

University of Jammu
Syllabus of Geography at FYUP under CBCS as per NEP – 2020
Semester- V
(Examination to be held in December 2024, 2025 and 2026)

Major Course

Course Code:	UMJGOT-501
Course Title:	Population Geography
Credits:	4 (3Th +1P)
Total No. of Lecturers (Theory)	45
Total No. of Lecturers (Practical)	30
Duration of Exam (Theory)	3 Hours
Duration of Exam (Practical)	1 ½ Hours
Total Marks:	100
Theory	75 Marks End Exam: 60 Marks Mid Semester Assessment Test: 15 Marks
Practical	25 Marks Continuous Assessment: 10 Marks Final Examination: 15 Marks

Note: The objective of this course is to introduce the students with the latest concepts in the field of Population Geography

PART – 1: THEORY

Unit I:

- 1.1. Definition, Nature and Scope of Population Geography.
- 1.2. Sources of Population Data
- 1.3. Types of Population Data
- 1.4. Needs and Methods of Data Collection

Unit II:

- 2.1. Factors affecting the distribution and density of Population.
- 2.2. Distribution and Growth of Population.
- 2.3. Malthusian Theory of Population
- 2.4. Demographic Transition Theory.

Unit III:

- 3.1. Component of population Change: Fertility and Mortality
- 3.2. Concept of over, under and optimum population
- 3.3. Causes and types of Migration
- 3.4. Measures, Determinants and Implications of Migration.

Unit IV:

- 4.1. Age-Sex Composition of Population
- 4.2. Occupational Structure
- 4.3. Sex Ratio
- 4.4. Population Problems



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NOTE FOR PAPER SETTING

End Examination

There will be two sections in the end examination. Section "A" shall consist of Four (4) short answer questions having one question from each unit. The students are required to attempt all the questions. Each question shall be of three (3) marks. Section "B" shall consist of Eight (8) long answer questions having two questions from each unit. The students are required to attempt four (4) questions selecting one question from each unit. Each question shall carry 12 Marks.

Internal Assessment

Internal Assessment test will be conducted after the completion of fifty percent course of syllabi of theory part. There will be two sections A and B. Section A shall comprises of two questions from first two units and students are required to attempt any one question. Each question shall carry five marks. Section B shall consist of five questions of two marks each and students are required to attempt all the five questions.

Books Recommended

1. Chandna R. C. and Sidhu M. S., 1980: An Introduction to Population Geography, Kalyani Publishers.
2. Barrett H. R., 1995: Population Geography, Oliver and Boyd.
3. Bhende A. and Kanitkar T., 2000: Principles of Population Studies, Himalaya Publishing House.
4. Clarke J. I., 1965: Population Geography, Pergamon Press, Oxford.
5. Jones, H. R., 2000: Population Geography, 3rd ed. Paul Chapman, London.
6. Lutz W., Warren C. S. and Scherbov S., 2004: The End of the World Population Growth in the 21st Century, Earthscan.
7. Newbold K. B., 2009: Population Geography: Tools and Issues, Rowman and Littlefield Publishers.
8. Pacione M., 1986: Population Geography: Progress and Prospect, Taylor and Francis.
9. Wilson M. G. A., 1968: Population Geography, Nelson.
10. Panda B P (1988): JanasankyaBhugol, M P Hindi Granth Academy, Bhopal
11. Maurya S D (2009) JansankyaBhugol, Sharda Putak Bhawan, Allahabad
12. Chandna, R C (2006), JansankhyaBhugol, Kalyani Publishers, Delhi


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PART – 2: PRACTICALS: Map Projections -1

Unit-I

- 1.1. Difference between Globe and Map
- 1.2. Calculation of graticule (longitude and latitude)
- 1.3. Definition and elements of Map projections
- 1.4. Methods of transfer of graticule on flat sheet of paper.

Unit-II

- 2.1. General Principles of Map projections.
- 2.2. Need and Importance of map projection.
- 2.2. Classification of Map Projection.
- 1.3. Choice of Map Projections

NOTE FOR PAPER SETTER:

Practical Examination/ Evaluation

- | | |
|--------------------------|------------------|
| a. Daily Performance: | 10 Marks |
| b. Attendance: | 05 Marks |
| c. Written Test and viva | 10 (8 + 2) Marks |

Practical test will be conducted in one session. Question paper will be set from two units. Two questions from each unit will be asked and students are required to attempt one question from each unit. Each question carries 4 marks.

Books Recommended

1. Mishra R.P. and Romesh A, Fundamentals of Cartography. Mc Millan Co. New Delhi, 1986.
2. Robinson, A.H. et.al: Elements of Cartography, John Wiley & Sons USA. 1995.
3. Sarkar, A., Practical Geography: A Systematic Approach' Logman, Calcutta, 1997.
4. Singh R.L. and Dutt R.K., Element of Practical Geography. Kalyani Publishers, New Delhi, 1979.

byc *schahel* *[Signature]*

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Semester- V
(Examination to be held in December 2024, 2025 and 2026)

Major Course

Course Code:	UMJGOT-502
Course Title:	Settlement Geography
Credits:	4 (3Th +1P)
Total No. of Lecturers (Theory)	45
Total No. of Lecturers (Practical)	30
Duration of Exam (Theory)	3 Hours
Duration of Exam (Practical)	1 ½ Hours
Total Marks:	100
Theory	75 Marks End Exam: 60 Marks Mid Semester Assessment Test: 15 Marks
Practical	25 Marks Continuous Assessment: 10 Marks Final Examination: 15 Marks

Note: The objective of this course is to expose the students with the areal differentiation of settlement patterns and the geographical parameters behind.

PART – 1: THEORY

Unit - I

- 1.1 Meaning and Definition of Settlement Geography.
- 1.2 Nature and Scope of Settlement Geography
- 1.3 Evolution of settlement studies in Geography.
- 1.4 Significance of Settlement Geography

Unit - II

- 2.1 Types of Settlements
- 2.2 Classification of urban settlements on the basis of size & functions.
- 2.3 Concept of Urban Sprawl
- 2.4 Concept of Urban Fringe.

Unit - III

- 3.1 Rural-Urban Continuum.
- 3.2 Morphology of Rural Settlements
- 3.3 Rural House Types
- 3.4 Rural Settlement Planning

Unit - IV

- 4.1 Contemporary Rural Issues.
- 4.2 Contemporary Urban Issues

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- 4.3 Central Business District- Concept and features.
- 4.4 Urban land use Model of Harris

NOTE FOR PAPER SETTING

End Examination

There will be two sections in the end examination. Section "A" shall consist of Four (4) short answer questions having one question from each unit. The students are required to attempt all the questions. Each question shall be of three (3) marks. Section "B" shall consist of Eight (8) long answer questions having two questions from each unit. The students are required to attempt four (4) questions selecting one question from each unit. Each question shall carry 12 Marks.

Internal Assessment

Internal Assessment test will be conducted after the completion of fifty percent course of syllabi of theory part. There will be two sections A and B. Section A shall comprises of two questions from first two units and students are required to attempt any one question. Each question shall carry five marks. Section B shall consist of five questions of two marks each and students are required to attempt all the five questions.

Books Recommended:

1. Daniel, P., Geography of Settlement. Rawat Publications., Jaipur and New Delhi, 2002.
2. Ehrlich, P.R. and Ehrlich, A.H., Ecoscience: Population, Resources, Environment. 6th ed. W.H. Freeman and Company, San Francisco, 1996.
3. Eidt, R. C., Singh, K. N. and Singh, Rana, P.B., (eds.), Man, Culture and Settlement. Kalyani Publishers., New Delhi, 1977
4. Ghosh, S., Geography of Settlements. Orient Longman, Kolkata, 1999.
5. Hudson, F. S., Geography of Settlements. MacDonal and Evans, New York, 1976.
6. Mitra, A., Report on House Types and Village Settlement Patterns in India. Publication Division, Govt. of India, New Delhi, 1960.
7. Singh, R.Y., Geography of Settlements. Rawat Publications., Jaipur and New Delhi, 2003.



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PART – 2: PRACTICALS: Map Projections -II

Unit-I

- 1.1. Properties, Merits and Demerits of Simple Cylindrical Map Projection.
- 1.2. Construction of Simple Cylindrical Map Projections.
- 1.3. Properties, Merits and Demerits of Cylindrical Equal Area Map Projection.
- 1.4. Construction of Cylindrical Equal Area Map Projection

Unit - II

- 2.1. Properties, Merits and Demerits of Conical Map Projections with one Standard Parallel
- 2.2. Construction of Conical Map Projections with one Standard Parallel
- 2.3. Properties, Merits and Demerits of Conical Map Projections with two Standard Parallel
- 2.4. Construction of Conical Map Projections with two Standard Parallel

NOTE FOR PAPER SETTER:

Practical Examination/ Evaluation

- | | |
|--------------------------|------------------|
| a. Daily Performance: | 10 Marks |
| b. Attendance: | 05 Marks |
| c. Written Test and viva | 10 (8 + 2) Marks |

Practical test will be conducted in one session. Question paper will be set from two units. Two questions from each unit will be asked and students are required to attempt one question from each unit. Each question carries 4 marks.

Books Recommended

5. Mishra R.P. and Romesh A, Fundamentals of Cartography. Mc Millan Co. New Delhi, 1986.
6. Robinson, A.H. et.al: Elements of Cartography, John Wiley & Sons USA, 1995.
7. Sarkar, A., Practical Geography: A Systematic Approach' Logman, Calcutta, 1997.
8. Singh R.L. and Dutt R.K., Element of Practical Geography. Kalyani Publishers, New Delhi, 1979.

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Major Course

Course Code:	UMJGOT-503
Course Title:	Geography of Rural Development
Credits:	4 (3Th +1P)
Total No. of Lecturers (Theory)	45
Total No. of Lecturers (Practical)	30
Duration of Exam (Theory)	3 Hours
Duration of Exam (Practical)	1 ½ Hours
Total Marks:	100
Theory	75 Marks End Exam: 60 Marks Mid Semester Assessment Test: 15 Marks
Practical	25 Marks Continuous Assessment: 10 Marks Final Examination: 15 Marks

Note: The objective of this course is to introduce the student with the types of rural settlements and life style of rural people.

PART – 1: THEORY

Unit-I: Introduction to Rural Development

- 1.1 Meaning and Definition of Rural Development.
- 1.2 Significance of Rural Development.
- 1.3 Approaches to Rural Development- Sectoral, Participatory and Gandhian Approach.
- 1.4 Socio-Economic Structure of Rural India.

Unit-II: Agriculture and Rural Development in India.

- 2.1 Role of Agriculture in Rural Development.
- 2.2 Land-use Classification
- 2.3. Land-use Planning.
- 2.4 Farm technology in India – HYV Seeds and Chemical fertilizers

Unit-III: Programmes and Schemes for Rural Development in India.

- 3.1 Pradhan Mantri Grameen Sadak Yojana (PMGSY)
- 3.2 National Food for Work Programme.
- 3.3 National Rural Livelihood Mission (NRLM).
- 3.4 Integrated Rural Development Program (IRDP).

Unit-IV: Financial and Social Institutions

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- 4.1 Role of NABARD for Rural Development.
- 4.2 Rural Industries and its types.
- 4.3 Role of Rural Industries for Rural Development in India.
- 4.4 Role of Panchayati Raj Institution for Rural Development.

Books Recommended:

1. Mishra, R.P., Rural Area Development, Concept Publishing House, New Delhi, 1980.
2. Prashad, K.N., India's Rural Problems, Concept Publishing Company, New Delhi, 1991.
3. Rao, VISP, Development Strategy for an Agricultural Region, I.D.S. University of Mysore, 1976.
4. Rural Development: Principles, Policies and Management, Sage publication India Pvt. Ltd. 2009.
5. Sharma, S.K., Dynamics of Development, Concept Publishing House, New Delhi, 1977.
6. Swaminathan, M.D., Science and Integrated Rural Development, Concept Publishing House, New Delhi, 1987.

PART – 2: PRACTICALS: Map Projections -III

Unit: 1

- 3.1. Properties, Merits and Demerits of Zenithal Equal Area Map Projection.
- 3.2 Construction of Zenithal Equal Area Map Projection
- 3.2 Properties, Merits and Demerits of Zenithal Equidistant Map Projection.
- 3.4 Construction of Zenithal Equidistant Map Projection

Unit: 2

- 2.1. Properties, Merits and Demerits of Sinusoidal Map Projection.
- 2.2. Construction of Sinusoidal Map Projection
- 2.3. Properties, Merits and Demerits of Mollweide Map Projection.
- 2.4. Construction of Mollweide Map Projection

NOTE FOR PAPER SETTER:

Practical Examination/ Evaluation

- | | |
|--------------------------|------------------|
| a. Daily Performance: | 10 Marks |
| b. Attendance: | 05 Marks |
| c. Written Test and viva | 10 (8 + 2) Marks |

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Practical test will be conducted in one session. Question paper will be set from two units. Two questions from each unit will be asked and students are required to attempt one question from each unit. Each question carries 4 marks.

