



**NEP Syllabus
For
Four-Year B.A. /B.Sc. (Hons.) in Geography
(with Research)**

**Effective from 2024-2025
Academic Session**

**Department of Geography
(Faculty of Sciences)
Jamia Millia Islamia (A Central
University)
New Delhi- 110025, India**



**Semester-wise Modules of the Four-Years Bachelors Programme (B.A/B.Sc. Hons. with Research) of the
Department of Geography, Jamia Millia Islamia, New Delhi**

1st Year B.A./B.Sc. (Hons.) Programme

| Se m. | Major Core (DSC) | Minor Generic Elective (GE) | Multi- disciplinary | Ability Enhance ment Compuls ory Course (AECC) | Skill Enhanceme nt Course (SEC) | Value Added Course (VAC) | Summer Intern- ship | Research Project | Total Cred its |
|----------|--|---|--|--|--|---|---------------------------|---------------------|----------------------|
| I | DSC 1 – Geomorphology (Credit 4) 24GEOC101 DSC 2 - Climatology & Oceanograph y (Credit 4) 24GEOC102 | DSE - World Geography (Credit 4) 24GEOM101 | -- Environmental issues and management (Credit 3) 24GEOI101 | ----- | SEC - Understand ing Maps (Credit 3) 24GEOS101 | VAC - Environme ntal Geography (Credit 2) 24GEOV101 | | | 20 |
| II | DSC 3 - Human Geography (Credit 4) 24GEOC201 DSC 4 - Geography of India (Credit 4) 24GEOC202 | DSE - Population Geography (Credit 4) 24GEOM201 | – Environmental policies and challenges (Credit 3) 24GEOI201 | ----- | SEC - Interpretati on of socio- economic data (Credit 3) 24GEOS201 | VAC – Digital Empowerm ent (Credit 2) 24GEOV201 | | | 20 |

Note:

- DSC= Discipline Specific Core,
- GE =Generic elective (It is a pool of courses meant to provide multidisciplinary or interdisciplinary education to students),
- DSE = Discipline Specific Elective
- *Summer Internship: If the student wishes to re-enter the degree programme, he/she will have to undertake summer internship (Credit 4)



**DEPARTMENT OF GEOGRAPHY
JAMIA MILLIA ISLAMIA**

Detailed Syllabus for 4-Year Undergraduate Course in Geography with Research (*First Semester*)

Course Name: Geomorphology
Course Code: 24GEOC101
Total Marks: 100

Course Type: Core Course
Credits: 4

GEOMORPHOLOGY

UNIT – I

Nature and Scope of Geomorphology; Geological Time Scale; Origin of the Continents and Oceans: Wegner's theory; Plate tectonics and Earth surface configuration; Interior of the Earth.

Unit - II

Major Landforms: Mountains, Plateaus, plains: their classification and distribution; Earth's Materials: Rocks- their origin, classification and characteristics.

Unit - III

Earth Movements: Endogenetic Processes: Epeirogenetic and Orogenetic - Folds and Faults; Earthquakes: Classification and world distribution; Volcanic activity: causes, types, distribution and resultant landforms.

Unit - IV

Geomorphic agents and processes: Exogenetic Processes, Denudational agents Weathering Process: Physical, Chemical and Biological; Fluvial, Aeolian, Karst, Coastal and Glacial landforms; Cycle of Erosion: Davis and Penck

Suggested Readings:

1. Dayal, P., 2015: Text-Book of Geomorphology, Shukla Book Depot, Patna.
2. Gabler R.E, Peterson. J.F., Trapasso, L.M. 2009. Essentials of Physical Geography Brooks/ Cole Cengage Learning.
3. Kale, V. and Gupta, A., 2004. Elements of Geomorphology. Oxford University press, Calcutta.
4. Strahaler, A.H., 2013 (6th edition). Introducing Physical Geography. Wiley Pub.
5. Thornbury, W.D., 1991. Principles of Geomorphology, Wiley Eastern Ltd., New Delhi
6. Worcester, P.C. 1969. Text Book of Geomorphology. East West Press, New Delhi.
7. Savindra Singh. Fundamental Concepts in Geomorphology. Prayag Pustak Bhawan, Allahabad.
8. Gautam, A. 2015. Geomorphology. Sharda Pustak Bhawan.
9. Hugget, R.J. 2011. Fundamentals of Geomorphology. Routledge Pub.
10. Harvey, 2012. A. Introducing Geomorphology: A Guide to Landforms and Processes. Dunedin Academic Press.



