



Dr. Anurag Patel

Assistant Professor

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Educational Qualification:

Ph.D (Farm Machinery and Power Engineering) M.Tech, B.Tech

Total Experience: 7 yrs 06 month

Academic: 2 yrs 11 Month: | Research: 4 year 07 month

Areas of Interest: Farm machinery and power, Conservation agriculture machinery

Brief Profile:

Research publications in International Journal:

Total Citation Index: 159 (h-index: 4, i10-index: 3)

1. Chaudhary, V.P., Singh, K.K., Pratibha, G., Bhattacharyya, R., Shamim, M., Srinivas, I., & **Patel, A.** (2017). Energy conservation and greenhouse gas mitigation under different production systems in rice cultivation. *Energy - Elsevier* (Vol. 130): 307–317. (NAAS Rating: 15) (Citation: 120)
<http://dx.doi.org/10.1016/j.energy.2017.04.131>
2. Chaudhary, V.P., Parmanik, M., & **Patel, A.** (2017). Effect of conservation tillage and crop residue management on soil physical properties and crop productivity of wheat. *Agricultural Mechanization in Asia, Africa and Latin America* (Vol. 48): 62-70. (NAAS Rating: 6.30) (Citation: 3) <https://www.researchgate.net/publication/323412484>
3. **Patel, A.**, Singh, R., Shukla, P., & Moses, S.C. (2018). Performance evaluation of self-propelled reaper binder for harvesting of wheat crop. *Int. J. Curr. Microbiol. App. Sci.* 7(12): 896- 906. <https://doi.org/10.20546/ijcmas.2018.712.112>

4. **Patel, A.,** & Verma, R.K. (2019). Probability analysis for prediction of annual maximum rainfall of one to five consecutive months for Sultanpur region. *Internat. J. agric. Sci.*, 15 (1): 15-24. <https://DOI:10.15740/HAS/IJAS/15.1/15-24>
5. Shukla, R.D., **Patel, A.,** & Kumar, A. (2019). Tray drying characteristics of onion slices and physicochemical analysis of dried onion powder. *Int. J. Currt. Microbiol. App. Sci.* 8 (04): 2468-2483. <https://doi.org/10.20546/ijcmas.2019.804.288>
6. Shukla, P., Nandi, S., Sahu, P., **Patel, A.,** & Tripathi, H. (2020). Field test analysis of straw reaper combine for optimized operating condition to improve the performance. *CJAST*, 39(8): 77-86, 2020. <http://www.sdiarticle4.com/review-history/56647>
7. Sawant, C.P., Singh, K.P., Singh, R.S., Lakaria, B.L., **Patel, A.,** Gupta, A., Khadatkar, A., & Kumar, M. (2020). Comparative evaluation of maize planters in conservation agriculture under black cotton soil of Central India, *BKAP*, Volume 35(2), 39-44. **DOI:10.18805/BKAP201**
8. **Patel, A.,** Singh, R.C., & Tripathi, A. (2020). Development and testing of tractor operated variable depth fertilizer applicator on application of granular urea in wheat crop planted on beds. *IJCS* 2020; 8(5): 989-996. <https://doi.org/10.22271/chemi.2020.v8.i5n.1042>
9. Khadatkar, A., & **Patel, A.** (2020). Self-propelled puddler for rice (*Oryza sativa*) crop and its evaluation, *BKAP*, Volume 35(3), 175-179. **DOI: 10.18805/BKAP238**
10. Potdar, R.R., Tiwari, P.S., Shukla, P., **Patel, A.,** Jyoti, B. (2021). Drudgery reduction in operation of cleaner-cum-grader: an ergonomic intervention, *BKAP*, Volume 35(4), 219-225. **DOI: 10.18805/BKAP257**
11. **Patel, A.,** Moses, S.C., D'souza, P.M., & Aalam, R.N. (2022). Performance evaluation of tractor operated sugarcane leaf stripper through analysis of effect of length, girth and number of buds of sugarcane. *International Journal of Environment and Climate Change*, 12(11): 2337-2350.
12. **Patel, A.,** Moses, S.C., D'souza, P.M., Aalam, R.N. (2022). Design, fabrication and performance evaluation of tractor operated sugarcane leaf stripper machine. *The Pharma Innovation Journal*, 2022; SP-11(9): 505-511.
13. **Patel, A.,** & Moses, S.C. (2022). Design and development of sugarcane leaf stripper, *BKAP*, Volume 37(4), 306-310. **DOI:10.18805/BKAP463**

