**Curriculum Vitae**

**PRADEEP SINGH KASHYAP**
Professor (SWCE)
College of Technology
G. B. Pant University of Agriculture & Technology
Pantnagar, Udham Singh Nagar
Uttarakhand – 263 145, India

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| **Father's name** | : Dr. A. R. Singh |
| **Date of Birth** | : 10 August 1967 |
| **Nationality** | : Indian |
| **Marital status** | : Married |
| **Contacts** | : pskashyap@gmail.com |
| **Telephone** | : 9411144044, 9411125464 |

**Areas of interest:**

Soil & Water Conservation
Natural resource management
Water harvesting
Irrigation management
Crop growth modeling

**Honours and Awards:**

- Post-doctoral Fellowship from DAAD, Germany
- Post-doctoral Fellowship from INRA, France
- Post-doctoral Fellowship from North West University of Science & Technology, Shaanxi, China (not availed due to overlapping period with German Fellowship)
- Qualified National Eligibility Test (NET-1999) of ICAR, New Delhi, India
- Senior Research Fellowship, Ministry of Water Resources, Govt. of India
- Appreciation Letter from Vice-Chancellor (Dr. Mangla Rai)

**Memberships:**

- Member, International Society of Food, Agriculture & Environment, Finland
- Member, Indian Society of Agricultural Engineers, New Delhi, India
- Indian Society of Soil Conservation, Dehradun, India
- Life Member, Indian Water Resources Society, Roorkee, India
- Life Member, Indian Society of Agricultural Engineering, New Delhi, India

**Educational/Technical Qualifications:**

| # | Qualification | Name of University | Year | Div. | Subject of Examination |
|---|---|---|---|---|---|
| 1. | Ph.D. | Indian Institute of Technology, Kharagpur (WB) | 2001 | - | Irrigation Management |
| 2. | M.Tech. | G. B. Pant University of Agril. & Tech., Pantnagar (UK) | 1994 | I | Irrigation & Drainage Engineering |
| 3. | B.Tech. | University of Allahabad, Allahabad (UP) | 1991 | I | Agricultural Engineering |

**Employment:**

| # | Employer | Post-held | Period of Service | | Description of Work done |
|---|---|---|---|---|---|
| | | | From | To | |
| 1. | GB Pant University, Pantnagar, India | Professor | Sept 2013 | Till date | Teaching & Research |
| 2. | GB Pant University, Pantnagar, India | Associate Professor | Sept 2010 | Aug 2013 | Teaching & Research |
| 3. | GB Pant University, Pantnagar, India | Assistant Professor | Apr 2003 | August 2010 | Teaching, Research & Extension |
| 4. | Institut für Gemüsebau, Hannover, Germany | Post-Doc | Feb 2004 | March 2005 | Modeling of Cauliflower Growth & Development |
| 5. | GB Pant University, Pantnagar, India | Assistant Professor | Apr 2003 | EOL for PDF | Teaching, Research & Extension |
| 6. | INRA, Dijon, France | Post-Doc | Feb 2002 | Jan 2003 | Modeling of Weed Infestation |

**Administrative Experience:**

- Officer-in-charge, Time Table, COT since 10.01.2024
- Officer-in-charge, Stores, College of Technology since 25.04.2025
- Coordinator RTI, GBPUA&T, Pantnagar during 2019-2022
- Nodal Officer (Procurement), TEQIP-II (World Bank Project) during 2012-14
- Officer-in-charge (Agricultural Engineering) during 2006-2011
- Assistant Dean Students Welfare during 2003-2005
- Staff Counsellor during 2005-06
- Officer-in-charge (Transport) 2005-08

