Discipline-Civil Engneering	Semestar- 6th	Name Of the teaching Faculty: Pramila Ku. Gouda
Subject-Land Survey-2	No. of Days/per week class alloted:5	Semestar From Date : 16/01/2024 To Date:26/04/2024
Week	Class Day	Theory/Practical Topics
	1st	CHAPTER-1(TACHEOMETRY)
	151	Principles, stadia constants determination
	2nd	Principles, stadia constants determination
1st	3rd	Principles, stadia constants determination
130	4th	Stadia tacheometry with staff held vertical and with line of collimation horizontal
	5th	Stadia tacheometry with staff held vertical and with line of collimation inclined
	1st	Numerical problems
	2nd	Elevations and distances of staff stations
	3rd	Elevations and distances of staff stations
2nd	4th	Elevations and distances of staff stations
		CHAPTER-2(CURVES)
	5th	Compound, reverse and transition curve, Purpose & use of different types of curves in field
	1st	Elements of circular curves, numerical problems
	2nd	Preparation of curve table for setting out
3rd	3rd	Setting out of circular curve by chain and tape and by instrument angular methods (i) offsets from long chord, (ii) successive bisection of arc
	4th	iii) offsets from tangents, (iv) offsets from chord produced
	5th	Rankine's method of tangent angles
	1st	Obstacles in curve ranging – point of intersection inaccessible
4th	2nd	Obstacles in curve ranging – point of intersection inaccessible
401	3rd	CHAPTER-3(BASICS ON SCALE AND BASICS OF MAP) Fractional or Ratio Scale, Linear Scale, Graphical Scale
	4th	Fractional or Ratio Scale, Linear Scale, Graphical Scale
	5th	What is Map, Map Scale and Map Projections
	1st	What is Map, Map Scale and Map Projections
	2nd	How Maps Convey Location and Extent
	3rd	How Maps Convey characteristics of features
5th	4th	How Maps Convey Spatial Relationship
301	5th	Classification of Maps Physical Map, Topographic Map,Road Map, Political Map, Economic & Resources Map, Thematic Map,Climate Map
	1st	CHAPTER-4(SURVEY OF INDIA MAP SERIES)  Open Series map
Cat.	2nd	Defense Series Map
6th	3rd	Map Nomenclature-Quadrangle Name
	4th	Latitude, Longitude, UTM's
	5th	Contour Lines
	1st	Magnetic Declination
	2nd	Public Land Survey System
	3rd	Field Notes
1	3ra	Field Notes

7th		CHAPTER-5 (BASICS OF AERIAL PHOTOGRAPHY, PHOTOGRAMMETRY, DEM AND ORTHO
	1011	IMAGE GENERATION)
_		Aerial Photography -Film, Focal Length, Scale
	5th	Types of Aerial Photographs (Oblique, Straight)
_	1st	Types of Aerial Photographs (Oblique, Straight)
	2nd	Types of Aerial Photographs (Oblique, Straight)
8th	3rd	Photogrammetry-Classification of Photogrammetry
_	4th	Aerial Photogrammetry
	5th	Terrestrial Photogrammetry
	1st	Photogrammetry Process  Acquisition of Imagery using aerial and satellite platform
9th	2nd	Control Survey
501	3rd	Geometric Distortion in Imagery-Stereoscopic Measurement X-
		parallax & Y-parallax
	4th	DTM/DEM Generation
	5th	Ortho Image Generation
		CHAPTER-6(MODERN SURVEYING METHODS) Principles, features
	1st	and use of (i) Micro-optic theodolite, digital theodolite
10th	2nd	Principles, features and use of (i) Micro-optic theodolite, digital theodolite
	3rd	Working principles of a Total Station
	4th	Working principles of a Total Station
Γ	5th	Working principles of a Total Station
	1st	Working principles of a Total Station
	2nd	Total Station position using trigonometry and triangulation
11th	3rd	Total Station position using trigonometry and triangulation
	4th	Total Station position using trigonometry and triangulation
	5th	Total Station position using trigonometry and triangulation
	1st	CHAPTER-7(BASICS ON GPS & DGPS AND ETS) GPS: - Global Positioning Working Principle of GPS,GPS Signals
	2nd	Errors of GPS,Positioning Methods
12th	3rd	DGPS: - Differential Global Positioning System Base Station Setup & Rover GPS Set up
	4th	Download, Post-Process and Export GPS data & Sequence to download GPS data from flashcards
	5th	Sequence to Post-Process GPS data & Sequence to export post process GPS data
	1st	Sequence to export GPS Time tags to file
42:1	2nd	ETS: - Electronic Total Station:- Distance Measurement & Angle Measurement
13th -	3rd	Leveling & Determining position
F	4th	Reference networks
F	5th	Errors and Accuracy