14. Singh, D., Sahni, R.K., Chandel, N.S., Jat, D., Viswakarma, A.K., Biswas, A.K., & **Patel, A.** (2022). Metallurgical requirements of soil engaging component under conservation agriculture practices. *Journal of Agricultural Engineering*, 2022; Vol. 59 (4) 309-319. [DOI:10.52151/jae2022594.1784](https://doi.org/10.52151/jae2022594.1784).
15. Sawant, C.P., Singh, K.P., Singh, R.S., Lakaria, B.L., Nandeha, N., **Patel, A.**, Gupta, A. Kumar, M., Kumar, M., Vishwakarma, A.K., Pandey, H.S., Singh, D., Khadatkar, A., Babu, V.B., Magar, A.P., & Mandal, S. (2023). Irrigation and conservation agricultural practices improve crop yield, water productivity and energetics of chickpea (*Cicer arietinum*) in Vertisols of central India. *Irrigation and Drainage*, 1–18. <https://doi.org/10.1002/ird.2817>
16. Parmar, B.S., Shrivastava, A.K., Singh, S.K., **Patel, A.**, & Gajendra, S. (2023). Economic analysis of low-cost tractor drawn plastic mulching machine. *Int. J. Environ. Clim. Change*, vol. 13, no. 11, pp. 2401-2408. <https://doi.org/10.9734/ijecc/2023/v13i113406>
17. Singh, S.K., Parmar, B.P., Gajendra, S., **Patel, A.**, & Kushwaha, N. (2023). Spectral response at different water depth standing in the field. *Int. J. Plant Soil Sci.*, vol. 35, no. 21, pp. 1184-1191. <https://doi.org/10.9734/ijpss/2023/v35i214091>
18. **Patel, A.**, Parmar, B.P. Sekhon, B.S., & Khadatkar, A. (2024). Grapes cultivation in India: Status challenges and opportunities. *Int. J. Curr. Res. Aca. Rev.* 12(4): 13-21. <https://doi.org/10.20546/ijcrar.2024.1204.002>

Patents: NA

Book:

Anurag Patel, Ram Chander Singh, Sheen Cline Moses (2020). Development of fertilizer applicator in wheat crop. LAP LAMBERT Academic Publishing, pp.01-92.

Bulletin:

1. Ramesh Kumar Sahani, Anurag Patel, Dushyant Singh, Prem Shankar Tiwari and Manoj Kumar (2018). Modern agricultural equipment. CIAE/AMD/2018/268, pp. 01-48
2. Dushyant Singh, BM Nandede, CP Sawant, Manish Kumar, Anurag Patel, Aprova Sharma, AK Vishwakarma and AK Viwash (2023). Resource conservation and modern useful for agriculture farm equipment's. CIAE/AMD/TB/2023/344, pp. 01-45
3. Abhijit Khadatkar, C.P. Sawant, A.P. Magar, V.P. Chaudhary and Anurag Patel (2024). Operator's manual on trencher cum farmyard manure applicator for grape orchards. CIAE/AMD/OM/2024/65

Book chapter:

1. **Anurag Patel**, R.C. Singh and Dushyant Singh (2018). Use of renewable energy sources in agriculture, Bulletin no. CIAE/AMD/2018/268, pp. 43-46.
2. **Anurag Patel**, Dushyant Singh and R.C. Singh (2018). Conservation agriculture is a beneficial technique, Bulletin no. CIAE/AMD/2018/268, pp. 36-39.
3. Prabhakar Shukla, **Anurag Patel**, Parmanand Sahu and Himanshu Tripathi (2020). Advances in Renewable Energy Engineering, book. Energy Management in Agriculture, book chapter, AkiNik Publications, 2020, pp.37-46.
4. Satish Kumar Singh, Neha Singh Kushwha and **Anurag Patel** (2022). Remote Sensing and GIS Technologies in use of Soil and Water Conservation, Book chapter, Advanced Innovative Technologies in Agricultural Engineering for Sustainable Agriculture, AkiNik Publications, 2022, pp. 89-114.
5. **Anurag Patel**, Bhupendra Singh Parmar, and Satish Kumar Singh (2022). Crop Residue Management Machinery, Book chapter, Research Trends in Agriculture Sciences, AkiNik Publications, 2022, Volume 30, pp. 01-18.

Article: Number of 60 Hindi and English article.

Leaflets and pamphlet: One leaflets and one pamphlet.

