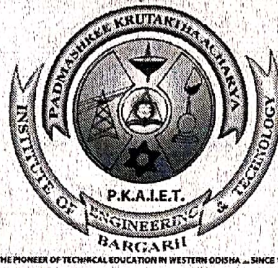


PADMASHREE KRUTARTHA ACHARYA INSTITUTE OF ENGINEERING & TECHNOLOGY, BARGARH



PROGRESS REGISTER

Session-2022-2023

Discipline: Civil Engg.

Semester: 6th

Subject: Land Survey - II

Name of the Teaching Faculty: Saewaf Suman Sharma

Subject: Railway & Bridge Engg No. of Days/per week class allotted 5

Semester From Date: 14-02-2023 To Date: 23-04-2023 No. of Weeks: 15

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
14-02-23	Introduction to tachometry	Introduction to tachometry	Discussion on tachometry	<u>S. Khan</u>
15-02-23	Principle of tachometry and stadia constants	Principles and stadia constants	Discussion on principles & constants	<u>S. Khan</u>
16-02-23	Stadia tachometry with vertical staff	tachometry with vertical staff	Discussion on tachometry with vertical staff	<u>S. Khan</u>
17-02-23	Stadia tachometry with inclined staffs	tachometry with inclined staff	Discussion on tachometry with inclined staff	<u>S. Khan</u>
20-02-23	Numericals	Numericals	Numerical practice	<u>S. Khan</u>
21-02-23	Methods to determine elevation and distances	Methods to determine Elevation & distances	discussion on methods to determine elevation	<u>S. Khan</u>
22-02-23	Numericals	Numericals	Numerical practice	<u>S. Khan</u>
23-02-23	Understanding curves	Understanding curves	Discussion on curves	<u>S. Khan</u>
24-02-23	Compound, Reverse and transition curves	Types of curves	Discussion on types of curves	<u>S. Khan</u>
27-02-23	purpose & different types of curves	purpose of curves	Discussion on purpose of curves	<u>S. Khan</u>
28-02-23	Elements of circular curves, Numericals	Elements of curves.	Discussion on Elements of curves	<u>S. Khan</u>

Subject: LAND SURVEY-II No. of Days/per week class allotted 5

Semester From Date : 14-02-23 To Date : 23-05-2023 No. of Weeks : 15

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
1-3-23	Preparation of curve table and setting out	Setting out curve table	Discussion on curve table	<u>S. Ghans</u>
2/3	Setting out by offsets and successive bisection	Setting out by offsets & bisection	Discussion on offset & bisection methods	<u>S. Ghans</u>
3/3/23	offsets from chords produced Rankine method	offsets from chords produced Rankine method	Discussion on methods of setting out	<u>S. Ghans</u>
6/3/23	Obstacles in curve ranging	obstacles in ranging	Discussion on obstacle on ranging	<u>S. Ghans</u>
9/3	Fractional and ratio scales, Graphical scales	scales	Discussion on scales	<u>S. Ghans</u>
10/3/23	Map scales and projections.	map scales & projections.	Discussion on map scales and projections	<u>S. Ghans</u>
13/3	How maps convey location & extent	map location	Discussion on map location	<u>S. Ghans</u>
14/3	Maps convey spatial relation	maps spatial relation	Discussion on map spatial relation	<u>S. Ghans</u>
15/3	Classification of maps	map classification	Discussion on map classification	<u>S. Ghans</u>
16/3	Variety of maps	map variety	Discussion on map variety	<u>S. Ghans</u>
17/3	Open series maps.	Open series maps.	Discussion on open series maps	<u>S. Ghans</u>

Subject: LAND SURVEY-II No. of Days/per week class allotted 5

Semester From Date : 14-02-2023 To Date : 28-05-2023 No. of Weeks : 15

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
20/3/23	Significance of open series maps	Significance of open series map	Discussion on concept	<u>S. Shom</u>
21/3	Defence Series maps	Defence Series map	Discussion on concept	<u>S. Shom</u>
22/3	Significance of defence series maps	Significance of defence series	Discussion on concept	<u>S. Shom</u>
23/3	Map nomenclature	Map Nomenclature	Discussion on concept	<u>S. Shom</u>
24/3	Latitude, Longitude & Quadrantal Names	Latitude, Longitude Quadrantal	Explanation on Latitude, Longitude	<u>S. Shom</u>
27/3	UTM & Contour lines	UTM & Contour	Discussion on UTM, Contours	<u>S. Shom</u>
28/3	Public Land Survey & field notes	Public Land Survey & field notes	Discussion on Land Survey & field notes	<u>S. Shom</u>
29/3	Magnetic declination	Magnetic Declination	Discussion on magnetic declination	<u>S. Shom</u>
31/3	Significance of m.d	Significance of m.d	Discussion on concept	<u>S. Shom</u>
3/4/23	Aerial photogrammetry	Aerial photogrammetry	Explanation of theory	<u>S. Shom</u>
4/4/23	Types of aerial photogrammetry	Types of Photogrammetry	Explanation of theory	<u>S. Shom</u>

