



UNIVERSITY OF JAMMU, JAMMU
(NAAC ACCREDITED 'A+' GRADE UNIVERSITY)

NOTIFICATION
(18/Aug/Adp/67)

In continuation to this office notification No F. Acd/II/18/3903-3943 dated 22.05.2018, it is hereby notified for the information of all concerned that the Vice-Chancellor, in anticipation of the approval of the Competent Authority, is pleased to authorize the change in the title of revised course from Statistical Techniques in Geography (UGOPE-502) to **Map Projection, (Code No. UGOPC-502) in Semester – V, syllabi of B.A/B.Sc. (Geography)** under the Choice Based Credit System at Undergraduate level (as given in annexure) for the examination to be held **in the year 2018 only.**

The Syllabi of the courses is available on the University website: www.jammuuniversity.in

Sd/-
DEAN ACADEMIC AFFAIRS

No. F. Acd/II/18/10045-10052
Dated: 03-10-2018

Copy for information and necessary action to:

1. Dean, Faculty of Science
2. HOD/Convener, Board of Studies in Geography
3. C.A to the Controller of Examinations
4. I/c Director, Computer Centre, University of Jammu
5. Asst. Registrar (Conf. /Exams. UG/Pub.)
6. Incharge, University Website for necessary action please.

Assistant Registrar (Academic)

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**Detailed Practical Syllabus in Geography for B.A/B.Sc Semester-V under
CBCS for the Examination to be held in December, 2018**

for the examinations to be held in Dec. 2018 only.

Course Code: UGOPC-502
Credits: 2
Title: Map Projection

Total Marks: 50
Internal: 25
External: 25

Unit-I

- 1.1 General Principles of Map Projections.
- 1.2 Definition and Significance of Map projections.
- 1.3 Classification of Map Projections.
- 1.4 Choice of Map Projections.

Unit-II

- 2.1 Construction, Properties, Merits and Demerits of Cylindrical Map Projection.
- 2.2. Simple Cylindrical Map Projection.
- 2.3 Cylindrical Equal Area Map Projection.
- 2.4. Mercator's Map Projection.

Unit-III

- 3.1 Construction, Properties, Merits and Demerits of Conical Map Projection.
- 3.2 Conical Map Projection with One Standard Parallel.
- 3.3 Conical Map Projection with Two Standard Parallels.
- 3.4 Bonne's Map Projection.

Unit-IV

- 4.1 Construction, Properties, Merits and Demerits of Zenithal Map Projection.
- 4.2 Zenithal Equal Area Map Projection.
- 4.3. Zenithal Equidistant Map Projection.
- 4.4 Sinusoidal Map Projection.

NOTE FOR PAPER SETTER:

Practical Examination Evaluation

a. Internal Marks: 25

Attendance: 5 Marks

Daily Performance: 10 Marks

Test and Viva: 10 Marks

b. External Marks: 25

Test: 20 Marks

Viva: 5 Marks

External practical test will be conducted in one session. Eight Questions will be set from all four units selecting two from each unit and student will be required to attempt one question from each unit. Each question carries 5 marks.

[Handwritten signatures and marks]

Books Recommended

1. Gupta K.K. and Tyagi V.C., 1992: *Working with Map*, Survey of India, DST, New Delhi.
2. Mishra R.P. and Ramesh A., 1989: *Fundamentals of Cartography*, Concept, New Delhi.
3. Monkhouse F. J. and Wilkinson H.R., 1973: *Map and Diagrams*, Methuen, London.
4. Robinson A. H., 2009: *Elements of Cartography*, John Wiley and Sons, New York.
5. Singh R. L. and Singh R. P. B., 1999: *Elements of Cartography*, Kalyani Publishers.
6. Sarkar, A., 1997: *Practical Geography: A Systematic Approach* Logman, Calcutta.
7. Singh R.L. and Duff R.K., *Element of Practical Geography*. Kalyani Publishers, New Delhi.
8. Singh, Gopal: *Map Work and Practical Geography*, Vikas Publisher House Pvt. Ltd. New Delhi.
9. Khullar, D.R., 2017: *Essential of Practical Geography*, Manjit Singh New Academic Publishing Co Jalandhar.

