

Dr. Natraj Kranthi

Associate Professor
Department of Planning
School of Planning and Architecture, Vijayawada.
Survey No. 71/1, NH5, Nidamanuru, Vijayawada-521104,
Krishna (District), Andhra Pradesh.



Educational Qualifications	<ul style="list-style-type: none">• PhD (Doctor of Philosophy), Jawaharlal Nehru Architecture and Fine Arts University, Hyderabad, 2010.• MURP (Master of Urban and Regional Planning), JNTU School of Planning and Architecture, Hyderabad, 2003.• B.Arch (Bachelor of Architecture), JNTU School of Planning and Architecture, Hyderabad, 2001.
Institute Responsibilities	<ul style="list-style-type: none">• Chairman, Central Library Advisory and Purchase Committee• Chairman, Annual Report Preparation Committee (2014-15 and 2015-16)• Chairman, Academic Calendar Preparation Committee (2016-17)• GIS Lab Incharge (2013-16)• Coordinator of Research Programme (2014-15)
Areas of Interest	<ul style="list-style-type: none">• Urban Land Tenure - Security of tenure for the urban poor• Inclusive planning - Basic services to the urban poor, informal housing, urban poverty and slum improvement.• Urban morphology and growth analysis• Geospatial modelling and urban planning applications• Architectural daylighting
Work Experience	<p><u>Teaching Experience</u></p> <ul style="list-style-type: none">• Associate Professor, Department of Planning, School of Planning and Architecture, Vijayawada (October 2013 to date).• Assistant Professor, Department of Planning, School of Planning and Architecture, Bhopal (June 2010- October 2013).• Lecturer (on contract), Department of Urban and Regional Planning, JNTU School of Planning and Architecture, Hyderabad (2005-06).• Visiting Faculty (2003-10)-Department of Urban and Regional Planning, Department of Architecture, Part-Time Degree Course (Architecture), Part-Time Post Graduation (PTPG), Digital Techniques for Design & Planning, School of Planning and Architecture, JNAFAU (erstwhile JNTU), Hyderabad. <p><u>Industrial Experience</u></p> <ul style="list-style-type: none">• Senior Architect, V.S. Associates, Hyderabad (2007-2010).• Senior Manager-Training & Development, eLogic Solutions India Pvt. Ltd., Secunderabad (2007).• Town Planning Resource Person, Andhra Pradesh Urban Services for the Poor (A DFID Funded Project) (2004-05). <p><u>Research/ Consultancy Projects</u></p> <ol style="list-style-type: none">1. Principal Investigator, <i>Madhya Pradesh, Administrative Atlas, Town and Village Level Information</i>, SPA Bhopal, 2013.2. Kranthi N, Kapshe M and Alam A, <i>Country Status Report –India</i>, United Nations University Institute for Sustainability and Peace (UNU-ISP), Jan-Feb 2011.3. Research Associate (Part Time), AICTE Project: <i>Energy Efficiency in Large Buildings through Effective Daylight Design</i>, (Principal Investigator: Prof. Ch. Srinivas), JNTU School of Planning and Architecture, Hyderabad (2006).4. Research Associate (Part Time), AICTE Project: <i>Technology for Low-Income Housing in Urban Areas</i>, (Principal Investigator: Dr.Kavita Daryani Rao), JNTU School of Planning and Architecture, Hyderabad (2003-05).

Key PublicationsBook Chapter

1. Kranthi, Natraj; AL, Valliappan., (April 2016). *Need for a Shift in Pedagogy for Teaching Fundamentals of Planning Education*. In A. Kumar, D.S. Meshram & K. Gowda, eds. *Urban and Regional Planning Education*. Singapore: Springer. pp.107-14.
http://link.springer.com/chapter/10.1007/978-981-10-0608-1_8

