



Centre for Research & Development

Research Supervisor (Guide) Profiles

Discipline of Supervision: **Forensic Science**



Dr. Sudanva G Kulkarni

Assistant Professor
Department of Forensic Science
School of Biological and Forensic Science

Areas of Specialisation:

GIS, Cartography, Environmental Criminology and Crime Prevention, Criminological Applications of GIS and Forensic Science, Forensic Science and Crime Scene Investigation, Forensic Psychology, Forensic Accounting

Dr. Sudanva G. Kulkarni is a Criminologist with academic qualifications in Criminology at the Undergraduate and Postgraduate levels and Postgraduate Diploma in Forensic Science, and a Ph.D. in Criminology from Kitturu Rani Channamma University, Belagavi. His major research interests include Criminology, Crime Mapping, Spatial Criminology, Cartography, GIS-based Crime Analysis, Hotspot Identification, Seasonal Crime Identification, Environmental Criminology, Forensic Psychology, Crime Prevention, Prison Studies and Prison Reforms. His research focuses on applying cartographic techniques and geospatial technologies to examine crime patterns, spatial trends, hotspots and seasonal variations in criminal activity. He is also interested in Crime Prevention Through Environmental Design (CPTED), correctional practices, rehabilitation, offender reintegration and evidence-based approaches to criminal justice. His interdisciplinary research integrates Criminology with Forensic Science, Geography, Geospatial Technologies and Data Analytics. He has contributed to research and academic activities related to crime mapping, juvenile offending, crime prevention and criminal justice. He also holds a Design Patent for “Portable Surveillance Console Apparatus”, Design No. 460902-001, dated 31-05-2025, reflecting his interest in technology-driven approaches to surveillance, security and crime prevention.

Selected Publications:

1. **Kulkarni, S. G.**, M. S., S. K., & Arunkumar, A. R. (2025). Enhancing Application of Drones and GIS Mapping in Crime Scene Investigation: A Perspective Study on Evidence Based Policing. *International Journal For Multidisciplinary Research*, 7(6). <https://doi.org/10.36948/ijfmr.2025.v07i06.60180>
2. **Kulkarni, S. G.**, Devarmani, N. G., & Nidhin, S. S. (2024, November 12). Study on crime trends in Belagavi: Cartographic analysis. SSRN. <https://doi.org/10.2139/ssrn.5137624>
3. Jafna Nisha, K., Dinsha, K., **Kulkarni, S. G.**, Nidhin, S., Narayanasamy, N., & Binshad, M. S. (2025). Development Of Latent Fingerprints On Indoor Plant Leaves Using Powder Methods. *South Eastern European Journal of Public Health*, 1121–1129. <https://doi.org/10.70135/seejph.vi.4876>