Books Recommended:

1. Khullar D.R Essentials of Practical Geography New Academic Publishing Co. Jalandhar India 2018.
2. Fritz Kessler, Sarah Battersby Working with Map Projections: A Guide to their Selection Paperback – May 2019.
3. N. K. Agrawal Essentials of Geodesy and Map Projections Geodesy GPS / BSP Books 2018.
4. Talukdar Suren Introduction to Map Projections Ebh Publishers (India); 1st Edition (1 January 2018).
5. Gopal Singh Map Work and Practical Geography. Vikas Publishing House, 01-Nov-2009.

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Major Course

Course Code:	UMJGOT-504
Course Title:	Environmental Geography
Credits:	2
Total Numbers of Lecturers	30
Total Marks:	50
Duration End Semester Exam	2 ^{1/2} Hours
End Semester Exam	50 Marks End Exam: 40 Marks Mid Semester Assessment Test : 10 Marks

Note: The objective of this course is to provide the basic concept of environment around us.

Unit – 1

- 1.1. Meaning and Concept of Environment.
1. 2. Major elements of environment.
1. 3. Nature and Scope of Environmental Geography.
1. 4. Significance of Environmental Geography.

UNIT-2

- 2.1. Concept of Ecosystem and Ecology.
- 2.2. Components of the Ecosystem
- 2.3. Trophic Levels
- 2.4. Food chains and food webs.

UNIT-3

3. 1. Contemporary issues and challenge
3. 2. Global Warming
3. 3. Environmental Pollution
- 3.4. Concept of Sustainable Development



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NOTE FOR PAPER SETTING/ MODE OF EXAMINATION:

End Term Examination

There will be two sections in the end examination. Section "A" shall consist of Four (4) short answer questions having one question from each unit. The students are required to attempt all the questions. Each question shall be of two and half (2^{1/2}) marks. Section "B" shall consist of Six (6) long answer questions having two questions from each unit. The students are required to attempt Three (3) questions selecting one question from each unit. Each question shall carry Ten (10) Marks.

Internal Assessment Test

Internal Assessment test will be conducted after the completion of fifty percent course of syllabi of theory part. The question paper for internal assessment test shall consist of five questions of two marks each and students are required to attempt all the five questions.

Books Recommended:

1. Beeby, Alan; Annie Brennan: First Ecology: Ecological Principles and Environmental Issues, 3rd Edition Oxford University Press, 2008.
2. Brar, Karanjot Kaur, Green Revolution: Ecological Implications, Dominant Publishers, Delhi, 1999.
3. Chandna, R.C., Environmental Awareness, Kalyani Publishers, New Delhi, 1998.
4. Dhabriya, S.S., Desert Spread and Desertification: An Analysis of the Identified Aravalli Gaps on the Desert Fringe, Environmental Research Publication-1, Environmentalist, Jaipur, 1988.
5. Ernst, W.G. (ed.), Earth Systems: Processes and Issues, Cambridge University Press, U.K., 2000.
6. Golley, Frank B., A Primer for Environmental Literacy, Universities Press (India) Limited, Hyderabad, 1998.
7. Kormondy, Edward J., Concepts of Ecology, Third Edition, Prentice-Hall of India, New Delhi, 1989.
8. Shafi, Mohammad and Mehdi Raza, Forest Ecosystems of the World, Rawat Publications, Jaipur, 1992.



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Minor Course

Course Code:	UMIGOT-505
Course Title:	Population Geography
Credits:	4 (3Th +1P)
Total No. of Lecturers (Theory)	45
Total No. of Lecturers (Practical)	30
Duration of Exam (Theory)	3 Hours
Duration of Exam (Practical)	1 ½ Hours
Total Marks:	100
Theory	75 Marks End Exam: 60 Marks Mid Semester Assessment Test: 15 Marks
Practical	25 Marks Continuous Assessment: 10 Marks Final Examination: 15 Marks

Note: The objective of this course is to introduce the students with the latest concepts in the field of Population Geography

PART – 1: THEORY

Unit I:

- 1.5. Definition, Nature and Scope of Population Geography.
- 1.6. Sources of Population Data
- 1.7. Types of Population Data
- 1.8. Needs and Methods of Data Collection

Unit II:

- 2.1. Factors affecting the distribution and density of Population.
- 2.2. Distribution and Growth of Population.
- 2.3. Malthusian Theory of Population
- 2.4. Demographic Transition Theory.

Unit III:

- 3.1. Component of population Change: Fertility and Mortality
- 3.2. Concept of over, under and optimum population
- 3.3. Causes and types of Migration
- 3.4. Measures, Determinants and Implications of Migration.

Unit IV:

- 4.1. Age-Sex Composition of Population
- 4.2. Occupational Structure
- 4.3. Sex Ratio
- 4.4. Population Problems



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NOTE FOR PAPER SETTING

End Examination

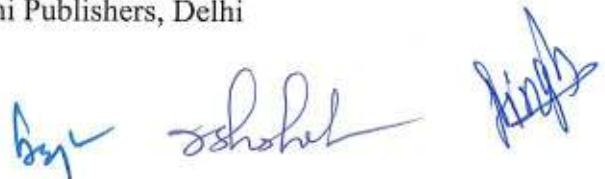
There will be two sections in the end examination. Section "A" shall consist of Four (4) short answer questions having one question from each unit. The students are required to attempt all the questions. Each question shall be of three (3) marks. Section "B" shall consist of Eight (8) long answer questions having two questions from each unit. The students are required to attempt four (4) questions selecting one question from each unit. Each question shall carry 12 Marks.

Internal Assessment

Internal Assessment test will be conducted after the completion of fifty percent course of syllabi of theory part. There will be two sections A and B. Section A shall comprises of two questions from first two units and students are required to attempt any one question. Each question shall carry five marks. Section B shall consist of five questions of two marks each and students are required to attempt all the five questions.

Books Recommended

1. Chandna R. C. and Sidhu M. S., 1980: An Introduction to Population Geography, Kalyani Publishers.
2. Barrett H. R., 1995: Population Geography, Oliver and Boyd.
3. Bhende A. and Kanitkar T., 2000: Principles of Population Studies, Himalaya Publishing House.
4. Clarke J. I., 1965: Population Geography, Pergamon Press, Oxford.
5. Jones, H. R., 2000: Population Geography, 3rd ed. Paul Chapman, London.
6. Lutz W., Warren C. S. and Scherbov S., 2004: The End of the World Population Growth in the 21st Century, Earthscan.
7. Newbold K. B., 2009: Population Geography: Tools and Issues, Rowman and Littlefield Publishers.
8. Pacione M., 1986: Population Geography: Progress and Prospect, Taylor and Francis.
9. Wilson M. G. A., 1968: Population Geography, Nelson.
10. Panda B P (1988): Janasankya Bhugol, M P Hindi Granth Academy, Bhopal
11. Maurya S D (2009) Jansankya Bhugol, Sharda Putak Bhawan, Allahabad
12. Chandna, R C (2006), Jansankhya Bhugol, Kalyani Publishers, Delhi



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PART – 2: PRACTICALS: Map Projections

Unit-I

- 1.5. Difference between Globe and Map
- 1.6. Calculation of graticule (longitude and latitude)
- 1.7. Definition and elements of Map projections
- 1.8. Methods of transfer of graticule on flat sheet of paper.

Unit-II

- 2.3. General Principles of Map projections.
- 2.4. Need and Importance of map projection.
- 2.2. Classification of Map Projection.
- 1.3. Choice of Map Projections

NOTE FOR PAPER SETTER:

Practical Examination/ Evaluation

- | | |
|--------------------------|------------------|
| d. Daily Performance: | 10 Marks |
| e. Attendance: | 05 Marks |
| f. Written Test and viva | 10 (8 + 2) Marks |

Practical test will be conducted in one session. Question paper will be set from two units. Two questions from each unit will be asked and students are required to attempt one question from each unit. Each question carries 4 marks.

Books Recommended

9. Mishra R.P. and Romesh A, Fundamentals of Cartography. Mc Millan Co. New Delhi, 1986.
10. Robinson, A.H. et.al: Elements of Cartography, John Wiley & Sons USA, 1995.
11. Sarkar, A., Practical Geography: A Systematic Approach' Logman, Calcutta, 1997.
12. Singh R.L. and Dutt R.K., Element of Practical Geography. Kalyani Publishers, New Delhi, 1979.

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SUMMER INTERNSHIP

Course Code:	USEGOI-506
Course Title:	Summer Internship
Credits:	2
End Semester Exam	50 Marks

Objectives

It shall be short term internship of 15 days duration in semester 5th for job/professional training in a suitable organization or hands on training or activity based course at College level in order to gain work experience.

All the students shall undergo internship/ apprenticeship in a firm, industry or organization or training in Labs with faculty and researchers in their own or other HEIs/Research Institution during the summer term. Students will be provided with the opportunities for internships with local industry, business organizations, health an allied areas, local government (such as Panchayat, Municipalities, Parliament or elected representatives, media organizations, artists, crafts person and a wide variety of organizations so that students may actively engage with the practical side of their learning and, as a byproduct further improve their employability.

Community engagements and Services

The curriculum component of community engagement and services seeks to expose the students to the socio-economic issues in society so that the theoretical learning can be supplemented by actual life experience to generate solutions to real life problems. This can part of summer internship activity.

Field based learning / Minor project.

The field based learning / minor project will attempt to provide opportunities for the students to understand the different socio-economic context. It will aim at giving students exposure to



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development related issues in rural and urban settings. It will provide opportunities for the students to observe situations in rural and urban contexts, and to observe and study actual field situations regarding issues related to socio- economic development. Student will be given opportunities to gain a firsthand understanding of the policies, regulations, organization structure, and process and programmes that guides the development process. They would have the opportunities to gain an understanding of the complex socio-economic problems in the community and innovate the practices required to generate solutions to the identified problems. This may be summer internship project.

Scheme of Examination

The internship shall be carried out with the guidance of College Teacher who will be designed as internship supervisor by the concern Principal from among the faculty members in the Department of Geography. After completion of summer internship students shall have to produce a report related to work carried out signed by Internship Supervisor and College Principal. The internship will be evaluated internally by Internship Supervisor. The minimum passing criteria for the summer internship is 40 percent. There will be no financial support to the students for carrying out the summer internship by the College.

Scheme of Internship

It shall be a short term internship of 15 days duration for a job/professional training in a suitable organization or hands on training or activity based course at College level in order to gain work experience. The internship shall be carried out with the guidance of College Teacher who will be designed as internship supervisor by the concern Principal from among the faculty members in the Department of Geography. After completion of summer internship students shall have to produce a report related to work carried out signed by Internship Supervisor and College Principal. The students have to compile the report in the given format.



1. Introduction
2. Nature of Work
3. Material and Methods
4. Results
5. Discussion
6. Conclusion
7. References

This structure shall allow the students to identify the problems and trace out the solutions by applying the skill and knowledge through a project.

Monitoring and Evaluations

The designated internship supervisor will monitor the progress and evaluate students' internship Course at the end of semester on the basis of internship report /seminar presentation/viva voce.

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Semester- VI
(Examination to be held in May/June, 2025, 2026 and 2027)

Major Course

Course Code:	UMJGOT-601
Course Title:	Disaster Management
Credits:	4 (3Th +1P)
Total No. of Lecturers (Theory)	45
Total No. of Lecturers (Practical)	30
Duration of Exam (Theory)	3 Hours
Duration of Exam (Practical)	1 ½ Hours
Total Marks:	100
Theory	75 Marks End Exam: 60 Marks Mid Semester Assessment Test: 15 Marks
Practical	25 Marks Continuous Assessment: 10 Marks Final Examination: 15 Marks

PART – 1: THEORY

Unit I

- 1.1. Hazards and Disasters
- 1.2. Natural Disasters
- 1.3. Man-made Disasters
- 1.4. Risk and Vulnerability in Disasters.

Unit II

- 2.1. Earthquake and its Management.
- 2.2. Flood and its Management.
- 2.3. Landslide and its Managements
- 2.4. Impact of Disasters.

Unit III

- 3.1. Basic Principles of Disasters Management.
- 3.2. Role and functions of NDRF and SDRF
- 3.3. Role and functions of NDMA.
- 3.4. Bhuj Earthquakes and Bhopal Gas Tragedy

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Unit IV

- 4.1. Usages of GIS and Remote sensing techniques in disaster management.
- 4.2. Disaster Management cycle.
- 4.3. Study of Recent Disasters (at local, UT and national level) And Preparation of Disaster Risk Management Plan of an Area or Sector.
- 4.4. Post Disaster effects and Remedial Measures.

NOTE FOR PAPER SETTING

End Examination

There will be two sections in the end examination. Section "A" shall consist of Four (4) short answer questions having one question from each unit. The students are required to attempt all the questions. Each question shall be of three (3) marks. Section "B" shall consist of Eight (8) long answer questions having two questions from each unit. The students are required to attempt four (4) questions selecting one question from each unit. Each question shall carry 12 Marks.