	1st	CHAPTER-8(BASICS OF GIS AND MAP PREPARATION USING GIS) Components of GIS, Integration of Spatial and Attribute Information
14th	2nd	Three Views of Information System-Database or Table View, Map View and Model View
	3rd	Spatial Data Mode
	4th	Attribute Data Management and Metadata Concept
	5th	Prepare data and adding to Arc Map
	1st	Organizing data as layers & Editing the layers
	2nd	Switching to Layout View
15th	3rd	Change page orientation & Removing Borders
	4th	Adding and editing map information
	5th	Finalize the map
		Poamella Ker, Bouds

Signature

Discipline-Civil Engneering	Semestar- 6th	Name Of the teaching Faculty:- Er. Manoranjan Nayak
Subject-Construction	No. of Days/per week class	Er: Malloranjan Nayak
Management	alloted:4	Semestar From Date : 16/01/2024 To Date:26/04/2024
Week	Class Day	Theory/Practical Topics
	1st	CHAPTER-1(Introduction To Construction Management)
		Aims and objectives of construction management
	2nd	Functions of construction management
1st		The construction team - components
150	3rd	owner, engineer, architect, contractor-their functions and interrelationsh and jurisdiction
	4+1-	·
	4th	Resources for construction management-
	<del> </del>	men,machines,materials,money
	1st	CHAPTER-2(IConstructional Planning)
		Importance of Construction Planning
	2nd	Developing work breakdown structure for construction
2nd		work
	3rd	Construction Planning stages-Pre-tender stage, Post-
		tender stage
	4th	Construction scheduling by Bar charts-preparation of Bar Charts for
	401	simple construction works
	1st	Preparation of schedules for labour
		materials, machinery, finance for small works
	2nd	Limitation of Bar charts
3rd	3rd	Construction scheduling by network techniques-
		defination of terms ,PERT and CPM techniques
	4th	Advantages and disadvantages of two techniques,
		network analysis
	1st	Estimation of time and critical path
	2nd	Application of PERT and CPM techniques in sample
	2110	construction works
4+h	24	
4th	3rd	Application of PERT and CPM techniques in sample
		construction works
	4th	Application of PERT and CPM techniques in sample
		construction works
	1st	CHAPTER-3(Materials and Stores Management)
		Classification of Stores-storage of stock
	2nd	Classification of Stores-storage of stock
5th	3rd	Issue of materials-indent , invoice, bin card
	4th	CHAPTER-4(Construction Site Management) Job Lay out- Objectives Review plans, specifications, Lay out of
		equipments
	1st	Job Lay out-Objectives, Review plans, specifications, Lay
		out of equipments
6th	2nd	Location of equipment, organizing labour at site
	3rd	Job lay out for different construction sites
	4th	Principle of storing material at site
	1st	CHAPTER-5(Construction Organization) Introduction – Characteristics, Structure, importance
	2nd	Organization types-line and staff, functions and their
7th	2110	characteristics
/ UI		
	3rd	Principles of organization- meaning and significance of terms- control
	ast.	authority, responsibility, job & task
	4th	Leadership-necessity, styles of leadership, role of leader
	1st	Human relations-relations with subordinates, peers, Supervisors,
		characteristics of group behavior, mob psychology, handling of
		grievances, absenteeism, labour
		welfare
8th		Conflicts in organization-genesis of conflicts, types- intrapersonal,
oui	2nd	interpersonal, intergroup, resolving
		conflicts
		CHAPTER-7(Construction Labour and Labour Management)
	3rd	Preparing Labour schedule