**Projects Handled:**

| # | Title of The Project | Name of The Funding Agency | Duration (Month/year) | Remarks |
|---|---|---|---|---|
| 1. | Training and demonstration on efficient water management through MIS in terraced land for growing vegetables | HTM MM-I Ministry of Agriculture, India | 5 years | Principal Investigator |
| 2. | AICRP on Optimization of groundwater utilization through wells & pumps | AICRP, ICAR, India | - | Co-Investigator |
| 3. | Sustainable rural livelihood security through following farming system approaches in district Tehri, Uttarakhand, India | NAIP, ICAR, India | 5 years | Associated Scientist |
| 4. | Experimental verification of SCS runoff curve numbers for selected soils and land uses | Ministry of Water Resources, Govt. of India | 3 years | Coordinating Centre Principal Investigator |

**References:**


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|---|---|---|
| Dr. R. Singh<br>Professor<br>Deptt. of Agril. & Food Engg.<br>Indian Institute of Technology<br>Kharagpur (WB) – 721 302, India | e-mail:<br><br>Tel: | rsingh@agfe.iitkgp.ernet.in<br><br>9434016968 |
| Dr. H. C. Sharma<br>Ex-Dean, College of Technology<br>G. B. Pant University of Agriculture & Tech.<br>Pantnagar, Udham Singh Nagar<br>Uttarakhand -263145, India | e-mail:<br><br>Tel: | hcsharma_ided@rediffmail.com<br><br>8476970104 |
| Dr. AKA Lawrence<br>Pro-Vice Chancellor<br>SHUATS<br>Prayagraj (UP) - 211 007, India | e-mail:<br><br>Tel: | ajailawrence@yahoo.co.in<br><br>8795322111 |


Date: 24.04.2025

Place: Pantnagar

(PS Kashyap)

# Publications

1. Yadav, A.K. and **Kashyap, P.S.** (2024). Water management for Chilli (Capsicum annuum L.) crop in sub-tropical humid region, International Journal of Environment, Agriculture and Biotechnology 9(4): 131-137 **[NAAS: 4.74]**

2. Dash, S.S., Naik, B. and **Kashyap, P.S.** (2024). Assessment of land use/land cover change derived catchment hydrologic response: An integrated parsimonious hydrological modeling and alteration analysis based approach, Journal of Environmental Management, Vol. 356: 120637 **[NAAS: 14.70]**

3. Singh, V.K., Kumar, D., **Kashyap, P.S.** and Singh, S.K. (2024). Improve the capability of physical model for runoff and sediment yield modelling with a hybrid artificial intelligence-based error updating system, Journal of Hydrology 629: 130559 **[NAAS: 12.40]**

4. Yadav, A., **Kashyap, P.S.**, Yadav, A.K., Anita, Alam, M.A. and Singh, V.K. **(2023).** Soil profile water extraction based irrigation management of potato crop. The Pharma Innovation Journal. 12(6): 2744-2750 **[NAAS: 5.23]**

5. Yadav, A., **Kashyap, P.S.**, Anita, Yadav, A.K., Alam, M.A. and Singh, V.K. **(2023).** Water Management for Potato Crop (*Solanumtuberosum*) under Scarcity Conditions. The Pharma Innovation Journal. 12(6): 2739-2743 **[NAAS: 5.23]**

6. Singh, S.K., Vishwakarma, D.K., Abed, S.A., Al-Ansari, N., **Kashyap, P.S.**, Kumar, A., Kumar, P., Kumar, R., Jat, R., Saraswat, A., Kuriqi, A., Elbeltagi, A., Heddam, S., and Kim, S. **(2023).** Soil erosion control from trash residues at varying land slopes under simulated rainfall conditions. Mathematical Biosciences and Engineering. 20(6): 11403–11428 **[NAAS: ]**

7. Anita and **Kashyap, P. S. (2023).** Water management of cabbage (Brassica oleracea) under stressed conditions. The Pharma Innovation Journal. 12(1): 3103-3109 **[NAAS: 5.23]**