Subject: LAND SURVEY - II No. of Days/per week class allotted 5

Semester From Date : 14.02.2023 To Date : 23.05.2023 No. of Weeks : 15

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
5/4/23	Classification of photogrammetry Aerial & Terrestrial	Classification of photogrammetry Aerial & Terrestrial	Discussion on concept	<u>S. Shom</u>
6/4	Photogrammetry Process, Control Survey, Distortion	Photometry, Control Survey, Distortion	Discussion on concept	<u>S. Shom</u>
10/4	Orientation and triangulation.	Orientation & triangulation.	Explanation of concept.	<u>S. Shom</u>
11/4	Imagery & Support data	Imagery & Support data	Explanation of concept	<u>S. Shom</u>
12/4	DTM Generation, Orthoimage Generation	DTM Generation, Orthoimage	Discussion on the concept.	<u>S. Shom</u>
13/4	Introduction and working principle of modern survey	Intro & working principle to modern survey.	Discussion on the concept	<u>S. Shom</u>
17/4	Microoptics, digital theodolite, T.S	Microoptics, digital theodolite, T.S	Discussion on concept	<u>S. Shom</u>
18/4	Working principle of T.S, Distance of points	Working principle of T.S & distance measurement.	Discussion on concept	<u>S. Shom</u>
19/4	Setting up X, Y, Z axis, Northing & Easting, Elevation	X, Y, Z axis setup Northing, Easting & Elevation	Explanation & demonstration of concept	<u>S. Shom</u>
20/4	Using trigonometrical & triangulation methods	Using trigono, triangulation methods.	Discussion on concept	<u>S. Shom</u>
21/4/23	Introduction and working principle of GPS.	Introduction & working principle of GPS.	Discussion on concept.	<u>S. Shom</u>

Subject: LAND SURVEY-II No. of Days/per week class allotted 5

Semester From Date : 14-02-2023 To Date : 28-05-23 No. of Weeks : 15

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
24/4/23	Signale, Errors and positioning methods.	Signale, Errors and positioning methods	Discussion on concept.	<u>S. Shyam</u>
25/4	Introduction to DGPS, Base Station setup, GPS Setup	Intro to DGPS, Base Station, Setups.	Discussion on concept	<u>S. Shyam</u>
26/4	Post processing and Data Export, Flash cards, time tags.	Post processing Data Exports & Flash cards.	Discussion on concept.	<u>S. Shyam</u>
27/4	Sequence for data download, Intro to ETS.	Data download Sequence, Intro to ETS	Understanding concept.	<u>S. Shyam</u>
28/4	Angle measurement, levelling, position determination.	Angle measure, levelling, position determination	Understanding concept.	<u>S. Shyam</u>
1/5/23	Reference works. components of GIS, Integration of info	Reference works, components of GIS, Integration	Discussion on concept.	<u>S. Shyam</u>
2/5/23	3 views info, Table view, map view and model view	3 views concept.	Discussion on concept	<u>S. Shyam</u>
3/5	Spatial modelling, Attribute data management.	Spatial modelling, Attribute data management	Discussion on concept.	<u>S. Shyam</u>
4/5	Metadata Concepts	Metadata concepts.	Discussion on concept	<u>S. Shyam</u>
5/5/23	Data preparation, organising as Layers.	Data preparation, organisation of Layers.	Discussion on concept.	<u>S. Shyam</u>
9/5/23	Organizing & Editing layers.	Organizing & Editing layers.	Discussion on concept.	<u>S. Shyam</u>

Subject: LAND SURVEY-II No. of Days/per week class allotted 5

Semester From Date : 14.02.2023 To Date : 28.05.23 No. of Weeks : 15

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
10/5/23	Switching layouts & changing orientation	Layout Switch, changing orientation.	Discussion on concept	<u>S.S.Pham</u>
11/5/23	Removing Borders, Adding, Editing map info.	Removing Borders, Adding, Editing map info	Discussion on concept	<u>S.S.Pham</u>
22/5/23	Finalising the map	map finalization	Discussion on concept	<u>S.S.Pham</u>