	1st	Labour characteristics
	2nd	Wages & their payment
9th	3rd	Labour incentives
301	4th	Motivation- Classification of motives, different
	401	approaches to motivation
	1st	CHAPTER-6(Equipment Management)
	150	· · · · · · - · · · · · · · · · · ·
	2nd	Preparing the equipment schedule  Identification of different alternative equipment
10th	Znu	
	3rd	Importance of Owning & operating costs in making decisions for
	A.I.	hiring & purchase of equipment
	4th	Inspection and testing of equipment
	1st	Equipment maintenance
	2nd	CHAPTER-8(Quality Control)Concept of quality in construction
11th	3rd	Quality Standards- during construction, after
		construction
	4th	Destructive & non destructive methods
	1st	CHAPTER-9(Monitoring Progress)Programme and
		progress of work
	2nd	Analysis and control of physical and financial progress
		corrective measures
12th		CHAPTER-10(Safety Management In Construction)
12(11	3rd	Importance of safety
		& causes and effects of accidents in construction works
		Safety measures in worksites for excavation, scaffolding, formwork,
	4th	fabrication and erection,
		demolition
	1st	Development of safety consciousness
	2nd	Safety legislation- Workman's compensation act,
		contract labour act
		CHAPTER-11(Role of Vulnerability Atlas of India in construction projects)
13th		Introduction to Vulnerability Atlas of India, Concepts of natural hazards
	3rd	and
		disasters and vulnerability profile of India
		, , , , , , , , , , , , , , , , , , , ,
	4th	Definition of disaster related terms
	1,4	Earthquake hazard and vulnerability, Magnitude and intensity scales of
	1st	earthquake, seismic zones,
		earthquake hazard maps
	2nd	Types of structures and damage classification, effects in
	2110	housing and resistant measures
14th	3rd	Wind / Cyclone hazard and vulnerability, wind speed and pressures,
1701	Siu	wind hazard and cyclone occurrence maps, storm surveys and cyclone
		resistant measures
	4th	Flood hazard and vulnerability, Flood hazard and Flood prone areas of
	401	
		the country, General protection of habitants and flood resistant
	1 at	construction
	1st	Landslides, Tsunamis and Thunderstorm hazards and
	21	vulnerability
	2nd	Landslide & Thunderstorm incidence maps, Measures
		against Tsunami hazards
15th		Housing vulnerability risk tables and usage of vulnerability atlas of India,
	3rd	Inclusion of vulnerability
		atlas in Tender documents
		Housing vulnerability risk tables and usage of vulnerability atlas of India,
	4th	Inclusion of vulnerability
	1	atlas in Tender documents

Discipline-Civil	Semester- 6th	Name Of the teaching Faculty:-
Engneering		Sanket Praharaj
Subject-Advanced Construction Techniques & Equipments	No. of Days/per week class alloted:4	Semester From Date : 16/01/2024 To Date:26/04/2024
Week	Class Day	Theory/Practical Topics
WEEK	Class Day	CHAPTER-1(Advanced construction materials)
	1st	Fibers and Plastics:-Types of fibers- Steel, Carbon, glass fibers,
1st	2nd	Use of fibers as construction material, properties of Fibers
	3rd	Types of plastics- PVC, RPVC, HDPE, FRP, GRP etc  Colored plastic sheets
	4th	Use of plastic as construction material
	1st	Artificial Timbers:-Properties and uses of artificial timber
2nd	2nd	Types of artificial timber available in market
ZIIU	3rd	Strength of artificial timber
	4th	Miscellaneous materials-Properties and uses of acoustics materials
	1st	Wall claddings, plaster boards, micro-silica
	2nd	Artificial sand, bonding agents, adhesives
3rd	3rd	CHAPTER-2(Prefabrication) Introduction, necessity and scope of prefabrication of buildings, history of
		prefabrication, current uses of prefabrication
	4th	Types of prefabricated systems
		Ciassification of prefabrication, advantages and disadvantages of
	1st	prefabrication
ast.	21	The theory and process of prefabrication, design principle of
4th	2nd	prefabricated systems
	3rd	Types of prefabricated elements, modular coordination
	4th	Indian standard recommendation for modular planning
	1st	Indian standard recommendation for modular planning
	24	CHAPTER-3(Earthquake Resistant Construction)
5th	2nd	Building Configuration
	3rd	Lateral Load resisting structures
	4th	Building characteristics
	1st	Effect of structural irregularities-vertical irregularities,
6th	2nd	Effect of structural irregularities-vertical irregularities,
otti	3rd	plan configuration problems
	4th	plan configuration problems
	1st	Safety consideration during additional construction and alteration of existing Buildings
		Safety consideration during additional construction and
	2nd	alteration of existing Buildings
7th	3rd	Additional strengthening measures in masonry building-corner
		reinforcement
	4th	Additional strengthening measures in masonry building-corner
	1c+	reinforcement Iintel band, sill band, plinth band, roof band, gable band etc
	1st	CHAPTER-4(Retrofitting of Structures)
8th	2nd	Seismic retrofitting of reinforced concrete buildings
Otti	3rd	Seismic retrofitting of reinforced concrete buildings
	4th	Sources of weakness in RC frame building
	1st	Sources of weakness in RC frame building
	2nd	Classification of retrofitting techniques and their uses
9th	3rd	Classification of retrofitting techniques and their uses
		CHAPTER-5(Building Services)
	4th	Cold Water Distribution in high rise building, lay out of installation
	1st	Hot water supply – General principles for central plants-layout
	2nd	Sanitation –soil and waste water installation in high rise buildings
10th	2rd	Electrical services – i) requirements in high rise buildings ii)
	3rd	Layout of wiring - types of wiring
	4th	iii) Fuses and their types iv)Earthing and their uses
	1st	Lighting – Requirement of lighting, Measurement of light
		intensity
11th	2nd	Ventilation - Methods of ventilation (Natural and artificial
		Systems of ventilation)
	3rd	Problems on ventilation