**DEPARTMENT OF GEOGRAPHY
JAMIA MILLIA ISLAMIA**

Detailed Syllabus for 4-Year Undergraduate Course in Geography with Research (*First Semester*)

Course Name: Climatology and Oceanography
Course Code: 24GEOC102
Total Marks: 100

Course Type: Core Course
Credits: 4

CLIMATOLOGY AND OCEANOGRAPHY

Unit – I: Introduction to Climatology

Introduction to Climatology; Climatology and Meteorology; Atmosphere: Origin, Composition and Structure; Heat Budget of the Earth and the Atmosphere; Weather and Climate: Elements and Controlling Factors; Atmospheric Pressure and pressure belts; Winds: Planetary, Periodic and Local.

Unit- II: Atmospheric Circulations

Moisture in the Atmosphere: Humidity, Evaporation and Condensation, Precipitation; Atmospheric disturbances: Air Masses and Fronts; Cyclones: Tropical and Temperate.

Unit- III: Introduction to Oceanography

Oceanography: Definition, Nature and Scope; Reliefs of the Ocean Basins, Submarine Canyons; Sub Marine Relief of Pacific, Atlantic and Indian Ocean.

Unit – IV: Oceanic Circulations

Oceanic Circulation: Temperature; Salinity; Currents; Tides: Origin and Types; Ocean Deposits; Coral Reefs and Atolls; Marine resources: Conservation and management.

Suggested Readings:

1. Barry, R.G. and Chorley R.J. 2009 (9th edition). Atmosphere Weather and climate, Routledge
2. Critchfield, J.H. 1983 (4th edition). General Climatology. Phi Learning Pub.
3. Das, P.K. 2011(3rd edition). The Monsoons. National Book Trust, New Delhi
4. Fein, J.S. and Stephens, P.N. 1987. Monsoon. John Wiley and Sons, New York
5. India Met. Deptt: Climatological Tables of observation in India
6. Lal, D.S. 2012. Climatology. Sharda Pustak Bhawan, Allahabad.
7. Lydolph.P.E. 1985. The Climate of the Earth. Roman & Allanheld Pub.
8. Menon, P.A. 1989. Our Weather, National Book Trust, New Delhi.
9. Thompson, R.D. and Perry, A. 1997. Applied Climatology: Principles and Practice. Routledge.
10. Andrew D. Ward and Stanley Trimble 2004 (2nd edition). Environmental Hydrology, Lewis
11. Garg, S.K. 2005. Hydrology and Water Resource. Khanna Publishers, New Delhi.
12. Garrison Tom. 2012. Geography: An Invitation to Marine Science. Brooks/Cole. New York
13. Garrison Tom. 2008. Essentials of Oceanography. Brooks/Cole. New York
14. Savindra Singh. 2013. Oceanography. Prayag Pustak Bhawan, Allahabad.
15. Singh, V.P., 1992. Elementary Hydrology. Prentice Hall Inc., Upper Saddle River,
16. Timothy, Davie, (2003), Fundamentals of Hydrology. Routledge, Taylor and Francis Group, U.K.
17. Hussain, T and Tahir, M. 2012. Oceanography. Jawahar Pub., New Delhi
18. Siddhartha, K. (2013). Oceanography: A Brief Introduction. Kisalaya Pub., New Delhi
19. Hussain, Majid. 2010. Fundamentals of Physical Geograph



**DEPARTMENT OF GEOGRAPHY
JAMIA MILLIA ISLAMIA**

Detailed Syllabus for 4-Year Undergraduate Course in Geography with Research (*First Semester*)

Course Name: World Geography
Course Code: 24GEOM101
Total Marks: 100

Course Type: Minor Course
Credits: 4

WORLD GEOGRAPHY

Unit - I: Geography of Asia

Southeast Asia: Physical and Human Overview: Population, Climate and Natural Vegetation, Mineral Resources, Colonial and Modern Economics.