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UNIVERSITY OF JAMMU

**NOTIFICATION
(18/May/Adp/19)**

It is hereby notified for the information of all concerned that the Vice-Chancellor, in anticipation of the approval of the Academic Council, is pleased to authorize the adoption of the Syllabi and Courses of Study in the subject of **B.A./B.Sc.(Geography)** for V and VI semester under the **Choice Based Credit System** at the Undergraduate level (as given in the Annexure) for the Examinations to be held in the years indicated against each semester as under:-

Subject	Semester	For the examinations to be held in the year
Geography (B.A./B.Sc)	Semester-V	Dec. 2018,2019 and 2020
	Semester-VI	May 2019, 2020 and 2021


The Syllabi of the courses is available on the University website: www.jammuuniversity.in

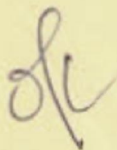
Sd/-
DEAN ACADEMIC AFFAIRS

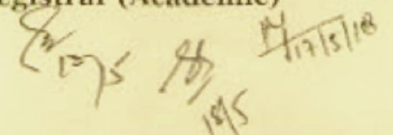
No. F. Acd/II/18/3903-3943
Dated: 22-05-2018.

Copy for information and necessary action to:

1. Special Secretary to the Vice Chancellor, University of Jammu for the kind information of the Worthy Vice-Chancellor please
2. Sr. P.A. to the Dean Academic Affairs/ Dean Research Studies
3. Sr. P.A. to the Registrar/Controller of Examinations
4. Dean, Faculty of Science
5. HOD/Convener, Board of Studies in Geography
6. All members of the Board of Studies
7. C.A to the Controller of Examinations
8. I/c Director, Computer Centre, University of Jammu
9. Asst. Registrar (Conf. /Exams.UG/ Inf./Pub.)
10. Incharge, University Website for necessary action please.


Assistant Registrar (Academic)




17/5/18

DISCIPLINE SPECIFIC ELECTIVE

**Detailed Syllabus in Geography for B.A/ B. Sc Semester- V under CBCS for
The Examination to be held in December 2018, 2019 and 2020**

Course Code: UGOTE- 501
Credits: 4 Total Marks: 100
End Semester Exam: 80

Title: Human Geography
Duration: 2½ Hours
Internal Assessment: 20

Note: The objective of the course is to introduce the latest concepts in Human Geography and aware the students about the importance of human resources for the welfare of societies inhabiting across the globe.

Unit-1

- 1.1. Definition, Nature and Scope of Human geography.
- 1.2. Approaches to the study of Human Geography: Quantitative and Behavioural, Determinism and Possibilism.
- 1.3. Perspectives in Human Geography: Quantitative revolution in Geography.
- 1.4. Human as Resource and Human development index of the world.

Unit - II

- 2.1. Growth, density and distribution of population and causes of uneven distribution of population in the world.
- 2.2. Demographic attributes; Causes and consequences of migration.
- 2.3. Concepts of over-under-and optimum population.
- 2.4. Cultural regions of the world.

Unit- III

- 3.1. Types and patterns of rural and urban settlements.
- 3.2. Trends and Patterns of World Urbanization
- 3.3. Functional classification of towns.
- 3.4. Problems and remedies of urbanization;

Unit- IV

- 4.1. Regional Planning: Concept of a region; Types of regions and methods of regionalization;
- 4.2. Growth centers and growth poles; Regional imbalances; regional development strategies;
- 4.3. Environmental issues in regional planning.
- 4.4. Planning for sustainable development.