Internal Assessment

Internal Assessment test will be conducted after the completion of fifty percent course of syllabi of theory part. There will be two sections A and B. Section A shall comprises of two questions from first two units and students are required to attempt any one question. Each question shall carry five marks. Section B shall consist of five questions of two marks each and students are required to attempt all the five questions.

Books Recommended

1. Disaster Management, Dr. Mrinalini Pandey, Wiley India Pvt. Ltd.
2. Disaster Science and Management, Tushar Bhattacharya, McGraw Hill Education (India) Pvt. Ltd.
3. Disaster Management: Future Challenges and Opportunities, Jagbir Singh, K W Publishers Pvt. Ltd.
4. Biodiversity, Environment and Disaster Management, Shailesh Shukla, Shamna Hussain, Unique Publications.
5. Disaster Management and Preparedness, Nidhi Gauba Dhawan, Ambrina Sardar Khan, CBS Publishers and Distributors Pvt. Ltd.

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PART – 2: PRACTICALS: Statistical Techniques- I

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

NOTE FOR PAPER SETTER:

Practical Examination/ Evaluation

- | | |
|--------------------------|------------------|
| a. Daily Performance: | 10 Marks |
| b. Attendance: | 05 Marks |
| c. Written Test and viva | 10 (8 + 2) Marks |

Practical test will be conducted in one session. Question paper will be set from two units. Two questions from each unit will be asked and students are required to attempt one question from each unit. Each question carries 4 marks.

Books Recommended:

1. Aslam Mahmood: Statistical Methods in Geographical Studies, Rajesh Publications, New Delhi, 1993.
2. Saroj K. Paul : Statistics for Geoscientists : Techniques and Applications, Concept Publishing Company, New Delhi, 1998.
3. C. B. Gupta : An Introduction to Statistical Methods, Vikas Publishing House, Delhi, 1974.
4. S. Gregory, : Statistical Methods and the Geographers, Longman, London, 1964.
5. A. Reza Hoshmand (second edition), : Statistical Methods for Environmental and Agricultural Sciences, CRC Press, New York, 1998.
6. R. J. Johnston : Multivariate Statistical Analysis in Geography, Longman Scientific and Technical, John Wiley & Sons, 1989 (4th edition).
7. Rogerson. P.A. (2010), Statistical Methods for Geography, (A Student's Guide), 3rd Edition, Sage Publication, New Delhi



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Major Course

Course Code:	UMJGOT-602
Course Title:	Regional Geography of India
Credits:	4 (3Th +1P)
Total No. of Lecturers (Theory)	45
Total No. of Lecturers (Practical)	30
Duration of Exam (Theory)	3 Hours
Duration of Exam (Practical)	1 ½ Hours
Total Marks:	100
Theory	75 Marks End Exam: 60 Marks Mid Semester Assessment Test: 15 Marks
Practical	25 Marks Continuous Assessment: 10 Marks Final Examination: 15 Marks

Note: The Objective of this course is to introduce the students with the Geography of India

PART -1 THEORY

Unit-I

- 1.1 India's geopolitical position in South Asia
- 1.2 Physiographic Divisions of India.
- 1.3 Climate of India: Mechanism of Indian Monsoon, Jet Streams.
- 1.4 Drainage System of India

Unit-II

- 2.1 India: Soils (Types, Characteristics and Distribution).
- 2.2 India: Vegetation (Types, Characteristics and Distribution).
- 2.3 Mineral Resources of India: Iron Ore and Manganese.
- 2.4 Power Resources of India: Coal and Petroleum.

Unit-III

- 3.1 Indian Agriculture: Crops, Cropping pattern and farming system.
- 3.2 Green Revolution in India: Impact and Problems.

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3.3 Major Cereal Crops: Wheat and Rice, Distribution and Production.

3.4 Major Cash Crops: Cotton, Tea and Distribution and Production.

Unit-IV

4.1 Population distribution and growth in India.

4.2 Recent Population policy of India.

4.3 Migration and Urbanization trends.

4.4 Regional disparities and planning.

NOTE FOR PAPER SETTING

End Examination

There will be two sections in the end examination. Section "A" shall consist of Four (4) short answer questions having one question from each unit. The students are required to attempt all the questions. Each question shall be of three (3) marks. Section "B" shall consist of Eight (8) long answer questions having two questions from each unit. The students are required to attempt four (4) questions selecting one question from each unit. Each question shall carry 12 Marks.

Internal Assessment

Internal Assessment test will be conducted after the completion of fifty percent course of syllabi of theory part. There will be two sections A and B. Section A shall comprises of two questions from first two units and students are required to attempt any one question. Each question shall carry five marks. Section B shall consist of five questions of two marks each and students are required to attempt all the five questions.

Books Recommended:

1. Hussain M., 1992: Geography of India, Tata McGraw Hill Education.
2. Mamoria C. B., 1980: Economic and Commercial Geography of India, Shiva Lal Agarwala.
3. Miller F. P., Vandome A. F. and McBrewster J., 2009: Geography of India: Indo-Gangetic Plain, Thar Desert, Major Rivers of India, Climate of India, Geology of India, Alphascript Publishing.
4. Nag P. and Sengupta S., 1992: Geography of India, Concept Publishing.
5. Pichamuthu C. S., 1967: Physical Geography of India, National Book Trust.
6. Sharma T. C. and Coutinho O., 1997: Economic and Commercial Geography of India, Vikas Publishing.
7. Singh Gopal, 1976: A Geography of India, Atma Ram.



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8. Spate O. H. K. and Learmonth A. T. A., 1967: India and Pakistan: A General and Regional Geography, Methuen.
9. Rana, Tejbir Singh, 2015, Diversity of India , R.K. Books, Delhi.

PART – 2: PRACTICALS: Statistical Techniques- II

Unit-I

- 1.1 Definition of Measures of Dispersions and its role in geographical studies.
- 1.2. Merits and Demerits Measures of Dispersions.
- 1.3 Measures of Dispersions: Methods and their Merits & Demerits
- 1.4 Quantitative Analyses: Mean Deviation, Quartile Deviation and Standard Deviation

Unit-IV

- 2.1. Correlation: Introduction and their Merits and Demerits.
- 2.2. Methods of Correlation and their Merits and Demerits
- 2.3. Quantitative Analyses: Karl Pearson Product Moment Method and Spearman Rank Correlation Method.
- 2.4. Important techniques for drawing of statistical diagrams.

NOTE FOR PAPER SETTER:

Practical Examination/ Evaluation

- | | |
|--------------------------|------------------|
| a. Daily Performance: | 10 Marks |
| b. Attendance: | 05 Marks |
| c. Written Test and viva | 10 (8 + 2) Marks |

Practical test will be conducted in one session. Question paper will be set from two units. Two questions from each unit will be asked and students are required to attempt one question from each unit. Each question carries 4 marks.

Books Recommended:

1. Aslam Mahmood: Statistical Methods in Geographical Studies, Rajesh Publications, New Delhi, 1993.
2. Saroj K. Paul : Statistics for Geoscientists : Techniques and Applications, Concept Publishing Company, New Delhi, 1998.
3. C. B. Gupta : An Introduction to Statistical Methods, Vikas Publishing House, Delhi, 1974.
4. S. Gregory, : Statistical Methods and the Geographers, Longman, London, 1964.

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5. A. Reza Hoshmand (second edition), : Statistical Methods for Environmental and Agricultural Sciences, CRC Press, New York, 1998.
6. R. J. Johnston : Multivariate Statistical Analysis in Geography, Longman Scientific and Technical, John Wiley & Sons, 1989 (4th edition).
7. Rogerson. P.A. (2010), Statistical Methods for Geography, (A Student's Guide), 3rd Edition, Sage Publication, New Delhi



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Major Course

Course Code:	UMJGOT-603
Course Title:	Basic of GIS and Remote Sensing
Credits:	4 (3Th +1P)
Total No. of Lecturers (Theory)	45
Total No. of Lecturers (Practical)	30
Duration of Exam (Theory)	3 Hours
Duration of Exam (Practical)	1 ½ Hours
Total Marks:	100
Theory	75 Marks End Exam: 60 Marks Mid Semester Assessment Test: 15 Marks
Practical	25 Marks Continuous Assessment: 10 Marks Final Examination: 15 Marks

PART -1 THEORY

Unit – I

- 1.1 Introduction to GIS – definition, concept and history of developments in the field of information systems
- 1.2 Computer fundamentals for GIS
- 1.3 Hardware and software requirements for GIS
- 1.4 Coordinate system and projections in GIS – conic, cylindrical and planner

Unit – II

- 2.1 Data structure and formats
- 2.2 Spatial data models – raster and vector, data inputting & GIS
- 2.3 Spatial data quality and uncertainty
- 2.4 Data base design - editing and topology creation in GIS, linkage between spatial and non spatial data

Unit – III

- 3.1. Remote sensing – history & development, definition, concept and principles
- 3.2 Energy resources, radiation principles, EM Radiation and EM Spectrum

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3.3 Black body radiation, laws of radiation

3.4 Interaction of EMR with atmosphere and earth's surface

Unit – IV

4.1 Platforms – types and their characteristics

4.2 Satellites and their characteristics – geo-stationary and sun-synchronous

4.3 Earth Resources Satellites -LANDSAT, SPOT, IRS, IKONOS satellite series

4.4 Meteorological satellites – INSAT, NOAA, GOES

NOTE FOR PAPER SETTING

End Examination

There will be two sections in the end examination. Section "A" shall consist of Four (4) short answer questions having one question from each unit. The students are required to attempt all the questions. Each question shall be of three (3) marks. Section "B" shall consist of Eight (8) long answer questions having two questions from each unit. The students are required to attempt four (4) questions selecting one question from each unit. Each question shall carry 12 Marks.

Internal Assessment

Internal Assessment test will be conducted after the completion of fifty percent course of syllabi of theory part. There will be two sections A and B. Section A shall comprises of two questions from first two units and students are required to attempt any one question. Each question shall carry five marks. Section B shall consist of five questions of two marks each and students are required to attempt all the five questions

Books Recommended:

1. Anji Reddy, M. 2004: Geoinformatics for Environmental Management.
2. B.S. Publications Chang.T.K. 2002: Geographic Information Systems. Tata McGrawHill.
3. Heywood.I, Cornelius S, CrverSteve. 2003: An Introduction to Geographical Information Systems. Pearson Education .
4. Ram Mohan Rao. 2002: Geographical Information Systems. Rawat Publication.
- Skidmore A.2002: Environmental Modeling with GIS and Remote Sensing. Taylor and Francis.


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5. Campbell, J.B.2002: Introduction to Remote Sensing. Taylor Publications.
6. Drury, S.A., 1987: Image Interpretation in Geology. Allen and Unwin.
7. Gupta, R.P., 1990: Remote Sensing Geology. Springer Verlag
8. Jensen, J.R. 2000: Remote Sensing of the Environment: An Earth Resource Perspective. Prentice Hall.
9. Joseph George, 2003: Fundamentals of Remote Sensing. Universities Press.
10. Lillesand, T.M., and Kieffer, R.M., 1987: Remote Sensing and Image Interpretation, John Wiley.
11. Sabbins, F.F., 1985: Remote Sensing Principles and interpretation. W.H.Freeman and company.

PART – 2: PRACTICALS: QGIS

Unit-I

- 1.1 Introduction to QGIS
- 1.2. Components of QGIS
- 1.3. Software
- 1.4 Configuration and Set up

Unit-IV

- 2.1. Creating Maps
- 2.2. Difference between pint, line and polygon
- 2.3. Vector and Raster
- 2.4. Introduction to Toolbar

NOTE FOR PAPER SETTER:

Practical Examination/ Evaluation

- | | |
|--------------------------|------------------|
| a. Daily Performance: | 10 Marks |
| b. Attendance: | 05 Marks |
| c. Written Test and viva | 10 (8 + 2) Marks |

Practical test will be conducted in one session. Question paper will be set from two units. Two questions from each unit will be asked and students are required to attempt one question from each unit. Each question carries 4 marks.



Books Recommended:

1. Drury, S.A., 1987: Image Interpretation in Geology. Allen and Unwin.
2. Gupta, R.P., 1990: Remote Sensing Geology. Springer Verlag
3. Jensen, J.R. 2000: Remote Sensing of the Environment: An Earth Resource Perspective. Prentice Hall.
4. Joseph George, 2003: Fundamentals of Remote Sensing. Universities Press.
5. Lillesand, T.M., and Kieffer, R.M., 1987: Remote Sensing and Image Interpretation, John Wiley.
6. Sabbins, F.F., 1985: Remote Sensing Principles and interpretation. W.H.Freeman and company.