8. Singh, V.K., Panda, K.C., Sagar, A., Al-Ansari, N., Duan, H.F., Paramaguru, P.K., Vishwakarma, D.K., Kumar, A., Kumar, D., **Kashyap, P.S.** and Singh, R.M. and Elbeltagi, A. (**2022)**. Novel Genetic Algorithm (GA) based hybrid machine learning-pedotransfer Function (ML-PTF) for prediction of spatial pattern of saturated hydraulic conductivity. Engineering applications of computational fluid mechanics, 16(1): pp.1082-1099 **[NAAS: ]**

9. Nivesh, S., Negi, D., **Kashyap, P.S**., Aggarwal, S., Singh, B., Saran, B., Sawant, P.N. and Sihag, P. (**2022)**. Prediction of river discharge of Kesinga sub-catchment of Mahanadi basin using machine learning approaches. Arabian Journal of Geosciences. 15(1369): 1-19. **[NAAS: 7.83]**

10. Singh, S.K., Vishwakarma, D.K., **Kashyap, P.S.,** Al-Ansari, N., Kumar, A., Kumar, P. and Kumar, R. and Elbeltagi, A. (**2022)**. Soil erosion control from trash residues at varying land slopes under simulated rainfall conditions. Pre-prints. pp 1-20. **[NAAS: ]**

11. Behera, M., Sena, D.R., Mandal, U., **Kashyap, P.S.**, Das, S.S. (**2020)**. Integrated GIS-based RUSLE approach for quantification of potential soil erosion under future climate change scenarios. Environ Monit Assess 192, 733. **[NAAS: 7.96]**

**12.** Singh, V.K., Kumar, D., **Kashyap, P.S.,** Singh, P.K., Kumar, A. and Singh, S.K., (**2020)**. Modelling of soil permeability using different data driven algorithms based on physical properties of soil. Journal of Hydrology, 580, p.124223 **[NAAS: 10.40]**

**13.** Saroj, R., Vaibhav, D. and **Kashyap, P.S.** (**2019)**. Temporal analysis of rainfall trend for Udaipur district of Rajasthan. Indian Journal of Ecology, 46(2), pp.306-310

**14.** Nivesh, S., **Kashyap, P.S.** and Saran, B., (**2019)**. Irrigation water requirement modelling using CROPWAT model: Balangir district, Odisha. The Parma Innovation Journal, 8(12), pp.185-188

**15.** Sah, N., **Kashyap, P.S.** and Raj, P., (**2019)**. Application of Artificial Intelligence to Estimate the Reference Evapotranspiration at North Bihar, India. Indian Journal of Ecology, 46(4), pp.703-706

**16.** Singh, V.K., Kumar, D., **Kashyap, P.S.** and Kisi, O., (**2018)**. Simulation of suspended sediment based on gamma test, heuristic, and regression-based techniques. Environmental Earth Sciences, 77(19), pp.1-14

**17.** Navale, M.M., **Kashyap, P.S.**, Singh, S.K., Kushwaha, D.P., Kumar, D. and Kumar, P. (**2018)**. Estimation of deterministic component of monthly rainfall time series: A case study for Pantnagar. MAUSAM, 69(3), pp.449-458

**18.** Roti, V., **Kashyap, P.S.**, Anil Kumar, Srivastava, R.K. and Harish, C., (**2018)**. Runoff and sediment yield estimation by SWAT model: review and outlook. Int. J. Curr. Microbiol. Appl. Sci., 7(10): 879-886

**19.** Dumka, B.B., **Kashyap, P.S.,** Saran, B. (**2018**). Modelling for reference evapotranspiration of Pantnagar using various training functions in Artificial Neural Network. Indian Journal of Ecology. 45(1): 19-24.

**20.** Tamta, S., **Kashyap, P.S.,** Kumar, P. **(2018)**. Estimation of Evaporation in Hilly Area by Using ANN and CANFIS System Based Models. Int. J. Curr. Microbiol. App. Sci. 7(1): 911-919.

