

# Syllabus

2<sup>nd</sup> Semester

**M.A. (Geography)**

24/GEO/CC201

**Gurugram University, Gurugram, Haryana(India)**  
M.A. Geography-I (Semester-II) Syllabus (as per NEP 2020 w.e.f session 2024-25)  
**QUANTATIVE METHODS IN GEOGRAPHY**

Paper Code: **CC-A05 (Theory: Core Paper)**  
Course Id: \_\_\_\_\_

Credit: 04 (3+1+0) L+T+P Hrs/Week	Total Marks	100
Time: 3 Hours	End Semester Exam:	70 Marks
<b>Note:</b> The question Paper will have five units. Four units of question paper will contain two essay type questions (having 14 marks of each question) from each unit of the syllabus. Candidate(s) are required to attempt one question from each unit. The first unit having question no. 1 shall be compulsory and shall contain seven short answer type questions (having 2 marks of each question) covering the entire syllabus. All questions carry equal marks.	Internal Assessment:	30 Marks
	Attendance	5
	Assignment	5
	Sessional Exam	20

**Course Outcomes (COs):**

- CO-01: After completion of this course students will have in-depth knowledge of the Physical Geological diversity of India.
- CO-02: They will be able to understand the diversification and issues of Indian Agriculture.
- CO-03: They will know the distribution of resources and assessment of economic development of India.
- CO-04: They will able to understand and correlate the Geographical aspects of Land, Climate, People and Economy of Indian sub continent.

**UNIT-I**

**Statistics:** Meaning, nature and scope of Statistics; Geography and Statistics, Statistical Data: Organization and classification of Data, Data series; Graphic representation of frequency distribution, Histograms and Frequency curve, Sampling: Different Methods, signification of Sampling in Geographical study.

**UNIT-II**

**Measures of Central Tendency:** Arithmetic Mean, Median, Mode  
**Centrographic techniques:** Mean Centre, Median Centre and Standard Distance.

**UNIT-III**

**Measures of dispersion:** Mean deviation, Standard Deviation; Coefficient of Variation, Skewness,  
**Measures of Inequality:** Lorenz Curve and Gini's Coefficient; Location Quotient. Crop combination.

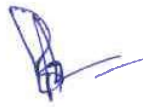
**UNIT-IV**

**Correlation and regression:** Scatter diagram; correlation by Spearman's Rank Difference and Karl Pearson's; Significance testing of Correlation; Regression analysis, regression equations construction of regression line, computation of residuals and mapping.

**Suggested Readings:**

- David M. Smith (1975): Patterns in Human Geography, Penguin, Harmondsworth.
- Ebdon, D (1983): Statistics in Geography : A Pratical Approach, Blackwell, London.
- Gregory, S. (1978): Statistical Methods and the Geographer (4th Edition), Longman, London.

- Mahmood, A.(1993): Statistical Methods in Geographical Studies, Rajesh Publications, New Delhi.
- Mathews, J.A. (1987): Quantitative and Statistical Approaches to Geography, Practical Manual, Pergmon, Oxford.
- Pal, S.K. (1998): Statistics for Geoscientists; Techniques and Applications, Concept Publishing Company, New Delhi.
- Peter, J. Taylor (1977): Quantitative Methods in Geography, Houghton Mifflin Company, Boston.
- Robert Hammond and Patrick Mc. Cullagh (1974): Quantitative Methods in Geography, Clarendon Press, Oxford.
- Yeates, Mauris (1974): An Introduction to Quantitative Analysis in Human Geography, McGraw Hill , New York.