Unit – V

5.1. Models, Theories and Laws in Human Geography: Malthusian

5.2. Demographic transition model

5.3. Central Place Theory of Christaller.

5.4. Population Resource Regions of the world

Note for Paper Setting:

The question paper shall comprise of three sections i.e. A, B and C. Section A and B are compulsory. Section- A comprises of Five (5) Short Answer Type questions representing all units/ syllabi (At least one question from each unit) with a limit of 70 to 80 words and having Three (3) marks for each question. Section- B comprises of Five (5) Medium Answer Type questions representing all units/ syllabi (Atleast one question from each unit) with a limit of 250-350 words and having Seven (7) marks for each question. Section- C comprises of Four or Five (4/5) Long Answer Type questions representing all units/ syllabi. Candidates shall be required to attempt two (2) questions of fifteen (15) marks each. Answer should be limited to 500- 600words

Books Recommended

1. Chandna, R.C. (2010) Population Geography, Kalyani Publisher.
2. Daniel, P.A. and Hopkinson, M.F. (1989) The Geography of Settlement, Oliver & Boyd, London.
3. Johnston R; Gregory D, Pratt G. et al. (2008) The Dictionary of Human Geography, Blackwell Publication.
4. Jordan-Bychkov et al. (2006) The Human Mosaic: A Thematic Introduction to Cultural Geography. W. H. Freeman and Company, New York.
5. Kaushik, S.D. (2010) Manav Bhugol, Rastogi Publication, Meerut.
6. Maurya, S.D. (2012) Manav Bhugol, Sharda Pustak Bhawan. Allahabad.
7. Ghosh, S. (2015) Introduction to settlement geography. Orient Black Swan Private Ltd., Kolkata.
8. Hussain, Majid (2012) Manav Bhugol. Rawat Publications, Jaipur.
9. Hussain, Majid (2010) Human Geography.
10. Husain Majid (2012). Evolution of Geographic Thoughts

DISCIPLINE SPECIFIC ELECTIVE

Detailed Practical Syllabus in Geography for B.A/ B. Sc Semester- V under CBCS for the Examination to be held in December 2018, 2019 and 2020

Course Code: UGOPE- 502

Credits: 2

Title: Statistical Techniques in Geography

Total Marks: 50

Internal: 25

External: 25

Practical Semester – 5th: Statistical Techniques in Geography

Unit-I

- 1.1. Quantitative Geography: Introduction and Significance.
- 1.2. Statistical Data: Definition, Types of Data, Sources of Primary and Secondary Data.
- 1.3. Methods of Data Collection.
- 1.4. Tabulation and Analysis of Data

Unit-II

- 2.1. Definition of Central tendency and its application in Geography
- 2.2. Merits and Demerits of Central Tendency.
- 2.2 Measures of Central Tendency: Methods and their Merits and Demerits.
- 2.3 Quantitative Analysis: Mean, Median and Mode

Unit-III

- 3.1 Definition of Measures of Dispersions and its role in geographical studies.
- 3.2. Merits and Demerits Measures of Dispersions.
- 3.3 Measures of Dispersions: Methods and their Merits & Demerits
- 3.4 Quantitative Analyses: Mean Deviation, Quartile Deviation and Standard Deviation

Unit-IV

- 4.1. Correlation: Introduction and their Merits and Demerits.
- 4.2. Methods of Correlation and their Merits and Demerits
- 4.3. Quantitative Analyses: Karl Pearson Product Moment Method and Spearman Rank Correlation Method.
- 4.4. Important techniques for drawing of statistical diagrams.

NOTE FOR PAPER SETTER:

Practical Examination/ Evaluation

a. Internal Marks: 25

Attendance: 5 Marks

Daily Performance: 10 Marks

Test and Viva: 10 Marks

b. External Marks: 25

Test: 20 Marks

Viva: 5 Marks

External practical test will be conducted in one session. Question paper will be set from all four units. Two questions from each unit and student will be required to attempt one question from each unit. Each question carries 5 marks.

Books Recommended:

1. Alvi Zamir, Statistical Geography, Rawat Publications, Jaipur and New Delhi.
2. Ishtiaque M, A Textbook of Practical Geography, Heritage Publishers, Ansari Road, Daryaganj, New Delhi.
3. Mahmood Aslam, Statistical Methods in Geographical Studies, Rajesh Publications, New Delhi, 2002.

