

**GOVT. V.Y.T. P.G. AUTONOMOUS COLLEGE
DURG (C.G.)**

SYLLABUS

FOR

P.G. GEOGRAPHY

SEMESTER EXAMINATION

M. A. SEM. EXAM. : I/III (2023-24)

M. A. SEM. EXAM. : II/IV(2024-25)

**APPROVED BY BOARD OF STUDIES
DEPTT. OF GEOGRAPHY**

**GOVT. V.Y.T. P.G. AUTONOMOUS COLLEGE
DURG (C.G.)**

SYLLABUS

FOR

P.G. GEOGRAPHY

SEMESTER EXAMINATION

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GOVT. V.Y.T. PG. AUTONOMOUS COLLEGE DURG

DEPARTMENT - GEOGRAPHY

Approved syllabus for M.A. GEOGRAPHY by the members of Board of Studies for the
Sessions 2023-24 & 2024-25

The syllabus with the paper combinations is as under

Semester I:

Paper I: GEOMORPHOLOGY	Paper II: ECONOMIC GEOGRAPHY
Paper III: REGIONAL GEOGRAPHY OF INDIA	Paper IV: HISTORY OF GEOGRAPHICAL THOUGHT
V Lab Course / Practical: ADVANCE CARTOGRAPHY	

Semester II:

Paper I: CLIMATOLOGY	Paper II: POPULATION GEOGRAPHY
Paper III: REGIONAL PLANING AND DEVELOPMENT	Paper IV: REMOTE SENSING TECHNIQUES
V Lab Course / Practical: MAP PROJECTION INTERPRETATION OF TOPO.SHEET ; SURVEING – DUMPY LEVEL, THEODOLITE SURVEY.	

Semester III:

Paper I: OCEANOGRAPHY	Paper II: SETTLEMENT GEOGRAPHY
Paper III : SOCIAL GEOGRAPHY	Paper IV: RESEARCH METHODOLOGY
V Lab Course / Practical : REMOTE SENSING AND QUANTITATIVE TECHNIQUE	

Semester IV:

Paper I: AGRICULTURE GEOGRAPHY	Paper II: BIO-GEOGRAPHY
Paper III: NATURAL RESOURCE MANAGEMENT	Paper IV: GEOGRAPHICAL INFORMATION SYSTEM AND COMPUTER MAPPING
V Lab Course / Practical / PROJECT BASED ON FIELD WORK (SOCIO AND ECONOMIC SURVEY)	

The syllabus for M.A. GEOGRAPHY is hereby approved for the sessions 2023-24

Name and Signatures

Chairperson/H.O.D.	Departmental members
Subject Expert (University Nominee).....	1.
Subject Expert (College Nominee).....	2.
Subject Expert (College Nominee).....	3.
Industrial Area (Representative).....	4.
Meritorious Alumni of Postgraduate.....	5.
Professors of other department of the same Faculty	6.
.....

Syllabus and Marking Scheme for M.A. First/ Second/Third/Fourth Semester Session 2023-24

Paper No.	Title of the Paper	Marks Allotted in Theory		Marks Allotted in Internal Assessment		Credits
		Max	Min	Max.	Min.	
I		80	16	20	04	05
II		80	16	20	04	05
III		80	16	20	04	05
IV		80	16	20	04	05
V	Lab Course	100	36	---	---	04
	Total	420		80		24

04 Theory papers	-	320
04 Internal Assessment	-	80
01 Practical	-	100

(A) Lab Work	-	70
(B) Record & Viva	-	30
Total Marks	-	500

*** Applicable for the Semester IV**

- Marks allotted for field Work / Project Report – 80
- Marks allotted for Viva/ Presentation – 20
- Total marks – 100
- Credits – 04

Note: 1. 20 marks = 01 credit in Theory Papers and 25 Marks = 01 Credit in Practical/Project work

DEPARTMENT OF GEOGRAPHY

COURSE CURRICULUM & MARKING SCHEME

M.A. GEOGRAPHY

Semester – I

SESSION : 2023-24



ESTD: 1958

GOVT. V.Y.T. PG AUTONOMOUS COLLEGE, DURG, 491001 (C.G.)

