

Publications

ACHIEVEMENTS:

- Achieved **Gold medal, Merit and first** for best overall grade point in Master degree at university SHUATS.
- Achieved **Young professional award** in the field of farm machinery and power engineering on the occasion of 1st International conference global initiatives in research, innovation and sustainable development of agriculture and allied sciences.
- NTS Scholarship in Master degree, ICAR.
- Achieved **1st prize** in seminar given on **business model** at CIAE, Coimbatore.
- Got **Life Membership certificate** of Agro environment education and farmers welfare society (regd.).
- Got **Life Membership certificate** of Indian society of agricultural engineers.
- **Appreciation certificate**, Krishi Yantra Mela-2020, All india AICRP-FIM, JNKVV, Jabalpur.
- **Appreciation certificate**, 35th National Convention of Agricultural Engineers and national seminar on Emerging Technologies for Advances in Agriculture and Horticulture- ICAR NAHEP, JNKVV, Jabalpur.
- Nominated as **Hostel prefect** for the academic year 2021-2022, Kalpana Chawla Girls Hostel, JNKVV, Jabalpur.
- Served as the **Assistant Warden- 2024** of Maharani Laxmi Bai Hostel at JNKVV, Jabalpur.
- Got **NSS certificate** for participating in NSS camp conducted by college at Mulapalem village, Bapatla.
- Got **blood donation certificate**, 2 times donated during blood donation camp conducted at CAE Bapatla and also at NSS camp.
- Got 1st prize in volley ball and ball- badminton games conducted at CAE, Bapatla for 3yrs during 2010-2013.
- Got 2nd prize in athletics (100m, 200m) competition conducted at CAE, Bapatla.

PATENTS, RESEARCH PAPERS/ BOOKS/ BOOK CHAPTERS/ MANUAL/ARTICLES /ABSTRACTS:

S. No.	Patents
1.	Nandini Y , Shrivastava AK, Avinash K. 2024. Engine operated remote controlled sprayer cum weeder machine for agricultural purpose, Design No. 410555-001
2.	Avinash K, Shrivastava AK, Nandini Y and Rohit N. 2024. Soil Profile meter for measuring the profile of ridges and furrows of soil, Design No. 410557-001
3.	Avinash K, Shrivastava AK, Rohit N and Nandini Y . 2024. Tractor operated spiral tiller, Design No. 410559-001
4.	Yalaka Nandini , Avinash K, Pramod RA, Anil RP, and Sandeep KR. Single-Row Multi-Crop Inclined Plate Planter. Design No. 448953-001
5.	Avinash Kumar, Atul Kumar Shrivastava, Yalaka Nandini , and Rohit Namdeo. Rotary Blade for Tiller Machine. Design No. 410558-001
S. No.	Research papers
1.	Nandini Y , Kumar A, Kadam DM, Singh I, Shrivastava AK, and Pimpale AR. 2025. Performance assessment of L and J shaped rotary blade for measuring the mean weight diameter of black soil under laboratory condition. International Journal of Agriculture Extension and Social Development 8(2):269-276.

