



AMITY UNIVERSITY

— UTTAR PRADESH —

Course Title: Surveying
Course Code: ARCH149
Credit Units: 2
Level: UG

L	T	P/S	SW/F W	TOTAL CREDIT UNITS
1	-	2	-	2

#	Course Title:--	Weightage (%)
	SURVEYING	
1	Course Objectives: Course is aimed to impart basic surveying principles and skills commonly needed in the planning of projects. Demonstrate the role and application of modern surveying techniques and technologies.	
2	Prerequisites: NIL	
3	Student Learning Outcomes: To understand the mechanism involved in surveying of the site levels and slopes and to measure .	
Course Contents / Syllabus:		
4	Module I: Introduction to surveying	10
	Role of surveying in Architecture, Principle of surveying, types of surveying, units of measurements.	
5	Module II: Linear measurement	20
	Role of linear measurement, Different methods, Equipment- Tape, chain, Odometer, Arrows, Ranging rods, Stadia Tachometry, EDM, Total station. Procedure, errors, applications of linear measurement	
6	Module III: Positioning of the Plan	20
	Rectangular and polar coordinates, Definition of Traverse, Application of traversing, Equipment and field procedure.	

7	Module IV: Leveling					20
	Definition, Leveling instruments, differential leveling, Booking and reduction, Longitudinal and cross sectioning, Contouring, Characteristics of contours, locating contours.					
8	Module V: Global Positioning Systems					30
	Basics of GPS, application and uses					
9	Pedagogy for Course Delivery: Lecture, Site Visit, Industry exposure, Studio					
10	Assessment/ Examination Scheme:					
	Theory (%)	Lab/Practical/Studio (%)			Total	
	50	50			100%	
	Theory Assessment L/T					
	Components (Drop down)	A	C	H	FW	EE
	Weightage (%)	05	15	20	10	50
	Lab/Practical/Studio Assesment					
	Components (Drop down)	A	CT	PT	PJ	VV
	Weightage (%)	05	15	10	20	50
	A- Attendance, C – Class Test, H –Home Assignment, FW – Field Work, EE – External Examination, CT – Class Test (Practical Based), PT – Practical, PJ – Project, VV – Viva Voice					

Text & References:

Text:

- Engineering surveying – W. Schofield and Butterworth Heinemann
- Surveying vol 1- B.C. Punmia
- Surveying vol 1- S.K. Duggal