4. Pal S.K, Statistics for Geoscientists- Techniques and Application, Concept Publishing Company, New Delhi, 1998.
5. Singh R.L and Dutt R.K., Elements of Practical Geography, Kalyani Publisher, New Delhi, 1979

SKILL ENHANCEMENT COURSE

Detailed Syllabus in Geography for B.A/ B. Sc Semester- V under CBCS for the Examination to be held in December 2018, 2019 and 2020.

Course Code: UGOTS- 503
Credits: 4
Internal I: 40 (2 hrs)

Title: Geography of Tourism
Total Marks: 100
Internal Final: 60 (3 hrs)

Note: The objective of this paper is to aware the students in Geography of Tourism.

Unit – I

1. Concepts and definition of Geography of Tourism.
2. Nature and Scope Geography of Tourism.
3. Inter-Relationships of Tourism, Recreation and Leisure.

Unit – II

1. Geographical Parameters of Tourism by Robinson.
2. Type of Tourism: Natural Cultural, Medical Tourism.
3. Difference between Pilgrimage and tourism and Heritage tourism.

Unit - III

1. Recent Trends of Tourism: International and Regional; Domestic (India).
2. Eco- Tourism, Sustainable Tourism, Meetings, Incentives, Conventions and Exhibitions.
3. Impact of Tourism: Economy; Environment; Society.

Unit - IV

1. Tourism in India: Tourism Infrastructure; Case Studies of Himalaya, Desert and Coastal areas.
2. Tourism in Jammu and Kashmir: important destinations and flow of domestic, national, and international tourist.
3. National Tourism Policy.

Note: Examination Scheme for Skill Enhancement Course.

Internal- I	Syllabus to be covered in the Exam	Weightage (Marks)	Duration
1. Five Theoretical Questions of Four (4) marks each. (20 Marks). 2. Two Practical Exercise from each unit, students have to attempt one question from each unit of ten (10) marks each. (20 Marks)	50 % syllabus i.e. two units.	40	2 hrs
Internal Final	Syllabus to be covered in the Exam	Weightage (Marks)	Duration
1. Five Theoretical Questions of Four (4) marks each. (20 Marks). 2. Eight Practical Exercises, two from each unit. Students have to attempt one question from each unit of Ten (10) marks each. (40 marks)	100 % syllabus	60	3 hrs

Books Recommended

1. Dhar, P.N. (2006) International Tourism: Emerging Challenges and Future Prospects. Kanishka, New Delhi.
2. Hall, M. and Stephen, P. (2006) Geography of Tourism and Recreation ó Environment, Place and Space, Routledge, London.
3. Kamra, K. K. and Chand, M. (2007) Basics of Tourism: Theory, Operation and Practise, Kanishka Publishers, Pune.
4. Page, S. J. (2011) Tourism Management: An Introduction, Butterworth- Heinemann- USA.
5. Raj, R. and Nigel, D. (2007) Morpeth Religious Tourism and Pilgrimage Festivals Management: An International perspective by, CABI, Cambridge, USA.
6. Tourism Recreation and Research Journal, Center for Tourism Research and Development, Lucknow.
7. Singh Jagbir (2014) øEco-Tourismö Published by - I.K. International Pvt. Ltd.

GENERIC ELECTIVE (GE)

Detailed Syllabus in Geography for B.A / B. Sc Semester- V under CBCS for the Examination to be held in December 2018, 2019 and 2020

Course Code: UGOTE- 504

Title: Physical Geography

Credits: 6

Duration: 2:30 Hours

Total Marks: 100
End Semester Exam: 80

Internal Assessment: 20

Note: The objective of this course is to introduce the latest concepts of Physical Geography essentially Geomorphology to the students in a brief but adequate manner.

Unit ó 1 Fundamentals of Physical Geography

- 1.1 Origin & Evolution of the earth
- 1.2 Interior of the earth
- 1.3 Earthquakes Causes and Types
- 1.4 Volcanoes Causes and Types

Unit ó II Landforms

- 2.1. Rock; Major types of rocks
- 2.2 Weathering and erosion
- 2.3 Soil and its formation.

