DEPARTMENT OF CIVIL ENGINEERING NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI

	COURSE PLAN	– PART I				
Course Title	SURVEY LABORATOR	Y	. A			
Course Code	CELR11	No. of Credits	3			
Course Code of Pre- requisite subject(s)	-					
Session	July. 2018	Section (if, applicable)	В			
Name of Faculty	Dr. R. Senthilkumar	Department	Civil Engineering			
Email	senthilr@nitt.edu	Telephone No.	9566111484			
Name of Course Coordinator(s) (if, applicable)	NIL	17.24				
E-mail	NIL	Telephone No.	NIL			
Course Type	Core course	Elective co	ourse			
Syllabus (approved in	BoS)					
contouring 4. Radiation, and two plane observa	surveying 2. Plane tab intersection-Traverse- Re ation of trigonometric le Tacheometry 9. Subtens	esection 5. Theod veling 7. Determ	olite surveying 6. Single ination of Tacheometric			
COURSE OBJECTIVES						
Introduction to Ch Plane Table Surve Tacheometry and	l include experiments on ain Surveying and Compa eying – Radiation, intersed Theodolite survey elling to determine heights	ction, Traverse, Res	section Leveling.			
COURSE OUTCOMES (CO)						
Course Outcomes			Aligned Programme Outcomes (PO)			
Use conventional tools splane table, level in the applications such as stru	1 2 4 9 10 11 12					
Apply the procedures in as a surveying team	1 2 4 9 10 11 12					
Plan a survey appropriately with the still to understand the surroundings			1 2 4 9 10 11 12			
Take accurate measure and adjustment of errors	ments, field booking, plott s can be understood.	ing	1 2 4 9 10 11 12			

COURSE PLAN - PART II

COURSE OVERVIEW

To give an overall overview of different Surveying Techniques and its applications through theoretical, practical sessions and tutorials.

COURSE TEACHING AND LEARNING ACTIVITIES

S.No. Topic		Mode of Delivery	
1.	Introduction to Lab instruments		
2.	Chain Surveying - Ranging with the eye	Pencil, Ruler, Rubber, Drawing Sheet	
3.	Chain Surveying - Plotting the sides of the building	Pencil, Ruler, Rubber, Drawing Sheet	
4.	Compass Surveying - Plotting and finding the area of a polygon	Pencil, Ruler, Rubber, Drawing Sheet	
5.	Compass Surveying - Local attraction and Traverse adjustment		
6.	Plane Table Surveying - Intersection/ Radiation/Traversing	Pencil, Ruler, Rubber, Drawing Sheet, Paper Pins, Cello Tape, Drawing Pins	
7.	Levelling - HI method		
8.	Levelling - Rise and Fall method		
9.	Theodolite — Horizontal angle/Repetition on/Reiteration		
10.	Theodolite - Finding Area of Traverse	7 10 20 20 20 20 20 20 20 20 20 20 20 20 20	
11.	Tacheometric Surveying - Finding Constants		
12.	Tacheometric Surveving - Stadia method		
13.	Trignometric leveling - Single Plane methods/ Double plane method		
14.	Repeat Class	-	

COURSE ASSESSMENT METHODS (shall range from 4 to 6)

S.No.	Mode of Assessment	Week/Date	Duration	% Weightage
1	Every Experiment	Each experiment will be assessed on 10 marks and would be finally totalled to 60 marks		60
2	End Semester – Written Exam (Objective)	Week 18	1 hour	20
3	End Semester – Practical Exam	Week 18	1 hour	20

COURSE EXIT SURVEY (mention the ways in which the feedback about the course shall be assessed)

It is proposed to take feedback from the students, at the end of the semester to evaluate the execution of the course.

COURSE POLICY (preferred mode of correspondence with students, policy on attendance, compensation assessment, academic honesty and plagiarism etc.)

MODE OF CORRESPONDENCE (email/ phone etc):

 Mode of Correspondence would be through phone/Email only to the Class Representatives and Vice Versa.

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.

MARKS

Eligibility criteria for passing:

- > All experiments should be completed and recorded in the Lab record
- > Passing minimum Internal Assessments + Written Exam + Practical Exam is 40%

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.

ADDITIONAL INFORMATION

- The Course Coordinator is available for consultation during office hours.
- Queries, if any, can also be emailed to the Course Coordinator directly at senthilr@nitt.edu.

FOR APPROVAL

Course Faculty

CC-Chairperson Lawhir