**21.** Kumar D., Sudheer, C., **Kashyap P.S. (2017).** Modelling approach for in-situ bioremediation of contaminated groundwater: a review. HortFlora Res. Spectrum, 6(4): 234-239.

**22.** Kumar, P. Kumar, D., **Kashyap, P.S. (2017)**. Hypsometric analysis of Mid-Himalayan watershed using geomatics, Journal of Hill Agriculture 8(4): 462-467.

**23.** Saran, B., **Kashyap, P.S.**, Singh, B.P, Singh, V.K., Vivekanand. (**2017**). Daily Pan Evaporation Modeling in Hilly Region of Uttarakhand Using Artificial Neural Network. Indian Journal of Ecology. 44 (3): 467-473.

**24.** Saran, B., **Kashyap, P.S.,** Kumar, P. (**2017**). Evaporation estimation by multilayer perceptron based Artificial Neural Network and Multiple Linear Regression Techniques. Indian Journal of Ecology. 44 (1): 108-112.

**25.** Singh, S.K., Panwar, R, Gautam, J., **Kashyap, P.S.** (**2017**). Sediment outflow from paddy mulch at varying land slopes under simulated rainfall conditions. Bioved, Allahabad. 27 (2): 287-296.

**26.** Singh, S.K., **Kashyap, P.S.,** Singh, P. (**2016**). Runoff and sediment generation from grass mulch treatments at varying land slopes under simulated rainfall conditions. Progressive Research. 11 (special-viii): 5385-5389.

**27.** Singh S.K., **Kashyap P.S.** (**2016**). Sediment outflow from paddy mulch at varying land slopes under simulated rainfall conditions. HortFlora Res. Spectrum, 5(4): 275-283.

**28.** Kumar, P., Panwar, R., **Kashyap P.S.,** Kumar, D. (**2015**). Weekly pan evaporation estimation by Stephens-Stewart and Griffith models. HortFlora Research Spectrum. 4(2): 97-101.

**29.** Chaudhary, A.K., Verma, A., **Kashyap, P.S.** (**2014**). Proceedings of the national seminar on "Natural resource management & environmental concerns" held at College of Technology, GB Pant University of Agriculture & Technology, Pantnagar, India during 16-18 May 2014. pp: V-324-326.

**30.** **Kashyap, P.S.**, Verma, A., Siebert, S. (**2014**). Intercropping for Efficient Resource Utilization in Indian Agriculture: A Review. HortFlora Research Spectrum. 3(4): 310-314.

**31.** **Kashyap, P.S.** (**2013**). Irrigation management of potato based on soil profile water extraction. HortFlora Research Spectrum. 2(4): 311-318.

**32.** Kumar, P., **Kashyap, P.S.**, Javed, A. (**2013**). Temperature forecasting using artificial neutral networks(ANN). Journal of Hill Agriculture. 4(2): 110-112.

**33.** **Kashyap, P.S.** (**2013**). Response of cauliflower growth and development under water scarcity conditions in temperate zone. HortFlora Research Spectrum. 2(1): 8-13.

**34.** **Kashyap, P.S.** (**2012**). Effect of irrigation on cabbage root and shoot growth dynamics. Proceedings of 46th Annual Convention of Indian Society of Agricultural Engineers (ISAE) held at College of Technology, GB Pant University of Agriculture & Technology, Pantnagar, India during 27-29 February 2012. pp: 265.

**35.** Singh, S. **Kashyap, P.S.**, Srivastava, S.K. (**2012**). Prediction of runoff from Nagwa watershed using SCS-Curve Number method.: Journal of Hill Agriculture. 3(1): 65-67.

**36.** Gupta, P., Sirohi, N.P.S., **Kashyap, P.S.** (**2011**). Effect of nozzle pressure air speed, leaf area density and forward speed on spray deposition in simulated crop canopy. Annals of Horticulture. 4(1): 63-71.