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M.A. Geography-I (Semester-II) Syllabus (as per NEP 2020 w.e.f session 2024-25)

**GEOGRAPHICAL THOUGHT**

Paper Code: **CC-A06 (Theory: Core Paper)**

Course Id: 241-06

Credit: 04 (3+1+0) L+T+P Hrs/Week	Total Marks	100
Time: 3 Hours	End Semester Exam:	70 Marks
<b>Note:</b> The question Paper will have five units. Four units of question paper will contain two essay type questions (having 14 marks of each question) from each unit of the syllabus. Candidate(s) are required to attempt one question from each unit. The first unit having question no. 1 shall be compulsory and shall contain seven short answer type questions (having 2 marks of each question) covering the entire syllabus. All questions carry equal marks.	Internal Assessment:	30 Marks
	Attendance	5
	Assignment	5
	Sessional Exam	20

**Course Outcomes (COs):**

- This course is to acquaint the students with the philosophy, methodology and historical development of geography as a professional field during different periods.
- CO-02: They will acquire knowledge on the contribution made by geographers of different schools.
- CO-03: They will integrate with the broad currents of thought of dualism in Geography in the historical period.
- CO-04: They will understand the development of concepts of geography in Modern time.

**UNIT-I**

**Geography:** Geography as a discipline, its Nature and Scope; Place of Geography in relation to other Natural and Social Sciences.

Nature of geographic knowledge during ancient (Greek, Roman and Indian) and Medieval (Arab) periods, Dark age, during Discovery age. Impact of Explorations and Discoveries,

**UNIT-II**

**Development of Geography: Modern Period:** Foundations of modern geography, German, French, British and American schools of thought.

Contributions of Kant, Humboldt, Ritter, W. M. Davis, Retzel and Blache in Geography.

**UNIT-III**

**Dualism in Geography:** Physical & Human Geography, Descriptive & Analytical, Systematic & Regional Geography; myth and the reality about Dualisms.

Environmental Determinism, Possibilism, Neo-determinism, Positivism.

**UNIT-IV**

**Development of Geography in 21st Century:** Conceptual and methodological developments and changing paradigms: Quantitative revolution, Radical, Behavioral, Post modernism.

**Development of Geography in India:** Early Development of Geography in India, Developmental Initiatives during Colonial Period and Post-Independence, Contributions of Indian Geographers.

**Suggested Readings:**

- Adhikari. S. (2015): Fundamentals of Geographical Thought. Orient Blackswan. New Delhi.

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- Dikshit, R. D. (2018): Geographical Thought: A Contextual History of Ideas, Prentice Hall of India Pvt. M 97, New Delhi.
- Dubey, B. (1967): Geographical Concept in Ancient India – NGSI, Varanasi
- Gosal, Singh Gurdev (2015): History of Geographic Thought. Chandigarh: Panjab University.
- Hartshorne, R. (1959): Perspective on the Nature of Geography. Chicago: Rand McNally.
- Holt-Jensen, A. (2009): Geography: History and Concepts- A Student's Guide. London: Sage. (3rd edition).
- Hussain, M. (1995): Evolution of Geographical Thought, Rawat Pub., Jaipur, India.
- James, P.E. (1972): All Possible Worlds: A History of Geographical Ideas. Indianapolis: Odyssey Press. (Latest Edition 2005 is authored by Geoffrey J Martin).
- Jha, A.K. (2021): Bhaugolik Chintan ke Vividh Aayam, Bihhar Hindi Granth Academy, Patna.
- Johnston, R.J. (2005): Geography & Geographers: Anglo-American Human Geography since 1945. London: Arnold
- Misra, R.P. (1983): Contributions to Indian Geography Concepts and Approaches, Heritage Publication, New Delhi.
- Peet, Richard (1978): Radical Geography. London: Methuen.
- Peet, Richard (1998): Modern Geographical Thought. London: Blackwell.
- Stoddart, D.R. (1981): Geography, Science and Social Concern. Oxford: Blackwell.
- Tavlör, G (1953): Geography in the 20th Century, Methuen, London
- \* P. Development of Geographic Knowledge in Ancient India, Bharatiya Kashan, Varanasi.

