Ph.D. COURSE WORK SYLLABUS

SUBJECT: GEOGRAPHY

(With effect from 2022)

Department of Geography
University of Kalyani
Kalyani, Nadia, West Bengal
PIN CODE-741235

Ph.D. COURSE WORK SYLLABUS SUBJECT: GEOGRAPHY

Duration: One Semester (Six Months)

Total Credit: 16

Paper	Name of the Paper/Course item	Marks	Credits
01-RM/A	Research Methodology (A)*	100 (60+20+20) (Term End Examination + Internal Assessment +Viva-voce)	04
02-RM/B	Research Methodology (B)	100 (60+20+20) (Report+Presentation+ Viva-voce)	04
03-ALC/A	Advanced Level Course on Subject (A)	100 (60+20+20) (Term End Examination + Internal Assessment +Viva-voce)	04
04-ALC/B (PG) or 04-ALC/B (HG)	Advanced Level Course on Subject (B)**	100 (60+20+20) (Term End Examination + Internal Assessment +Viva-voce)	04
	Total	400	16

^{*}The Paper 01-RM/A will be conducted at Faculty level.

Abbreviation:

RM = Research Methodology

ALC = Advanced Level Course

PG = Physical Geography

HG = Human Geography

^{**} Shall be chosen from a group of transdisciplinary recognised subjects.

Ph.D. COURSE WORK SYLLABUS SUBJECT: GEOGRAPHY

Paper: 02-RM/B Research Methodology (B) Full Marks: 100 Credits:04

(Report: 60 + Presentation: 20 + Viva-voce: 20)

Review of Published research, Documentation/submission of Reports on Review work and Presentation

• Each candidate will review the literature of the research problem assigned for his/her Ph.D. work and submit a write up with identified research gap (within 5000 words).

Paper: 03-ALC/A

Advanced Level Course on Subject (A) Full Marks: 100 Credits:04

(Term End Examination: 60 + Internal Assessment:20 +Vivavoce:20)

Field Work, Analytical Techniques and Basics of Geographical Research

- Identification and formulation of Research Problem, Research Gap, Formulation of Research Questions, Development of Hypothesisin Geography
- Relevance of Field Book, Sample Collection, Identification of Physical and Cultural Attributes, Ground Truth Verification, Preparation of Questionnaire and Survey Schedule, Collation of Cadastral and other Maps
- Significance of Spatio-Temporal analysis, Longitudinal and Cross Sectional analysis
- Importance of Modelling
- Style of Writing Scientific Paper, Research Proposal, Recording Major Findings along with Suggestions and Drawing Conclusion, Referencing Style (APA) and Bibliography

Mode of Internal Assessment: Class Test

Paper: 04-ALC/B (PG)

Advanced Level Course on Subject (B)

Full Marks: 100 Credits:04

(Term End Examination: 60 + Internal Assessment:20 +Vivavoce:20)

Analysis of data through statistical and RS/GIS software in Physical Geography Unit-I: Use of Statistical Software for Research in Physical Geography

Histogram, Skewness and Kurtosis; Descriptive Statistics; Analysis of Variance, Linear and Non-linear regression; Multivariate Analysis:Factor Analysis, Principal Component Analysis, Clustering Techniques; Sampling and Hypothesis Testing (Parametric and Non Parametric)

Unit-II: Application of RS and GIS Software for Research in Physical Geography

Application of Remote Sensing and GIS for preparation of Thematic Maps, Detection of Change in Land Cover and Land Use using Satellite Images and Topographical Sheets; Concept of DEM and TIN, Use of GPS for updating the Maps

Mode of Internal Assessment: Project Report on any issue in Physical Geography using Statistical and RS/GIS software

OR

Paper:04-ALC/B (HG) Advanced Level Course on Subject (B) Full Marks: 100 Credits:04

(Term End Examination: 60 + Internal Assessment:20 +Vivavoce:20)

Analysis of data through statistical and RS/GIS software in Human Geography Unit-I: Use of Statistical Software for Research in Human Geography

Histogram, Skewness and Kurtosis; Descriptive Statistics; Analysis of Variance, Linear and Non-linear regression; Multivariate Analysis:Factor Analysis, Principal Component Analysis, Clustering Techniques; Sampling and Hypothesis Testing (Parametric and Non Parametric); Narrative Analysis through Cloud Zooming, Analysis of Text, Grounded Theory

Unit-II: Application of RS and GIS Software for Research in Human Geography

Application of Remote Sensing and GIS for preparation of Thematic Maps, Detection of Change in Land Cover and Land Use using Satellite Images and Topographical Sheets; Concept of DEM and TIN, Use of GPS for updating the Maps

Mode of Internal Assessment: Project Report on any issue in Human Geography using Statistical and RS/GIS software