Southwest Asia: Physical and Cultural Overview: Population, Climate and Natural Vegetation, Mineral Resources, Petroleum Economy.

China: Physical and Human Overview: Population, Climate and Natural Vegetation, Mineral Resources, Economy.

Unit - II: Europe

Geographical Location, Landforms, Climate, Resources, Environmental Modifications and Crisis.

History of Development; Population: Demographics, Religion, Languages, Level of Living, Distribution, Urbanization.

Unit - III: U.S. and Canada

Physical Geography, Resources for Industrial Growth, Demographic Characteristics, Population Mobility, Economic Growth and Restructuring.

Unit - IV: Sub-Saharan Africa

Sub-Saharan Africa: Main Regions; Physical and Cultural Diversity, Climate, Colonial Legacy.

Suggested Readings:

1. English, Paul Ward and James, A. Miller: World Regional Geography: A Question of Place, John Wiley, New York, 1989.
2. Jackson, Richard H. and Lloyd, E. Hudman: World Regional Geography: Issues for Today, John Wiley, New York, 1991.
3. Don, R. Hoy (ed.): Essentials of Geography and Development, MacMillan, New York, 1980.
4. Hussain, M. 2008, World Geography, Rawat Publications, Jaipur.
5. Khan, N. and Hoda, M. (2008) A Text Book on General Geography of Asia, Kalyani Publisher, New Delhi.
6. Goh, C.L., Morgan G.C. (1982) Human and Economic Geography, Oxford University Press



**DEPARTMENT OF GEOGRAPHY
JAMIA MILLIA ISLAMIA**

Detailed Syllabus for 4-Year Undergraduate Course in Geography with Research (*First Semester*)

Course Name: Understanding Maps
Course Code: 24GEOS101
Total Marks: 75

Course Type: Skill Enhancement Course
Credits: 3

UNDERSTANDING MAPS

Unit - I: Scale and Maps

Scale: Concept, Definition and Significance; Types of the scale: Plain Scale, Comparative Scale, and Diagonal Scale. Concept and Definition of Maps; Historical Evolution of Maps; Elements of Map; Significance and Usage of Maps.

Unit - II: Types of Map

Classification of Maps on the Basis of Scale: Large Scale Maps: Cadastral Map, Topographical Map, Small Scale Maps: Wall Map, Atlas Map, On the Basis of Function: Physical Map: Relief map, Geological Map, Climate Map, Soil Map, Social and Cultural Maps: Population Map, Political Map, Economic Map, Transportation map.

Unit - III: Projections and Techniques

Definition, Properties and Usage: Cylindrical Projection, Conical projection, Zenithal Projection, Mercator Projection. Surveying: Meaning and concept; Role of Remote Sensing and GIS in Modern Map Making.

Suggested Readings:

1. Monkhouse. F. J. and Wilkinson. H. R. 1972, Maps and Diagrams. Methuen, London
2. Singh R. L. and Singh R. P. B., 1999: Elements of Practical Geography, Kalyani Publisher
3. Sarkar S, 2015. Practical geography: A Systematic Approach, Orient Blackswan Pvt Ltd
4. Robinson A. H., 2009. Elements of Cartography, John Wiley and Sons, New York.
5. Khan Jabir, Hasan T & Shamshad, 2014, Scales, Academic Publications,
6. Misra, R. P. 1969. Fundamentals of Cartography, Prasaranga. University of Mysore, Mysore.