2.	Nandini Y , Shrivastava AK, Kumar A and Namdeo R. 2023. Effect of operational parameter on the bulk density of the rotary blades (l and j- shape blade), Biological Forum, 15(10):912-917.
3.	Nandini Y , Moses SC. 2022. Development and performance evaluation of manual multi-crop inclined plate planter. Agricultural Engineering Today, 46(3): Page no. 34-38.
4.	Nandini Y and Shrivastava AK. 2021. A review of different types of autonomous agriculture machines. The Pharma Innovation Journal, 10(12): 880-884.
5.	Nandini Y , Moses SC and Aalam RN. 2018. Design of Manually Operated Multi-Crop Inclined Plate Planter for Farm Women, published in International Journal of Current Microbiology and Applied Sciences, 7(6): 931-940.
6.	Nandini Y , Devojee B, Nagababu G, Manoj K and Hemakumar HV. 2018. Analysis, estimation and mapping of irrigation water quality index of Bapatla Mandal, Guntur district, Andhra Pradesh, India by using surfer software published in International Journal of Chemical Studies, 6(3):810-818.
7.	Kumar A, Nandini Y , Kadam DM, Namdeo R, Singh I, Shrivastava AK, and Pimpale AR. 2025. Optimization of the performance parameters of hoe type ridger under laboratory condition of vertisol (Black soil) by using response surface technique. International Journal of Agriculture Extension and Social Development 8(2):278-288.
8.	Kumar A, Nandini Y , and Shrivastava AK. 2025. Performance assessment of rotavator under vertisols field conditions in Jabalpur. Plant Archives, 25(1):1378-1381.
9.	Kumar A, Shrivastava AK, Nandini Y and Rohit N. 2023. Development of profilemeter for measuring displacement and disturbance of soil by ridger, Biological Forum, 15(10): 706-710.
10.	Kumar A, Shrivastava AK, Nandini Y , and Namdeo R. 2023. Performance evaluation of trailed type disc harrow on vertisols field condition. International Journal of Statistics and Applied Mathematics, 8(6): 329-333. NAAS- 5.12
11.	Namdeo R, Shrivastava AK, Kumar A and Nandini Y . 2022. Optimization of the performance parameters of the L- shaped rotary blade for the development of a plastic mulching machine. The pharma innovation 2022, 11(12):5944-5953. NAAS- 5.23
12.	Devojee B, Nagababu G, Manoj K, Nandini Y and Hemakumar HV. 2018. Assessment and Mapping of Irrigation Water Quality Index of Bapatla Mandal, Guntur District, Andhra Pradesh, India published in International Journal of Current Microbiology and Applied Sciences, 7(01):1914-1920. NAAS- 5.38
13.	Kadam DM, Kumar A, Shrivastava AK, Singh I, Nandini Y , and Parihar DS. 2020. Assessment of efficiency of tractor operated axial flow thresher for paddy crop by evaluating the operational and performance parameters. Journal of Pharmacognosy and Phytochemistry 9(1): 2353-2360.
14.	Kadam DM, Shrivastava AK, Guru PK, Namdeo R, Kumar A, and Nandini Y . 2021. Performance evaluation of tractor operated hydro mechanical offset rotavator for intra row weeding in orchards. The Pharma Innovation Journal 10(5): 1730-1735.
15.	Kadam DM, Shrivastava AK, Deshmukh G, Kumar A, Chetan CR, Nandini Y , and Singh I. 2019. Evaluation of power weeder and comparative study of power weeder with manually operated rotary weeders and manual weeding method. Journal of Pharmacognosy and Phytochemistry 8(5): 2528-2533.
16.	Kadam DM, Shrivastava AK, Verma DK, Tiwari KB, Kumar A, Singh I, Nandini Y , Panse R, and Rajak SK. 2020. Feasibility testing and evaluation of manually operated paddy drum seeder in vertisol of central India. International Journal of Chemical Studies 8(2): 2887-2893.
17.	Namdeo R, Shrivastava AK, Kumar A, Guru PK, Patel M, Paliwal R, Nandini Y , and Singh I. 2025. Development and evaluation of precise seed metering unit for soybean. Plant Archives. 25(2). (Paper has accepted and remain about to publish)
S. No.	Books (Authored)
1.	Nandini Y and Shrivastava AK. 2023. Agricultural Technologies for drudgery reduction of farm women. Blue Rose One Publications, ISBN no. 978-93-5704-649-7.
2.	Nandini Y and Shrivastava AK. 2021. Technical Performance of Combine Harvester (Case study). Lambert Academic Publishing, Dodo books Indian Ocean Ltd., ISBN no. 978-620-3-92808-2.
3.	Nandini Y and Pramod A. 2020 Workshop Technology and Instrumentation (Objective type book). Notion press, with ISBN 978-1-68509-353-2.