	4th	Mechanical Services- Lifts, Escalator, Elevators – types and uses
	1st	CHAPTER-6(Construction and earth moving equipments)
		Planning and selection of construction equipments
	2nd	Planning and selection of construction equipments
12th	3rd	Study on earth moving equipments like drag line, tractor,
	3ru	bulldozer, Power shovel
	4th	Study on earth moving equipments like drag line, tractor,
	4(1)	bulldozer, Power shovel
	1st	Study and uses of compacting equipments like tamping rollers,
	150	Smooth wheel rollers
13th	2nd	Study and uses of compacting equipments like tamping rollers,
1501	2110	Smooth wheel rollers
	3rd	Pneumatic tired rollers and vibrating compactors
	4th	Owning and operating cost – problems
	1st	Owning and operating cost – problems
	2nd	CHAPTER-7(Soil reinforcing techniques)
14th		Necessity of soil reinforcing
	3rd	Use wire mesh and geo-synthetics
	4th	Strengthening of embankments
	1st	Ground improvement techniques and its types
	2nd	Use of geomembranes,geonets,geogrids
15th	3rd	Slope stabilization in cutting and embankments by soil reinforcing
		techniques
	4th	PYQ OF ACT&E SEMESTER EXAMS

Sanket Preahavery

Signature Of The Faculty

Discipline-Civil	Semestar- 6th	Name Of the teaching Faculty:-
Engneering Subject-Concrete	No. of Days/per week class	Er. Rakesh Ku. Panda
Technology	alloted:4	Semestar From Date : 16/01/2024 To Date:26/04/2024
Week	Class Day	Theory/Practical Topics
	1st	CHAPTER-1(Concrete as a construction material)
		Grades of concrete
1st	2nd	Advantages and disadvantages of concrete
	3rd	CHAPTER-2(Cement)
		Composition, hydration of cement
	4th	Water cement ratio and compressive strength
	1st	Fineness of cement, setting time, soundness
	2nd	Types of cement
2nd	3rd	CHAPTER-3(Aggregate, Water and Admixtures)
		Classification and characteristics of aggregate
	4th	Fineness modulus, grading of aggregate,I.S.383
	1st	Quality of water for mixing and curing
	2nd	Important functions, classification of admixtures
3rd	3rd	Accelerating admixtures, retarding admixtures
	4th	Water reducing admixtures, air containing
	701	admixtures
	1st	CHAPTER-4(Properties of fresh concrete)
	130	Concept of fresh concrete, workability
4th	2nd	Slump test
	3rd	Compacting factor test
	4th	V-bee consistency test and flow test
	1st	Requirement of workability, I.S. 1199
	24	CHAPTER-5(Properties of hardened concrete)
Fala	2nd	Cube and cylinder compressive strengths
5th	3rd	Flexural strength of concrete, stress-strain and
		elasticity
	4th	Phenomena of creep and shrinkage
	1st	Permeability, durability of concrete
	2nd	Sulphate, chloride and acid attack on concrete
6th	3rd	Efflorescence
		CHAPTER-6(Concrete mix Design)
	4th	Introduction & Data or input required for mix design
	1st	Nominal mix concrete &design mix concrete
	2nd	Basic consideration for concrete mix design
		Methods of proportioning concrete mix – I.S Code
7th	3rd	method of mix design(I.S.10262)
		Methods of proportioning concrete mix – I.S Code method of m
	4th	design(I.S.10262)
		CHAPTER-7(Production of concrete)
	1st	Batching of materials, mixing of concrete materials
8th	2nd	transportation, placing of concrete
J	3rd	compaction of concrete (vibrators)
	4th	Curing of concrete
	401	Formwork-requirements and types ,stripping of
	1st	forms
		Formwork-requirements and types ,stripping of
	2nd	forms
9th		
	3rd	CHAPTER-8(Inspection and Quality Control of Concrete)
	5.0	Quality control of Concrete as per I.S.456
	4th	Factors causing the variations in the quality of
		concrete
	1st	Mixing, Transporting, Placing &curing
		requirements of Concrete as per I.S.456
10th	2nd	Inspection and Testing as per Clause 17 of IS:456