(Former Name – Govt. Arts & Science College, Durg)

NAAC Accredited Grade A⁺, College with CPE - Phase III (UGC), STAR COLLEGE (DBT)

Phone : 0788-2212030

Website - www.govtsciencecollegedurg.ac.in, Email – autonomousdurg2013@gmail.com

Syllabus and Marking Scheme for M.A. First Semester
Session 2023-24


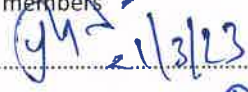

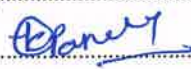








Paper No.	Title of the Paper	Marks Allotted in Theory		Marks Allotted in Internal Assessment		Credits
		Max	Min	Max.	Min.	
I	GEOMORPHOLOGY	80	16	20	04	05
II	ECONOMIC GEOGRAPHY	80	16	20	04	05
III	REGIONAL GEOGRAPHY OF INDIA	80	16	20	04	05
IV	HISTORY OF GEOGRAPHICAL THOUGHT	80	16	20	04	05
V	Practical : ADVANCE CARTOGRAPHY	100	36			04
	Total	420		80		24

04 Theory papers	-	320
04 Internal Assessments	-	80
01 Practical	-	100
(A) Lab Work	-	70
(B) Record & Viva	-	30
Total Marks	-	500

Note: 1. 20 marks = 01 credit in Theory Papers and 25 Marks = 01 Credit in Practical/Project work

The syllabus for M.A. GEOGRAPHY is hereby approved for the sessions 2023-24

Name and Signatures

Name and Signatures		Departmental members
Chairperson/H.O.D.		1. 
Subject Expert (University Nominee).....		2. 
Subject Expert (College Nominee).....		3. 
Subject Expert (College Nominee).....		4. 
Industrial Area (Representative).....		5. 
Meritorious Alumni of Postgraduate.....		6.
Professors of other department of the same Faculty		.....

Govt. V.Y.T. PG Autonomous College, Durg (C.G.)

Autonomous Examination Cell

Question Paper Format and Distribution of Marks for PG Semester Examination

Question paper format for the Post-Graduate Examination has been revised from the Session 2018-19. The revised format will be applicable for all the question papers of Semester I, II, III & IV. The following are the main points of the new format:

1. The question paper will be of **80 marks** (as before)
2. Questions will be asked Unit-wise in each question paper.
3. From each Unit, the questions will be asked as follows :
 - Q.1 Very short answer type question
(Answer in one or two sentences) (02 Marks)
 - Q.2 Very short answer type question
(Answer in one or two sentences) (02 Marks)
 - Q.3 Short answer type question (Answer in 200-250 words) (04 Marks)
 - Q.4 Long answer type questions (Answer in 400-450 words) (12 Marks)

Type of Question	Unit-I	Unit-II	Unit-III	Unit-IV
Very Short (2 Questions) (Maximum two sentences)	2 x 2 = 4 Marks	2 x 2 = 4 Marks	2 x 2 = 4 Marks	2 x 2 = 4 Marks
Short (1 Question) 200-250 words	1 x 4 = 4 Marks	1 x 4 = 4 Marks	1 x 4 = 4 Marks	1 x 4 = 4 Marks
Long answer (1 Question) 400-450 words	1 x 12 = 12 Marks	1 x 12 = 12 Marks	1 x 12 = 12 Marks	1 x 12 = 12 Marks

Note:

1. Question no. 1 and Question 2 will be compulsory.
2. Question no. 3 and 4 will consist of 2 optional questions of which one has to be attempted.
3. As mentioned above, two compulsory very short answer type questions (2+2 marks), one short answer type question with internal choice (4 marks) and one long answer type question with internal choice (12 marks) will be asked from each unit.
Thus there will be questions of 20 marks from each unit and of total 80 marks from all the four units of the syllabus/syllabi.
4. Some papers of English Literature consist of Literary Text. In such question papers, one annotation of 4 marks from each unit will be asked instead of short answer type question. The papers which do not contain literary texts the question paper format and marking scheme will remain the same.
5. For Hindi Literature, refer the Hindi version.
6. Internal Assessment Examination will be as follows :
 - i. Internal Test in each paper (20 marks)
 - ii. Seminar (Power point presentation) in any one of the paper (20 marks)
 - iii. Assignment in each of the remaining papers (excluding the paper of Seminar. (20 marks)
 - iv. Average of marks obtained in internal test + seminar in any one paper and marks obtained in internal test + assignment in rest of the papers will be calculated and taken into consideration.