Unit - III

- 3.1 Weather & Climate concept
- 3.2 Atmosphere: Structure & Composition
- 3.3 Isolation
- 3.4. Pressure belt and winds

Unit-IV Vegetation & Soil

- 4.1 Forests Types & distribution.
- 4.2 Major soil types
- 4.3 Soil erosion
- 4.4 Soil conservation.

Unit-V Hazards & Disasters

- 4.1 Floods
- 4.2 Droughts
- 4.3 Cyclones
- 4.4 Landslides

Note for Paper Setting:

The question paper shall comprise of three sections i.e. A, B and C. Section A and B are compulsory. Section- A comprises of Five (5) Short Answer Type questions representing all units/ syllabi (At least one question from each unit) with a limit of 70 to 80 words and having Three (3) marks for each question. Section- B comprises of Five (5) Medium Answer Type questions representing all units of syllabi (At least one question from each unit) with a limit of 250- 350 words and having Seven (7) marks for each question. Section- C comprises of Four or Five (4/5) Long Answer Type questions representing all units of syllabi. Candidates shall be required to attempt two (2) questions of fifteen (15) marks each. Answer should be limited to 500- 600 words for each question.

Books Recommended

1. Monkhouse, F.J: Principles of Physical Geography' Hodder and Stoughton, London,1960.
2. Singh, Savindra; Physical Geography, Prayag Pustak Bhawan, 2017.
3. Strahler, A.N, Environmental Geo Science, Hamillon Santa Barbara, 1973,
4. Strahler, A. N., and Strahler. A. H., Modern Physical Geography Wiley and Sons, Revised Edition, 1992.
5. Thornbury W.D., Principles of Geomorphology' Wiley 1969.
6. Wooldrige S.W. and Morgan, R.S., The Physical Basis of Geography and Geomorphology, Longman Green & Co. London' 1959

DISCIPLINE SPECIFIC ELECTIVE

Detailed Syllabus in Geography for B.A/ B. Sc Semester- VI under CBCS for the Examination to be held in May 2019, 2020 and 2021

Course Code: UGOTE-601
Credits: 4 Total Marks: 100
End Semester Exam: 80

Title: Geography of Asia
Duration: 2½ Hours
Internal Assessment: 20

Note: The objective of the course is to introduce the world geographical scenario and latest changes being experienced in the world.

Unit- 1

- 1.1.Asia is in the context of world
- 1.2.Pysiographic Divisions of Asia
- 1.3.Major forest types of Asia.
- 1.4.Drainage systems of Asia.

Unit- II

- 2.1. Types and characteristics of Soils in the Asia.
- 2.2. Origin of Agriculture in the Asia.
- 2.3. Distribution and Production of Rice, Wheat, Tea in the Asia.
- 2.4. Globalization and Commercialization of agricultural resources.

Unit- III

- 3.1. Factors affecting the localization of major industries in the Asia
- 3.2. Important industrial belts of the Asia.
- 3.3. Distribution and Production of cotton textiles, iron and steel industries in Asia.
- 3.4. Transport: Major Road, railway, waterway, airway and pipeline networks.

Unit- IV

- 4.1. Distribution and density of Population in Asia.
- 4.2. Important Urban Center in Asia.
- 4.3. Population growth rate of Asia.
- 4.4. Population Problems of Asia.

Unit- V

- 5.1. Functions and importance of ASEAN
- 5.2. SAARC (South Asian Association for Regional Cooperation),
- 5.3. SAFTA: South Asia Free Trade Agreement
- 5.4. OPEC: Organization of the Petroleum Exporting countries and (CIS) Commonwealth of Independent States.