	3rd	Inspection and Testing as per Clause 17 of IS:456
	4th	Durability requirements of Concrete as per I.S:456
	1st	CHAPTER-9(Special Concrete)
	151	Introduction to ready mix concrete
11th	2nd	high performance concrete,
	3rd	silica fume concrete
	4th	Shot-crete concrete or gunitting
	1st	Shot-crete concrete or gunitting
	الم ما	CHAPTER-10(Deterioration of concrete and its prevention)
12th	2nd	Types of deterioration
	3rd	Types of deterioration
	4th	prevention of concrete deterioration
	1st	prevention of concrete deterioration
13th	2nd	corrosion of reinforcement
1301	3rd	corrosion of reinforcement
	4th	effects and prevention
	1st	CHAPTER-11(Repair technology for concrete structures)
		Symptom, cause and prevention and remedy of
		defects during construction
14th	24	Symptom, cause and prevention and remedy of
	2nd	defects during construction
	3rd	Cracking of concrete due to different reasons.
	4th	Repair of cracks for different purposes
	1st	Selection of techniques
15+6	2nd	Polymer based repairs
15th	3rd	Common types of repairs
	4th	Common types of repairs

Rakesh Ku. Panda.

Signature

Discipline-Civil Engneering	Semestar- 6th	Name Of the teaching Faculty:- Er. Pramila ku. Gouda
Subject-LAND SURVEY PRACTICE  – II	No. of Days/per week class alloted:5	Semestar From Date : 16/01/2024 To Date:26/04/2024
Week	Class Day	Theory/Practical Topics
	1st	CHAPTER-1(TRIGONOMETRICAL SURVEYING & TACHEOMETRY)
	2nd	Determination of height of 3 objects whose bases are accessible. Determination of
1st	3rd	stadia constants
	4th	Determination of horizontal distance an elevation with Staff vertical, by stadia
ľ	5th	method
	1st	
ľ	2nd	CHAPTER-2(SETTING OUT CURVES AND SITE SURVEYING)
2nd	3rd	Setting out a simple circular curve by offsets from long chord
2110	4th	
	5th	Setting out a simple circular curve by offsets from the tangent
	1st	
-		Sotting out a simple circular curve by effects from chards produces
24	2nd	Setting out a simple circular curve by offsets from chords produces
3rd	3rd	
	4th	angles) Setting out a site the center
	5th	line and foundation width of a building from the given plan
	1st	4
	2nd	Setting out the foundation line for a culvert
4th	3rd	
	4th	Dividing an area into plots of given size
	5th	Dividing an area into plots of given size
	1st	CHAPTER-3(STUDY OF MAP & MAP SERIES)
	2nd	
5th	3rd	Physical Map Topographic Map
	4th	Deciliar - Delivering
	5th	Road Map Political Map
	1st	
	2nd	Economic & Resources Map Thematic Map
6th	3rd	_
	4th	Climate Map
	5th	Open Series map and Defense Series Map
	1st	Open series map and serense series map
		CHAPTER-4(STUDY ON GPS & DGPS AND ETS)
7th	2nd	GPS: - Global Positioning, GPS Signals, Errors of GPS,Positioning Methods
7611	3rd	DCDC. Differential Clabel Positioning Costons Dans Station Cotum
-	4th	DGPS: - Differential Global Positioning System Base Station Setup
	5th	Rover GPS Set up
	1st	Download, Post-Process and Export GPS data Sequence to download GPS data fron
	2nd	flashcard
8th	3rd	
	4th	Sequence to Post-Process GPS data Sequence to export post process GPS data
	5th	' ' ' '
[	1st	
	2nd	Sequence to export post process GPS data Sequence to export GPS Time tags to file
9th	3rd	
	4th	ETS: - Electronic Total Station
	5th	Distance Measurement
	1st	
ļ	2nd	Angle Measurement
10th	3rd	1
ļ	4th	
ļ	5th	- Leveling
	1st	
ŀ	2nd	 Determining position
11th	3rd	
ŀ	4th	
}	4tn 5th	Reference networks Errors and Accuracy
	1st	CHAPTER-5(STUDY OF GIS & MAP PREPARATION USING GIS)
	2nd	Components of GIS, Integration of Spatial and Attribute Information Three Views o
12+h	3rd	Information System Database or Table View, Map View and Model View
12th		
12th	4th	2Three Views of Information System 5.2.1 Database or Table View, Map View and
12th	4th 5th	2Three Views of Information System 5.2.1 Database or Table View, Map View and Model View