GOVT. V.Y.T. PG. AUTONOMOUS COLLEGE, DURG**M.A. I Semester Geography****Session – 2023-24****Paper – I****Geomorphology****M.M. - 80****Unit – I Introduction and Evolution**

Geomorphology: Meaning and scope of Geomorphology. Fundamental concepts in Geomorphology : Uniformitarianism, Lithology . Age of the Earth : Geological time scale. Interior of the earth. Geological Structure and landforms : Igneous, sedimentary and Metamorphic Rocks.

Unit – II

Isostasy – View of Pratt, Airy. Continental Drift Theory of Wegner. Plate Tectonic Theory : Concept, Sea Floor Spreading. Earth Movement : Endogenetic : Cracking , Faulting & Exogenetic Forces Earthquake : Causes, Effect & World distributions. Volcano : Types of Volcano, Intrusion & Extrusion topography.

Unit – III

Weathering : Meaning, Factors Controlling weathering & Types of Weathering. Cycle of Erosion : Davis & Penck. Erosional & Depositional Process and resulting landform : Fluvial, Arid, Glacier, Coastal, & Karst.

Unit – IV

Applied Geomorphology : Nature and Scope. Hydro-Geomorphology, Urbanization and Geomorphology, Geomorphology and Engineering, Geomorphology and Minerals. Geomorphic Hazards & Management.

Suggested Readings

1. Chorley, R.J. : Spatial Analysis in geomorphology, Methuen, London, 1972.
2. Goudie, A; The Nature of the environment, oxford & Blackwell, London, 1993.
3. Sharma H.S. (ed) : Perspective in geomorphology, Concept, New Delhi, 1980.
4. Singh, S. : geomorphology, Prayag publication, Allahabad, 1998.
5. Thornbury, W.D. : Principles of geomorphology, Jhonwilley, New York, 1960.
6. सिंह, सविन्द्र : भू- आकृति विज्ञान, वसुन्धरा प्रकाशन गोरखपुर,
7. गौतम, अलका : भू – आकृति विज्ञान, रस्तोगी पब्लिकेशन, मेरठ
8. शर्मा, एच.एस एवं प्रमीला कुमार : भू –आकृति विज्ञान, पंचशील प्रकाशन, जयपुर, 2011

DIRECTIVES FOR STUDENTS, FACULTY AND EXAMINERS

There should be very short, short and long answer type of questions in each and every Unit of the syllabus.

The syllabus for M.A. GEOGRAPHY is hereby approved for the sessions 2023-24.

Name and Signatures

Chairperson/H.O.D.	Departmental members
Subject Expert (University Nominee).....	1.
Subject Expert (College Nominee).....	2.
Subject Expert (College Nominee).....	3.
Industrial Area (Representative).....	4.
Meritorious Alumni of Postgraduate.....	5.
Professors of other department of the same Faculty	6.

GOVT. V.Y.T. PG. AUTONOMOUS COLLEGE DURG

M.A.I Semester Geography

Session 2023-24

PAPER – II

ECONOMIC GEOGRAPHY

M . M. 80

Unit – I

Meaning, Definition & Scope of Economic geography. Systematic development of Economic Geography, Relation of Economic Geography with other branches of social sciences, Classification of the Sectors of Economy (primary, secondary and tertiary).

Unit – II

Factors of location of economic activities : physical, social, economic and Cultural. Concept and techniques of delimitation of agricultural regions, Crop combination and diversification : Weaver and Doi, Von Thunen's model and its modification.

Unit – III

Manufacturing Industries meaning and location : Classification of Industries: Theories of Industrial location – Weber and Losch. Industries: Iron and Steel, Aluminum & Cotton Textiles. Transport : Road , Railway & Water. international Trade, Trade centre, and trade Blocks, Typology of market, market system in urban economy, role of market in the Development of trade and commerce.