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**AGRICULTURE GEOGRAPHY**

Paper Code: DSE-02 (Optional: Theory Paper)

Course Id:

Credit: 03 (2+1+0) L+T+P Hrs/Week	Total Marks	75
Time: 3 Hours	End Semester Exam:	50Marks
<b>Note:</b> The question Paper will have five units. Four units of question paper will contain two essay type questions (having 10 marks of each question) from each unit of the syllabus. Candidate(s) are required to attempt one question from each unit. The first unit having question no. 1 shall be compulsory and shall contain five short answer type questions (having 2 marks of each question) covering the entire syllabus. All questions carry equal marks.	Internal Assessment:	25Marks
	Attendance	5
	Assignment	5
	Sessional Exam	15

**Course Outcomes (COs):**

CO-01: The students will be able to understand different basic concepts of Agriculture Geography.  
 CO-02: They will be able to classify determinants and types of Agriculture in different regions.  
 CO-03: They will critically analyze the agricultural regionalization and the related major concepts.  
 CO-04: They will be able to illustrate the problems and prospects of agriculture in different regions.

**UNIT-I**

**Agriculture Geography:** Definition, Nature, Scope and significance; Objectives of Agriculture Geography; Approaches to study of Agriculture Geography; Sources of Agriculture data

**UNIT-II**

**Determinants of Agriculture:** Physical Determinants; Economic Determinants; Social Determinants; Technological Determinants  
**Agricultural Types:** Shifting cultivation; Subsistent Farming; Commercial Grain Farming; Mixed Farming; Horticulture; Plantation Agriculture

**UNIT-III**

**Agricultural Regionalization:** Definition and Concept of Region; Crop Combination Techniques: Weaver and Thomas method;  
 Crop Diversification: Bhatia's method and Doi's method; Agricultural efficiency: Kendall's ranking coefficient; Agricultural Regions in India

**UNIT-IV**

**Problem and Prospects of Agriculture:** Significance of agriculture in world region; Importance of agriculture in Indian Economy; Problems faced by Indian agriculture; Prospects for development of agricultural economy in India.

**Recent Concepts in Agriculture:** Recent Concepts: Organic farming, Agro tourism, Biotechnology in agriculture, Community farming; National agricultural policy of India.

### Suggested Readings:

- Bayliss Smith, T.P. (1987): The Ecology of Agricultural Systems. Cambridge University Press, London.
- Berry, B.J.L. et. al. (1976): The Geography of Economic Systems. Prentice Hall, New York.
- Brown, I.R. (1990): The Changing World Food Prospects - The Nineties and Beyond.
- Bryant, C.R., Johnston, T.R. (1992): Agriculture in the City Countryside, Belhaven Press, London.
- Burch, D., Gross, J. and Lawrence, G. (eds.), (1999): Restructuring Global and Regional Agriculture, Ashgate Publishing Company, Burlington.
- Dyson, T. (1996): Population and Food, Global Trends and Future Prospects. Routledge, London.
- Grigg, D.B. (1984): Introduction to Agricultural Geography, Hutchinson, London.
- Ferroni, Marco, (2013): Transforming Indian agriculture- India 2040: Productivity, Markets and Institutions, Sage Publications, New Delhi.
- Mohammad, N. (1992): New Dimension in Agriculture Geography, Vol. I to VIII, Concept Publishing Company, New Delhi.
- Shafi, M. (2006): Agricultural Geography. Pearson Education, Delhi.
- Singh, J., and Dhillon, S.S. (1994): Agricultural Geography, Tata McGraw Hill, New Delhi.
- Singh, R. B. (2000): Environmental Consequences of Agricultural Development: A Case Study from the Green Revolution state of Haryana, India, Agriculture, Ecosystems and Environment 82, 97-103.
- S. Gregor, H.P. (1970): Geography of Agriculture. Prentice Hall, New York.
- Tiwari, R. and Singh, B. (1994): Krishi Bhoogol, Prayag Pustak Bhandar (in Hindi), Allahabad..

