



**School of Planning and Architecture: Vijayawada**  
(An institution of National Importance under the Ministry of Human Resource Development, Govt. of India)  
S.No. 71/1, NH-5, Nidamanuru, Vijayawada – 521 104, Andhra Pradesh, India

**Department of Architecture**

**Course:** Smart Cities (Elective)  
**Instructors:** Madhava Rao. T

**Class:** V Yr. X Sem. B.Arch  
**Internal Assessment:** 50

**Contact Periods/ week:** (02 Slots each of 50 min. per week)

**Time Table:** First two slots of Friday

**Credits:**

**Attendance:** Min 75%

**Min. Passing Marks:** 50% each in Internal

**Objective:** To equip the students with knowledge about various trends in Smart cities across the globe, evolution of Smart city concepts and its relevance in Indian context.

**LECTURE PLAN**

S. No.	Week	TOPIC OF CLASS LECTURE & DISCUSSION	CLASS ACTIVITIES & ASSIGNMENTS
1	Week 1	Discussion on Cities, its problems, its functions, initiatives and solutions.	Discussion
2	Week 2	Lecture on City Branding Initiatives - Sustainable cities, eco-cities, green cities, digital cities, intelligent cities, future cities, global cities and Smart cities.	Lecture & Assignment
3	Week 3	Lecture and Discussion on Smart city concept evolution, its causes and its relevance in solving the present day Urban problems.	Lecture, Discussion & Assignment
4	Week 4	Approaches of Smart city concept: USA, Europe, China, Japan models. Discussion of the model according to their context.	Lecture & Assignment
5	Week 5	INTERNAL ASSESSMENT 1	Presentation/ Examination
6	Week 6	Lecture on Approach of Smart City Model in India, its context, its relevance and features emulated.	Lecture & Assignment
7	Week 7	Debate on Smart city approaches in the country	Debate
8	Week 8	Lecture and Discussion on roles of Architects and Planners in the future of Smart cities; understanding the role of other stake holders.	Lecture & Discussion
9	Week 9	Discussion of EU model of Smart city and its dimensions: Smart Economy, Smart Mobility, Smart Environment, Smart People, Smart Living, Smart Governance.	Lecture, Discussion & Assignment
10	Week 10	Inclusivity as one of the feature in Smart city concepts in Indian context.	Discussion
11	Week 11	INTERNAL ASSESSMENT 2	Presentation/ Examination
12	Week 12	Lecture on Other Smart features: Smart Energy, Smart Buildings, ICTs.	Lecture
13	Week 13	Lecture on Smart Buildings, various features in designing intelligent buildings.	Lecture & Discussion
14	Week 14	Lecture on Various Toolkits, indexes and models to measure smartness	Lecture & Assignment
15	Week 15	Discussion on measuring smartness and the level of data required for the same in the context of Urban India.	Discussion
16	Week 16	Lecture & Discussion on Smart Village Concepts, INTERNAL ASSESSMENT 3	Lecture, Discussion and Assessment

**Tentative break-up of Internal Assessment Marks:**

<b>S.No.</b>	<b>CATEGORIES OF EVALUATION</b>	<b>MARKS</b>
1	IA1	15
2	IA2	15
3	IA3	20
	<b>Total</b>	<b>50</b>

**Course Instructor:**

**Head of the Department:**