DEPARTMENT OF ARCHITECTURE

NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI

COURSE PLAN – PART I			
Course Title	INTELLIGENT BUILDINGS		
Course Code	AR : 716	No. of Credits	2 (TWO)
Course Code of Pre-requisite subject(s)	NONE		
Session	Jan. 2018	Section (if, applicable)	(S) SINGLE
Name of Faculty	Dr. T. SRINIVAS	Department	ARCHITECTURE
Email	srivas@nitt.edu	Telephone No.	43 2503555
Name of Course Coordinator(s) (if, applicable)			
E-mail		Telephone No.	
Course Type	☒ Core course	✓ Elective course	

Syllabus (approved in BoS)

SYLLABUS APPROVED IN 2015 BOS

COURSE OBJECTIVES

The course outlines the skills and technologies needed for the design, management and construction of buildings which meet changing environmental and human needs. The course attempts to provide advanced knowledge of various systems of Intgelligent buildings and Building management systems.

COURSE OUTCOMES (CO)

Course Outcomes	Aligned Programme Outcomes (PO)
1. Understand the evolution of IB	
2. Understand role of "Controls" in IB	
3. Understand role of Automation systems in IB	
4. Understand rating, assessment and indexing of IB	
5. Familiarize with research and case studies on IB	

COURSE PLAN – PART II

COURSE OVERVIEW

COURSE TEACHING AND LEARNING ACTIVITIES

S.No.	Week/Contact Hours	Topic	Mode of Delivery
1	1	Introduction	Lecture
2	2	Definitions, components and status in various parts of world	Lecture
3	3	Major systems BAS, OAS, CAS etc	Lecture
4	4	Systems such as BAS, OAS, CAS videos and protocols	videos
5	5	Goals of IB, Building, space and business management	Lecture
6	6	Common objectives and approaches of IBs and Green buildings	Lecture
7	7 & 8	Assignment 1	Tutorial
8	9	Test	test
9	10 & 11	Assignment 2/ Project	Tutorial
10	12 & 13	Discussion and presentation of IB Case studies	Seminar
11	14	Examination	

COURSE ASSESSMENT METHODS (shall range from 4 to 6)

S.No.	Mode of Assessment	Week/Date	Duration	% Weightage
1	Assignment 1	7 & 8	Two weeks	20%
2	Test	9	One hour	20%
3	Assignment 2	10 & 11	Two weeks	20%
CPA	Compensation Assessment*	If necessary		
4	Final Assessment *	Examination	15	Two hours
*mandatory; refer to guidelines on page 4				40%

COURSE EXIT SURVEY (mention the ways in which the feedback about the course shall be assessed)

COURSE POLICY (preferred mode of correspondence with students, policy on attendance, compensation assessment, , academic honesty and plagiarism etc.)

<u>**MODE OF CORRESPONDENCE (email/ phone etc)**</u> : email

<u>**ATTENDANCE :**</u>
_Minimum 75%. Medical reasons (Hospitalization) Up to 50%. Less than 50% Formative assessment may be undertaken.

<u>**COMPENSATION ASSESSMENT**</u> : Will be conducted if necessary.

<u>**ACADEMIC HONESTY & PLAGIARISM**</u> : Plagiarism will be seriously viewed.

ADDITIONAL INFORMATION

FOR APPROVAL

T.SRINIVAS

Course Faculty _____   **CC-Chairperson** _____   **HOD** _____ 16/11r