NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI

DEPARTMENT OF ARCHITECTURE

COURSE PLAN – PART I			
Name of the programme and specialization	**B.Arch., Architecture**		
Course Title	**COMPUTER APPLICATIONS IN ARCHITECTURE – I**		
Course Code	**AR102**	**No. of Credits**	**3**
Course Code of Pre-requisite subject(s)	N.A.		
Session	JAN 2021	**Section**	**-**
Name of Faculty	**AMALAN SIGMUND KAUSHIK S**	**Department**	**Architecture**
Official Email	**kaushik@nitt.edu**	**Telephone No.**	**9843294937**
Name of Course Coordinator	N.A.		
Course Type -	**x** **Core course**		

Syllabus (approved in BoS)
Flexible curricullum of B.arch as approved by BoS
COURSE OBJECTIVES
To provide knowledge and skills to use 2D drafting software (Autocad). To enable students to draft their designs in digital 2d software.
MAPPING OF COs with POs

Course Outcomes	**Programme Outcomes (PO)**
1. Familiarizing students to understand the user interface of Autocad.	
2. Generating 2d digital drawings from manual sketches.	
3. Enabling the understanding of representing various building elements in Autocad drawings.	
4. Aiding knowledge to use appropriate line weight for different LOD (level of detail).	
5. Enable students to print the digital drawings in accurate scale.	

COURSE PLAN – PART II
COURSE OVERVIEW
Introducing use of 2D drafting software tools to create architectural 2D drawings.
COURSE TEACHING AND LEARNING ACTIVITIES

S.No.	**Week/Contact Hours**	**Topic**	**Mode of Delivery**
1	1st week	Introduction to Autocad Ribbon, Workspace, Help, command search, drawing units, pan, zoom tools.	Lecture/ Demo
2	2rd to 4th week	Creating Drawings Line command, circle, rectangle, polygon, Arc, spline.	Lecture/ Demo
3	5th to 6th week	Modifying drawings Making selection set, move, copy commands, rotate, scale, offset, mirror, trim, extend, fillet, rectangular array, polar array.	Lecture/ Demo

4	7th to 8th week	Drawing tools Using co-ordinate system, polar, ortho mode, dynamic input, object snap. Creating hatches.	Lecture/ Demo
5	9th to 10th week	Dimensioning and text Creating dimension, creating dimension style, creating text style.	Lecture/ Demo
6	11th to 13th week	Layer, block and Xref Creating layers and assigning objects, using layer project manager, editing object properties, creating and inserting blocks, attaching external references Preparing Layout and plotting Preparing layout and adding title block, plotting drawing	Lecture/ Demo

COURSE ASSESSMENT METHODS

S.No.	Mode of Assessment	Week	Duration	% Weightage
1	Continuous Assesement 1	1st to 6th week	-	25
2	Cycle Test	10th week	1 hr	20
3	Continuous Assesement 2	7th to 12th week	-	25
CPA	Compensation Assessment*	13th week	1 hr	20
4	Final Assessment **	End Semester	As per institute norms	30

COURSE EXIT SURVEY

Feedback will be obtained from MIS by the institute before the end of the semester

COURSE POLICY

- For a student to secure a minimum of E grade, he/ she has to secure a minimum of 40% in the cumulative assessment in theory courses and in theory cum studio/ laboratory courses and a student must score a minimum of 20% in the final assessment to complete the course.
- Any late submissions of assignments will be penalized
- * For compensation assessment only genuine cases of absence shall be considered.

ATTENDANCE POLICY (A uniform attendance policy as specified below shall be followed)

- At least 75% attendance in each course is mandatory.
- A maximum of 10% shall be allowed under On Duty (OD) category.
- Students with less than 65% of attendance shall be prevented from writing the final assessment and shall be awarded 'V' grade.

ACADEMIC DISHONESTY & PLAGIARISM

- Possessing a mobile phone, carrying bits of paper, talking to other students, copying from others during an assessment will be treated as punishable dishonesty.
- Zero mark to be awarded for the offenders. For copying from another student, both students get the same penalty of zero mark.
- The departmental disciplinary committee including the course faculty member, PAC chairperson and the HoD, as members shall verify the facts of the malpractice and award the punishment if the student is found guilty. The report shall be submitted to the Academic office.
- The above policy against academic dishonesty shall be applicable for all the programmes.

FOR APPROVAL

Course Faculty 13/04/2021 **CC- Chairperson** 21.04.2021 **HOD** Dr. K. Thirumaran 30.04.2021