-5173
9.	Optimizing Energy Management Strategies for Sustainable Farming: A Focus on off-grid Power Solutions	New Era Agriculture Magazine	2023	2583-5173

5. Awards:

1. **University Gold Medal – B.Tech**
2. **Best Article Award in volume 04-issue 08 in Agriculture & Food: e Newsletter.**

6. Additional Information:

1. ICAR-IARI Ph.D. Entrance 2019 – AIR 2
2. ICAR-SRF 2022 – AIR 3
3. Participated in International Olympiad of Mathematics 2010
4. Participated in International Olympiad of Mathematics 2011
5. Secured university first position in National Mathematics Day competition 2012

7. Trainings:

Name of the Institute	Post held	Period		Nature of work	Place of work
		From	To		
Central Farm Machinery Training and Testing Institute	Trainee	05/05/2014	30/05/2014	Operation and Maintenance of Tractor and Agricultural Machinery	Budni (M.P.)
ICAR-Central Institute of Agricultural Engineering	Trainee	01/06/2015	30/06/2015	Manufacturing/Operation of Agro-Processing Equipment and Technologies and Agricultural Energy & Power	Bhopal (M.P.)
Office of Agriculture Engineer	Trainee	01/01/2016	29/02/2016	Custom Hiring Centers - A Case Study in Jabalpur District	Jabalpur (M.P.)

Hari Om Vermi Compost	Trainee	01/03/2016	30/04/2016	In-Plant Training on Production of Vermi Compost	Jabalpur (M.P.)
Center of Excellence in Farm Machinery, CSIR-CMERI	Trainee	20/02/2023	24/02/2023	Advanced Entrepreneurship-cum-skill Development Programme (E-SDP) on Precision Agriculture	Ludhiana (Punjab)

8. Seminar/Conference:

1. Attended an "8th Asian-Australian Conference on Precision Agriculture" ACPA-2019 at Punjab Agricultural university, Ludhiana (Punjab)
2. Participated and presented a paper titled "Enhancing Tractor-Implement performance with Sensor-Based Slip and Draft Monitoring System" in the poster session of the "35th National Convention of Agricultural Engineers & National Seminar on "Emerging Technologies for Advances in Agriculture & Horticulture"
3. Participated in the Online Seminar on "Paradigm Shift in Mechanization for Futuristic Agriculture" organized by NAHEP-CAAST
4. Participated in the webinar on "National Seed System and Policy Perspective" organized by NAHEP-CAAST
5. Participated in the National Level Online Quiz on "Farm Mechanization" organized by Department of Agriculture, Mandsaur (M.P.)
6. Participated in the webinar "World Environment Day-2020" organized by NAHEP-CAAST

9. Symposium/Conference proceeding

Sr. No.	Title of the research paper	Conference	Year of Publication
1.	Enhancing tractor-implement performance with sensor-based slip and draft monitoring system	35th National Convention of Agricultural Engineers & National Seminar on Emerging Technologies for Advances in Agriculture & Horticulture	2023

10. Expertise Skills: Concept Proofing, 2D/3D Design, Field Testing, Embedded System, Programming and Scripting, Data visualization and Analysis, Circuit and PCB Design.

11. Software: Arduino IDE, Fritzing, Solid works, DIAdem, MATLAB-Simulink, MS Office.

12. Computer Language: Embedded C, Python.

Declaration:

Hereby, I assure that the information furnished above is true, correct and complete to the best of my knowledge.

Date: 18/10/2023

Place: VNMKV, Parbhani


Name and Signature
(Omkar Gupta)