Journals

2. Kranthi, Natraj; Beniwal, Akanksha; Mariadoss, Michelle; Sahitani, Pawan, (May 2015), *Perceived Security of Tenure in Squatter Settlements: A Case Study of Vijayawada, India*, International Advanced Research Journal in Science, Engineering and Technology (ISSN-Online-2393-8021) (ISSN-Print-2394-1588), Vol.2, Issue 5, IARJSET, Chennai, India.
<http://www.iarjset.com/upload/2015/may-15/IARJSET%201.pdf>
3. Kranthi, Natraj; Valliappan AL, (January 2015), *Need for Paradigm Shift in Pedagogy for Teaching the Fundamentals of Physical Planning Education*, International Advanced Research Journal in Science, Engineering and Technology (ISSN-Online-2393-8021) (ISSN-Print-2394-1588), Vol.2, Issue 1, IARJSET, Chennai, India.
<http://www.iarjset.com/upload/2015/january/IARJSET10.pdf>
4. Kranthi, Natraj; Daryani Rao, Kavita, (September-December 2009), *Security of Tenure and its Link to Urban Basic Services in Slums: A Case of Hyderabad*, The ICFAI University Journal of Infrastructure (ISSN-0972-9194), Vol. VII, Nos 3 & 4, The ICFAI University Press, Srinagar Colony, Hyderabad, pp103-113. SSRN: <http://ssrn.com/abstract=1483007>
5. Kranthi, Natraj, (April-June 2009), *Conceptual Understanding of the Definitions of Slums*, Nagarlok (ISSN-0027-7584), Vol. XLI, No.2, Centre for Urban Studies, Indian Institute of Public Administration (IIPA), Indraprasth Estate, New Delhi, pp24-30.
6. Kranthi, Natraj; Daryani Rao, Kavita, (July-December 2009), *Security of Tenure of Urban Poor Settlements: Trends and Experiences*, Urban India (ISSN-0970-9045), Vol. XXIX, No.2, National Institute of Urban Affairs (NIUA), India Habitat Centre, New Delhi. Pp70-84.
http://www.niua.org/Publications/urban_india/part1.pdf
7. Kranthi, Natraj and Daryani Rao, Kavita, (April-June 2010), *Security of Tenure and Protection Against Evictions of Slums Dwellers: A Case of Hyderabad*, ITPI Journal (ISSN 0537-9679), Vol. 7, No.2, Institute of Town Planners, India, New Delhi. pp41-49.
8. Kranthi, Natraj, (Autumn/Winter 2010), *Impact of JNNURM: Laxmiguda, Hyderabad*, Context (ISSN No: 0973-502X), Vol. VII Issue 2, DRONAH, South City-I, Gurgaon, Haryana. pp177-181.
9. Kranthi, Natraj, (2012), *Towards Sustainability of the Urban Poor: A Conceptual Model for Tenure Security*, Spandrel, Spring Issue 4, SPA Press, Bhopal, pp81-86.

Magazines

10. Kranthi, Natraj (Jan-Mar 1999), First Person, Success and Ability, India's Cross Disability Magazine, Vol 4, No.1, Ability Foundation, Chennai. P15.

Conference Paper

11. Myneni, Kranti Kumar; Kranthi, Natraj (2016). Impact of Setbacks on Window Sizes: Guidelines for a Comfortable Daylighting in Residential Buildings, The 3rd International Conference on Arts and Humanities (ICOAH-2016) (22-23 September 2016). ISBN: 978-955-4903-60-9. Bali, Indonesia: The International Institute of Knowledge Management (TIKM).
12. Ahmed, Deen Maqbool; Kranthi, Natraj. 2016. Theoretical Understanding of Water Poverty. Proceedings of 4th India Water Week-2016, Water for All: Striving Together (4-8 April 2016). Ministry of Water Resources, River Development and Ganga Rejuvenation, Government of India, National Water Development Agency. New Delhi.

Journal Issue Editor

1. SPANDREL (ISSN 2231-4601), Monsoon Issue 5, *Climate Change and Human Settlements*, 2012

Peer Reviewer

1. SPANDREL (ISSN 2231-4601), Issue 5, SPA Bhopal.
2. SPANDREL (ISSN 2231-4601), Issue 10, SPA Bhopal.
3. International Conference on Sustainable Built Environment (SBE-2017), 3-5 February 2017, IIT Roorkee

