

B.A./B.Sc. 4th Semester

A. Theory-4 Credits

60 Marks

GG-CR-17401

Title: Geography of India

Credit: I

1. Land: Physical Divisions and Drainage Systems of India.
2. Climate: General Climatic Conditions and Seasonal Variations in India
3. Monsoons: Mechanism and its types (Classical and Modern theory)
4. Soil: Types and Distribution

Credit: II

1. Population: Distribution, Density and Growth since 1951
2. Land Resources and Utilization
3. Characteristics of Indian Agriculture
4. Distribution and Production of Food Crops: Rice and Wheat

Credit: III

1. Distribution and production: Iron Ore, Coal and Petroleum in India
2. Cotton Textiles Industry
3. Iron and Steel Industry
4. Major Industrial Regions of India

Credit: IV

1. Physical Divisions: Drainage, Climate and vegetation (J&K)
2. Population Distribution: Density and Growth (J&K)
3. Agriculture with special reference to Horticulture and Saffron (J&K)
4. Tourism industry (J&K)

Suggested Readings

1. Drew, F .K.,The territories of India, Kashmir State. Standard Press London. 1979
2. Gazetter of Kashmir and Ladakh. (1890) Reprint (1974)
3. Lawrence, S.W. The Valley of Kashmir, Oxford University Press. 1895
4. Raina, A.N. Geography of Jammu and Kashmir. National Book Trust, New Delhi, 1971.
5. Spate, O.H.K., India and Pakistan, Mac Million & Co. 1967.
6. Singh, R.L., India, Regional Geography, Banarus Hindu University, 1987
7. Qazi, S.A., Geography of India with special reference to J&K State, APH Publishing Co. 2000.
8. Majid Hussain, Systematic Geography of Jammu and Kashmir, Rawat Publications 2000
9. R. L. Singh, India- A Regional Geography, National Geographical Society of India 2003

10. Chandra Vijay Purty, Geography of India, ABD Publishers.
11. Majid Hussain, Geography of India, 2nd Ed. Tata Mcgraw Hill, 2011
12. D.R Khullar, India- A Comprehensive Geography, *Kalyani publishers, New Delhi, 2011.*
13. Husain M., Geography of India, *Mc Graw Hill Publications, U.P., 2017.*
14. Kaul A. K., Studies In Geography of Jammu & Kashmir, Rawat Publications, Jaipur 2014.
15. Husain M., Indian & World Geography, McGraw Hills, 2011.

B. Practical-2 Credits**30 Marks****GGP-CR-17401*****Title: Remote Sensing Techniques*****Credit:-1**

1. Remote Sensing: Definition, Scope and Applications
2. Types of Remote Sensing
3. Sensors and their types
4. Types of Remote Sensing Data

Credit:-II

- 1) Scale of Aerial Photographs and Methods of its Determination
- 2) Visual image interpretation
- 3) Digital image processing
- 4) Ground truthing (one day field visit)

Suggested Readings

1. Kali Charan Sahu, Textbook of Remote Sensing and Geographic Information System, Atlantic Publishers and Distributors 2008
2. B.C. Panda, Remote Sensing- Principles and Applications, Viva Books 2008
3. Jensen, R Fundamentals of Remote Sensing. Shree Maitree Printech Pvt Limited Noida 2007.
4. Lillesand, Kiefer & Chipman, Remote Sensing And Image Interpretation, Wiley, 2011.

B.A. / B.Sc. 4th Semester

C. Skill Enhancement Course (4 Credits)

60 Marks

GG-SEC-17401

Title: Mapping Techniques

Credit –I

Maps- Definition and Essentials
Classification of maps
Scale- Definition and importance
Ways of expressing scales
Graphical scale-Construction of plain, comparative and diagonal scales.

Credit -II

Relief representation- Various methods
Contours- definition, importance and drawing of contours
Representation of different types of land forms- U shape and V shape valleys, conical hill, plateau, ridge, etc.

Credit -III

Use of point, line and polygon symbols
Isopleths
Choropleths
Chorochromatic maps
Dot maps and Flow diagrams.

Credit –IV

Representation of Climatic data- Climograph and Hythergraph.
Representation of Socio-economic data
One day Socio-economic field survey (Report)
Attendance, Record File and Viva Voce.

Suggested Readings

1. Robinson, A.H et al., Elements of Cartography, John Wiley & Sons, U.S.A., 1995.
2. Sarkar, A.K., Practical Geography: A Systematic Approach, Oriental Longman, Calcutta, 1997.
3. Singh, R.L and Dutt, P.K., Elements of Practical Geography, Kalyani Publishers New Delhi, 1979.
4. Gopal Singh, Map World and Practical Geography, Vikas Publishing House, 2000.
5. Khullar, D.R., Essentials of Practical Geography, New Academic Publishing Co., Jalandhar, 2013.