**DEPARTMENT OF GEOGRAPHY
JAMIA MILLIA ISLAMIA**

Detailed Syllabus for 4-Year Undergraduate Course in Geography with Research (*First Semester*)

Course Name: Environmental Geography

Course Type: Value Added Course

Course Code: 24GEOV101

Credits: 2

Total Marks: 50

ENVIRONMENTAL GEOGRAPHY

Paper - VI (GEB - 203 H)

Unit- I: Introduction to Environment

Concept, Definition, and Components; Human and Environment Interaction; Humanization of Nature and Naturalization of Human; Environmental disorders: Human Impact on Land, Climate and Natural vegetation.

Unit – II: Environmental Issues & Global Problems

Climate change, Global warming and Ozone depletion; Local and Regional Problems: Extreme hydrological events; Deforestation and Desertification; Pollution of air and water; Depletion of Freshwater resources and Degradation of Soils.

Suggested Readings:

1. Adams, W.M.1995: Green development: Environmental sustainability in the Third World; London: Routledge.
2. Alexander, D. 1993: Natural Disasters, New Delhi: Research Press.
3. Allaby, M. 1996: Basics of Environmental science, London: Routledge.
4. Baarrshes, W.H. 1996: Eco-fiction: Understanding the Environmental Debate, London: Routledge.
5. Brayant, E.A.1991: Natural Hazards, Cambridge: Cambridge University press.
6. Canter,L. W.1996: Environmental Impact Assessment, 2nd edition, New York: McGraw hill.
7. Chapman,D. 1994: Natural Hazards, Melbourne: Oxford University Press.
8. Chapman J.L. and Reiss, M.J. 1993: Ecology: Principles and applications, Cambridge: 10. Cambridge; University Press.
9. Colls, J.1997: Air Pollution: An Introduction, London: Chapman and Hall.
10. Das, R.C. and Behera, B.K. 2008: Environmental Science: Principle and Practice, Prentice Hall of India Pvt. Ltd., Delhi



SEMESTER - I

Environmental Issues and Management

Credit: 3

Total Marks- 75

Code-24 GEOT 101s

Unit I-Introduction to Environment

Definition, meaning and components; Human and Environment Interaction; Humanization of Nature and Naturalization of Human; Environmental disorders: Human Impact on Land, Climate and Natural vegetation.

Unit-II Environmental Issues Global Problems

Climate change, Global warming and Ozone depletion; Local and Regional Problems: Extreme hydrological events; Deforestation and Desertification; Pollution of air and water; Depletion of Freshwater resources and Degradation of Soils.

Unit - III: Environmental Strategies

Uncertainty in managing environmental problems, Sustainable environmental development; Preservation and conservation; Integrated management and community participation in management.

Books Recommended:

1. Adams, W.M.1995: Green development: Environmental sustainability in the Third World; London: Rout ledge.
2. Alexander, D. 1993: Natural Disasters, New Delhi: Research Press.
3. Allaby, M. 1996: Basics of Environmental science, London: Routledge.
4. Baarrshes, W.H. 1996: Eco-fiction: Understanding the Environmental Debate, London: Routledge.
5. Brayant, E.A.1991: Natural Hazards, Cambridge: Cambridge University press.
6. Canter, L. W.1996: Environmental Impact Assessment, 2nd edition, New York: McGraw hill.
7. Chapman, D. 1994: Natural Hazards, Melbourne: Oxford University Press.
8. Chapman J.L. and Reiss, M.J. 1993: Ecology: Principles and applications, Cambridge: 10. Cambridge; University Press.
9. Colls, J,1997: Air Pollution: An Introduction, London: Chapman and Hall.
10. Das, R.C. and Behera, B.K. 2008: Environmental Science: Principle and Practice, Prentice Hall of India Pvt. Ltd., Delhi



**DEPARTMENT OF GEOGRAPHY
JAMIA MILLIA ISLAMIA**

Detailed Syllabus for 4-Year Undergraduate Course in Geography with Research (*Second Semester*)

Course Name: Human Geography
Course Code: 24GEOC201
Total Marks: 100

Course Type: Core Course
Credits: 4

HUMAN GEOGRAPHY

Unit - I: Introduction to Human Geography

Definition, nature and scope of human Geography; Branches of human Geography; Dichotomy of physical and human geography; Concepts of man and environment relationship; Environmental Determinism and Possibilism.