Select Presentations / Contributions	<ol style="list-style-type: none"> 1. Panel discussion, One Day Seminar, <i>Housing Regeneration and Strengthening Communities</i>, World Town Planning Day-2015, 18th November, 2015, SPA Vijayawada. 2. <i>Concepts and Applications of GIS: Slum Mapping</i>, One Day Workshop on 'Master Plan Formulation under NUIS Bhuvan' for Andhra Pradesh State, 30th September, 2015, SPA Vijayawada. 3. Round Tables on <i>Smart Cities & Inclusion</i> (2015), British Deputy High Commission Hyderabad, 5th August 2015, Taj Gateway, Vijayawada. 4. Panel discussion, International Conference on <i>Shaping our Cities for Smart, Inclusive and Sustainable Future</i>, 19th November, 2014, Vijayawada, Andhra Pradesh. 5. Discussant and member of panel discussion, International Conference on 'Corridors, City Regions and Cities in Urban Regional Development', 22nd November, 2013. Vijayawada, Andhra Pradesh. 6. <i>Remote Sensing and GIS Applications</i>, Workshop on Principles and Applications of GIS, 18th December 2012, NITTTR, Bhopal, India. 7. <i>Spatial Data Analysis</i>, Workshop on 'Introduction to GIS and its Applications', 4th-6th July 2012, Madhya Pradesh Vikas Pradhikaran Sangh, Bhopal, India. 8. <i>Security of Tenure and its Link to Urban Basic Services</i>, Knowledge Exchange Series, 12th August 2011, SPA Bhopal, Bhopal, India 9. <i>Creativity and Design Approaches</i>, One Day Workshop, 14th November 2007, Department of Architecture, JNTU, Hyderabad, India. 10. <i>Scope of Urban Planning Education and Profession in India and Abroad</i>, NOSPLAN-2007, May 01, 2007, Department of Urban and Regional Planning, JNTU School of Planning and Architecture, Hyderabad, India. 11. <i>Understanding Creativity, Zonal NASA Convention 2007, 18-10-2007, Sri Venkateshwara College of Architecture, Hyderabad.</i> 12. <i>Understanding Creativity</i>, Open Forum, 27th October 2007, eLogic Solutions India Pvt. Ltd., Secunderabad, Andhra Pradesh. 13. <i>Municipal Applications of GIS</i>, Workshop on 'Municipal Applications of GIS', 18th January 2006, JNTU School of Planning and Architecture, Hyderabad, India. 14. <i>Concepts of GIS</i>, Staff Development Programme, 18th March 2006, Department of Urban and Regional Planning, JNTU School of Planning and Architecture, Hyderabad, India. 15. Kranthi, Natraj (April 2000), <i>Equal Opportunity with Barrier Free Environment</i>, National Seminar on Design for Disabled and Elderly Persons, March 31 to April 01, 2000, Department of Urban and Regional Planning, JNTU School of Planning and Architecture, Hyderabad, pp28-33.
Theses	<ol style="list-style-type: none"> 1. PhD Thesis – Security of Tenure and its Link to Urban Basic Services in Slums 2. MURP Thesis – Towards Sustainability in Urban Areas: Model for Evaluation 3. B.Arch Thesis – Design of Apartments with Special Emphasis to Daylighting
Thesis Guidance	<p>Guiding</p> <p><u>PhD (Guiding)</u></p> <ol style="list-style-type: none"> 1. <u>As Main Supervisor:</u> Maqbool Ahmed, Impact of Geographic Location of Slums on Water Poverty, SPA Vijayawada 2. <u>As Main Supervisor:</u> Kranti Kumar, <i>Impact of Building Setbacks on Window Sizes: Guidelines for a comfortable daylighting in residential buildings</i>, SPA Vijayawada 3. <u>As Joint Supervisor:</u> Karteek, <i>FSI and Urban Living Conditions-Establishing Linkages for Retrofitting</i>, SPA, Vijayawada 4. <u>As Joint Supervisor:</u> Bharathi S, Spatial Impact of High-speed Corridor Development, SPA, Vijayawada 5. <u>As External Supervisor:</u> Prashanti Rao, <i>Measuring Performance of Urban Green Space in Gated Residential Communities</i>, SPA Bhopal <p><u>Master of Planning (Environmental Planning and Management)</u></p> <ol style="list-style-type: none"> 6. Neela Manasa, Framework to understand the influence of landuse landcover on Urban Heat Islands, Hyderabad. <p><u>Master of Planning (Urban and Regional Planning)</u></p> <ol style="list-style-type: none"> 7. Rampilla Taraka Pavan Sai, Impact of City Core on the Urban Growth. Warangal and Kakinada. 8. Budde Sandeep, Impact of Industries on Liveability. Jeedimetla, Hyderabad <p><u>Bachelor of Planning</u></p> <ol style="list-style-type: none"> 9. Anjum D, Linking Security of Tenure and Slum Vulnerability to Eviction. Vijayawada 10. Sumit Singh, Enhancing Imageability through Slum improvement. Taj Ganj.

