SCHOOL OF PLANNING AND ARCHITECTURE, VIJAYAWADA (LECTURE PLAN for A Yr: 2017-18)

Subject: Alternative Materials and Technologies (10210205)

Class: M. Arch, II Semester

Teacher: Nagaraju Kaja Dept : Architecture Number of Hours:03 Internal Marks: 50 External Marks: 50 Total Marks: 100

SL.NO	DATE	TOPIC OF CLASS/ LECTURE /DISCUSSION		
	Week 1	Introduction and discussion on basics in Building Materials,		
1	1100K 1	Alternative materials		
		Background-Need for material science, Materials used		
2	Week 2	in modern construction, performance		
		Why construction materials important?		
	Mook 2	Selection of materials		
3	Week 3	Considerations		
		 Variability of material parameters 		
4	Week 4	 Amorphous and crystalline structures 		
4		Polymers and composites		
5	Week 5	Assessment I		
6	Week 6	Eco Friendly Building Materials		
_	Week 7	Field Trip		
7		5 5: " B 2" M : 1		
	Week 8	Eco Friendly Building Materials Fraction and talking and tal		
8		 Environmental impact study of building materials w.r.t composition, production, recycling etc. 		
		 Physical properties 		
	Week 9	Embodied energy for materials like steel, fly ash bricks,		
9	TT GOIL G	gypsum, steam cured bricks, mud, eco boards etc		
		Life cycle Assessment of materials, Sustainable building		
10	Week 10	Technologies		
11	Week 11	Internal Assessment II		
		Green Materials		
40	Week 12	What is Green? Does it work?		
12		 Perceptions about Green materials like cost and life etc. 		
		 Indoor Environment and Air quality (IEQ & IAQ) 		
13		Identification of Material categories		
	Week 13			
14	\\\-\\\-\\\\-\\\\-\\\\-\\\\\-\\\\\\\\\	Future of Green Materials		
	Week 14	Emerging Pollutants		
15	Week 15	Plasticizers (BBP,DEP etc.), Flame retardants, Nano particles		
16	Week 16	Revision		

17	Week 17	Assessment III
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Tentative Break-up of Internal Assessment:

S.No	Categories of Evaluation	Marks	Note
1	Seminar Presentation 1	20	Marks allotted at each stage is tentative
2	Internal test/ Individual Assessment	10	New stages or categories of evaluation may be included if
3	Seminar Presentation 2	20	and when the need arises

References:

(Nagaraju Kaja)