Unit - II: Patterns of Population Distribution

Growth and distribution of population in the world; Age-sex structure; Theories of Population growth: Malthus, Demographic transition; Migration: Recent theories, Causes and consequences; Human Development Index.

Unit - III: Human Settlements

Settlement: Size, situation and classification; Origin and evolution of rural settlements; Types and patterns of rural settlement; Origin and growth of urban settlements; Process and pattern of urbanization, classification of cities based on site, size and functions.

Unit - IV: Human Adaptation to Environment

Evolution of man; Man in ecosystem; Ecological adaptation; Human adaptation in equatorial, monsoon, tundra and hot desert; Habitat, Economy and Society of Bakarwals, Tharus, Naga and Bhills.

Suggested Readings:

1. Ahmad, Q.S. (1963): Major Natural Regions, S. Chand Publisher, Delhi.
2. AmitHarichandran, M.A. Chaudhry (2010): Global Vision Publication House, New Delhi-11002.
3. Kaushik, S.D. (1970): ManavBhoogol, Rastogi & Co., Meerut.
4. Hoyt, J.B. (1973): Man and the Earth, Prentice Hall, New Jersey.
5. Husain, Majid (2010): Human Geography, Rawat Publication, Jaipur.
6. Husain, Majid (2010): ManavBhoogol, Rawat Publication, Jaipur.
7. Leong, G. C. (1995): Certificate Physical and Human Geography, Oxford Publication.



DEPARTMENT OF GEOGRAPHY

JAMIA MILLIA ISLAMIA

Detailed Syllabus for 4-Year Undergraduate Course in Geography with Research (*Second Semester*)

Course Name: Geography of India

Course Code: 24GEOC202

Total Marks: 100

Course Type: Core Course

Credits: 4

GEOGRAPHY OF INDIA

Unit - I

India as a Geographical Unit; Region: Concept, definition and types; Scheme of Regionalization: O.H.K. Spate and R.L. Singh; Concept of planning region, Watershed as a Planning Region.

Unit - II

Geology and Structure; Physical Divisions of India; Drainage; Climate; Climatic Regions; Soil; Natural Vegetation, Agro-climatic Regions.

Unit – III

Population Growth, Distribution and its factors; Population Composition: Sex ratio, Rural and Urban breakup, Literacy, Work force, Language, Religion, Caste, Old-age population.

Unit - IV

Agricultural: Food crops, Cash crops, Green Revolution, Agriculture through Five-Year Plans; Agricultural Regionalization, Minerals: Production and Distribution of Metallic resources; Energy resources: Conventional and Non-Conventional; Industries: Mineral based and Agro-based; Industrial Regions, Industrial Policy, SEZ, Transport and Communication.

Suggested Readings:

1. Deshpande C.D: Indian-A Regional Interpretation, Northern Book centre, New Delhi.1992.
2. Chauhan.T., 1997: Geography of Rajasthan, Vigyan Prakashan Jodhpur.
3. Farmer. B.H. An Introduction to South Asia, Methuen, London, 1983.
4. Govt. of India-Reference Annual, 2001 Pub.div; New Delhi.
5. Govt. Of India: National Atlas of India Natmo Publication, Calcutta.
6. Hussain.M. 2009,Geography of India, Tata Mc Graw-Hill companies Book.
7. Kalpana Raja Ram, 2007, Geography of India, Spectrum Books, New Delhi 110058.



8. Govt.Of India: The Gazetteer of India. Vol. I & III Publication division.
9. Learmonth A.T.A et.al (ed) Man and land of South Asia, Concept
10. Mitra, A: levels of Regional development of India, Census of India, Vol.I, Part I-A (i) and (ii) New Delhi, 1967.
11. Routray, J.K.: Geography of Regional Disparity, Asian Institute of Technology, Bangkok, 1993.
12. Sdhekar.S.(edt.)2004, Regional Planning in India, Anmol Publications, New Delhi-2
13. Shafi, M: Geography of South Asia, McMillan & Co; Calcutta, 2000.