International/National Conference & Workshops Attended:

1. Nisha Verma, V.P. Chaudhary, **Anurag Patel** and A.S. Panwar (2017). Ergonomics Study in Sugarcane-Wheat-Paddy Production System of Western Plain Zone of Uttar Pradesh. HWWE-2017: In Proceedings of 15th International Ergonomics Conference on Ergonomics for Improved Productivity. pp. 181-182.
2. V.P. Chaudhary, Nisha Verma and **Anurag Patel** (2017). Comparative Study of Ergonomics and Energy Expenditure of Brush Cutter and Manual Tools (Sickle) for Wheat Harvesting. HWWE-2017: In Proceedings of 15th International Ergonomics Conference on Ergonomics for Improved Productivity. pp.196.
3. **Anurag Patel**, Raj Kumar Verma and Susheel Kumar Patel (2018). Probability Analysis for Prediction of Annual Maximum Rainfall of One to Five Consecutive Months for Sultanpur Region, Uttar Pradesh. ABAS-2018: In proceedings of 2nd International conference on 'Advances in Agricultural, Biological and Applied Sciences for Sustainable Future. pp. 92.
4. **Anurag Patel**, R.C. Singh, Dushyant Singh, Ashok Tripathi, S.C. Moses and Prabhakar Shukla (2018). Development and testing of tractor operated variable depth fertilizer applicator on application of granular urea in wheat crop (*Triticum aestivum*) planted on beds. ABAS-2018: In proceedings of 2nd International conference on 'Advances in Agricultural, Biological and Applied Sciences for Sustainable Future. pp. 92.

5. Prabhakar Shukla, Mahesh Jadhav and **Anurag Patel** (2018). Comparative field evaluation of pneumatic planters for vegetable crops. ABAS-2018: In proceedings of 2nd International conference on 'Advances in Agricultural, Biological and Applied Sciences for Sustainable Future. pp. 32.
6. **Anurag Patel**, Rajkishor Singh and S.C. Moses (2019). Performance evaluation of self-propelled reaper binder for harvesting of wheat crop. GIAE-2019: In proceedings of 3rd International Conference Global Initiatives in Agricultural and Applied Science for Eco Friendly Environments. pp.35.
7. **Anurag Patel**, S.C. Moses (2019). Performance evaluation of the developed machine for application of granular urea on wheat crop planted on beds. In Proceedings of International Conference Sustainable Agriculture Production for Food, Nutrition and Livelihood Security: A Challenge for Asian Farmers” pp. 85.
8. Dushyant Singh, Ramesh Kumar Sahni, Narendra Singh Chandel and **Anurag Patel** (2019). Metallurgical Characterization of Fast Wearing Components of Agricultural Machinery in India. In International Conference on Sustainable Agricultural Development in Changing Global Scenario, Royal Association for science-led socio-cultural Advancement (RASSA) New Delhi pp. 230.
9. CP. Sawant, K. P. Singh, R. S. Singh, B. L. Lakaria, Dushyant Singh and **Anurag Patel** (2019). Influences of No-Till Planters on Maize Planting in Maize-Wheat Cropping Systems under Conservation Agriculture. In International Conference on Sustainable Agricultural Development in Changing Global Scenario, Royal Association for science-led socio-cultural Advancement (RASSA) New Delhi pp. 231.
10. **Anurag Patel**, Sheen Cline Moses, Prashant M. D'Souza and Rana N. Aalam (2023) Design, Development and evaluation of tractor PTO-operated sugarcane leaf stripper, Presented in Prospects and challenges of environment and biological sciences in food production system for livelihood security of farmers (ICFPLS–2023) at ICAR-CIARI, Port Blair, Andaman & Nicobar Islands, India, pp. 95.
11. Shukla Prabhakar, Nandi Subhasis, Shau Pramanand, **Patel Anurag** (2020). A study on straw reaper combine: optimization of operating conditions to improve performance, 54th Annual convention of ISAE-2020/FPM/HT-17, pp. 156.

