

GALAXY INSTITUTE OF TECHNOLOGIES



ADVANCED LAND SURVEYING SYLLABUS		
SL NO	INSTRUMENT	TOPICS COVERED
1		Basics of Surveying
2		Introduction to Surveying Instruments
3	Digital Theodolite	Tripod Setting and Bubble Setting
4	Digital Theodolite	Operating -- Horizontal Angles and Vertical Angles
5	Auto Level	Tripod Setting, Bubble and Staff Reading
6	Auto Level	Level Shifting and Closing
7	Auto Level	Level Shifting and Closing
8	Auto Level	Level Checking, Error Adjustment
9		AUTO LEVEL REVISION
10	Total Station	Tripod Setting ,Bubble Setting and Tilt Setting
11	Total Station	Creating New Job/File , Station , Back Sight,Fore Sight and Pole Handling
12	Total Station	Measuring and Storing Points,Tape Measurement and Area Survey
13	Total Station	Change Point(CP) Shifting using Fore Sight Method
14	Total Station	Change Point(CP) Shifting using Resection Method , REM and MLM
15	Total Station	Setting Out - Using Coordinates
16	Total Station	Setting Out - Using Distance and Angle
17	Total Station	Setting Out - Points at Equal length and Column Marking
18	Total Station	Angles and Area Calculation
19	Total Station	Level Shifting
20		TOTAL STATION REVISION
21		
22	DGPS	Base,Rover,GPS Connections and Settings
23	DGPS	GPS Operating (Garmin hand held, Omnistar 5220HP & Trimble 5800), Area Survey
24	DGPS	DGPS Survey by RTK,PPK and Static Methods
25	DGPS	Setting Out,COGO
26		Data Downloading,Data Processing, Converting Survey Data into AutoCAD format
27		Sample Road Project
28		Real Time Projects (Field Work)