**DEPARTMENT OF GEOGRAPHY
JAMIA MILLIA ISLAMIA**

Detailed Syllabus for 4-Year Undergraduate Course in Geography with Research (Second Semester)

Course Name: Population Geography
Course Code: 24GEOM201
Total Marks: 100

Course Type: Minor Course
Credits: 4

POPULATION GEOGRAPHY

Unit-I: Introduction to Population Geography

Subject matter and scope of Population geography, Demography and population Geography; Sources of Population Data: Census, Vital Statistics and National Sample Survey, National Family Health Survey; Approaches in population Geography.

Unit-II: Population Growth and Distribution

Population Growth and change: Trends of Population Growth in the World; World Pattern of population distribution; factors affecting population distribution; Population Dynamics: Fertility, Mortality and Migration, Theories of Population growth: Malthusian theory, Theory of Demographic Transition;

Unit-III: Population Composition

Age and Sex Composition; Rural and Urban Composition; Economic Composition Literacy and Education; Religion/Caste/ Race etc.

Unit-IV: Population Problems and Policies-India

Sex Ratio Imbalance; Gender issues: Ageing, crime against Women, Human Trafficking, Child Abuse; HIV/AIDS; Population Policy of India.

Suggested Readings:

1. Barret,H.R.(1995): Population Geography, Oliver and Boyd.
2. Bhende,A. and Kanitkar T.(2000): Principles of Population Studies, Himalaya Publishing house.
3. Bogue,Donald, J. (1969):Principles of Demography, John Wiley and Sons, New York.
4. Chandana, R.C. (1986): A Geography of Population: Concepts, Determination and pattern, Kalyani publisher, New Delhi.
5. Chandana,R.C.(2008): Geography of Population: Concepts, Determinants and Patterns,7th Edition, Kalyani Publishers, New Delhi.
6. Clarke,J.I. (1965): Population Geography, Pergamon press Ltd; Oxford.
7. Clarke,J.I.(1972):Population Geography, Second Edition,Pergamon Press Ltd; Oxford.
8. Clarke,J.I. (Ed.)(1984):Geography and Population: Approaches,Pergamon Press Ltd; Oxford.



9. Demco,G.J; Rose, H.M.Schnell,G.A. (1970):Population Geography,McGraw Hill Book Co; New York.
10. Jones, H.R.(1990): Population Geography,Sage.
11. Jones, H.R. (2000): Population Geography, 3rd Edition, Paul Chapman, London.
12. Peters,G.L. and Larkin R.P (1979): population Georaphy-Problems,Concepts and Prospects, Kendall Hunt Publication Co.
13. Swain, A.K.P.C. (2008): A Text Book of Population Studies, Kalyani Publishers, New Delhi.
14. Trewartha, G.T. (1969). A Geography of Population: World Patterns,John Wiley and Sons,New york.
15. weeksJohn R.2005: Population: An Introduction to Concepts and Issues.9th Edition, Belmont, C.A.: Wadsworth Publication.
16. Wilson, M.G.A. (1968): Population Geography, Thomas Nelson, London.
17. Mahendra K. Premi(2001) Population of India, In the New Millennium: Census, National book trust.New Delhi.
18. Mahendra K. Premi, Dipendra Nath Das (2011) Population of India, B.R. Publishing Corporation, Delhi.