12. **Anurag Patel**, Dushyant Singh, Manish Kumar, NS Chandel and AK Vishwakarma (2022). Utility of Resource Conservation Machinery, Presented in Rastriya Hindi Adhivashan 2022 held at ICAR-CIAE, Bhopal, during 26-27.05.2022, Page no. 91.
13. Dushyant Singh, Manish Kumar, NS Chandel, AK Vishwakarma and **Anurag Patel** (2022). Protected Agriculture: Introduction, Challenges and Opportunities, Presented in Rastriya Hindi Adhivashan 2022 held at ICAR-CIAE, Bhopal, during 26-27.05.2022, Page no. 30.
14. Dushyant Singh, NS Chandel, Manish Kumar, **Anurag Patel**, CP Sawant, AK Vishwakarma and AK Biswash (2022). Futuristic Conservation Agricultural Machinery for Sustainable Agriculture Production, Presented in National Conference on Natural farming for Sustainable Agriculture and National Prosperity, Royal Association for science-led socio-cultural Advancement (RASSA) New Delhi, pp. 286-287.
15. Manish Kumar, Dushyant Singh, **Anurag Patel**, AK Vishwkarma and AK Biswas (2023). Technological Evaluation of Selected No-till seed Drill under Conservation agriculture, Presented in National Symposium on Digital Farming: The Future of Indian Agriculture to be held during February 2-3 at ICAR-IISS, Bhopal, M.P.

FDP Attended: NA

Awards/Recognitions:

1. “**Best Research Scholar Awards- 2019**” Agricultural Technology Development Society (ATDS) Ghaziabad, Uttar Pradesh, India. Venue- Tribhuvan University Kathmandu, Nepal, 16-18 June 2019, ATDS Ghaziabad.
2. “**Innovative Article Award- 2021**” Article ID 10555, entitled “role of conservation agriculture in Indian farming”, agriculture and food e-Newsletter **ISSN: 2581 8317**, dated 13 March 2021, Agriculture and food e-Newsletter.
3. “**Best Poster Presentation Award- 2022**” Royal Association for science-led socio-cultural Advancement (RASSA) New Delhi, India. Venue- Sardar Krushinagar Dantiwada Agricultural University, Sardar Krushinagar (Gujarat), 11-13 November 2022, RASSA New Delhi.

Training:

1. Institutional training from Northern Region Farm Machinery Training and Testing Institute Tractor Nagar, Hisar, Haryana. From 01.0.2008 to 30.07.2008

2. Institutional training from U.P. State Industrial Corporation Limited, Lucknow, Uttar Pradesh. From 01.07.2009 to 30.07.2009
3. Skill development training on Computer Aided Design (Pro_ Engineering) from Central Institute of Agriculture Engineering, Bhopal, Madhya Pradesh. From 25.05.2011 to 24.06.2011
4. *Training on " Practical training of farmers on advanced agricultural tools and equipment" from* Central Institute of Agriculture Engineering, Bhopal, Madhya Pradesh. From 20.12.2017 to 22.12.2017
5. Training on Linking Geo-spatial Technologies and Agricultural System Models to Assess Impact of Climate Change on Natural Resource Management from Indian Institute of Soil Science, Bhopal, Madhya Pradesh. From 24.10.2018 to 02.11.2018.

Membership of Professional Bodies:

1. Member of All India Agricultural Students Association (AIASA). www.aiasa.org.in, AIASA/SHIATS/OL/LM/2018
2. Member of the Indian Society of Agricultural Engineers (ISAE). www.isae.in, LM-11758
3. Member of Agricultural Technology Development Society (ATDS). <https://agriinventionjournal.com>, ATDS/1114

Other Achievements:

1. Farmers' training program on "**Hands-on training and demonstration of improved agricultural implements suitable for conservation agriculture**" is organized under the CRP on CA during **1-3 Feb. 2023** at CIAE-CIAE, Bhopal.
2. Farmers' training program on "**Hands-on training and demonstration of improved agricultural implements suitable for conservation agriculture**" is organized under the CRP on CA during **8-10 Feb. 2023**, at ICAR-CIAE, Bhopal.
3. One day farmer's training program on "Demonstration and distribution of equipment's" has been conducted **eight times** in different villages of Madhya Pradesh.
4. **Asian Research Journal of Mathematics- 2023**. Certificate of Excellence in Reviewing, Awarded to **Anurag Patel** in recognition of an outstanding contribution to the journal, **Dated 18 December 2023**.

5. **Asian Research Journal of Mathematics- 2023.** Certificate of Excellence in Reviewing, Awarded to **Anurag Patel** in recognition of an outstanding contribution to the journal, **Dated 18 December 2023.**
6. **Asian Research Journal of Current Science- 2024.** Certificate of Excellence in Reviewing, Awarded to **Anurag Patel** in recognition of an outstanding contribution to the journal, **Dated 12 April 2024.**
7. **Journal of Geography, Environment and Earth Science International- 2024.** Certificate of Excellence in Reviewing, Awarded to **Anurag Patel** in recognition of an outstanding contribution to the journal, **Dated 23 May 2024.**