Unit – IV

Economic development of India, Impact of Green revolution on Indian economy. Impact of White revolution on Indian economy. Globalization and Indian economy and its impact on environment.

Suggested Reading

1. Barry, J.L.: Geography of Market Centers and Retail Distribution, Prentice Hall, New York, 1967.

2. Chhatarjee, S.P. : Economic Geography of Asia, Allied Book Agency, Calcutta- 1984.
3. Chorley, R.J. and Haggett. P (Ed) Network Analysis in geography: Arnold, 1969.
4. Rebertsop, D. (ed.) : Globalization ondb Enviroment, e. elgarCo. U.K. 2001.
5. Singh J. and Dhillon. S.S. : Agriculture Geography, McGraw Hill, India, New Delhi 1984.
6. Symons, h. : Agricultural Geography : Bell and sons, London, 1972.
7. Wheeler, J.O.et. al. : Economic Geography : John Willy, New York,1995.
8. गौतम, अलका : आर्थिक भूगोल के मूल तत्व, शारदा पुस्तक भवन, इलाहाबाद
9. राव, बी.पी. : संसाधन और पर्यावरण, वसुन्धरा प्रकाशन गोरखपुर, 2010

DIRECTIVES FOR STUDENTS, FACULTY AND EXAMINERS

There should be very short, short and long answer type of questions in each and every unit of the syllabus.

The students are required to study the content mentioned in the curriculum exhaustively.

The syllabus for M.A. GEOGRAPHY is hereby approved for the sessions 2023-24.

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Name and Signatures		Departmental members	
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GOVT. V.Y.T. PG. AUTONOMOUS COLLEGE DURG

M.A.I Semester Geography

Session 2023-24

PAPER – III

REGIONAL GEOGRAPHY OF INDIA

M . M. 80

Unit – I

GEOGRAPHY OF INDIA : Geological Structure, Major Physical features : The Himalayan Mountains, The Northern Plains, Peninsular Plateau, Coastal Plains
Climate Drainage, Natural Vegetation : Types and their distribution, Soils : Types and their distribution.

Unit – II Resources of india

Mineral resources– Iron, Copper, Bauxite. Power of resources – Coal, Petroleum, Natural Gas . industries in India: – Iron & Steel, Cement, Cotton Textiles, Jute.
Industrial regions of India.

Unit – III Agricultur of India

Agricultural : Major characteristics and Problem of India Major crops: Rice, Wheat, Maize, Pulses, Sugarcane, jute, Tea, Agricultural regions of India.
Green revolution of India

Unit – IV population and Regions study of India

Regional divisions of India : O.H.K.spate and R.L.singh. Population of India : Growth, distribution and Density.

Detailed study of :

- | | |
|----------------------------------|------------------------------|
| I. Mahanadi Basin, | II. Dandkaranya region |
| III. Eastern baghel khand region | IV. Jashpur samri pat region |

Suggested Reading

1. Deshpande, C.D. ; India – A Regional Interpretation, ICSSR Northern Book Centre, New Delhi.
2. Singh, Jagdish ; India Gyanodaya, Gorakhpur.
3. Singh, R.L. , ed India – A Regional Geography. National Geographical Society of India. Varanasi 1971.
4. Singh R.L. (ed) : India A – Regional Geography, National Geographical Society, India VARANASHI, 1971.
5. Tirtha R. & Gopal Krishna, Emerging India Reprinted by Rawat, Publication Jaipur.
6. बंसल, सुरेश चंद : भारत का भूगोल, मिनाक्षी प्रकाशन, मेरठ
7. वर्मा, रामविलास : भारत : एक भौगोलिक विवेचन

DIRECTIVES FOR STUDENTS, FACULTY AND EXAMINERS

There should be very short, short and long answer type of questions in each and Every unit the syllabus .

The students are required to study the content mentioned in the curriculum exhaustively.

The syllabus for M.A. GEOGRAPHY is hereby approved for the sessions 2023-24.