**DEPARTMENT OF GEOGRAPHY
JAMIA MILLIA ISLAMIA**

Detailed Syllabus for 4-Year Undergraduate Course in Geography with Research (*Second Semester*)

Course Name: Interpretation of Socio-Economic Data
Course Code: 24GEOS201
Total Marks: 75

Course Type: Skill Enhancement Course
Credits: 3

INTERPRETATION OF SOCIO-ECONOMIC DATA

Unit-I: Basic Statistics

Types of statistical data, Preparation of Frequency Distribution Table, Graphical Description; Frequencies (Quartiles, Quintiles, Deciles, Percentiles), Cross Tabulation; Central Tendency (Mean, Median and Mode); Dispersion (Mean Deviation, ANOVA, Quartile Deviation and Standard Deviation, Variance and Coefficient of variation)

Unit-II: Measures of Association

Karl Pearson's and Spearman's Rank correlation, Product-moment correlation co-efficient; Measures of causal relationship: Simple regression; Coefficient of determination, Test of significance of correlation and regression coefficients

Unit-III: Representation of Population and Social Data

Population distribution: Rural (dot diagram) Urban (sphere diagram); population growth (line graph); Age and sex pyramid; literacy (Choropleth- Standard deviation method); Distribution of tribal population (polybar diagram).

Unit-IV: Representation of Economic and Transport data

Land utilization (proportional pie diagram); Distribution of crops (simple bar, compound bar and polybar diagram); Distribution of major industries (geometric symbols); Flow of goods and services/traffic (flow diagram)

Suggested Readings:

1. Alvi, Z., 1995. Statistical Geography, Rawat publishers, Jaipur.
2. Mahmood, A., 1986. Statistical Methods in Geographical Studies, Rajesh Pub., New Delhi.
3. Monkhouse, F. J. and Wilkinson, H. R., 1963. Maps and Diagrams, Methuen, London.
4. Singh, R. L. and Dutt, P. K., 1970. Elements of Practical Geography, Students' Friends, Allahabad.
5. Singh, R. L. and Singh, R., 1973. Manchitra avam Prayogatmak Bhoogol, Central Book Depot, Allahabad.



**DEPARTMENT OF GEOGRAPHY
JAMIA MILLIA ISLAMIA**

Detailed Syllabus for 4-Year Undergraduate Course in Geography with Research (*Second Semester*)

Course Name: Digital Empowerment

Course Type: Value Added Course

Course Code: 24GEOV201

Credits: 2

Total Marks: 50

DIGITAL EMPOWERMENT

Unit-I: Digital Empowerment and Cyber Communication

Introduction to Digital Empowerment and Digital Inclusion, Needs and Challenges in bridging the Digital Divide; Digital India Programme and its Initiatives: (DigiLocker,

E-Hospitals, e-Pathshala, BHIM, e-Kranti, Digital Seva Portal and e-Health Campaigns); Public utility portals of Govt. of India (RTI, Health, Finance, Income Tax filing and Education).

Communication and Collaboration in Cyberspace, Methods of Electronic Communication: (Electronic mail, Blogs and Social Media); Tools/Platforms for Online Learning; Collaborative digital platforms and techniques (File sharing, Messaging, Video Conferencing).

Unit-II: Cyber security and Digital Ethics

Safe and Secure Cyberspace, Online Security and Privacy; Threats in the Digital world: (Data Breach and Cyber Attacks); Blockchain Technology; Internet of Things (IoT) and Artificial Intelligence (AI) in Cyberspace; Cybersecurity Initiatives by the Govt of India.

Ethical Issues in the Digital World; Netiquettes; Ethics in Digital Communication and Cyberspace; Guidelines for responsible and Ethical Behavior in the Digital Realm.

Suggested Readings:

1. Ajay Dutta and Omika. "Digital Empowerment: Digital Transformation: Empowering People for Success" Kindle Edition.
2. David Sutton. "Cyber security: A practitioner's guide", BCS Learning & Development Limited, UK, 2017.
3. Rodney Jones and Christoph Hafner. "Understanding digital literacies: A practical Introduction". Routledge Books, 2nd edition, 2021.
4. <https://www.digitalindia.gov.in>
5. <https://www.digilocker.gov.in>
6. <https://www.cybercrime.gov.in>



7. <https://www.cybersafeindia.in>
8. <https://ekumbh.aicte-india.org/>
9. <https://www.meity.gov.in/cyber-surakshit-bharat-programme>
10. <https://www.mha.gov.in/document/downloads/cyber-safety-handbook>