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Major Course

Course Code:	UMJGOT-604
Course Title:	Urban Geography
Credits:	4 (3Th +1P)
Total No. of Lecturers (Theory)	45
Total No. of Lecturers (Practical)	30
Duration of Exam (Theory)	3 Hours
Duration of Exam (Practical)	1 ½ Hours
Total Marks:	100
Theory	75 Marks End Exam: 60 Marks Mid Semester Assessment Test: 15 Marks
Practical	25 Marks Continuous Assessment: 10 Marks Final Examination: 15 Marks

PART -I THEORY

Unit – I

- 1.1. Introduction, nature and scope of urban Geography.
- 1.2. History of urbanization.
- 1.3. Approaches to study urbanization and urban systems.
- 1.4. Origin and evolution of towns and factors of urban growth

Unit II

- 2.1. Trends and Patterns of Urbanization in developed and developing countries
- 2.2. Rural Urban Fringe: structural characteristics and its development.
- 2.3. Functional classification of cities: Quantitative and Qualitative Methods.
- 2.4. Concept of Umland, hinterland and Ghettos

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Unit – III

- 3.1 Urban morphology and land use structure: city core, commercial, industrial and residential areas.
- 3.2. City and region: concepts of influence and dominance, methods of delimitation of area of influence and dominance.
- 3.3. Rank size rule.
- 3.4 Law of primate city.

Unit – IV

- 4.1. SEZ: concept, policies and consequences.
- 4.2. Classical models of city structure: Concentric zone model by E.W. Burgess
- 4.3. Sector model by Homer Hoyt.
- 4.4. Multiple nuclei model by Harris and Ullman,

NOTE FOR PAPER SETTING

End Examination

There will be two sections in the end examination. Section "A" shall consist of Four (4) short answer questions having one question from each unit. The students are required to attempt all the questions. Each question shall be of three (3) marks. Section "B" shall consist of Eight (8) long answer questions having two questions from each unit. The students are required to attempt four (4) questions selecting one question from each unit. Each question shall carry 12 Marks.

Internal Assessment

Internal Assessment test will be conducted after the completion of fifty percent course of syllabi of theory part. There will be two sections A and B. Section A shall comprises of two questions from first two units and students are required to attempt any one question. Each question shall carry five marks. Section B shall consist of five questions of two marks each and students are required to attempt all the five questions

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Books Recommended:

1. Ramachandran R (1989): Urbanisation and Urban Systems of India, Oxford University Press, New Delhi Reading List: 1. Fyfe N. R. and Kenny J. T., 2005: The Urban Geography Reader, Routledge.
2. Graham S. and Marvin S., 2001: Splintering Urbanism: Networked Infrastructures, Technological Mobilities and the Urban Condition, Routledge.
3. Hall T., 2006: Urban Geography, Taylor and Francis.
4. Kaplan D. H., Wheeler J. O. and Holloway S. R., 2008: Urban Geography, John Wiley.
5. Knox P. L. and McCarthy L., 2005: Urbanization: An Introduction to Urban Geography, Pearson Prentice Hall New York.
6. Knox P. L. and Pinch S., 2006: Urban Social Geography: An Introduction, PrenticeHall.
7. Pacione M., 2009: Urban Geography: A Global Perspective, Taylor and Francis.
8. Sassen S., 2001: The Global City: New York, London and Tokyo, Princeton University Press.
9. Ramachandran R (1989): Urbanisation and Urban Systems of India, Oxford University Press, New Delhi
10. Ramachandran, R., 1992: The Study of Urbanisation, Oxford University Press, Delhi
11. Singh, R.B. (Eds.) (2001) Urban Sustainability in the Context of Global Change, Science Pub., Inc., Enfield (NH), USA and Oxford & IBH Pub., New Delhi.
12. Singh, R.B. (Ed.) (2015) Urban development, challenges, risks and resilience in Asian megacities. Advances in Geographical and Environmental Studies, Springer

PART – 2: PRACTICALS: Prismatic Compass Survey

Unit-I

- 1.1 Introduction to Prismatic Compass
- 1.2. Components of Prismatic Compass
- 1.3. Setting of Prismatic Compass
- 1.4 Advantages and disadvantages of Prismatic Compass Survey



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Unit-IV

- 2.1. Forward and backward bearing
- 2.2. Field Survey (Two Exercises)

NOTE FOR PAPER SETTER:
Practical Examination/ Evaluation

- | | |
|--------------------------|------------------|
| a. Daily Performance: | 10 Marks |
| b. Attendance: | 05 Marks |
| c. Written Test and viva | 10 (8 + 2) Marks |

Practical test will be conducted in one session. Question paper will be set from two units. Two questions from each unit will be asked and students are required to attempt one question from each unit. Each question carries 4 marks.

Books Recommended:

1. Monkhouse, F.J., and Wikinson, H.R. : Maps and diagrams, B. I Publications put. Ltd.
2. Singh, R. L. : Elements of Practical Geography, Kalyani Publishers, New Delhi.

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Semester- VI
(Examination to be held in May/June, 2025, 2026 and 2027)

Minor Course

Course Code:	UMIGOF-605
Course Title:	Geography of India
Credits:	4 (3Th +1P)
Total No. of Lecturers (Theory)	45
Total No. of Lecturers (Practical)	30
Duration of Exam (Theory)	3 Hours
Duration of Exam (Practical)	1 ½ Hours
Total Marks:	100
Theory	75 Marks End Exam: 60 Marks Mid Semester Assessment Test: 15 Marks
Practical	25 Marks Continuous Assessment: 10 Marks Final Examination: 15 Marks

Note: The Objective of this course is to introduce the students with the Geography of India

PART -1 THEORY

Unit-I

- 1.5 India's geopolitical position in South Asia
- 1.6 Physiographic Divisions of India.
- 1.7 Climate of India: Mechanism of Indian Monsoon, Jet Streams.
- 1.8 Drainage System of India

Unit-II

- 2.1 India: Soils (Types, Characteristics and Distribution).
- 2.2 India: Vegetation (Types, Characteristics and Distribution).
- 2.3 Mineral Resources of India: Iron Ore and Manganese.
- 2.4 Power Resources of India: Coal and Petroleum.

Unit-III

- 3.1 Indian Agriculture: Crops, Cropping pattern and farming system.
- 3.2 Green Revolution in India: Impact and Problems.

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3.3 Major Cereal Crops: Wheat and Rice, Distribution and Production.

3.4 Major Cash Crops: Cotton, Tea and Distribution and Production.

Unit-IV

4.1 Population distribution and growth in India.

4.2 Recent Population policy of India.

4.3 Migration and Urbanization trends.

4.4 Regional disparities and planning.

NOTE FOR PAPER SETTING

End Examination

There will be two sections in the end examination. Section "A" shall consist of Four (4) short answer questions having one question from each unit. The students are required to attempt all the questions. Each question shall be of three (3) marks. Section "B" shall consist of Eight (8) long answer questions having two questions from each unit. The students are required to attempt four (4) questions selecting one question from each unit. Each question shall carry 12 Marks.

Internal Assessment

Internal Assessment test will be conducted after the completion of fifty percent course of syllabi of theory part. There will be two sections A and B. Section A shall comprises of two questions from first two units and students are required to attempt any one question. Each question shall carry five marks. Section B shall consist of five questions of two marks each and students are required to attempt all the five questions.

Books Recommended:

10. Hussain M., 1992: Geography of India, Tata McGraw Hill Education.
11. Mamoria C. B., 1980: Economic and Commercial Geography of India, Shiva Lal Agarwala.
12. Miller F. P., Vandome A. F. and McBrewster J., 2009: Geography of India: Indo-Gangetic Plain, Thar Desert, Major Rivers of India, Climate of India, Geology of India, Alphascript Publishing.
13. Nag P. and Sengupta S., 1992: Geography of India, Concept Publishing.
14. Pichamuthu C. S., 1967: Physical Geography of India, National Book Trust.
15. Sharma T. C. and Coutinho O., 1997: Economic and Commercial Geography of India, Vikas Publishing.
16. Singh Gopal, 1976: A Geography of India, Atma Ram.


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17. Spate O. H. K. and Learmonth A. T. A., 1967: India and Pakistan: A General and Regional Geography, Methuen.
18. Rana, Tejbir Singh, 2015, Diversity of India , R.K. Books, Delhi.

PART – 2: PRACTICALS: Statistical Methods

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

NOTE FOR PAPER SETTER:

Practical Examination/ Evaluation

d. Daily Performance:	10 Marks
e. Attendance:	05 Marks
f. Written Test and viva	10 (8 + 2) Marks

Practical test will be conducted in one session. Question paper will be set from two units. Two questions from each unit will be asked and students are required to attempt one question from each unit. Each question carries 4 marks.

Books Recommended:

1. Aslam Mahmood: Statistical Methods in Geographical Studies, Rajesh Publications, New Delhi, 1993.
2. Saroj K. Paul : Statistics for Geoscientists : Techniques and Applications, Concept Publishing Company, New Delhi, 1998.


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3. C. B. Gupta : An Introduction to Statistical Methods, Vikas Publishing House, Delhi, 1974.
4. S. Gregory, : Statistical Methods and the Geographers, Longman, London, 1964.
5. A. Reza Hoshmand (second edition), : Statistical Methods for Environmental and Agricultural Sciences, CRC Press, New York, 1998.
6. R. J. Johnston : Multivariate Statistical Analysis in Geography, Longman Scientific and Technical, John Wiley & Sons, 1989 (4th edition).
7. Rogerson. P.A. (2010), Statistical Methods for Geography, (A Student's Guide), 3rd Edition, Sage Publication, New Delhi

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Semester- VII
(Examination to be held in December 2025, 2026 and 2027)

Major Course

Course Code:	UMJGOT-701
Course Title:	Geographical Thoughts
Credits:	4 (3Th +1P)
Total No. of Lecturers (Theory)	45
Total No. of Lecturers (Practical)	30
Duration of Exam (Theory)	3 Hours
Duration of Exam (Practical)	1 ½ Hours
Total Marks:	100
Theory	75 Marks End Exam: 60 Marks Mid Semester Assessment Test: 15 Marks
Practical	25 Marks Continuous Assessment: 10 Marks Final Examination: 15 Marks

PART -1 THEORY

Unit-1

- 1.1. Geography as an Art and Science
- 1.2. Approaches to study Geography: Determinism, Possibilism, Neo Determinism
- 1.3. Quantitative and Behavioral Approaches
- 1.4. Radical and Welfare Approaches

Unit -2

- 2.1. Early origin of Geographical thinking: Concepts of Distributions, Interactions
- 2.2. Areal Differentiation and Spatial Organization
- 2.3. Myth and Reality of Dualism in Geography: Physical/Human Geography
- 2.4. Systematic/Regional Geography

Unit- 3

- 3.1. Ancient Indian Geography
- 3.2. Contribution of Greek Geographers; Thales, Anaximander, Herodotus
- 3.3. Contribution of Roman Geographers; Ptolemy and Strabo
- 3.4. Dark Age in Europe

Unit - 4

- 4.1. Contribution of Arab Geographers: Al Masudi, Al Biruni, Ibne Khuldun
- 4.2. Renaissance in Europe, Age of Discovery, Distinguished Travelers

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Semester- VII
(Examination to be held in December 2025, 2026 and 2027)

4.3. Makers of Modern Geography: Ratzal, Humboldt and Ritter

4.4. Contributions of Blache, Hettner and Mackinder

NOTE FOR PAPER SETTING

End Examination

There will be two sections in the end examination. Section "A" shall consist of Four (4) short answer questions having one question from each unit. The students are required to attempt all the questions. Each question shall be of three (3) marks. Section "B" shall consist of Eight (8) long answer questions having two questions from each unit. The students are required to attempt four (4) questions selecting one question from each unit. Each question shall carry 12 Marks.

Internal Assessment

Internal Assessment test will be conducted after the completion of fifty percent course of syllabi of theory part. There will be two sections A and B. Section A shall comprises of two questions from first two units and students are required to attempt any one question. Each question shall carry five marks. Section B shall consist of five questions of two marks each and students are required to attempt all the five questions

Recommended Books:

1. Husain, Majid (2015), Evolution of Geographical Thought, Rawat Publications, Jaipur.
2. Dixit, R.D. (1994), The Art and Science of Geography: Integrated Readings, Printice Hall of India.
3. Rana, L. (2014), Geographical Thought: Classical to Contemporary, Concept Publishing Company, New Delhi.
4. Adhikari, S.(1992), Fundamentals of Geographical Thoughts, Chaitanya Publishing House, Allahabad, India.
5. Doi, R.D. (2002), Geographical Thought: A Spectrum of Compilation to Coherence, University Book, House (P) Ltd., Jaipur.



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PART – 2: PRACTICALS: Field Survey and Report Writing

Unit - I

- 1.1. Significance of report writing in Geography.
- 1.2. Data collection methods in geography: surveys, interviews and fieldwork.
- 1.3. Importance of Field work in Geography.

Unit- II

Each student will prepare an individual report based on primary and secondary data collected during field work about geographical location, natural features of the area, including landforms, climate, vegetation, any significant geological features, history of human settlement and any significant events that have shaped the region, land utilization, including agriculture, industry, and urban development, environmental challenges or issues in the area such as pollution, deforestation, or natural disasters, impact of human activities on the environment and any conservation efforts, infrastructure in the region and its role in economic development etc.

