



DR. SATISH KUMAR KATWAL

Head & Associate Professor

Email: head.soa.hp@gmail.com

Educational Details:

National Institute of Technology Hamirpur

PhD, GIS-Based Methodology for Safe Site Selection and Construction Site Layout Planning in Hilly Region, 2016

GZSCET, Bathinda

M.Tech. in "Construction Technology and Management," 2009
Gold Medal and Merit certificate for Academic Excellence, 2010

Govt. Engineering College, Trivandrum, Kerala.

B. Architecture, 1997

Memberships

Registered with Council of Architecture, India
Executive Member/Chapter Correspondent, Indian Institute of Architects HP Chapter
Associate member, Indian Institute of Architects

Professional Experience:

Administrative Experience

Head, School of Architecture, Rajiv Gandhi Govt. Engineering College, Kangra at Nagrota Bagwan

Principal, Govt. Polytechnic for Women, Rehan, Kangra

Project Officer, Himachal Pradesh Technical University, Hamirpur (2014 – 2017)

Training & Placement Officer, JNGEC, Sundernagar, Mandi (2010 – 2014)

Head of Department (Architecture), Dr. B.R.A. Govt. Polytechnic, Ambota, Una (2009 – 2010)

Assistant Project Officer/Project Officer (CDC) at Ambota & Sundernagar (2001 – 2007)

Coordinator – TEQIP-II (2010 – 2014), RUSA (2014)

Administrative roles at **H.P. Technical University**, including Member Secretary (Admission, Examination Discipline, Building & Works Committees) and Assistant Registrar (Examinations).

Teaching Experience

Over 20 years of teaching experience in Architecture and Technical Education.

Dr. B.R.A. Govt. Polytechnic, Ambota, Una (2001–2005); Govt. Polytechnic, Sundernagar (2005–2007); J.N. Govt. Engineering College, Sundernagar (2010–2014); School of Architecture, RGEC Nagrota Bagwan (2017–Present)

Area of Interest/Research: Research focuses on the application of **Geographic Information Systems (GIS)** in construction safety, site layout planning, and infrastructure development, particularly in **hilly terrains**.

FDPs & Talks:

- Organized Faculty Development Programs (FDPs) in collaboration with NITTTR Chandigarh on Open Source Software in Technical Education (2023) and Rural Water Supply Management (2022).
- Delivered expert talks on the Application of QGIS in Spatial Visualization and Analysis.
- Coordinated a Vernacular Architecture study in Palampur (2024) with SPA Delhi.

Projects:

Guided students in a state-level live project "Himachali Haat", with proposals submitted to the Deputy Commissioner, Sirmaur. Prepared architectural drawings for Swachhta Café (Chamunda), Community Parks (Nagrota), and a Model Fruit Processing Unit (Nagrota).

Publications:

Journal Publications:

- Satish Kumar & V. K. Bansal (2019): GIS-based locational evaluation of infrastructure Facilities in hilly regions: a case study of an institute campus, International Journal of Construction Management, DOI: 10.1080/15623599.2019.1604114
- Satish Kumar & V. K. Bansal (2018): Use of GIS in locating TFs safely on a construction site in hilly regions, International Journal of Construction Management, DOI: 10.1080/15623599.2018.1435153
- S. Kumar and V. K. Bansal, "A GIS-based methodology for safe site selection of a building in a hilly region," Frontiers of Architectural Research (Elsevier) vol. 5, pp. 39-51, 2016.