4	Nandini Y , Nagababu G, Manoj K, Devojee and Hema kumar HV. 2021. Irrigation Water Quality Index(Evaluation and mapping Book), Lambert Academic Publishing, Dodo books Indian Ocean Ltd., with ISBN 978-620-3-86395-6.
5	Avinash Kumar, Y. Nandini , Atul Kumar Shrivastava, and Indraveer Singh. 2025. Practice Book on Farm Power Engineering, (Multiple Choice Book). Scientific Publisher, Jodhpur, (Rajasthan). Under Process.
6	Y. Nandini , Atul Kumar Shrivastava, and Avinash Kumar. 2025. Short Notes: Farm Machinery and Their Performance. Scientific Publisher, Jodhpur, (Rajasthan). Under Process.
S. No.	Book Chapters
1.	Yalaka Nandini , Praveen K , Shrivastava AK and Kumar A. 2022. Economic Analysis ofCombine Harvester - Compendium of Horticultural Sciences, JPS Scientific Publications, India, ISBN no.: 978-93-95967-00-6.
2.	Yalaka Nandini , Avinash Kumar, Rohit Namdeo, Indraveer Singh, Dhananjay M. Kadam, and Shraddha Muley. 2025. Robotics and Automation in Agriculture. Smart Technologies in Agricultural Production. DvS Scientific Publication, (44-81).
3.	Avinash Kumar, Yalaka Nandini , Rohit Namdeo, Indraveer Singh, Dhananjay M. Kadam, and Shraddha Muley. 2025. Introduction to Smart Agriculture. Smart Technologies in Agricultural Production. DvS Scientific Publication, (1-16).
4.	Dhananjay M. Kadam, Yalaka Nandini , Indraveer Singh, Avinash Kumar, and Shraddha Muley. 2025. Machine Learning and Artificial Intelligence in Agriculture. Smart Technologies in Agricultural Production. DvS Scientific Publication, (122-156).
5.	Rohit Namdeo, Indraveer Singh, Yalaka Nandini , Avinash Kumar, Dhananjay M. Kadam, and Shraddha Muley. 2025. Remote Sensing in Agriculture. Smart Technologies in Agricultural Production. DvS Scientific Publication, (172-217).
6.	Dhananjay M. Kadam, Indraveer Singh, Yalaka Nandini , Avinash Kumar, and Shraddha Muley. 2025. Internet of Things (IoT) in Agriculture. Smart Technologies in Agricultural Production. DvS Scientific Publication, (82-121).
7.	Dhananjay M. Kadam, Avinash Kumar, Yalaka Nandini , Indraveer Singh, and Shraddha Muley. 2025. Unmanned Aerial Vehicles (UAVs) in Agriculture. Smart Technologies in Agricultural Production. DvS Scientific Publication, (218-235).
8.	Indraveer Singh, Rohit Namdeo, Yalaka Nandini , Dhananjay M. Kadam, Avinash Kumar, and Shraddha Muley. 2025. Precision Farming Fundamentals. Smart Technologies in Agricultural Production. DvS Scientific Publication, (236-267).
9.	Dhananjay M. Kadam, Avinash Kumar, Indraveer Singh, Yalaka Nandini , and Shraddha Muley. 2025. Precision Farming: Concepts and Applications. Smart Technologies in Agricultural Production. DvS Scientific Publication, (157-171).
S. No.	Manuals
1.	Rajaiah P, Nandini Y . 2017-2018. Engineering drawing practical manual, PJTSAU.
2.	Avinash K, Nandini Y , Rohit N, Manish P and Shrivastava AK. 2024. Manual No. DFAE/CAE/JNKVV/2024/01. Operational Manual for soil-bin test set-up, JNKVV, Jabalpur.
S. No.	Popular Articles
1.	Nandini Y . 2018. Yantralatho Vari Sagu (In telugu), Krishijagaran, 3(12): Pg No. 12.
2.	Nandini Y , Laxman B and Pramod A. 2019. Paddy baler & Silage baler (In telugu), Krishijagaran, 4(2) Pg no. 31.
3.	Nandini Y , Pramod A, Laxman B and Sandeep R. 2019. Tractor Mailage Peragalante (In telugu), Annadatha, March-Pg no. 19.

