DEPARTMENT OF ARCHITECTURE

NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI

COURSE PLAN – PART I			
Course Title	COMPUTER APPLICATIONS IN ARCHITECTURE 1		
Course Code	AR102	**No. of Credits**	3
Course Code of Pre-requisite subject(s)	NA		
Session	Jan.2018	**Section (if, applicable)**	S
Name of Faculty	P.GOPALAKRISHNAN	**Department**	ARCHITECTURE
Email	gopal@nitt.edu	**Telephone No.**	0431-2503564
Name of Course Coordinator(s) (if, applicable)	na		
E-mail		**Telephone No.**	
Course Type	✓ Core course	☐ Elective course	

Syllabus (approved in BoS)

Introduction to CAD, Intro to AutoCAD/ Precision Drawing & Drawing Aids/ Geometric Shapes

Setting up & controlling the AutoCAD drawing environment – Creating & Editing Commands. Organizing a drawing with layers

Advanced geometry editing – Creating & using Blocks – Inquiry Tools – AutoCAD Design Center. Internet and collaboration ,Blocks, Drafting symbols, Attributes, Extracting data

Attributes – understanding object linking and embedding – Importing objects into AutoCAD using OLE working with OLE objects., Text annotation – Creating & Customizing Hatch patterns – Productive Dimensioning – Defining Text & Dimension Styles

Printing & plotting - creating a slide presentation – Drawing utilities – importing / exporting files.

COURSE OBJECTIVES

The objective of this course is to teach students the basic commands and tools necessary for professional 2D drawing, design and drafting using AutoCAD

COURSE OUTCOMES (CO)

Course Outcomes	Aligned Programme Outcomes (PO)
1. Students will become familiar with Auto Cad's 2Ddrawings.	
2. Students will learn to operate Cad software and transform technical data into electronic drawings	
3. Students will be able to create 2D drawings from sketches	
4. Students will learn to represent various building elements in the CAD drawing	

COURSE PLAN – PART II

COURSE OVERVIEW

Introduces AutoCAD software as a design and drafting tool for architecture students. Focuses only on two dimensional drafting.

COURSE TEACHING AND LEARNING ACTIVITIES

S.No.	Week/Contact Hours	Topic	Mode of Delivery
1.	Week 1	Overview of CAD	Lecture & Demo
2.	Week 2	Interface and Navigation	Lecture & Demo
3.	Week 3	Basic drawing tools	Lecture & Demo
4.	Week 4	Drawing Precision	Lecture & Demo
5.	Week 5	Making changes	Lecture & Demo
6.	Week 6	Drawing Organization	Lecture & Demo
7.	Week 7	Advanced object types	Lecture & Demo
8.	Week 8	Getting Information(inquiry)	Lecture & Demo
9.	Week 9	CYCLE TEST	
10	Week 10	Advanced Editing	Lecture & Demo
11	Week 11	Blocks & Groups	Lecture & Demo
12	Week 12	Dimensioning	Lecture & Demo
13	Week 13	Adding Text / creating tables	Lecture & Demo
14	Week 14	Creating and Modify hatches	Lecture & Demo
15	Week 15	Working with Xerfs	Lecture & Demo
16	Week 16	Setting up Layout & printing Printing Demo	Lecture & Demo Lecture & Demo

COURSE ASSESSMENT METHODS (shall range from 4 to 6)

S.No.	Mode of Assessment	Week/Date	Duration	% Weightage
1	ASSIGNMENT-1	Week 1 to 2	4hrs / each	30 %
2	ASSIGNMENT-2	Week 2 to3	4hrs / each	(equal weightage for all assignments)
3	ASSIGNMENT-3	Week 3 to 5	4hrs / each	
4	ASSIGNMENT-4	Week 6 to 8	4hrs / each	
5	ASSIGNMENT-5	Week 9 to 11	4hrs / each	
6	ASSIGNMENT-6	Week 12 to 14	4hrs / each	
CPA	Compensation Assessment*	Week 14		
7	CYLCE TEST	Week 9	2hrs	20%
6	END SEM EXAM	LAST WEEK	3Hrs	50%

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

Feedback about the course will be obtained through MIS before the end sem exam.

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

- o For a student to secure a minimum of E grade, he/ she have to secure a minimum of 40% in the cumulative assessment in this course.

- o Submission of assignments is due on the date and time notified in the class. Late submission will attract reduction in marks

MODE OF CORRESPONDENCE (email/ phone etc)

Email : gopal@nitt.edu Phno: +919994924004

ATTENDANCE

Students should have minimum 70% attendance to appear for End semester Exam

COMPENSATION ASSESSMENT

ACADEMIC HONESTY & PLAGIARISM

Plagiarism will not be tolerated

ADDITIONAL INFORMATION

REFERENCES:
Mastering AutoCAD 2015 and AutoCAD LT 2015: by George Omura& Brian C. Benton (Jul 2014)

Online Reference :
https://knowledqe.autodesk.com/support/autocad/qettinq-started?sort=score

FOR APPROVAL

Course Faculty _____ 11/01/18   CC-Chairperson _____ 11/01/2018   HOD _____ 11/1/18