	<p>Guided</p> <p><u>Master of Planning (Environmental Planning and Management)</u></p> <ol style="list-style-type: none"> Indigipally Praveen Kumar, 2016, Impact of Thermal Power Plant on its Surrounding Villages – A Case Study of Kothagudem Thermal Power Station (Telangana, India) (SPA Vijayawada). V. Anita Reddy, 2015, Impact of Irrigation Dam on the Settlements: A Case Study of Pulichintala Dam, Andhra Pradesh, Master of Planning (Environmental Planning and Management) (SPA Vijayawada). <p><u>Master of Planning (Urban and Regional Planning)</u></p> <ol style="list-style-type: none"> Kalpana Jokhio, 2016, Planning for Water Supply in Hill Areas of New Seppa, Arunachal Pradesh (SPA Vijayawada). Akanksha Beniwal, 2016, Impact of Agricultural Land Acquisition on Rural Livelihood. Case Study of Fatehbad (SPA Vijayawada). Ms. Azra Khan, 2013, Impact of Irrigation Projects on the Tribal Settlements, Dhar District, Madhya Pradesh, Master of Planning (Urban and Regional) (SPA Bhopal). Mr. Harinarayan, 2012, Solid Waste Management using GIS in Bhopal, Master of Planning (Urban and Regional) (SPA Bhopal). Ms. Mansi Mangalagiri, 2012, Planning for Water Supply in Slums of Bhopal, Master of Planning (Urban and Regional) (SPA Bhopal). Ms. Shailaja, 2007, Performance Evaluation of Vegetable Markets in MCH area, Master of Urban and Regional Planning (JNTU SPA). Mr. Ram Mohan, 2006, The Role of Administration in the Delivery of Municipal Services, Master of Urban and Regional Planning (JNTU SPA). <p><u>Bachelor of Planning</u></p> <ol style="list-style-type: none"> Bojedla Venkata Phanindra, 2016, Urban Growth Modelling in GIS. Study Area: Vijayawada Madhuri Kalah, 2016, Strategies for Developing the Street Vendors; Case Study of Cuttack (SPA Vijayawada). Ayush Upadhya, 2015, Impact of Perceived Tenure Security on Slum Consolidation: A Case Study of Bhopal. (SPA Vijayawada). Preetam Karmakar, 2015, GIS Modelling of Land Information System. (SPA Vijayawada). Sruthi CS, 2015, Impact of National Highway on City's Outgrowth. Case Area: Vijayawada (SPA Vijayawada). Sujata Parmar, 2013, Planning Parameters for Slums of Bhopal, SPA Bhopal Rajendra Singh, 2013, Integration of Shelter with Linelihoods in Slums, (SPA Bhopal) Mahendra Bawaria, 2013, Assessing the Dynamics of Urban Morphology (SPA Bhopal) Lad Nirav, 2013, Assessing Landuse Dynamics (SPA Bhopal) Ashish Kumar Chauhan, 2012, Planning for Weekly Vegetable Markets in Bhopal (SPA Bhopal) Information Systems for Agriculture in Villages, 2007 (JNTU SPA) Integration of Land Records to GIS, 2007, A model for municipal application (JNTU SPA) Assessment of Unauthorised Layouts using GIS, 2006 (JNTU SPA) A GIS Model for Property Tax Collection, 2006 (JNTU SPA) Role of Government in Provision of Shelter for Urban Poor in Hyderabad (JNTU SPA) <p><u>Bachelor of Architecture</u></p> <ol style="list-style-type: none"> Roshni Roy, 2015. Museum of Architecture for the State of West Bengal (SPA Vijayawada). S.Naveen Kumar, 2015, Traditional Craft Development Ceter, Kondapally, Vijayawada, (SPA Vijayawada). Design of Multiplex, 2006 (JNTU SPA) Design of Centre for Indian Studies, 2006 (JNTU SPA) Design of Dance School, 2006 (JNTU SPA) Assessing the Accessing Spaces in Commercial Complex, 2006 (JNTU SPA) Pallavi, Design of Play Areas in Children Hospitals (SPA Vijayawada) Sundeep, Design of Spaces under the Flyover (SPA Vijayawada)
<p>Subjects Taught</p>	<p><u>School of Planning and Architecture. Vijayawada</u></p> <ol style="list-style-type: none"> Inclusive Planning Quantitative Methods Introduction to Urban and Regional Planning Computer Applications Introduction to Geo-informatics Applications of Geo-informatics Contemporary Planning Theory