4.	Pramod A, Nandini Y , Laxman B and Ashwin K. 2019. Shukshma Sagu Neeti Padhathi, Krishijagaran (In telugu), 4(5): Pg No. 16.
5.	Laxman B, Nandini Y and Pramod A. 2019. China Mariyu Sannakaru Raithulaku Upayogapade China Tractor Panimutlu (In telugu), Krishijagaran, 4(10): Pg No. 60.
6.	Laxman B, Pramod A and Nandini Y . 2019. Metta Pranthalalo upayogapade Kalupu Thiyu Sadhanalu (In telugu), Krishijagaran, 4(2): Pg No. 20.
7.	Laxman B, Pramod A and Nandini Y . 2019. Verusenaga Vithanam Vithu Parikaralu (In telugu), Krishijagaran, 4(3): Pg No. 18.
8.	Laxman B, Pramod A and Nandini Y . 2020. Panta Nurpidi Yantralanu Upayoginchatamlo Jagrathalu (In telugu), Krishijagaran, 5(1): Pg No. 10.
9	Pramod A, Laxman B, Ashwin K and Nandini Y . 2018. Vyavasaya Rangamlo Plastic Viniyogam (In telugu), Manarathuvani, November: Pg no. 13.
10.	Vennela B, Laxman B, Pramod A, Nandini Y . 2019. Importance of laser Guided Land Leveller, Readers Shelf, 16(2): Pg No. 43.
11.	Sandeep R, Ranjith G, Nandini Y . 2024. Intipantadharulu thisukovalsina vishayalu, Raithunestham, 4(12):Pg No. 46-50.
S. No.	Abstract Published/ Accepted
1.	Nandini Y and Shrivastava AK. 2023. Performance evaluation of mechanical weeder for Jowar millet crop, National Seminar on Production, Proccession and Marketing of Millets: Issues and Solutions, Jawaharlal Nehru Krishi Vishwa Vidyalaya, Jabalpur (MP), T1-P18: Pg no. 15.
2.	Nandini Y and Shrivastava AK, Patel M, Kadam DM and Mehta Sk. 2023. Reduce the women drudgery by using autonomous weeder for weeding operation. 35th National Convention of Agricultural Engineers & National Seminar on Emerging Technologies for Advances in Agriculture & Horticulture (ETA AH-2023). 12-13 September 2023, JNKVV, Jabalpur, page no. 165.
3.	Nandini Y and Shrivastava AK. 2022. Review on application of robotic systems in precision horticulture, IV th International Conference in Hybrid Mode on Innovative and Current Advances in Agriculture & Allied Sciences (ICAAAS-2022), during 12-14 June 2022 at Himachal Pradesh University, Summer Hill, Shimla (H.P.) India, page no. 327
4.	Nandini Y and Shrivastava AK. 2022. Finite Element Analysis of Remote Operated Farm Vehicle Chasis by Using Different CAD-CAE Softwares . 56th Annual Convention of Indian Society of Agricultural of Engineers and International Symposium. Ergonomics Safety in Agriculture and Precision Farming, 2022, FMPE/PF/001, PP 192-193.
5.	Nandini Y , Moses SC and Aalam RN. 2018. Design of Manually Operated Multi-Crop Inclined Plate Planter for Farm Women, National conference on digital and engineering technologies for precision agriculture and value addition & farm engineering Expo, FM-82.
6.	Nandini Y , Moses SC and Aalam RN. 2018. Design and development of Manually Operated Multi-Crop Inclined Plate Planter for Farm Women, 52nd Annual Convention of ISAE and National Symposium on Doubling farmers income through technological Interventions, FMP/SPW-44.
7.	Nandini Y , Devojee B, Nagababu G, Manoj K and Hemakumar HV. 2019. Mapping & Analysis, estimation of irrigation water quality index of Bapatla Mandal, Guntur district, Andhra pradesh, India by using surfer software, 53rd Annual Convention of ISAE and International sational Symposium on Engineering technologies, SWC/HGIM-08.
8.	Avinash K, Shrivastava AK, Nandini Y and Rohit N. 2023. Technologies to be required for the production of finger millet (eleusine coracana) in india, National Seminar on Production, Proccession and Marketing of Millets: Issues and Solutions, Jawaharlal Nehru Krishi Vishwa Vidyalaya, Jabalpur (MP), T1-P27: Pg no.21.
9.	Devojee B, Nagababu G, Manoj K, Nandini Y and Hemakumar HV. 2018. Assessment and Mapping of Irrigation Water Quality Index of Bapatla, 52nd Annual Convention of ISAE and National Symposium on Doubling farmers income through technological Interventions, SWE/SP-21.

10.	Avinash K, Shrivastava AK, Nandini Y and Rohit N. 2023. Requirements of mechanization for cultivation of millets crop, National Seminar on Production, Proccession and Marketing of Millets: Issues and Solutions, Jawaharlal Nehru Krishi Vishwa Vidyalaya, Jabalpur (MP), T1-P22: Pg no.18.
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TECHNICAL SKILLS:

- **Operating Systems** : Windows XP, Windows 7, Windows 8
- **Languages** : C
- **Software's** : Auto-cad, Pro-e, surfer
- **Applications** : Microsoft Office