**37.** Gupta, P., Sirohi, N.P.S., **Kashyap, P.S.** (**2011**). Drift study from an air-assisted spray nozzle. Annals of Horticulture. 4(1): 84-88.

**38.** Pandey, A., Zoremsangi, M., **Kashyap, P.S.,** Dabral, P.P. (**2010**). A field study on performance evaluation and moisture distribution of drip emitters in hills of Uttarakhand, india. Journal of Applied Irrigation Science, Germany. 45(1): 17-37.

**39.** **Kashyap, P.S.**, Kumar, V. (**2009**). Irrigation scheduling of tomato under scarcity conditions. Annals of Horticulture. 2(1): 20-25.

**40.** **Kashyap, P.S.** (**2008**). Irrigation scheduling of capsicum under scarcity conditions. International Journal of Agricultural Engineering. 1(2): 41-44.

41. **Kashyap, P.S.** (**2007**). Evapotranspiration estimation at Tehri Garhwal Region. Hill Agriculture. 25(1): 14-17.

42. **Kashyap, P.S.** (**2006**). Scheduling of irrigation for cauliflower under water stressed conditions. Hill Agriculture. 24(2): 22-25.

43. **Kashyap, P.S.** (**2005**). Response of tomato growth and development at various water deficit conditions. Hill Agriculture. 23(1): 39-43.

44. Panda, R.K., Behera, S. **Kashyap, P.S.** (**2004**). Effective management of irrigation water for maize under stressed conditions. Agricultural Water Management. 66(3): 181-203.

45. Panda, R.K., Behera, S., **Kashyap, P.S.** (**2003**). Effective management of irrigation water for wheat under stressed conditions using simulation modelling. Proceedings of 7th International Water Technology Conference, Cairo, Egypt. 01-03 April 2003.

46. Panda, R. K, Kumar, P., **Kashyap, P.S.** (**2003**). Effective Management of Irrigation Water in a Sub-humid Region using PNUTGRO Model. The Journal of Applied Irrigation Science, Germany38(1): 41-55.

47. Panda, R.K., Behera, S. **Kashyap, P.S.** (**2003**). Effective management of irrigation water for wheat under stressed conditions. Agricultural Water Management. 63(1): 37-56.

48. **Kashyap, P.S.,** Panda, R.K. (**2002**). Optimum utilization of surface irrigation water under deficit situations. Proceedings of the International Conference on "Sustainable Development of Water in 21st Century" held at Central Board of Irrigation and Power, New Delhi, India during 27-29 September 2002.

49. **Kashyap, P.S.,** Panda, R.K. (**2002**). Effect of irrigation scheduling on potato crop parameters under water stressed conditions. Agricultural Water Management 59(1): 49-66.

50. **Kashyap, P.S.,** Panda, R.K. (**2001**). Evaluation of evapotranspiration estimation methods and development of crop coefficients for potato crop in a sub-humid region. Agricultural water management. 50(1): 9-25.

51. **Kashyap, P.S.**, Panda, R.K. (**2001**). Effect of irrigation scheduling on profile soil water status and water use efficiency under scarcity conditions. Proceedings of the International conference on “Advances in civil engineering” held at IIT, Kharagpur, India during 3-5 January 2002.

52. **Kashyap, P.S. (1998)**. Design and economic feasibility of a gully control structure for land reclamation. Proceedings of "International symposium on sustainable agriculture in hill areas" held at HPKV, Palampur, India during 29-31 October 1998. pp 32-36.

53. **Kashyap, P.S.**, Singh, D.K., Das, G., Singh, R.M. Rao, P.S. (1997). Rainfall characteristics at Moradabad. Environment and Ecology. 15(4): 761-763.

54. **Kashyap, P.S.**, Singh, D.K., Singh, R.M., Rao, P.S, Biswas, R.K. (1997). Drought estimation for Moradabad region in western U.P. Environment and Ecology. 16(4): 145-147.