Note for Paper Setting:

The question paper shall comprise of three sections i.e. A, B and C. Section A and B are compulsory. Section- A comprises of Five (5) Short Answer Type questions representing all units/ syllabi (Atleast one question from each unit) with a limit of 70 to 80 words and having Three (3) marks for each question. Section- B comprises of Five (5) Medium Answer Type question representing all units/ syllabi (Atleast one question from each unit) with a limit of 250-350 words and having Seven (7) marks for each question. Section- C comprises of Four or Five (4/5) Long Answer Type questions representing all units/ syllabi. Candidates shall be required to attempt two (2) questions of fifteen (15) marks each. Answer should be limited to 500- 600words

Books Recommended

1. Alexander J. W., 1963: Economic Geography, Prentice-Hall Inc., Englewood Cliffs, New Jersey.
2. Coe N. M., Kelly P. F. and Yeung H. W., 2007: Economic Geography: A Contemporary Introduction, Wiley-Blackwell.
3. Hodder B. W. and Lee Roger, 1974: Economic Geography, Taylor and Francis.
4. Combes P., Mayer T. and Thisse J. F., 2008: Economic Geography: The Integration of Regions and Nations, Princeton University Press.
5. Tirtha, Ranjit: Geography of Asia: Rawat Publication, Jaipur.
6. Bagchi-Sen S. and Smith H. L., 2006: Economic Geography: Past, Present and Future, Taylor and Francis.
7. Willington D. E., 2008: Economic Geography, Husband Press.
8. Clark, Gordon L.; Feldman, M.P. and Gertler, M.S., eds. 2000: The Oxford
9. Tikka, R. N. Geography of Asia: New Academis Publication, Jalandhar.

DISCIPLINE SPECIFIC ELECTIVE

Detailed Practical Syllabus in Geography for B.A/ B. Sc Semester- VI under CBCS for the Examination to be held in May 2019, 2020 and 2021

Course Code: UGOPE- 602

Credits: 2

Title: Field Study and Field Report

Total Marks: 50

Internal: 25

External: 25

Unit- 1

- 1.1. Field Work in Geographical Studies ó Role, Value, Data and Ethics of Field-Work
- 1.2. Defining the Field and Identifying the Case Study ó Rural / Urban / Physical / Human / Environmental.

Unit- II

Field Techniques ó Merits, Demerits and Selection of the Appropriate Technique; Observation (Participant / Non Participant), Questionnaires (Open/ Closed / Structured / Non-Structured); Interview with Special Focus on Focused Group Discussions; Space Survey (Transects and Quadrants,

Unit- III

Collection of information and data from the field with the field survey

Unit- IV

Designing the Field Report ó Aims and Objectives, Methodology, Analysis, Interpretation and Writing of the Report.

NOTE FOR PAPER SETTER:

Practical Examination/ Evaluation

a. Internal Marks: 25

Attendance: 5 Marks

Internal Evaluation of Report and Viva: 20 Marks

b. External Marks: 25

Evaluation of Report and Viva: 25 Marks

Books Recommended

1. Creswell J., 1994: *Research Design: Qualitative and Quantitative Approaches* Sage Publications.
2. Dikshit, R. D. 2003. *The Art and Science of Geography: Integrated Readings*. Prentice-Hall of India, New Delhi.
3. Evans M., 1988: "Participant Observation: The Researcher as Research Tool" in *Qualitative Methods in Human Geography*, eds. J. Eyles and D. Smith, Polity.
4. Stoddard R. H., 1982: *Field Techniques and Research Methods in Geography*, Kendall/Hunt.
5. Wolcott, H. 1995. *The Art of Fieldwork*. Alta Mira Press, Walnut Creek, CA

SKILL ENHANCEMENT COURSE

Detailed Syllabus in Geography for B.A/ B. Sc Semester- VI under CBCS for the Examination to be held in May 2019, 2020 and 2021

Course Code: UGOTS- 603 (Skill Enhancement)

Credits: 4

Internal I: 40 (2 hrs)

Title: Disaster Management

Total Marks: 100

Internal Final: 60 (3 hrs)

Note: The objective of this paper is to train the students in dealing with natural and manmade disasters.

Unit – 1

1. Definition and Concepts of disasters.
2. Nature and types of disasters.
3. Hazards, Risk, Vulnerability and Disasters.

Unit - 2

1. Cause and Consequence of disasters.
2. History of disasters in India
3. History of disasters in J&K.

Unit – 3

1. Causes, Impact, Distribution of Floods, Landslide, Drought in India.
2. Causes, Impact, Distribution and Mapping: Earthquake, Tsunami and Cyclone.
3. Causes, Impact, Distribution of Human induced disasters in India.

