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School of Planning and Architecture, Vijayawada
An Institute of National Importance, Ministry of Education, Govt. of India

Université
de Lille

WORKSHOP ON

URBAN DYNAMICS AND HEAT STRESS

PLANNING FOR CLIMATE RESPONSIVE
CITIES



VISITING PROFESSOR -
INTERNATIONAL INVITED SPEAKER

Prof. Dr. Adinarayanane R

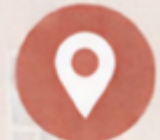
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An Institute of National Importance, Ministry of Education,
Government of India

CITIES
CLIMATE
COMMUNITIES
RESILIENCE



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Faculty of Economic, Social Sciences &
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Université de Lille, France

*“People and
Places for a
Cooler, & More
Resilient
Tomorrow”*

ABOUT THE WORKSHOP

Rapid urbanisation in Indian cities is driving significant changes in land use and land cover, built-up density, and urban morphology, with a steady loss of vegetated and water surfaces. These changes alter the surface energy balance, intensify the urban heat island effect, and raise heat stress across neighbourhoods, with uneven impacts on vulnerable populations. This workshop examines the relationship between urban dynamics and heat stress through a spatial, evidence-based approach. It covers measuring urban growth and urban form using multi-temporal satellite imagery, GIS, and remote sensing indices; assessing heat stress through land surface temperature retrieval, thermal comfort indices, and heat vulnerability mapping. It also covers integrating these outputs into climate-responsive planning instruments, including city development plans, development control regulations, green-blue infrastructure strategies, and city heat action plans in the system.



URBAN
GROWTH



HEAT
EXPOSURE



URBAN
DYNAMICS



SPATIAL
PLANNING



CLIMATE
RESILIENCE

INSPIRING
FUTURES