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Professors of other department of the same Faculty			

GOVT. V.Y.T. PG. AUTONOMOUS COLLEGE DURG**M.A.I Semester Geography**

Session 2023-24

PAPER – IV**HISTORY OF GEOGRAPHICAL THOUGHT****M . M. 80****Unit – 1**

Meaning, Scope and Nature of geography Braches and Sub-branches of Geography Relationship of Geography with other sciences, Fundamental concept of geography : concept of the earth surface, concept of location, sites and situation, concept of spatial distribution, concept of Areal differentiation.

Unit – 2

Historical development: contribution of different scholars during ancient Greek & roman : Herodotus, Eratosthenes Strabo, Ptolemy. Geographers of ancient India Age of aryabhata, varahmihir. Renaissance period Age of exploration and discoveries – marcopolo, Christopher Columbus vassco-de-Gama. Inventions of renaissance period: printing, astronomical Invention, surveying method, law of evaporation.

Unit – 3

German school : A.V Humboldt, Carl Ritter, Friedrich ratzel

French school : Vidal-de-la-blache, Jean brunhes

British school : H.J. Mackinder, Herbertson

American school : E.C.semple, G.Taylor.

Unit - 4

Quantitative revolution, Determinism, Possibilism, Neo Determinism, Dualism in geography : physical geography versus human geography, systematic geography versus regional geography, Postivism, Behaviouralism.

Suggested Reading

1. Dikshit, R.D. (ed.) : The Art & Science of Geography Integrated Readings ,prentice Hall of India, New Delhi, 1994.
2. Hartshome, R. : perspectives on Nature of Geography, Rand MoNaLly & Co. 1959.
3. Husain, M. : Evolution of Geographic Thout, Rawat Pub, Jaipur, 1984.
4. Johnston, R.J. : The Future of Geography, Methuen, London, 1988.
5. Minshull, R. 5:The Changing Nature og Geography, Hutchinson University Library London, 1970.
- 6 सिंह, जगदीश : भौगोलिक चिंतन का क्रम विकास, आर.के. बुक्स, नई दिल्ली, 2010
- 7 हुसैन माजिद : भौगोलिक चिंतन का इतिहास, रावत पब्लिकेशन, नई दिल्ली, 2004
- 8 श्रीवास्तव, वी.के. : भौगोलिक चिन्तन के आधार, आर.के. बुक्स, नई दिल्ली

DIRECTIVES FOR STUDENTS, FACULTY AND EXAMINERS :

There shall be very short, short and long answer type questions in each and every Unit of the syllabus.

The students are required to study the content mentioned in the curriculum exhaustively.

The syllabus for M.A. GEOGRAPHY is hereby approved for the sessions 2023-24.

Name and Signatures

Chairperson/H.O.D.	Departmental members
Subject Expert (University Nominee).....	1.
Subject Expert (College Nominee).....	2.
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Industrial Area (Representative).....	4.
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GOVT. V.Y.T. PG. AUTONOMOUS COLLEGE DURG

M.A.I Semester Geography

Session 2023-24

PAPER – V

PRACTICAL 1: ADVANCE CARTOGRAPHY

M . M. 100

- Unit – I : Graphs and Diagrams : Triangular Graph, Scatter graphs, and Climatograph.
- Unit – II : Proportional circles, spheres and cubes diagram
- Unit – III : Thematic Maps : Choropleth, Dot maps, Flow maps.
- Unit –IV : Morphometric Analysis : Profiles.
- Unit – V : Slope Analysis (G.H Smith & Ventworth, Block Diagrams).

Suggested Readings

1. Greogory, S. Statistical Methods and the Geographers, Longman, London, 1978.
2. Hammond R. and P.S. Mc Cullah ; Quantitive Techniques in Geography : An Introduction . Clarendanpress, Oxfrrod, 1974.
3. हीरालाल : प्रायोगिक भूगोल, किताब धर कानपुर
- 4 . चौहान, पी. आर. : प्रयोगात्मक भूगोल, वसुन्धरा प्रकाशन, गोरखपुर, 2009

The syllabus for M.A. GEOGRAPHY is hereby approved for the sessions 2023-24.

