

COURSE TITLE : **ADVANCED COMPUTER APPLICATIONS IN ARCHITECTURE - LAB**
COURSE CODE : **415**
COURSE CATEGORY : **A**
PERIODS/WEEK : **3**
PERIODS/SEMESTER : **54**
CREDITS : **2**

TIME SCHEDULE

<u>MODULE</u>	<u>TITLE</u>	<u>PERIODS</u>
1.	Advanced ACAD applications	7
2.	Plotting and Printing	6
3.	3D studio – An introduction	14
4.	MS-Word, MS Excel	7
5.	MS Project	7
6.	Web Page design, Internet – e – mail	6
7.	GIS	7
Total		54

OBJECTIVES

1.0 Advanced ACAD applications

- 1.1 Develop 3D views from 2D drawings
- 1.2 View the drawing in different angles
- 1.3 View the drawing in perspective view
- 1.4 Rendering
- 1.5 Application of materials

2.0 Plotting and Printing

- 2.1 Setting up a drawing for plotting
- 2.2 Paper space, model space
- 2.3 View ports
- 2.4 Setting up different scales in one sheet
- 2.5 Taking print – out

3.0 3D studio

- 3.1 Important drawing from ACAD
- 3.2 Extrude, Boolean commands
- 3.3 Draw basic geometrical shapes in 3D
- 3.4 Animation
- 3.5 Render
- 3.6 Apply materials, background
- 3.7 Camera, lighting
- 3.8 Walkthroughs

- 4.0 MS Office
 - 4.1 Learn basics of MS Word
 - 4.2 Learn basics of MS Excel

- 5.0 MS Project
 - 5.1 Scheduling
 - 5.2 Task linkage
 - 5.3 Time Estimate
 - 5.4 Critical Path
 - 5.5 Resource management

- 6.0 Internet services
 - 6.1 Web Services
 - 6.2 Internet
 - 6.3 e-mail
- 7.0 Geographical Information System (GIS)
 - 7.1 Software like Auto CAD Map, Asc view (learn any one)
 - 7.2 Map digitalization
 - 7.3 Attribute data management
 - 7.4 Linking data to map
 - 7.5 GIS applications in Urban planning and Architecture

CONTENT OUTLINE

- 1.0 3d Views – Isometric viewing – perspective viewing – Rendering – Application of materials
- 2.0 Setting up a drawing for plotting – paper space – model space – paper space – view ports – scales – print out
- 3.0 Draw floor plans – elevation – sections – perspective views
- 4.0 Import drawing from ACAD – extrude – Boolean – fixing heights and dimensions – 3D rendered images – draw basic 3D forms – Apply materials – background – render – animation – walkthroughs
- 5.0 MS Word – project proposals – letters – agreement letters MS Excel – estimate cost of small buildings
- 6.0 MS Project – scheduling – Task linkage – Time estimate – Critical path – Resource management

7.0 GIS – software like Arc view, Auto cad map – Map digitalization – attribute data – management – linking data to map – GIS applications in Architecture.