

GOVERNMENT POLYTECHNIC, VAISHALI

LECTURE PLAN FOR LEFT SYLLABUS EFFECTIVE FROM 10-04-020

BRANCH: - CIVIL ENGINEERING

SEMESTER: -IV

SUBJECT: - ADVANCE SURVEYING (1615401)

SUBJECT TEACHER: -KUMARI SMIRTI

SL.NO.	UNIT	TOPIC TO BE COVERED	NO.OF PERIOD	BOOK
1	Unit-02	2.9 Traversing with Theodolite – Method of included angle locating details, checks in closed traverse, Calculation of bearings from angles. 2.10 Traverse Computation - Latitude, Departure Consecutive ,Co-ordinates error of Closure, Distribution of a angular error, balancing the traverse by Bowditch rule and Transit ,Rule, Gale’s traverse table .simple problems on above topic.	L1 - L2	SELF WRITTEN NOTES , T1, T2
2	Unit-05	Advanced Survey Equipments 5.1 Construction and use of one second Micro Optic Theodolite,Electronic Digital Theodolite. Features of Electronic Theodolite 5.2 Principle of E.D.M, Components of E.D.M and their functions, use of E.D.M. 5.3 Total station	L3-L13	SELF WRITTEN NOTES , T1,T2
3	Unit-06	Aerial Survey and Remote sensing 6.1 Aerial Survey Introductions, definition, Aerial photograph. 6.2 Remote Sensing – Introduction, Electro-Magnetic Energy ,Remote sensing system- Passive system , Active system. Applications – mineral, land use / Land cover, Natural Hazards and Environmental engineering system.	L14-16	SELF WRITTEN NOTES , T1, T2

Text / Reference Books:

Titles of the Book	Name of Authors	Name of the Publisher
Surveying and Levelling(T1)	N N Basak	Tata Mc Graw-Hill
Surveying and Levelling Vol. I and II	T .P. Kanetkar & S. V, Kulkarni	PUNE VIDHYARTHI GRIHA Prakashan
Surveying and Levelling Vol. I and II (T2)	Dr. B. C. Punmia	Laxmi Publication
Surveying and Levelling Vol. I and II	S. K. Duggal	TATA MC GRAW-HILL