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Subject Expert (University Nominee).....	2.
Subject Expert (College Nominee).....	3.
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Professors of other department of the same Faculty	

DEPARTMENT OF GEOGRAPHY

COURSE CURRICULUM & MARKING SCHEME

M.A. GEOGRAPHY

Semester – II

SESSION : 2023-24



ESTD: 1958

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(Former Name – Govt. Arts & Science College, Durg)

NAAC Accredited Grade A⁺, College with CPE - Phase III (UGC), STAR COLLEGE (DBT)

Phone : 0788-2212030

Website - www.govtsciencecollegedurg.ac.in, Email – autonomousdurg2013@gmail.com

Syllabus and Marking Scheme for. M.A. Second Semester
Session 2023-24






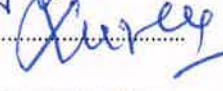

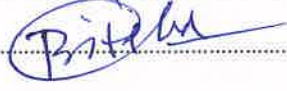


Paper No.	Title of the Paper	Marks Allotted in Theory		Marks Allotted in Internal Assessment		Credits
		Max	Min	Max.	Min.	
I	CLIMATOLOGY	80	16	20	04	05
II	POPULATION GEOGRAPHY	80	16	20	04	05
III	REGIONAL PLANING AND DEVELOPMENT	80	16	20	04	05
IV	REMOTE SENSING TECHNIQUES	80	16	20	04	05
V	Practical: MAP PROJECTION, INTERPRETATION OF TOPO-SHEET; SURVEING – DUMPY LEVEL, THEODOLITE SURVEY.	100	36	---	----	04
	Total	420		80		24

04 Theory papers	-	320
04 Internal Assessments	-	80
01 Practical	-	100
(A) Lab Work	-	70
(B) Record & Viva	-	30
Total Marks	-	500

Note: 1. 20 marks = 01 credit in Theory Papers and 25 Marks = 01 Credit in Practical/Project work

The syllabus for M.A. GEOGRAPHY is hereby approved for the sessions 2023-24 .

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Govt. V.Y.T. PG Autonomous College, Durg (C.G.)

Autonomous Examination Cell

Question Paper Format and Distribution of Marks for PG Semester Examination

Question paper format for the Post-Graduate Examination has been revised from the Session 2018-19. The revised format will be applicable for all the question papers of Semester I, II, III & IV. The following are the main points of the new format:

1. The question paper will be of **80 marks** (as before)
2. Questions will be asked Unit-wise in each question paper.
3. From each Unit, the questions will be asked as follows :
 - Q.1 Very short answer type question
(Answer in one or two sentences) (02 Marks)
 - Q.2 Very short answer type question
(Answer in one or two sentences) (02 Marks)
 - Q.3 Short answer type question (Answer in 200-250 words) (04 Marks)
 - Q.4 Long answer type questions (Answer in 400-450 words) (12 Marks)

Type of Question	Unit-I	Unit-II	Unit-III	Unit-IV
Very Short (2 Questions) (Maximum two sentences)	2 x 2 = 4 Marks	2 x 2 = 4 Marks	2 x 2 = 4 Marks	2 x 2 = 4 Marks
Short (1 Question) 200-250 words	1 x 4 = 4 Marks	1 x 4 = 4 Marks	1 x 4 = 4 Marks	1 x 4 = 4 Marks
Long answer (1 Question) 400-450 words	1 x 12 = 12 Marks	1 x 12 = 12 Marks	1 x 12 = 12 Marks	1 x 12 = 12 Marks

Note:

1. Question no. 1 and Question 2 will be compulsory.
2. Question no. 3 and 4 will consist of 2 optional questions of which one has to be attempted.
3. As mentioned above, two compulsory very short answer type questions (2+2 marks), one short answer type question with internal choice (4 marks) and one long answer type question with internal choice (12 marks) will be asked from each unit.
Thus there will be questions of 20 marks from each unit and of total 80 marks from all the four units of the syllabus/syllabi.
4. Some papers of English Literature consist of Literary Text. In such question papers, one annotation of 4 marks from each unit will be asked instead of short answer type question. The papers which do not contain literary texts the question paper format and marking scheme will remain the same.
5. For Hindi Literature, refer the Hindi version.
6. Internal Assessment Examination will be as follows :
 - i. Internal Test in each paper (20 marks)
 - ii. Seminar (Power point presentation) in any one of the paper (20 marks)
 - iii. Assignment in each of the remaining papers (excluding the paper of Seminar. (20 marks)
 - iv. Average of marks obtained in internal test + seminar in any one paper and marks obtained in internal test + assignment in rest of the papers will be calculated and taken into consideration.

