



# DHANEKULAINSTITUTE OFENGINEERING&TECHNOLOGY

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## FACULTYPROFILE



**NameoftheFaculty** Dr.G.Vinay Kumar

**Designation** Professor

**Email** gaddam\_vinay@ymail.com

**Department** CivilEngineering

### **Educational Background**

1. Ph.D (Civil Engineering), Visvesvaraya Technological University Belagavi (incollaboration with Divecha Centre for Climate Change, Indian Institute of Science,Bangalore).
2. Diploma in Earth Sciences, University of Iceland
3. M.Tech (Remote Sensing and GIS) conducted by Snow and Avalanche Studies Establishment, DRDO and BharathairUniversity, Coimbatore, India

### Experience

Sl. No	Institute	Designation	Period
1	Divecha Centre for Climate Change, Indian Institute of Science, India.	Research fellow	2011-2015
2	ESSO-National Center for Polar Sciences and Ocean Research, India	Research Scientist B	2015-2019
3	Dhanekula institute of Engineering and Technology	Associate Professor	April-2019 to present

## Listof Publications (National and International Journals)

- Vinay Kumar Gaddam, Kulkarni, A.V. and Gupta, A.K. (2016). Estimation of glacial retreat and mass loss in Baspa basin, Western Himalaya. *Spatial Information Research*, 24(3), pp.257-266.
- Vinay Kumar Gaddam, Kulkarni, A.V. and Gupta, A.K. (2017a). Reconstruction of Specific mass balance for glaciers in Western Himalaya using Seasonal Sensitivity Characteristic (s). *Journal of Earth System Science*, 126(4), p.55.
- Vinay Kumar Gaddam, Kulkarni, A.V., Gupta, A.K. and Sharma, P (2017b). Mass balance estimation using geodetic method for glaciers in Baspa basin, Western Himalaya. *Current Science*, 113(3), pp.486-492.
- Vinay Kumar Gaddam, Kulkarni, A.V. and Gupta, A.K (2018a). Assessment of snow-glacier melt and rainfall contribution to stream runoff in Baspa Basin, Indian Himalaya. *Environmental Monitoring and Assessment*, 190: 154. <https://doi.org/10.1007/s10661-018-6520-y>
- Vinay Kumar Gaddam, Kulkarni, A.V. and Gupta, A.K (2019). Assessment of the Baspa basin glaciers mass budget using different remote sensing methods and modeling techniques, *Geocarto International*, 1010-6049, doi: 10.1080/10106049.2018.1516247
- Kulkarni, A.V., Vinay Kumar, G., Negi, H.S., Srinivasan, J. and Satheesh, S.K., 2013. The effect of black carbon on reflectance of snow in the accumulation area of glaciers in the Baspa basin, Himachal Pradesh, India. *The Cryosphere Discussions*, 7(2), pp.1359-1382.
- Negi, H.S., Datt, P., Thakur, N.K., Ganju, A., Bhatia, V.K. and Vinay Kumar Gaddam., 2017. Observed spatio-temporal changes of winter snow albedo over the north- west Himalaya. *International Journal of Climatology*, 37(5), pp.2304-2317.
- Vinay Kumar Gaddam, Parmanand Sharma, Lavkush K. Patel, ThambanMeloth, Ajit Singh, (2016). Analysis of spatio-temporal variations in snow cover over Western Himalaya, *Proc. SPIE 9877, Land Surface and Cryosphere Remote Sensing III*, 98772A; doi: 10.1117/12.2223633; <http://dx.doi.org/10.1117/12.2223633>
- Vinay Kumar Gaddam, Parmanand Sharma, Lavkush K. Patel, MelothThamban, Ajit Singh (2016). Spatio-temporal changes observed in supra-glacial debris cover in Chenab Basins, Western Himalaya, *Proc. SPIE 9878, Remote Sensing of the Oceans and Inland Waters: Techniques, Applications, and Challenges*, 98781F; doi: 10.1117/12.2227993; <http://dx.doi.org/10.1117/12.2227993>

- Bhanu pratap, Parmanand Sharma, Lavkushpatel, Ajit singh, Vinay Kumar Gaddam, ThambanMeloth. Reconciling high glacier surface melting in summer with air temperature in semi arid zone of Western Himalaya (accepted in WATER, MDPI)
- AjitT. Singh, Waliur Rahaman, Parmanand Sharma, Laluraj C.M., Lavkush Patel, BhanuPratap, Vinay Kumar Gaddam, MelothThamban, Hydrograph components and moisture sources at the Sutri Dhaka glacier, Chandra Basin, Western Himalaya (in review)
- Evaluation of supraglacial debris cover and the quantification of mass loss for debris covered glaciers (in review)analysis of rainfall and temperature conditions in Western Himalaya using Remote Sensing and Ancillary datasets (in review)

**National/InternationalConferences((NationalandInternational): 18**

**Faculty DevelopmentProgram: 06**