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**REGIONAL DEVELOPMENT AND PLANNING**

Paper Code: **CC-A07 (Theory: Core Paper)**

Course Id: \_\_\_\_\_

Credit: 04 (3+1+0) L+T+P Hrs/Week	Total Marks	100
Time: 3 Hours	End Semester Exam:	70 Marks
<b>Note:</b> The question Paper will have five units. Four units of question paper will contain two essay type questions (having 14 marks of each question) from each unit of the syllabus. Candidate(s) are required to attempt one question from each unit. The first unit having question no. 1 shall be compulsory and shall contain seven short answer type questions (having 2 marks of each question) covering the entire syllabus. All questions carry equal marks.	Internal Assessment:	30 Marks
	Attendance	5
	Assignment	5
	Sessional Exam	20

**Course Outcomes (COs):**

- CO-01: The student will get familiarized with the theoretical foundations and conceptual grounding of Regional Planning and Development.
- CO-02: They will understand the relationship between Regional Planning and Geography through different concepts.
- CO-03: They will understand the concept of region in geography and objectives of Planning a region.
- CO-04: They will understand the importance and the practical approach of planning in India.

**UNIT-I**

**Regional Planning:** Basic Concepts, Nature, Scope and Historical development.

Selection of indicators and measures of regional disparities.

Conceptual and theoretical framework: Concept of development, regional development;

Regional planning in the Developed World and Regional Planning in Less Developed World.

**UNIT-II**

**Geography and Regional Planning:** Role of Geography in Regional development and planning.

Methodology: Design Method, Regional Method. Techniques: Analytical and Procedure.

**Regional Growth Theories:** Friedman's core-periphery theory; polarization and trickle-down effect theory of Hirschman; growth pole theory of Perroux.

**UNIT-III**

**Regions for Planning:** Concept of Regions: Delineation and Variables, Types of Regions,

Planning Region: Concept and Characteristics, Need and importance of Planning Region.

Principles and objectives of Regional Planning. Planning Regions of India given by Town and Country Planning department; Problems and Prospects of Regional Planning in India.

**UNIT-IV**

Regional development and planning in India: Multi level planning (state, district, block and Panchayat level planning);

Regional Policies in the Indian Five Year Plans; Planning policies for regional development;

Regional backwardness: criteria, strategy and programs for backward area development.

**Suggested Readings:**

**Note:** The question paper would be set from the syllabus covering the full content. The question paper for the written examination (4 hours duration) shall be made by the two external examiners in assistance with the internal examiner (who generally would be the course teacher). The answer books would be evaluated by the external and internal examiner on the day of examination. The question paper in this course will be divided into two parts.

**Part-I** will consist of 5 short answer type questions carrying 2 marks each.

**Part-II** will consist of 8 Choice based descriptive (long answer type) questions/exercises from all units and carrying 10 marks each by selecting equal questions from each unit. Students will have to answer 4 questions/exercises by selecting 1 from each unit on mandatory basis.

**Distribution of Marks:** In Practical Paper, the marks would be divided as follows:

	Type	Marks and no. of questions			Total Marks	
(a).	<b>Written Examination</b>	Part-I	2 Marks 5 questions	10	50	70
		Part-II	10 marks 4 questions	40		
	Viva-Voce				20	
(b).	<b>Internal Assessment</b>	File Record			25	30
		Attendance			5	
<b>Total Marks =</b>						<b>100</b>

#### Suggested Readings:

- Khullar, D.R. (2015): Practical Geography, Kalyani Publishers, Ludhiana.
- Mishra, R.N. and Sharma, P.K. (2020): Prayogik Bhoogol, (in Hindi), Rawat Publications, Jaipur.
- Monkhouse, F.J. and Wilkinson, H.R. (1971); maps and Diagrams, Methuen, London.
- Robinson A. H. (2009): Elements of Cartography, John Wiley and Sons, New York.
- Sarkar, A. (2015): Practical Geography: A Systematic Approach, Orient Black Swan Private Ltd., New Delhi.
- Sharma, J. P. (2020): Prayogtmak Bhugol ki Rooprekha (in Hindi), Rastogi Publications, Meerut.
- Singh, R. L. and P. K. Dutta, (2012): Prayogtmak Bhugol (in Hindi), Central Book Depot, Allahabad.
- Singh R. L. and Rana P. B. Singh (1999): Elements of Practical Geography(in Hindi), Kalyani Publishers, New Delhi.
- Taylor, D.R.F.(1985): Education and Training in Contemporary Cartography, John Willey.
- Yadav, H.L. (2000): Fundamentals of Practical Geography (in Hindi), Radha Publication, New Delhi.