



**Darrang College
(Autonomous),
Tezpur-784001**

**Syllabus for FYUGP
Geography (SEC)
GGY-SEC-01013**

Approved by :

Board of Studies meeting held on 31-07-2025

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Academic Council vide Resolution no. 04, dated- 12-08-2025

Detail syllabus of 1st semester (SEC 1)

Title of the course	Field Survey: Techniques and Application
Course code	GGY-SEC-01013
Total Credit (theory +practical)	02-0-01
Teaching method	L-T-P
Contact hours	60 (1 Credit=15 hours)
Distribution of Marks	(A) End semester =45 (B) Internal=30 (Sessional, Assignment, Class test, Seminar, Group discussion, Attendance, Project)
Course outcomes	This course will help students to proceed with a research problem and the steps he/she should adopt and tools to be used for doing quality research. The students shall get a chance to observe ground reality directly and minutely. It will help to develop understanding about designing and writing a research report.

Unit	Content	Lecture	Tutorial/ Remedial	Practical	Total Hours
Unit 1	Meaning of field surveying; Need and importance of field work in geographical studies: Physical and Cultural landscape.	05	NIL	NIL	05
Unit 2	Concept of case study and its identification in varying geographical contexts.	10	NIL	NIL	10
Unit 3	Tools and techniques of data collection; Questionnaire survey, Participatory Rural Appraisal Techniques, Participant Observation, Focus Group Discussions, Transect survey, Quadrat survey.	15	NIL	NIL	15
Unit 4	Preparation of a report on socio-economic condition of a nearby village and seminar presentation (Duration-10minutes per participant, which is to be monitored and evaluated by the concerned experts)	NIL	NIL	15	30
Total unit 4		30	NIL	15	60

Reading list:

1. C.R. Kothari: *Research Methodology (methods and techniques)*, New age international publishers.
2. R.L.Singh: *Elements of Practical Geography*.
3. A. Sarkar: *Practical Geography: A systematic Approach*.
4. R.L.Singh & Rana P.B. Singh: *Elements of Practical Geography*.
5. A. Sarkar: *Quantitative Geography, Techniques & presentation*.
6. Michael Brody & Alexander Bogolyubov: *Field Studies Techniques. Part I. Geography and Landscape Sciences: Investigating Nature Together*.



**Darrang College
(Autonomous),
Tezpur-784001**

**Syllabus for FYUGP
Geography (SEC)
GGY-SEC-02013**

Approved by :

Board of Studies meeting held on 31-07-2025

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Academic Council vide Resolution no. 04, dated- 12-08-2025

Detail syllabus of 2nd semester (SEC II)

Title of the course	Statistical Techniques in Geography
Course code	GGY-SEC-02013
Total Credit (theory + practical)	L-T-P (02-0-01)
Contact hours	60 (1 Theory credit=15 hours) (1 Practical credit=30 hours)
Distribution of Marks	(A) End semester=30 +25 (P)=55 (B) Internal=20 (Sessional, Assignment, Class test, Seminar, Group discussion, Attendance)
Course outcomes	1. Understand the role of statistics in geography: Need of statistics in geography. 2. Analyse the geographical distribution & pattern using various techniques viz. Central tendency, dispersion, correlation.

Unit	Content	Lecture	Tutorial/ Remedial	Practical	Total Hours
	Theory				
Unit 1	Need of statistics in geographical studies, Geographical data-Nature and sources, method of data collection, Data processing, frequency polygon, frequency curve, Histogram and Ogive.	10	NIL	NIL	10
Unit 2	Measures of Central tendency-mean, median and mode both group and ungroup data. Measures of Dispersion-Range, Quartile Deviation, Mean deviation and Standard deviation.	10	NIL	NIL	10
Unit 3	Concept of sampling, types of samplings and its application in geographical studies	05	NIL	NIL	05
Unit 4	Correlation and its uses in geographical studies	05	NIL	NIL	05
Total unit 4		30	NIL	NIL	30
	Practical				
Unit 1	Graphical representation: Histogram, frequency, polygon, frequency curve and Ogive.	NIL	NIL	05	10
Unit 2	Graphical/general representation: line graph, simple and complex, bar graph, complex and compound. Pie-chart and flow diagram			10	20
Total				15	30

Reading list:

1. Cole, J.P. and King, C.A.M., 1968: Quantitative Methods in Geography, Willey and Sons, New York.
2. Duncan, O.D., et al, 1961: Statistical Geography: Problems in Analysing Areal Data, Free Press of Glencoe, New York.
3. Davis, P., 1988: Data Description and Presentation (Science in Geography series), Oxford University Press, Oxford.
4. Elhance, D.N., 1972: Fundamental of Statistics, Kitab Mahal, Allahabad.
5. Eyles, J. and Smith, D.M.(eds),1988: Quantitative Methods in Human Geography, Polity Press, Oxford.
6. Gregory, S.,1963: Statistical Methods and the Geographers, Longman, London.
7. Hammond, R. and McCullagh, P., 1965: Quantitative Techniques in Geography, Clarendon Press, Oxford.
8. Mahmood, A., 1999: Statistical Methods in Geographical Studies, Rajesh Publications, New Delhi.
9. Pal, S.K., 1998: Statistics for Geoscientists: Techniques and Applications, Concept Publishing Company, New Delhi.
10. Lewis, P., 1967: Maps and Statistics, Methuen & Co. Ltd., London
11. Robinson, A.H., et al: Elements of Cartography, John Wiley & Sons, New York.
12. Singh, R.L.: Elements of Practical Geography, Kalyani Publishers, New Delhi.