NOTE FOR PAPER SETTER:

Practical Examination/ Evaluation

- | | | |
|----|--------------------|----------|
| 1. | Daily Performance: | 05 Marks |
| 2. | Attendance: | 05 marks |
| 3. | Written Report: | 10 Marks |
| 4. | Viva: | 5 Marks |

Recommended Books:

2. Wolcott, H. 1995. The Art of Fieldwork. Alta Mira Press, Walnut Creek, CA
3. Mukherjee, Neela 2002. Participatory Learning and Action: with 100 Field Methods. Concept Publs. Co., New Delhi
4. Special Issue on "**Doing Fieldwork**" The Geographical Review 91:1-2 (2001).
5. "Field Work in Geography" by Dr. R. N. Sharma and Dr. S. L. Sharma
6. "Field Work in Indian Geography" by M. S. Kale and Dr. S. C. Sharma.
7. "Geographical Research Methodology" by Sridharan R.

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University of Jammu
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Semester- VII
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Major Course

Course Code:	UMJGOT-702
Course Title:	Regional Geography of Asia
Credits:	4 (3Th +1P)
Total No. of Lecturers (Theory)	45
Total No. of Lecturers (Practical)	30
Duration of Exam (Theory)	3 Hours
Duration of Exam (Practical)	1 ½ Hours
Total Marks:	100
Theory	75 Marks End Exam: 60 Marks Mid Semester Assessment Test: 15 Marks
Practical	25 Marks Continuous Assessment: 10 Marks Final Examination: 15 Marks

PART -1 THEORY

Unit- 1

- 1.1. Asia is in the context of world
- 1.2. Physiographic 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.



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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.

NOTE FOR PAPER SETTING

End Examination

There will be two sections in the end examination. Section "A" shall consist of Four (4) short answer questions having one question from each unit. The students are required to attempt all the questions. Each question shall be of three (3) marks. Section "B" shall consist of Eight (8) long answer questions having two questions from each unit. The students are required to attempt four (4) questions selecting one question from each unit. Each question shall carry 12 Marks.

Internal Assessment

Internal Assessment test will be conducted after the completion of fifty percent course of syllabi of theory part. There will be two sections A and B. Section A shall comprises of two questions from first two units and students are required to attempt any one question. Each question shall carry five marks. Section B shall consist of five questions of two marks each and students are required to attempt all the five questions

Recommended Books:

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.

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Semester- VII
(Examination to be held in December 2025, 2026 and 2027)

8. Clark, Gordon L.; Feldman, M.P. and Gertler, M.S., eds. 2000: The Oxford
9. Tikka, R. N. Geography of Asia: New Academic Publication, Jalandhar.

PART – 2: PRACTICALS: Dumpy Level Survey

Unit – I: Introduction to Dumpy Level

- Meaning, advantages and disadvantages of Dumpy level
- 1.2.Procedure of Dumpy level.
 - 1.3.Uses of Dumpy level.

Unit- II: - Dumpy level Survey

- Rise and fall system.
Plotting of longitudinal section by rise and fall method.
Traverse survey and contour plan preparation.

NOTE FOR PAPER SETTER:

Practical Examination/ Evaluation

- | | |
|-------------------------------|----------|
| a. Daily Performance: | 05 Marks |
| b. Attendance: | 05 marks |
| c. Written Test: | 10 Marks |
| d. Practical Record and Viva: | 5 Marks |

Practical test will be conducted in one session. Question paper will be set from two units. Two questions from each unit will be asked and students are required to attempt one question from each unit. Each question carries 5 marks.

Books Recommended

1. Mishra R.P. and Romesh A, Fundamentals of Cartography. Mc Millan Co. New Delhi, 1986.
2. Singh R.L., Elements of practical geography.
3. Singh, R. & Singh L.R., Map work and practical geography.
4. Monkhouse, F.J., Maps and Diagrams.
5. John, Bygott, Map work and practical geography.

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Major Course

Course Code:	UMJGOT-703
Course Title:	Economic Geography
Credits:	4 (3Th +1P)
Total No. of Lecturers (Theory)	45
Total No. of Lecturers (Practical)	30
Duration of Exam (Theory)	3 Hours
Duration of Exam (Practical)	1 ½ Hours
Total Marks:	100
Theory	75 Marks End Exam: 60 Marks Mid Semester Assessment Test: 15 Marks
Practical	25 Marks Continuous Assessment: 10 Marks Final Examination: 15 Marks

PART – 1: THEORY

Note: The objective of this course is to introduce the latest concepts of Economic Geography essentially the basics of Economic Geography.

Unit – 1

- 1.1 Economic geography: Meaning, nature and scope of Economic geography.
- 1.2 Economic activities their classification, characteristics and factors.
- 1.3 Relationship of Economic geography with Economics and other branches of social sciences.
- 1.4 Sustainable development: concept and indicators.

Unit - II

- 2.1. Theories of industrial location: Weber and Losch
- 2.2 Christaller's central place theory
- 2.3 Indicators of socio-economic development: Rostow's model of stages of growth and development
- 2.4 Economic development of India and Regional disparities.

Unit - III

- 3.1. Basic features of Indian economy.
- 3.2 Food security and public distribution system (PDS) in India.
- 3.3 Problems of unemployment in India and its remedial measures.
- 3.4 Poverty in India measurement and incidence

Unit – IV

- 4.1. Industrialization, its characteristics and economic development.
- 4.2 Factors responsible for the localization of Industries.
- 4.3 Major industrial regions of India and SEZ.
- 4.4 Resource based and footloose industries: bamboo economics.

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NOTE FOR PAPER SETTING

End Examination

There will be two sections in the end examination. Section "A" shall consist of Four (4) short answer questions having one question from each unit. The students are required to attempt all the questions. Each question shall be of three (3) marks. Section "B" shall consist of Eight (8) long answer questions having two questions from each unit. The students are required to attempt four (4) questions selecting one question from each unit. Each question shall carry 12 Marks.

Internal Assessment

Internal Assessment test will be conducted after the completion of fifty percent course of syllabi of theory part. There will be two sections A and B. Section A shall comprises of two questions from first two units and students are required to attempt any one question. Each question shall carry five marks. Section B shall consist of five questions of two marks each and students are required to attempt all the five questions

Recommended Books:

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. Wheeler J. O., 1998: Economic Geography, Wiley.
6. Durand L., 1961: Economic Geography, Crowell.
7. Bagchi-Sen S. and Smith H. L., 2006: Economic Geography: Past, Present and Future, Taylor and Francis.
8. Willington D. E., 2008: Economic Geography, Husband Press.
9. Clark, Gordon L.; Feldman, M.P. and Gertler, M.S., eds. 2000: The Oxford
10. Majid Hussain, world geography; Rawat Publications, Jaipur.

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PART – 2: PRACTICALS: Socio- Economic Survey

Unit- I

- 1.1. Identification of Problem
- 1.2. Setting of Aims and Objectives
- 1.3 Designing of appropriate methodology
- 1.4. Collection of information and data from the field with the field survey

Unit- II

- 2.1. Tabulation and Interpretation of data
- 2.2 Analysis of Data
 Reviewing of literature.
 Report Writing

NOTE FOR PAPER SETTER:

Practical Examination/ Evaluation

- | | |
|-----------------------|----------|
| a. Daily Performance: | 05 Marks |
| b. Attendance: | 05 marks |
| c. Written Report | 10 Marks |
| d. Viva: | 5 Marks |

Recommended Books:

1. Wolcott, H. 1995. The Art of Fieldwork. Alta Mira Press, Walnut Creek, CA
2. Mukherjee, Neela 2002. Participatory Learning and Action: with 100 Field Methods. Concept Publs. Co., New Delhi
3. Special Issue on "**Doing Fieldwork**" The Geographical Review 91:1-2 (2001).
4. "Field Work in Geography" by Dr. R. N. Sharma and Dr. S. L. Sharma
5. "Field Work in Indian Geography" by M. S. Kale and Dr. S. C. Sharma.
6. "Geographical Research Methodology" by Sridharan R.


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Major Course

Course Code:	UMJGOT-704
Course Title:	Regional Planning and Development
Credits:	4 (3Th +1P)
Total No. of Lecturers (Theory)	45
Total No. of Lecturers (Practical)	30
Duration of Exam (Theory)	3 Hours
Duration of Exam (Practical)	1 ½ Hours
Total Marks:	100
Theory	75 Marks End Exam: 60 Marks Mid Semester Assessment Test: 15 Marks
Practical	25 Marks Continuous Assessment: 10 Marks Final Examination: 15 Marks

PART – 1: THEORY

Unit 1

- 1.1. Planning: Concept, types and significance.
- 1.2. Planning Region: concept, characteristics, hierarchy, demarcation and basis of regionalization.
- 1.3. Regional Planning: concept, principles, objectives and rationale of regional planning in India.
- 1.4. Regional Policies in India: Five Year plans and NITI Aayog.

Unit II

- 2.1 Role of Geography in Regional Planning.
- 2.2. Historical Development of Regional Planning in India.
- 2.3. Regional Disparities in India, development programmes for Backward areas with special focus on Northern Himalayan states, Tribal belts, desert and border areas.
- 2.4. Experiences of Regional Planning in India.

Unit III

- 3.1. Main Theories and Models: Growth Pole theory.
- 3.2. Core-Periphery Model.
- 3.3. Concentric Zone Theory.
- 3.4. Multiple Nuclei Theory.

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Unit IV

- 4.1. Problems and Prospects of Regional Planning in India.
- 4.2. Regional Planning in India: Planning regions of India and Case studies of NCR, DVC, KBK region of Orissa.
- 4.3. Environmental issues in Regional Planning.
- 4.4. Planning for Sustainable Development.

NOTE FOR PAPER SETTING

End Examination

There will be two sections in the end examination. Section "A" shall consist of Four (4) short answer questions having one question from each unit. The students are required to attempt all the questions. Each question shall be of three (3) marks. Section "B" shall consist of Eight (8) long answer questions having two questions from each unit. The students are required to attempt four (4) questions selecting one question from each unit. Each question shall carry 12 Marks.

Internal Assessment

Internal Assessment test will be conducted after the completion of fifty percent course of syllabi of theory part. There will be two sections A and B. Section A shall comprises of two questions from first two units and students are required to attempt any one question. Each question shall carry five marks. Section B shall consist of five questions of two marks each and students are required to attempt all the five questions

Recommended Books:

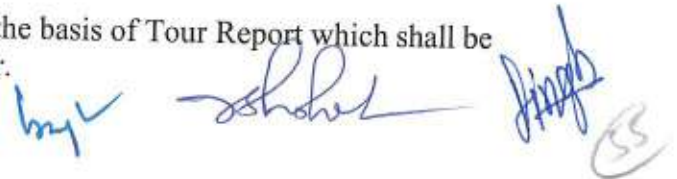
1. Glasson, J. (1974), 'An Introduction to Regional planning, Hutchinson & Co., London.
2. O.E.C.D (1970), 'The Regional Factor in Economic Development',
3. Minahull, R.(1968), ' Regional Geography'. Hutchinson * Co., Ltd., London.
4. B.I.S.R (1978), 'The Role of Fiscal Incentives in Reducing Regional Imbalances: Some Comparison', New Delhi.
5. Misra, R.P et.al (1974). 'Regional Development Planning in India', Vikas, New Delhi.

PART – 2: PRACTICALS: Interstate Geographical Tour

Interstate Geographical tour at least for one week shall be organized for providing the knowledge of Indian landscape, culture and heritage.

NOTE FOR PAPER SETTER:

Practical Examination/ Evaluation will be done on the basis of Tour Report which shall be submitted within fifteen days of culmination of tour.



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Minor Course

Course Code:	UMIGOT-705
Course Title:	Geography of Asia
Credits:	4 (3Th +1P)
Total No. of Lecturers (Theory)	45
Total No. of Lecturers (Practical)	30
Duration of Exam (Theory)	3 Hours
Duration of Exam (Practical)	1 ½ Hours
Total Marks:	100
Theory	75 Marks End Exam: 60 Marks Mid Semester Assessment Test: 15 Marks
Practical	25 Marks Continuous Assessment: 10 Marks Final Examination: 15 Marks

PART -1 THEORY

Unit- 1

- 1.1. Asia is in the context of world
- 1.2. Physiographic 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.


by ✓ shahul Singh
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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.

NOTE FOR PAPER SETTING

End Examination

There will be two sections in the end examination. Section "A" shall consist of Four (4) short answer questions having one question from each unit. The students are required to attempt all the questions. Each question shall be of three (3) marks. Section "B" shall consist of Eight (8) long answer questions having two questions from each unit. The students are required to attempt four (4) questions selecting one question from each unit. Each question shall carry 12 Marks.

