

Omkar Parishwad

Assistant Professor, Town Planning,
Civil Department, College of Engineering, Pune, India.



B.Arch (*Bachelors in Architecture*)- **2009- Visveswaraya National Institute of Technology, Nagpur (NIT)**, AIEEE Ar: All India Rank 2027 (2004)

Thesis: *Energy Efficient Structures, Design- IT Corporate Headquarters, Mihan*

M.Plan (*Masters in Urban and Regional Planning*) **June 2012, School of Planning and Architecture, Bhopal (SPA)- a central government (MHRDA) institute, GATE scholarship (UGC) AIR 333 (2011) Thesis: *Understanding Real estate Dynamics as a determinant of Land use distribution at Urban Limits.***

Industry experience: (*Architect-Urban Planner*) *e-Governance projects, Smart City initiatives in India* (3 years)

Teaching experience: *Adjunct Faculty at College of Engineering, Pune (2013-14)*
Assistant Professor for students of Planning, Civil Dept at CoEP (2016 - till date).

My current field of research is Sustainable Development Goals attainment in India. Sustainability can be achieved in development when we get rid of the inequalities that exist in Indian cities, due to various deprivations- physical and social infrastructure or otherwise. These goals can be grouped in economic, environmental and most importantly social perspectives; and the goal attainment time is up to 2030.

Globally we are struggling with how these goals can be met and our most important concern is Energy- on which development depends; be it requirement of potable water, cooling loads for comfort or just infrastructural facilities like roads, transport, electricity, etc. Our criteria- is to be energy efficient, since every ounce of energy (fossil fuels- transport, electricity, etc.) accounts to carbon emissions- which leads to climate change.

My work correlates the city's energy requirements with deprivations in order to facilitate and prioritize development. I've developed a model for preparation of a City Development Plan which, when analyzed in terms of weighted indicators- (Social capital, Human Capital, Financial Capital, Quality of living and Physical Capital) Spatially- gives priorities for development. This is done using ArcGIS software (ESRI) for spatial mapping of inequalities- establishing correlations between indices of deprivation for a city.

The data requirement for measuring or quantifying these requirements is mostly done using satellite imagery and census data. I've also submitted a Research Proposal with Electronics and Telecommunication Dept. faculties -Dr. Priti Rege and Dr. Radhika Joshi, regarding my area of interest- on GIS enabled analysis on satellite data for the Smart city initiative- collaborated with scientists at Indian Space Research Organization (ISRO).

I'm also a part of various NGO's, industry delegates and govt. initiatives. Organizing a summer internship program at CoEP, we (with planning students) worked on the feasibility and drawbacks of Mula Mutha river restoration project. The thesis students (B.Tech.) guided by me work as a part of the 'Unnat Bharat Abhiyan' with the industry for their thesis project.

I wish to continue my research on my aforementioned areas of interest to ease our country through the transition to be a developed country. I am looking forward to attending UNLEASH 2017 program for generating new and collaborated ideas in my field of research.