	2nd	Attribute Data Management and Metadata Concept
13th	3rd	
	4th	Propers data and adding to Are Man Organizing data as layers
	5th	Prepare data and adding to Arc Map Organizing data as layers
	1st	
	2nd	Editing the layers Switching to Layout View.
14th	3rd	
	4th	Change page orientation
	5th	Removing Borders, Adding and editing map information, Finalize the map
	1st	Change page exicutatic Removing Revders Adding and aditing man information
	2nd	Change page orientatio, Removing Borders, Adding and editing map information,  Finalize the map
15th	3rd	rillalize the map
	4th	Change page orientatio, Removing Borders, Adding and editing map information,
	5th	Finalize the map
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		Signature

Discipline-Civil Engneering	Semestar- 6th	Name Of the teaching Faculty:- Er. Rakesh Ku. Panda
Subject-CADD Lab and Design		Li. Nakesii ku. Failua
& Detailing	No. of Days/per week class	Semestar From Date : 16/01/2024 To Date:26/04/2024
Practice	alloted:5	Semestal 110111 Date : 10/01/2024 10 Date:20/04/2024
Week	Class Day	Theory/Practical Topics
VVCCR	1st	Theory/Tractical Topics
1st	2nd	CHAPTER-1(Structural Detailing Practice)
130	3rd	Drawing Slab, beam and lintel with chajja as in a simple building
	1st	
2nd	2nd	Columns, column-beam connections with & without splicing, isolated footing,
	3rd	staircase
	1st	
3rd	2nd	Columns, column-beam connections with & without splicing, isolated footing,
5.0	3rd	staircase
	1st	
4th	2nd	Different types of bolt connections, welded connections
	3rd	Billetent types of soil confections, weiged confections
	1st	
5th	2nd	Details of Pile and Pile cap
	3rd	
	1st	
6th	2nd	CHAPTER-2(Structural Detailing Practice)
	3rd	Introduction
	1st	
7th	2nd	2-D Modelling of structures, Use of Structure wizard,
	3rd	Geometry, Property, Support, Loads and combinations, Analysis
	1st	
8th	2nd	Analysis of a Continuous beam with more than two span subjected to udl and
	3rd	point load
	1st	3-D modeling of building structures ,dead load, live load,
9th	2nd	earthquake and wind load analysis, design of a 3 storeyed building and
ļ	3rd	preparation of reinforcement drawing and
	1st	
10th	2nd	Introduction to STADD foundation
	3rd	
	1st	CHAPTER-3(Revit Architecture Software)
11th	2nd	Basics- Modify, Wall, Door, Window, Component Room, Roof, Floor, Grid, Lines,
	3rd	Dimension, Section, Level, Text, View
	1st	
12th	2nd	Modelling- Ramp, Railing, Stair
	3rd	
	1st	
13th	2nd	Align, Split, Trim, offset, Match type, Line work, Paint, Scale, Unit
	3rd	
	1st	
14th	2nd	3D View
	3rd	
	1st	Preparation of approval drawing of a double storied
15th	2nd	residential building from given specifications with its 3D view using above
	3rd	commands