Unit - 4

1. Response and Mitigation to Disasters: Mitigation and Preparedness, NDMA and NIDM.
2. Indigenous Knowledge and Community-Based Disaster Management.
3. Do's and Don'ts During Disasters.

Note: Examination Scheme for Skill Enhancement Course.

Internal- I	Syllabus to be covered in the Exam	Weightage (Marks)	Duration
3. Five Theoretical Questions of Four (4) marks each. (20 Marks). 4. Two Practical Exercise from each unit, students have to attempt one question from each unit of ten (10) marks each. (20 Marks)	50 % syllabus i.e. two units.	40	2 hrs
Internal Final	Syllabus to be covered in the Exam	Weightage (Marks)	Duration
3. Five Theoretical Questions of Four (4) marks each. (20 Marks). 4. Eight Practical Exercises, two from each unit. Students have to attempt one question from each unit of Ten (10) marks each. (40 marks)	100 % syllabus	60	3 hrs

Books Recommended

1. Government of India. (1997) Vulnerability Atlas of India. New Delhi, Building Materials & Technology Promotion Council, Ministry of Urban Development, Government of India.
2. Kapur, A. (2010) Vulnerable India: A Geographical Study of Disasters, Sage Publication, New Delhi.
3. Modh, S. (2010) Managing Natural Disaster: Hydrological, Marine and Geological Disasters, Macmillan, Delhi.
4. Singh, R.B. (2005) Risk Assessment and Vulnerability Analysis, IGNOU, New Delhi.
5. Singh, R. B. (ed.), (2006) Natural Hazards and Disaster Management: Vulnerability and Mitigation, Rawat Publications, New Delhi.
6. Sinha, A. (2001). Disaster Management: Lessons Drawn and Strategies for Future, New United Press, New Delhi.
7. Singh Jagbir (2007) Disaster Management Future Challenges and Opportunities, 2007. Publisher- I.K. International Pvt. Ltd. S-25, Green Park Extension, Uphaar Cinema Market, New Delhi, India.

OR

SKILL ENHANCEMENT COURSE

**Detailed Syllabus in Geography for BA/ B. Sc Semester- VI under CBCS for
the Examination to be held in May 2019,2020 and 2021.**

Course Code: UGOTS- 603

Credits: 4

Title: Remote Sensing and GPS

Total Marks : 100

Internal 1 : 40 (2 hrs)

Internal Final : 60 (3 hrs)

Note: The objective of this paper is to aware the students about the Remote Sensing Techniques.

UNIT-I

Introduction of Remote Sensing: History of Remote Sensing, Energy sources and radiation Principles, EMR and Spectrum EMR Interaction with Atmosphere and Earth Surface, Types of Remote Sensing and Resolution.

UNIT- II

Aerial Photography and Photogrammetry: Geometry and Types of Aerial Photographs, Photographic Interpretation and Application of Aerial Photos.

UNIT – III

Satellite Remote Sensing Principles: Data Acquisition Procedure, Platforms and sensors, orbit types, Land observation Satellites character and application

UNIT – IV

Introduction to GPS: Overview of GPS, GPS segments, Current GPS Satellite Constellation, GPS Signals and GPS Application.

UNIT-V

Application of Remote Sensing: Agriculture, Natural Resource Management and Urban and Rural Planning.

Note: Examination Scheme for Skill Enhancement Course.

Internal- I	Syllabus to be covered in the Exam	Weightage (Marks)	Duration
1. Five Theoretical Questions of Four (4) marks each. (20 Marks) 2. Two Practical Exercise from each unit students have to attempt one question from each unit of ten (10) marks each. (20 Marks)	50 % syllabus i.e. two units.	40	2 hrs
Internal Final	Syllabus to be covered in the Exam	Weightage (Marks)	Duration
1. Five Theoretical Questions of Four (4) marks each. (20 Marks) 2. Eight Practical Exercises, two from each unit Students have to attempt one question from each unit of Ten (10) marks each. (40 marks)	100 % syllabus	60	3 hrs