Internal Assessment

Internal Assessment test will be conducted after the completion of fifty percent course of syllabi of theory part. There will be two sections A and B. Section A shall comprises of two questions from first two units and students are required to attempt any one question. Each question shall carry five marks. Section B shall consist of five questions of two marks each and students are required to attempt all the five questions

Recommended Books:

10. Alexander J. W., 1963: Economic Geography, Prentice-Hall Inc., Englewood Cliffs, New Jersey.
11. Coe N. M., Kelly P. F. and Yeung H. W., 2007: Economic Geography: A Contemporary Introduction, Wiley-Blackwell.
12. Hodder B. W. and Lee Roger, 1974: Economic Geography, Taylor and Francis.
13. Combes P., Mayer T. and Thisse J. F., 2008: Economic Geography: The Integration of Regions and Nations, Princeton University Press.
14. Tirtha, Ranjit: Geography of Asia: Rawat Publication, Jaipur.
15. Bagchi-Sen S. and Smith H. L., 2006: Economic Geography: Past, Present and Future, Taylor and Francis.
16. Willington D. E., 2008: Economic Geography, Husband Press.

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PART – 2: PRACTICALS: Field Survey and Report Writing

Unit - I

- 1.5. Significance of report writing in Geography.
- 1.6. Data collection methods in geography: surveys, interviews and fieldwork.
- 1.7. Importance of Field work in Geography.

Unit- II

Each student will prepare an individual report based on primary and secondary data collected during field work about geographical location, natural features of the area, including landforms, climate, vegetation, any significant geological features, history of human settlement and any significant events that have shaped the region, land utilization, including agriculture, industry, and urban development, environmental challenges or issues in the area such as pollution, deforestation, or natural disasters, impact of human activities on the environment and any conservation efforts, infrastructure in the region and its role in economic development etc.

NOTE FOR PAPER SETTER:

Practical Examination/ Evaluation

- | | | |
|----|--------------------|----------|
| 1. | Daily Performance: | 05 Marks |
| 2. | Attendance: | 05 marks |
| 3. | Written Report: | 10 Marks |
| 4. | Viva: | 5 Marks |

Recommended Books:

2. Wolcott, H. 1995. The Art of Fieldwork. Alta Mira Press, Walnut Creek, CA
3. Mukherjee, Neela 2002. Participatory Learning and Action: with 100 Field Methods. Concept Publication Co., New Delhi
4. Special Issue on "Doing Fieldwork" The Geographical Review 91:1-2 (2001).
5. "Field Work in Geography" by Dr. R. N. Sharma and Dr. S. L. Sharma
6. "Field Work in Indian Geography" by M. S. Kale and Dr. S. C. Sharma.
7. "Geographical Research Methodology" by Sridharan R.

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University of Jammu
Syllabus of Geography at FYU as per NEP – 2020 Semester- VIII
(Examination to be held in May/June 2026, 2027 and 2028)

Major Course

Course Code:	UMJGOT-801
Course Title:	Political Geography
Credits:	4 (3Th +1P)
Total No. of Lecturers (Theory)	45
Total No. of Lecturers (Practical)	30
Duration of Exam (Theory)	3 Hours
Duration of Exam (Practical)	1 ½ Hours
Total Marks:	100
Theory	75 Marks End Exam: 60 Marks Mid Semester Assessment Test: 15 Marks
Practical	25 Marks Continuous Assessment: 10 Marks Final Examination: 15 Marks

PART -1 THEORY

Unit I

- 1.1 Introduction to Political Geography: Definition, Geography & Politics.
- 1.2 History & Development of Political Geography.
- 1.3 Approaches of Political Geography: Whittlesey's landscape approach, Functional approach, Centrifugal & centripetal forces.
- 1.4 Unified Field Theory.

Unit II

- 2.1 Concept of Nation, State, and Nation-state.
- 2.2 Buffer Zones, Frontiers, Boundaries.
- 2.3 Genetic and functional Classification of boundaries.
- 2.4 Morphological classification of boundaries

Unit- III

- 3.1 Political Geography of India: Changing political map and emergence of new states and UTs
- 3.2 Diversity and Pluralism in India.
- 3.3 Geopolitics of Indian Ocean.
- 3.4: Water Sharing disputes of India.



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Unit- IV

- 4.1 Organic theory of State.
- 4.2 Heartland theory.
- 4.3 Rimland theory.
- 4.4 Marxist theory.

NOTE FOR PAPER SETTING

End Examination

There will be two sections in the end examination. Section "A" shall consist of Four (4) short answer questions having one question from each unit. The students are required to attempt all the questions. Each question shall be of three (3) marks. Section "B" shall consist of Eight (8) long answer questions having two questions from each unit. The students are required to attempt four (4) questions selecting one question from each unit. Each question shall carry 12 Marks.

Internal Assessment

Internal Assessment test will be conducted after the completion of fifty percent course of syllabi of theory part. There will be two sections A and B. Section A shall comprises of two questions from first two units and students are required to attempt any one question. Each question shall carry five marks. Section B shall consist of five questions of two marks each and students are required to attempt all the five questions.

Books Recommended

1. Alexander, L. M. (1963): World Political Patterns, Ram McNally, Chicago.
2. Adhikari, Sudepta (2012): Political Geography, Rawat Publication, Jaipur, India.
3. Dikshit, R. D. (1996): Political Geography: A Contemporary Perspective, Tata McGraw Hill, New Delhi.
4. Dikshit, R. D. (1999): Political Geography: A Century of Progress, Sage, New Delhi.
5. De Blij, H. J. and Glasson, M. (1968): Systematic Political Geography, John Wiley, New York.



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(Examination to be held in May/June 2026, 2027 and 2028)

6. Pounds, N. J. G. (1972): Political Geography, McGraw Hills, New York.
7. Taylor, R. J. (1989) Political Geography, Longman, UK.

PART – 2: PRACTICALS: REMOTE SENSING

Unit- I

- 1.1. Remote Sensing: Meaning and significance.
- 1.2. Utility of remote sensing in Geography.
- 1.3. History and Development of Remote Sensing.
- 1.4. Advantages and Limitations of Remote Sensing.

Unit- II

- 2.1. Types of remote sensing: Active and Passive Remote sensing.
- 2.2. Stages of remote sensing, Ideal and real remote sensing.
- 2.3. Principles of Remote Sensing.
- 2.4. Electromagnetic spectrum and characteristics of different wavelength regions.

NOTE FOR PAPER SETTER

Practical Examination/ Evaluation

1.	Daily Performance:	05 Marks
2.	Attendance:	05 marks
3.	Written Test:	10 Marks
4.	Viva:	5 Marks

BOOKS RECOMMENDED

1. Sabins, Floyd F, 1986, Remote Sensing: Principles & Interpretation, Freeman, New York.
2. Lillesand, T.M. & Klefer, R.W. 1987, Remote Sensing and Image Interpretation, John Wiley & Sons, New York.
3. Curran, Paul J; 1985, Principles of Remote Sensing, Longman, London.
4. Estes, J.E. and LW Senger, 1974, Remote sensing Techniques for environmental Analysis, Hamilton, Santa Barbara, California.
5. Lillesand, Thomas M. and RW Klefer, 1987, Remote Sensing and Image Interpretation, John Wiley & Sons, New York.
6. Fazal, S. (2009), Remote Sensing Basics, Kalyani Publishers, New Delhi.

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University of Jammu
Syllabus of Geography at FYU level under CBCS as per NEP – 2020 Semester- VIII
(Examination to be held in May/June 2026, 2027 and 2028)

Major Course

Course Code:	UMJGOT-802
Course Title:	Social Geography
Credits:	4 (3Th +1P)
Total No. of Lecturers (Theory)	45
Total No. of Lecturers (Practical)	30
Duration of Exam (Theory)	3 Hours
Duration of Exam (Practical)	1 ½ Hours
Total Marks:	100
Theory	75 Marks End Exam: 60 Marks Mid Semester Assessment Test: 15 Marks
Practical	25 Marks Continuous Assessment: 10 Marks Final Examination: 15 Marks

PART -1 THEORY

Unit - 1

- 1.1. Definition and concept of social geography.
- 1.2. Nature and scope of social geography.
- 1.3. Relationship of social geography with other social sciences.
- 1.4. Relevance of social geography in the modern world.

Unit – 2

- 2.1. Concept of social space.
- 2.2. Social differentiation and stratification.
- 2.3. Social morphology.
- 2.4. Social Hierarchy.

Unit - 3

- 3.1. Evolution of socio- cultural regions of India.
- 3.2. Basis of delineation of socio-cultural regions-race, caste, tribe, religion and language.
- 3.3. India- Unity in diversity.
- 3.4. Concept of social well being.

by ✓ shreshth

Shreshth

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Unit - 4

- 4.1 Definition and features of urban society.
- 4.2 Concept of urban, urbanism, and urbanization.
- 4.3 Social issues in urban society.
- 4.4 Classification of urban societies.

NOTE FOR PAPER SETTING

End Examination

There will be two sections in the end examination. Section "A" shall consist of Four (4) short answer questions having one question from each unit. The students are required to attempt all the questions. Each question shall be of three (3) marks. Section "B" shall consist of Eight (8) long answer questions having two questions from each unit. The students are required to attempt four (4) questions selecting one question from each unit. Each question shall carry 12 Marks.

Internal Assessment

Internal Assessment test will be conducted after the completion of fifty percent course of syllabi of theory part. There will be two sections A and B. Section A shall comprises of two questions from first two units and students are required to attempt any one question. Each question shall carry five marks. Section B shall consist of five questions of two marks each and students are required to attempt all the five questions.

Book Recommended

1. Aijazuddin, Ahmad (1999). Social Geography, Rawat Publications, New Delhi.
2. Brian, R. K. (1996). Landscape of Settlement: Prehistory to the Present. Routledge. London.
3. Bulsara, J. F. (1970). Patterns of Social Life in Metropolitan Areas, Popular Prakashan, Bombay.
4. Carter, H. J. (1972). The Study of Urban Geography. Edward Arnold. London.



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5. Census of India (1974). Economic and Socio-Cultural Dimensions of Rationalization, Census Centenary, Monograph No. 7, Govt. of India, New Delhi.
6. Coates, B. E. et al. (1977). Geography and Inequality, Oxford University Press, London.
7. Dubey, S. C. (1991). Indian Society, National Book Trust, New Delhi.
8. Hall, P. (1992). Urban and Regional Planning. Routledge. London.
9. Jordon, X. and Lester, G. (1995). The Human Mosaic, Harper and Row, New York.
10. Kundu, A. (1992). Urban Development and Urban Research in India: Khanna Publication.
11. Orang, Mike (1998). Cultural Geography. Routledge Publication, London.
12. Singh. K. and Steinberg. F. (1998). Urban India in Crisis: New Age Interns. New Delhi

PART – 2: PRACTICALS: Computer Cartography

Unit – I

- 1.1. Fundamentals of computer cartography
- 1.2. Developments of computer-assisted cartography.
- 1.3. Advantages of computer-assisted cartography.
- 1.4. Representation of geographic data through computer aided techniques

Unit - II

- 2.1. Representation of cartographic symbols and their uses.
- 2.2. Representation of Point, line and area by Computer Cartography.
- 2.3. Statistical diagrams: line graphs and bar graph.
- 2.4. Representation of Dimensional diagrams.

NOTE FOR PAPER SETTER

Practical Examination/ Evaluation

- | | | |
|----|--------------------|----------|
| 1. | Daily Performance: | 05 Marks |
| 2. | Attendance: | 05 marks |
| 3. | Written Test: | 10 Marks |
| 4. | Viva: | 5 Marks |



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BOOKS RECOMMENDED

1. Cromley, R.G., Digital Cartography, Prentice Hall, N. Jersey, 1992.
2. Fraser Taylor, D .R., Geographical Information System, Pergmon Press, U.K., 1991.
3. Haddad, A., Microsoft Power Point 2000, G.C. Jain for Techmedia, New Delhi, 1999.
4. Khan, J. H., Hassan, T. and Shamshad, Scales, Academic Publication, Delhi, 2014.
5. Khullar, D.R., Essentials of Practical Geography, New Academic Publishing Co. Jalandhar, 2005.
6. Maquire, DJ., Good Child, M.F. and Rhind, D.W., Geographical Information Systems: Principles and Application, Taylor and Francis Publication Washington, 1991.
7. Misra, R.P., & Ramesh, A. Fundamental of Cartography, Concept Publishing Company, New Delhi, 1989.
8. Monkhouse, FJ. and Wilkinson, H.R, Maps and Diagrams, Mathuen and Co, Ltd. London, 1952.
9. Pery, G., Microsoft Office 2000, G.C. Jain for Techmedia, New Delhi, 2002.
10. Monmonier, M. S., Computer Assisted Cartography: Principles and Prospects, Prentice Hall, New Jersey, 1982.
11. Singh L.R. and Singh, R., Map work and Practical Geography, Central Book Depot., Allahabad, 1973. 12. Singh, R. L. and Singh, RP.B., Elements of practical geography, Kalyani Publishers, New Delhi, 1991.