	<p>8. Planning Theory 9. Advanced Research Methods 10. Theory of Settlement Planning 11. Seminar 12. Thesis and Semester Coordination, Master of Planning (Environmental Planning and Management) 13. Thesis Coordination, Bachelor of Planning 14. Graphic Studio 15. Graphics and Presentation Techniques 16. Mapping Studio 17. Built Environment and Site Planning Studio 18. Planning Colloquium</p> <p><u>School of Planning and Architecture, Bhopal</u> 19. Urban Poverty and Planning for the Informal Sector 20. Planning and Management of Informal Sector 21. Quantitative Methods 22. Research Methodology 23. Planning Practice 24. Evolution of Aesthetics, Planning and Technology 25. Evolution of Urban and Regional Planning 26. Geoinformatics 27. Computer Aided Design 28. Applications of GIS 29. Graphics and Presentation Techniques (Planning Studio) 30. 'Comprehensive Development Plan for Ujjain' (Planning Studio) 31. Thesis Coordination [Bachelor of Planning and Master of Planning (Urban and Regional Planning)]</p> <p><u>School of Planning and Architecture, JNTU</u> 32. Applications of GIS 33. Architectural Practice 34. Human Settlements 35. Computer Aided Design 36. Preparation of 'General Town Plan for Mahaboobnagar' (Planning Studio) 37. Area Planning (Planning Studio) 38. Graphics and Presentation Techniques (Planning Studio) 39. Design of Residence (Architecture-Studio)</p>
<p>Key Achievements</p>	<p>1. Solo Exhibition of Paintings, Formless Feelings (7th-15th June 2008), The AP State Gallery of Fine Art, Madhapur, Hyderabad. 2. NCPEDP Post Graduate/Professional Merit Scholarship Award, New Delhi (Aug 2002). 3. First Rank, Certificate of Merit, MURP, JNTU SPA, 2002 4. Gold Medal, NCPEDP Best Merit Scholar Award, New Delhi (Aug 2001). 5. First Rank, Certificate of Merit, MURP, JNTU SPA, 2001 6. NCPEDP Post Graduate/Professional Merit Scholarship Award, New Delhi (Aug 2000). 7. The Best Design Thesis (B.Arch) for the year 2000-01, The Indian Institute of Architects, Andhra Pradesh Chapter, Hyderabad, Andhra Pradesh, India. 8. Best Poetry in English, Heritage-94, University Arts and Science College, Kakatiya University, Warangal, Andhra Pradesh, India, (Feb 1994). 9. First in Essay Writing Competition, 26th National Annual Library Celebrations, Government Regional Library, Warangal, Andhra Pradesh, India, (Nov 1993). 10. First in Painting -special group (12-18 years) at the State level, National Painting Competition, Andhra Pradesh State Council for Child Welfare, THPI Campus, Dilsukhnagar, Hyderabad, Andhra Pradesh, India, (July 1992).</p>
<p>Key Academic and Consultancy Projects</p>	<p>1. Studio Coordinator, Built Environment and Site Planning, Kuchipudi, Guntur and Vijayawada, 2016 2. Studio Coordinator, Street mapping, Tenali, 2015. 3. Studio Coordinator, Basemap preparation for Tullur Mandal (Guntur), 2014. 4. Integral Studio, Design of Temporary Shelters during Kumbh Mela, Ujjain, 2013. 5. Design of Convention Centre in Ujjain, Universal Design, Berkeley Studio, SPA Bhopal, 2013. 6. Coordinator, Comprehensive Development Plan for Ujjain, SPA Bhopal, 2011. 7. Coordinator, Preparation of Basemap and GIS map for Vinukonda Municipal Area, AP, 2010. 8. Coordinating Committee Member, Preparation of General Town Plan for Mahaboobnagar, AP, 2004.</p>

