

NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI

This course outline template acts as a guide for writing your course outline. As every course is different, please feel free to amend the template/ format to suit your requirements.

COURSE OUTLINE TEMPLATE			
Course Title	COMPUTER APPLICATIONS IN ARCHITECTURE -2		
Course Code	AR 201	No. of Credits	3
Department	ARCHITECTURE	Faculty	P.GOPALAKRISHNAN
Pre-requisites Course Code	AR 102 COMPUTER APPLICATIONS IN ARCHITECTURE -1		
Course Coordinator(s) (if, applicable)	N.A		
Other Course Teacher(s)/Tutor(s) E-mail	N.A	Telephone No.	0431-2503564
Course Type	<input type="checkbox"/> Core course <input type="checkbox"/> Elective course		
COURSE OVERVIEW			
<p>Introduces AutoCAD, Sketch Up and Revit software as a three dimensional visualization tool for architecture students. Focuses only on three dimensional drafting.</p>			
COURSE OBJECTIVES			
<p>The objective of this course is to teach students the basic commands and tools necessary for professional 3D drawing, design and drafting using AutoCAD, Sketch Up and Revit</p>			
COURSE OUTCOMES (CO)			
Course Outcomes		Aligned Programme Outcomes (PO)	
1. Students will become familiar with digital 3D drawings. 2. Students will learn to operate Cad software and transform 2D drawing to 3D drawings. 3. Students will be able to create conceptual 3D drawings from sketches 4. Students will learn to render a realistic views of 3D models			

COURSE TEACHING AND LEARNING ACTIVITIES

S.N o.	Week	Topic	Mode of Delivery
1.	Week 1	Introduction to Architectural Views	Lecture & Demo
2.	Week 2	Understanding 3D coordinate system	Lecture & Demo
3.	Week 3	3D modeling with AutoCAD (Surfaces, Solids), 3D	Lecture & Demo
4.	Week 4	drawing & Editing commands autocad	Lecture & Demo
5.	Week 5	Interactive Viewing in 3D.	Lecture & Demo
6.	Week 6	Introduction to sketchup	Lecture & Demo
7.	Week 7	3D Modeling with SketchUp	Lecture & Demo
8.	Week 8	Interface and Navigation in sketchup	Lecture & Demo
9.	Week 9	Importing Drawings from Autocad / build 3D	Lecture & Demo
10	Week 10	CYCLE TEST	
11	Week 11	Revit introduction/ overview	Lecture & Demo
12	Week 12	Walls, floors, doors, windows, stairs etc	Lecture & Demo
13	Week 13	Revit families: Using	Lecture & Demo
14	Week 14	Rendering with 3D software	Lecture & Demo
15	Week 15	Photoshop application in editing rendered views	Lecture & Demo
16	Week 16	Presentation drawings	Lecture & Demo

COURSE ASSESSMENT METHODS

S.No.	Mode of Assessment	Week/Date	Duration	% Weightage
1.	ASSIGNMENTS 7 Nos.	Week 1 to Week 16	4hrs / each Assignment	30 % (equal weightage for all assignments)
2.	CYCLE TEST	Week 9	2hrs	20%
3.	SEMESTER EXAM	Semester End	3hrs	50%

ESSENTIAL READINGS : Textbooks, reference books Website addresses, journals, etc

1. Mastering AutoCAD 2015 and AutoCAD LT 2015: by George Omura & Brian C. Benton (Jul 2014)
2. Mastering Autodesk Revit Architecture 2014: – by James Vandezande, Eddy Krygiel & Phil Read, Sybex; First edition (June 2013)
3. Rendering in SketchUp: From Modeling to Presentation for Architecture, Landscape Architecture and Interior Design by Daniel Tal, John Wiley & Sons (April 2013)
4. The SketchUp Workflow for Architecture: Modeling Buildings, Visualizing Design, and Creating Construction Documents with SketchUp Pro and LayOut – by Michael Brightman, John Wiley & Sons, (May 2013)

COURSE EXIT SURVEY (mention the ways in which the feedback about the course is assessed and indicate the attainment also)

Feedback about the course will be obtained at the end of the semester through questionnaire format.

COURSE POLICY (including plagiarism, academic honesty, attendance, etc.)

- (A) 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. Students failing to secure E grade may Redo the course or opt for formative assessment
- (B) Students should have minimum 70% attendance to appear for End semester Exam. Students failing to meet the attendance criteria will get 'V' grade must compulsorily Redo the course.
- (C) Submission of assignments is due on the date and time notified in the class. Late submission will attract reduction in marks
- (D) Plagiarism will not be tolerated.

ADDITIONAL COURSE INFORMATION


eg.: The Course Coordinator is available for consultation at times that are displayed on the coordinator's office notice board. Queries may also be emailed to the Course Coordinator directly at gopal@nitt.edu

FOR SENATE'S CONSIDERATION

Course Faculty

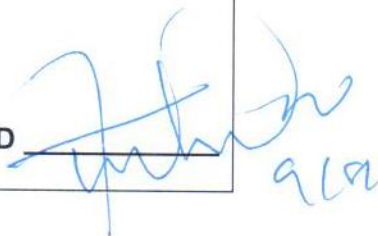


CC-Chairperson



T. SPINIKAS
9/8/17

HOD



9/12

P. Gopalakrishnan