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Syllabus of Geography at FYU level under CBCS as per NEP – 2020 Semester- VIII
(Examination to be held in May/June 2026, 2027 and 2028)

Major Course

Course Code:	UMJGOT-803
Course Title:	Soil Geography
Credits:	4 (3Th +1P)
Total No. of Lecturers (Theory)	45
Total No. of Lecturers (Practical)	30
Duration of Exam (Theory)	3 Hours
Duration of Exam (Practical)	1 ½ Hours
Total Marks:	100
Theory	75 Marks End Exam: 60 Marks Mid Semester Assessment Test: 15 Marks
Practical	25 Marks Continuous Assessment: 10 Marks Final Examination: 15 Marks

PART -1 THEORY

Unit -I

- 1.1. Definition of soil and Soil Geography.
- 1.2. Scope and significance of Soil Geography.
- 1.3. Factors in soil formation: Inorganic and Organic.
- 1.4. Factors in Soil development: Climatic, Geomorphic and Time

Unit -II

- 2.1. Soil profile, characteristics of soil horizons
- 2.2. Physical characteristics of soil: porosity and texture.
- 2.3. Physical characteristics of soil: structure and colour.
- 2.4. Chemical Characteristics of soil: PH and electrical conductivity.

Unit- III

- 3.1. Elementary knowledge of soil taxonomy.
- 3.2. Physiographic classification of soils in India
- 3.3. Textural classification of soils.
- 3.4. Local nomenclature and classification of soils in Jammu and Kashmir



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Unit- IV

- 4.1. Soil pollution
- 4.2. Pesticides and inorganic contaminants
- 4.3. Prevention and mitigation of soil pollution.
- 4.4. Soil erosion and soil conservation.

NOTE FOR PAPER SETTING

End Examination

There will be two sections in the end examination. Section "A" shall consist of Four (4) short answer questions having one question from each unit. The students are required to attempt all the questions. Each question shall be of three (3) marks. Section "B" shall consist of Eight (8) long answer questions having two questions from each unit. The students are required to attempt four (4) questions selecting one question from each unit. Each question shall carry 12 Marks.

Internal Assessment

Internal Assessment test will be conducted after the completion of fifty percent course of syllabi of theory part. There will be two sections A and B. Section A shall comprises of two questions from first two units and students are required to attempt any one question. Each question shall carry five marks. Section B shall consist of five questions of two marks each and students are required to attempt all the five questions.

Books Recommended

1. V.B. Kale, Soil Geography, Himalaya publishing house.
2. Brian T. Bunting, The Geography of Soil, Routledge library editions, Taylor and Francis group.
3. Nikhil Krishna De, H. K. Sarkar, Soil Geography, Sribhumi Publishing Company.
4. Bipin B. Mishra, The Soils of India, Rawat publications.
5. Pannalal Das, Swapna Basu, Soils and Soils of India, Grantha Tirtha Publishers.
6. Dilip Kumar Das Introductory Soil Science, Kalyani Publishers.

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PART – 2: PRACTICALS: SOIL SAMPLING AND TESTING

Unit- I

- 1.1. Soil Texture Determination by Feel Method
- 1.2. Determination of Soil Consistence.
- 1.3. Particle Size Analysis by Hydrometer Method.
- 1.4. Soil Structure Determination.

Unit- II

- 2.1. Determination of Soil Colours
- 2.2. Determination of Soil Bulk Density.
- 2.3. Determination of Particle Density of Soil.
- 2.4. Determination of soil PH with the help of PH test strip.

NOTE FOR PAPER SETTER

Practical Examination/ Evaluation

1.	Daily Performance:	05 Marks
2.	Attendance:	05 marks
3.	Written Test:	10 Marks
4.	Viva:	5 Marks

Books Recommended

1. Backman, H.O and Brady, N.C.(1960.)The Nature and Properties of Soils, Mc Millan NewYork.
2. Bennet, Hugh H.: Soil Conservation, McGraw Hill, New York .
3. Bunting, B.T.(1973) The Geography of Soils, Hutchinson, London.
4. Chairas, D. D., Reganold, J. P., and Owen, O. S., (2002): National Resource Conservation and Management for a Sustainable Feture, 8th edition, Prentice Hall, Englewood Cliffs.
5. Clarke G.R.(1957) Study of the Soil in the Field, Oxford University Press, Oxford.
6. Daji, J. A., (1970): A Text Book of Soil Science, Asia Publishing House, Londaon.
7. Foth H.D. and Turk, L.M.(9172) Fundamentals of Soil science, John Wiley, New York.


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8. GovindaRajan, S.V. and Gopala Rao, H.G.(9178) Studies on Soils of India Vikas, New Delhi.
9. MathurNeeru, (2012): Soils, Rajat Publications, New Delhi-02 (India).
10. Mc. Bride, M.B.(1999)Environmental Chemistry of Soils, Oxford University Press, New York.

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Syllabus of Geography at FYUG Under CBCS as per NEP – 2020 Semester- VIII
(Examination to be held in May/June 2026, 2027 and 2028)

Major Course

Course Code:	UMJGOT-804
Course Title:	BIOGEOGRAPHY
Credits:	4 (3Th +1P)
Total No. of Lecturers (Theory)	45
Total No. of Lecturers (Practical)	30
Duration of Exam (Theory)	3 Hours
Duration of Exam (Practical)	1 ½ Hours
Total Marks:	100
Theory	75 Marks End Exam: 60 Marks Mid Semester Assessment Test: 15 Marks
Practical	25 Marks Continuous Assessment: 10 Marks Final Examination: 15 Marks

PART -1 THEORY

Unit- I

- 1.1. Nature, scope and significance of biogeography.
- 1.2. Main fields of biogeography: Historical, Ecological, and Conservation biogeography.
- 1.3. Concept of Biosphere, Ecology and types of Ecosystem
- 1.4. Trophic levels, food web, food chain and transfer of energy.

Unit- II

- 2.4. Biodiversity: Concept of Biodiversity
- 2.5. Biodiversity 'hot spots' of the world
- 2.6. Distribution of plant life on the earth and its relation to soil, climate and human activities.
- 2.7. Geographical distribution of animal life on the earth and its relation to vegetation types, climate and human activities.

Unit – III

- 3.1. Status of Biodiversity in Western Ghats and Himalayas.
- 3.2 Evolution, dispersal and migration of animals

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3.3. Phyto-geographic and zoo-geographic regions of the world

3.4. Conservation and Management of Ecological Regions

Unit- IV

4.1. National Parks, Wild life sanctuaries and bio reserves of India

4.2. National forest and wild life policy of India

4.3. Human impacts on natural ecosystem

8. Ecological consequences, human perception and adjustment with respect to flood, drought and earthquake.

NOTE FOR PAPER SETTING

End Examination

There will be two sections in the end examination. Section "A" shall consist of Four (4) short answer questions having one question from each unit. The students are required to attempt all the questions. Each question shall be of three (3) marks. Section "B" shall consist of Eight (8) long answer questions having two questions from each unit. The students are required to attempt four (4) questions selecting one question from each unit. Each question shall carry 12 Marks.

Internal Assessment

Internal Assessment test will be conducted after the completion of fifty percent course of syllabi of theory part. There will be two sections A and B. Section A shall comprises of two questions from first two units and students are required to attempt any one question. Each question shall carry five marks. Section B shall consist of five questions of two marks each and students are required to attempt all the five questions.

Books Recommended

1. Banskereau, M. (1957): Biogeography-An Ecological Perspective, Ronald Press, New York.
2. Bhattacharya, N.N. (2007): Biogeography, Eastern Book House, Guwahati.

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3. Cox Barry, C. et al. (1977): Biogeography: An Ecological and Evolutionary Approach, Cox Blackwell, Oxford.
4. Hagget, R. J. (1995): Geography: An Evolutionary Approach, Routledge, London.
5. Hagget, R.J. (1995): Fundamentals of Biogeography, Routledge, London.
6. Joy, T. (1993): Biogeography: A Study of Plants in the Ecosphere, Longman, London. Mani, M.S. (ed.) (1972): Biogeography of India, Springer, The Hague.
7. Lomolino, M. V., Riddle, B. R., & Whittaker, R. J. (2017). Biogeography. 5th Edition. Sinauer Associates, Inc.
8. Mathur, H.S. (1998): Essentials of Biogeography, Amy Printers, Jaipur.
9. Martin, C. (1975): Plant Geography, Methuen, London.
10. Phillip, J. (1957): Zoogeography: The Geographical Distribution of Animals, John Wiley, New York.
11. Robinson, H. (1982): Biogeography, Mc Donald and Evans, London.
12. Seddon, B. (1971): Biogeography, Duckworth, London.
13. Spellberg, I.F. and Sawyer, J. W.D. (1999): An Introduction to Applied Biogeography, Cambridge University Press, Cambridge.
14. World Resource Institute, (2001): People and Ecosystems: World Resources Institute, Washington

PART – 2: PRACTICALS: AERIAL PHOTOGRAPHS AND SATELLITE IMAGERIES

Unit- I

- 1.1 Introduction to Aerial Photography.
- 1.2 Geometry, Relief Displacement and Image Formations.
- 1.3 Classification of Aerial Photographs and their Utility.
- 1.4 Elements of Image Recognition and Aerial Photo interpretation.

Unit- II

- 2.1. Satellite imagery interpretation.

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- 2.2. Elements and techniques of image interpretation.
- 2.3. Image interpretation strategies: interpretation keys.
- 2.4. Steps of Image interpretation and their uses.

NOTE FOR PAPER SETTER

Practical Examination/ Evaluation

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|----|--------------------|----------|
| 1. | Daily Performance: | 05 Marks |
| 2. | Attendance: | 05 marks |
| 3. | Written Test: | 10 Marks |
| 4. | Viva: | 5 Marks |

BOOKS RECOMMENDED

1. Sabins, Floyd F, 1986, Remote Sensing: Principles & Interpretation, Freeman, New York.
2. Lillesand, T.M. & Klefer, R.W. 1987, Remote Sensing and Image Interpretation, John Wiley & Sons, New York.
3. Curran, Paul J; 1985, Principles of Remote Sensing, Longman, London.
4. Estes, J.E. and LW Senger, 1974, Remote sensing Techniques for environmental Analysis, Hamilton, Santa Barbara, California.
5. Lillesand, Thomas M. and RW Klefer, 1987, Remote Sensing and Image Interpretation, John Wiley & Sons, New York.
6. Slater, PN, 1980, Remote Sensing: Optics and Optical System, Addison-Wesley, Reading.
7. Jamles, B. Camp bell, Introduction to Remote Sensing-2 nd Edi. Taylor & Francis, London.
8. Fazal, S. (2009), Remote Sensing Basics, Kalyani Publishers, New Delhi.
9. Reddy, A. (2001), Textbook of Remote Sensing And Geographical Information Systems, BS Publication Hyderabad.

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Minor Course

Course Code:	UMIGOT-805
Course Title:	Political Geography
Credits:	4 (3Th +1P)
Total No. of Lecturers (Theory)	45
Total No. of Lecturers (Practical)	30
Duration of Exam (Theory)	3 Hours
Duration of Exam (Practical)	1 ½ Hours
Total Marks:	100
Theory	75 Marks End Exam: 60 Marks Mid Semester Assessment Test: 15 Marks
Practical	25 Marks Continuous Assessment: 10 Marks Final Examination: 15 Marks

PART -1 THEORY

Unit I

- 1.5 Introduction to Political Geography: Definition, Geography & Politics.
- 1.6 History & Development of Political Geography.
- 1.7 Approaches of Political Geography: Whittlesey's landscape approach, Functional approach, Centrifugal & centripetal forces.
- 1.8 Unified Field Theory.

Unit II

- 2.1 Concept of Nation, State, and Nation-state.
- 2.2 Buffer Zones, Frontiers, Boundaries.
- 2.3 Genetic and functional Classification of boundaries.
- 2.4 Morphological classification of boundaries

Unit- III

- 3.1 Political Geography of India: Changing political map and emergence of new states and UTs
- 3.2 Diversity and Pluralism in India.
- 3.3 Geopolitics of Indian Ocean.
- 3.4: Water Sharing disputes of India.

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Unit- IV

- 4.1 Organic theory of State.
- 4.2 Heartland theory.
- 4.3 Rimland theory.
- 4.4 Marxist theory.

NOTE FOR PAPER SETTING

End Examination

There will be two sections in the end examination. Section "A" shall consist of Four (4) short answer questions having one question from each unit. The students are required to attempt all the questions. Each question shall be of three (3) marks. Section "B" shall consist of Eight (8) long answer questions having two questions from each unit. The students are required to attempt four (4) questions selecting one question from each unit. Each question shall carry 12 Marks.

Internal Assessment

Internal Assessment test will be conducted after the completion of fifty percent course of syllabi of theory part. There will be two sections A and B. Section A shall comprises of two questions from first two units and students are required to attempt any one question. Each question shall carry five marks. Section B shall consist of five questions of two marks each and students are required to attempt all the five questions.