Training Programmes/ Workshops	<p><u>Workshops/Training Programmes Coordinated:</u></p> <ol style="list-style-type: none"> 1. Workshop on 'Principles and Applications of GIS'(27-28 Sept 2010) 2. STTP on 'Remote Sensing and GIS Applications for Planning' (20-24 June 2011) 3. Training programme on 'ArcGIS Desktop 10' (19-23 Dec 2011) 4. Training programme on 'MicroStation' (26-28 Dec 2011) 5. Training programme on 'LPS' (29 Dec 2011) 6. Training programme on SPSS (16 April 2012). 7. Training programme on 'Introduction to GIS and its Applications' (4-6 July 2012) <p><u>Certificate Courses</u></p> <ol style="list-style-type: none"> 1. ERDAS Imagine and Imagine Photogrammetry, 01 & 08 April 2015 2. Training Programme on Rolta Geomatica Ortho Engine Educational Suite, 06-07 May 2013 3. Training Programme on 'Model Development with Cube Base and Voyager' (23-26 Feb 2012) 4. Training programme on 'ArcGIS Desktop 10' (19-23 Dec 2011) 5. Training programme on 'MicroStation' (26-28 Dec 2011) 6. Training programme on 'LPS' (29 Dec 2011) 7. Certificate Course (One Day Training Programme) on LEED Building Rating System, CII- Indian Green Building Council, Hyderabad, (2007). 8. Certificate Course (Two Week Training Programme), Staff Development Programme (AICTE Sponsored), JNTU School of Planning & Architecture (2006). 9. Certificate Course (5 day) in ArcGIS 8.3, ESRI, New Delhi (2004). 10. Integrated GIS and CAD Short Term Course (2003). 11. Diploma in AutoCAD (1998).
Memberships	<p><u>Professional Bodies</u></p> <ol style="list-style-type: none"> 1. Council of Architecture – Registered Member 2. Institute of Town Planners, India – Associate Member <p><u>Academic Institutes / Boards / Other Committees</u></p> <ol style="list-style-type: none"> 1. Special Invitee, Senate, SPA Vijayawada (2016) 2. Member, Academic Council, SPA Vijayawada (2015-16) 3. Presiding Officer, Students' Council Elections 2015, SPA Vijayawada 4. Member of Research, Training, Collaboration Committee (RTCC) (2015) 5. Member, Moderation Committee, SPA Vijayawada (2014-16) 6. Member, Board of Studies (Planning), SPA Vijayawada (2014-todate) 7. Member, Departmental Research Committee (Planning), SPA Vijayawada (2014-16) 8. Member, Departmental Research Committee (Architecture), SPA Vijayawada (2014-15) 9. Member, Joint Committee of the Departmental Research Committee, SPA Vijayawada (2014-15) 10. Verifying Officer, Joint Seat Allocation Authority (JoSAA), 2015, SPA Vijayawada 11. Member, Board of Studies, Department of Planning, SPA Bhopal (2010-13) 12. Member, Board of Studies, Jawaharlal Nehru Architecture and Fine Arts University (JNAFAU), Hyderabad, (2009). <p><u>Other Committees at SPA Vijayawada</u></p> <ol style="list-style-type: none"> 13. Member, Screening Committee, General Funds to attend Workshops, Conferences (2015-16) 14. Member, Committee to work out Subject Equivalence for Planning Courses (2015) 15. Member, Committee constituted to work out reporting items to BOG (2016) 16. Member, Academic Calendar Preparation Committee (2015-16) 17. Member, Planning Department Student Counselling Committee (2016) 18. Member, Convocation Brochure Preparation Committee (2015, 2016) 19. Member, Magazine Preparation Committee, INYAN (2016, 2017) <p>Besides above, also a member of various personal interview / selection committees for admissions at SPA Vijayawada (2013-2016).</p>
Others	<p>Conducted/ coordinated/ judged various literary activities such as debate, elocution, painting, essay competitions, etc.</p>
Contact Information	<p>natraj@spav.ac.in natraj_kranthi@rediffmail.com</p>