Books Recommended

1. Bhatta, B. (2010) Analysis of Urban Growth and Sprawl from Remote Sensing, Springer, Berlin Heidelberg.
2. Burrough, P.A., and McDonnell, R.A. (2000) Principles of Geographical Information System-Spatial Information System and Geo-statistics. Oxford University Press
3. Chauniyal, D.D. (2010) Sudur Samvedan evam Bhogolik Suchana Pranali, Sharda Pustak Bhawan, Allahabad
4. Heywoods, I., Cornelius, S and Carver, S. (2006) An Introduction to Geographical Information system. Prentice Hall.
5. Jha, M.M. and Singh, R.B. (2008) Land Use: Reflection on Spatial Informatics Agriculture and Development, New Delhi: Concept.
6. Nag, P. (2008) Introduction to GIS, Concept India, New Delhi.
7. Sarkar, A. (2015) Practical geography: A systematic approach. Orient Black Swan Private Ltd., New Delhi
8. Singh, R.B. and Murai, S. (1998) Space Informatics for Sustainable Development, Oxford and IBH, New Delhi.

GENERIC ELECTIVE (GE)

Detailed Syllabus in Geography for B.A/ B. Sc Semester- VI under CBCS for the Examination to be held in May 2019, 2020 and 2021

Course Code: UGOTS- 604

Credits: 4

Time: 2.30 hrs.

Title: Human Geography

Total Marks: 100

External Marks: 80

Internal Marks: 20

Objectives: The Objective of this course to give an over view of different aspects of Human Geography with detail analysis of burning issues of the subject at global level.

Unit-I

- 1.1 Human Geography
- 1.2 Distribution & density of Population
- 1.3 Growth of Population
- 1.4 Factors responsible for growth & density of population

Unit-II

- 2.1 Rural Settlement types and distribution.
- 2.2 Urban Settlement types and distribution.
- 2.3 Functional classification of Settlement.
- 2.4 Problems of slums.

Unit-III

- 3.1 Human Activities, Primary Activities, Concepts and examples.
- 3.2 Secondary Activities concept and examples
- 3.3 Tertiary Activities concept and examples
- 3.4 Quaternary Activities concept and examples

Unit-IV

- 4.1 Definition & meaning of resources
- 4.2 Classification of resources.
- 4.3 Conservation of resources.
- 4.4 Renewable and non renewable.

Unit-V Transport system

- 5.1 Land transport.
- 5.2 Air transport.
- 5.3 Water Transport.

5.4 Oil and Gas pipelines

Note for Paper Setting:

The question paper shall comprise of three sections i.e. A, B and C. Section A and B are compulsory. Section- A comprises of Five (5) Short Answer Type questions representing all units of syllabi (At least one question from each unit) with a limit of 70 to 80 words and having Three (3) marks for each question. Section- B comprises of Five (5) Medium Answer Type questions representing all units of syllabi (At least one question from each unit) with a limit of 250- 350 words and having Seven (7) marks for each question. Section- C comprises of Four or Five (4/5) Long Answer Type questions representing all units of syllabi. Candidates shall be required to attempt two (2) questions of fifteen (15) marks each. Answer should be limited to 500- 600 words for each question.

Books Recommended -

- 1 Chandana, R.C. (2010) Population Geography, Kalyani Publisher
- 2 Singh L.R. "Fundamentals of Human Geography., Sharda Pustak Bhawan 2003, Allahabad.
- 3 Johnston R, Gregory D, Pratt G. et al (2008) The Dictionary of Human Geography.
- 4 Gosh, S (2015) Introduction to Settlement Geography. Orient Black Swan Private Ltd., Kolkata
- 5 Hussain, Majid (2012) Manav Bhugol. Rawat Publications, Jaipur.
6. Human and Economic Geography (Oxford in Asia College Texts)
- 7 Kaushik, S.D. (2010), Manav Bhugol. Rastogi Publications, Meerute.
- 8 Daniel, P.A. and Hopkinson, M.F (1989), the Geography of Settlement, Oliver and Boyd, London.