Books Recommended

1. Alexander, L. M. (1963): World Political Patterns, Ram McNally, Chicago.
2. Adhikari, Sudepta (2012): Political Geography, Rawat Publication, Jaipur, India.
3. Dikshit, R. D. (1996): Political Geography: A Contemporary Perspective, Tata McGraw Hill, New Delhi.
4. Dikshit, R. D. (1999): Political Geography: A Century of Progress, Sage, New Delhi.
5. De Blij, H. J. and Glasson, M. (1968): Systematic Political Geography, John Wiley, New York.

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Syllabus of Geography at FYUG as per NEP – 2020 Semester- VIII
(Examination to be held in May/June 2026, 2027 and 2028)

6. Pounds, N. J. G. (1972): Political Geography, McGraw Hills, New York.
7. Taylor, R. J. (1989) Political Geography, Longman, UK.

PART – 2: PRACTICALS: REMOTE SENSING

Unit- I

- 1.5. Remote Sensing: Meaning and significance.
- 1.6. Utility of remote sensing in Geography.
- 1.7. History and Development of Remote Sensing.
- 1.8. Advantages and Limitations of Remote Sensing.

Unit- II

- 2.1. Types of remote sensing: Active and Passive Remote sensing.
- 2.2. Stages of remote sensing, Ideal and real remote sensing.
- 2.3. Principles of Remote Sensing.
- 2.4. Electromagnetic spectrum and characteristics of different wavelength regions.

NOTE FOR PAPER SETTER

Practical Examination/ Evaluation

5.	Daily Performance:	05 Marks
6.	Attendance:	05 marks
7.	Written Test:	10 Marks
8.	Viva:	5 Marks

BOOKS RECOMMENDED

1. Sabins, Floyd F, 1986, Remote Sensing: Principles & Interpretation, Freeman, New York.
2. Lillesand, T.M. & Klefer, R.W. 1987, Remote Sensing and Image Interpretation, John Wiley & Sons, New York.
3. Curran, Paul J; 1985, Principles of Remote Sensing, Longman, London.
4. Estes, J.E. and LW Senger, 1974, Remote sensing Techniques for environmental Analysis, Hamilton, Santa Barbara, California.
5. Lillesand, Thomas M. and RW Klefer, 1987, Remote Sensing and Image Interpretation, John Wiley & Sons, New York.
6. Fazal, S. (2009), Remote Sensing Basics, Kalyani Publishers, New Delhi.


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Syllabus of Geography at ~~BYUP~~ ^{FYUGP} under CBCS as per NEP – 2020 Semester- VIII
(Examination to be held in May/June 2026, 2027 and 2028)

Major Course

Course Code:	UMJGOT-806
Course Title:	RESEARCH METHODOLOGY
Credits:	4
Total No. of Lecturers	45
Duration of Exam	3 Hours
Total Marks:	100
Final Examination	100 Marks End Exam: 75 Marks Mid Semester Assessment Test: 25 Marks

Unit – 1

- 1.1. Meaning of Research.
- 1.2. Objectives and Basic steps of Research.
- 1.3. Criteria of good research.
- 1.4. Types of research.

Unit – II

- 2.1. Meaning of research problem
- 2.2. Selection of research problem.
- 2.3. Review of related literature- Meaning, necessity and sources.
- 2.4. Hypothesis- Meaning, function and types of hypothesis; Null/Alternative hypothesis

Unit - III

- 3.1. Variables- Meaning and types.
- 3.2. Research design
- 3.3 Types of research design- exploratory, descriptive, diagnostic and experimental.
- 3.4. Sampling- Meaning and types of sampling; Probability and Non-Probability.

Unit - IV



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- 4.1. Tools and techniques of data collection- questionnaire, schedule, interview, observation, case study, survey etc.
- 4.2. Statistics and its significance in research.
- 4.3. Research reports: Writing preliminaries, main body of research, references and bibliography; Meaning and importance of workshop, seminar, conference, symposium etc. in research.
- 4.4. Plagiarism- Concept and significance of plagiarism

NOTE FOR PAPER SETTING

End Examination

There will be two sections in the end examination. Section "A" shall consist of Five (5) short answer questions having one question from each unit. The students are required to attempt all the questions. Each question shall be of three (3) marks. Section "B" shall consist of Ten (10) long answer questions having two questions from each unit. The students are required to attempt five (5) questions selecting one question from each unit. Each question shall carry 12 Marks.

Internal Assessment

Internal Assessment test will be conducted after the completion of fifty percent course of syllabi of theory part. There will be six questions and students are required to attempt any five questions and each question shall carry five marks.

BOOKS RECOMMENDED

1. Garg. B. L, Karadia, R., Agarwal, F. and Agarwal, U.K., 2002. An introduction to Research Methodology, RBSA Publishers.
2. Kothari, C.R., 1990. Research Methodology: Methods and Technigues. New Age International.
3. Sinha, S.C. and Dhiman, A.K., 2002. Research Methodology Ess Ess Publications. 2 volumes.
4. Trochim, W. M. K., 2005. Research Methods: the concise knowledge base, Atomic Dog Publishing.
5. Donald Cooper & Pamela Schindler, Business Research Methods - TMGH, 9th edition
6. Alan Bryman & Emma Bell, Business Research Methods -Oxford University Press.


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(Examination to be held in May/June 2026, 2027 and 2028)

7. Pani, Prabhat Kumar, 2015. Research Methodology: Principles and Practices, S. K. Book Agency, New Delhi
S. Pani, Prabhat Kumar, 2015. Statistical applications in Social Science Research. Avon Publications, New Delhi

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Syllabus of Geography at FYU as per NEP – 2020 Semester- VIII
(Examination to be held in May/June 2026, 2027 and 2028)

Minor Course

Course Code:	UMIGOT-807
Course Title:	Political Geography
Credits:	4 (3Th +1P)
Total No. of Lecturers (Theory)	45
Total No. of Lecturers (Practical)	30
Duration of Exam (Theory)	3 Hours
Duration of Exam (Practical)	1 ½ Hours
Total Marks:	100
Theory	75 Marks End Exam: 60 Marks Mid Semester Assessment Test: 15 Marks
Practical	25 Marks Continuous Assessment: 10 Marks Final Examination: 15 Marks

PART -1 THEORY

Unit I

- 1.1 Introduction to Political Geography: Definition, Geography & Politics.
- 1.2 History & Development of Political Geography.
- 1.3 Approaches of Political Geography: Whittlesey's landscape approach, Functional approach, Centrifugal & centripetal forces.
- 1.4 Unified Field Theory.

Unit II

- 2.1 Concept of Nation, State, and Nation-state.
- 2.2 Buffer Zones, Frontiers, Boundaries.
- 2.3 Genetic and functional Classification of boundaries.
- 2.4 Morphological classification of boundaries

Unit- III

- 3.1 Political Geography of India: Changing political map and emergence of new states and UTs
- 3.2 Diversity and Pluralism in India.
- 3.3 Geopolitics of Indian Ocean.
- 3.4: Water Sharing disputes of India.



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Unit- IV

- 4.1 Organic theory of State.
- 4.2 Heartland theory.
- 4.3 Rimland theory.
- 4.4 Marxist theory.

NOTE FOR PAPER SETTING

End Examination

There will be two sections in the end examination. Section "A" shall consist of Four (4) short answer questions having one question from each unit. The students are required to attempt all the questions. Each question shall be of three (3) marks. Section "B" shall consist of Eight (8) long answer questions having two questions from each unit. The students are required to attempt four (4) questions selecting one question from each unit. Each question shall carry 12 Marks.

Internal Assessment

Internal Assessment test will be conducted after the completion of fifty percent course of syllabi of theory part. There will be two sections A and B. Section A shall comprises of two questions from first two units and students are required to attempt any one question. Each question shall carry five marks. Section B shall consist of five questions of two marks each and students are required to attempt all the five questions.

Books Recommended

1. Alexander, L. M. (1963): World Political Patterns, Ram McNally, Chicago.
2. Adhikari, Sudepta (2012): Political Geography, Rawat Publication, Jaipur, India.
3. Dikshit, R. D. (1996): Political Geography: A Contemporary Perspective, Tata McGraw Hill, New Delhi.
4. Dikshit, R. D. (1999): Political Geography: A Century of Progress, Sage, New Delhi.
5. De Blij, H. J. and Glasson, M. (1968): Systematic Political Geography, John Wiley, New York.



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(Examination to be held in May/June 2026, 2027 and 2028)

6. Pounds, N. J. G. (1972): Political Geography, McGraw Hills, New York.
7. Taylor, R. J. (1989) Political Geography, Longman, UK.

PART – 2: PRACTICALS: REMOTE SENSING

Unit- 1

- 1.1. Remote Sensing: Meaning and significance.
- 1.2. Utility of remote sensing in Geography.
- 1.3. History and Development of Remote Sensing.
- 1.4. Advantages and Limitations of Remote Sensing.

Unit- II

- 2.1. Types of remote sensing: Active and Passive Remote sensing.
- 2.2. Stages of remote sensing, Ideal and real remote sensing.
- 2.3. Principles of Remote Sensing.
- 2.4. Electromagnetic spectrum and characteristics of different wavelength regions.

NOTE FOR PAPER SETTER

Practical Examination/ Evaluation

1.	Daily Performance:	05 Marks
2.	Attendance:	05 marks
3.	Written Test:	10 Marks
4.	Viva:	5 Marks

BOOKS RECOMMENDED

1. Sabins, Floyd F, 1986, Remote Sensing: Principles & Interpretation, Freeman, New York.
2. Lillesand, T.M. & Klefer, R.W. 1987, Remote Sensing and Image Interpretation, John Wiley & Sons, New York.
3. Curran, Paul J; 1985, Principles of Remote Sensing, Longman, London.
4. Estes, J.E. and LW Senger, 1974, Remote sensing Techniques for environmental Analysis, Hamilton, Santa Barbara, California.
5. Lillesand, Thomas M. and RW Klefer, 1987, Remote Sensing and Image Interpretation, John Wiley & Sons, New York.
6. Fazal, S. (2009), Remote Sensing Basics, Kalyani Publishers, New Delhi.

by *Shohel* *Singh*

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7. Reddy, A. (2001), Textbook of Remote Sensing and Geographical Information Systems, BS
Publication Hyderabad.

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Skill Enhancement Course

Course Code:	USEGOP808
Course Title:	Research Project/ Dissertation
Credits:	12
Total Marks:	300
Internal Examination	200 Marks
External Examination	100 Marks

Objective and Expected Learning Outcomes

After completing the course, the students will be able to:

- I. Develop research competencies and skills at the undergraduate level.
- II. It will facilitate the students for the application of theoretical knowledge in solving real world problems, fostering research competencies among undergraduate students.
- III. Apply knowledge in solving /analyzing/ exploring a real life situation/complex problem in different Geographical settings.
- IV. Acquire special / advanced knowledge through project work.

Exploration and identification of the areas of geographical research (with the guidance of supervisor)

- I. Identification of Research Problem.
- II. Conceptual/theoretical background.
- III. Preparation of synopsis.
- IV. Power Point Presentation of synopsis

Students will be required to prepare the synopsis in the VII semester. Students will be allotted one faculty member as supervisor for research work. The permanent faculty with Ph. D and research experience (as per UGC guidelines) shall be the supervisor after being recognized by the Department Research Committee of the Nodal Department. Each student will be assigned a



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topic based on the major area / subject. The student shall prepare a research proposal/synopsis for an empirical study.

After the approval of a research proposal / synopsis, the students shall undertake the following activities relating to the research work.

- I. Review of literature.
- II. Development/procuring tools and formulation of required questionnaire.
- III. Data collection.
- IV. Analysis and interpretation.
- V. Report writing.
- VI. Viva-voce

Students will carry out the research work with the allotted faculty member (supervisor). The student shall prepare a dissertation based on the synopsis approved by the College Research Committee. Students are required to submit two copies of the dissertation based on the topic, assigned to them. It should have certification by the supervisor concerned authenticating that the work has been done by the candidate and it should be submitted to the department before the commencement of end semester examination.

SCHEME OF EXAMINATION/ASSESSMENT

Evaluation of synopsis shall be done by the College Research Committee. Students have to present their research work via PPT presentation before the College Research Committee. The research proposal or synopsis will be scrutinized by the College Research Committee for the concerned subject. The College Research Committee shall have at least one member from Nodal Department of the University.

For evaluation of the dissertation, students have to present their research work via PPT presentation. The viva-voce examination shall be conducted after the PPT presentation is done by the student.

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Evaluation Scheme

Total Marks: 300

Internal Examination: 200

Dissertation 100 Marks

Synopsis: 50 Marks

Work and Conduct / Daily Performance: 50 marks

External Examination: 100 (External Examination shall be conducted by any faculty members from other College having Ph. D. Degree.

Presentation of PPT: 50 Marks

Viva-voce: 50 Marks

Handwritten signatures in blue ink: "G. S. Shobal" and "Singh"