GOVT. V.Y.T. PG. AUTONOMOUS COLLEGE, DURG**M.A. II Semester Geography****Session – 2024-25****Paper – I****Climatology****M.M. - 80****Unit – I Introduction**

Meaning, Nature & Scope of Climatology, Elements of Weather & Climate Composition and Structure of the atmosphere. Insolation, Heat Budget of the earth. Vertical, Horizontal and Seasonal distribution of Temperature. Atmosphere pressure: Horizontal distribution of air pressure and pressure belt. Shifting of pressure belt.

Unit – II Atmospheric Circulation

Meridional circulation of the Atmosphere. Distribution of winds – planetary, periodic and local winds. Jet Stream : Characteristics, Types, development cycle. Walker circulation & EL NINO –southern oscillation (ENSO). Atmospheric moisture: Humidity (Absolute, specific and relative). Condensation, Types of rainfall, world distribution of rainfall . Stability and Instability of the atmosphere Frontogenesis and cyclone (Tropical & Temperate)

Unit – III Climatic regions &classification:

Climatic classification of Koppen's & Thornthwait . Tropical climatic region of the world: Equatorial, monsoon and savana. Temperate & cold climatic region of the world: Mediterranean, Steppe and Tundra.

Unit- IV

Climatic Change – Its Evidence and Possible Causes, Applied Climatology, Global Warming, Green House Effect.

Suggested Readings

1. Crichfield, J.H. : Genral Climatology, Prentice Hall, India, New Delhi, 1993
2. Das, P.K. : Monsoons National Book Trust, New Delhi, 1987.
3. Thampson, R.D. and Perry, A (ed) : Applied Climatology, Prinicples and Practice Routledge, London, 1997.
4. गौतम, अलका : जलवायु एवं समुद्र विज्ञान, शारदा पुस्तक भवन, इलाहाबाद.
5. लाल, डी. एस. : जलवायु विज्ञान, चैतन्य पब्लिकेशन, इलाहाबाद, 1986.
6. सिंह, सविन्द्र : जलवायु विज्ञान, वसुन्धरा प्रकाशन गोरखपुर, 2006.

There shall be very short, short and long answer type questions in each and every

Unit of the syllabus.

The students are required to study the content mentioned in the curriculum exhaustively.

The syllabus for M.A. GEOGRAPHY is hereby approved for the sessions 2022-23

Name and Signatures

Name and Signatures		Departmental members	
Chairperson/H.O.D.		1.	
Subject Expert (University Nominee).....		2.	
Subject Expert (College Nominee).....		3.	
Subject Expert (College Nominee).....		4.	
Industrial Area (Representative).....		5.	
Meritorious Alumni of Postgraduate.....		6.	
Professors of other department of the same Faculty			

GOVT. V.Y.T. PG. AUTONOMOUS COLLEGE DURG

M.A.II Semester Geography

Session 2024-25

PAPER – II

POPULATION GEOGRAPHY

M. M. 80

Unit – I

Population Geography: Meaning, definition, scope and objectives. Relation of Population Geography to other Social Sciences. Approaches to the Study of Population Geography. Population data: Methods and Sources of Collection. Census: Meaning, historical development and methods.

Unit – II

Population Distribution of the world and their determinants. Population: Density and growth–World pattern and their determinants. Population distribution, density and growth profile of India. Population Theories: Malthusian Theory of Population, Demographic Transition Theory.

Unit - III

Population composition: Age and sex ratio, world & India. Population composition - Urbanization, occupational structure of world and India
Population Change - Measurements of Fertility and mortality. Migration: - National and international pattern.

Unit – IV

Population – Resource Relation. Population resource regions –World and India
Population problems- World and India. Population policy : Meaning, need, aims, main aspects. Population policies in developed and Less developed Countries. India's population policies.

Suggested Readings

1. Census of India, India : A State Profile, 1991.
2. Chandana, R.C. Geography of Population : Concept, Determinants and Patterns, Kalyani Publishers, New York 2000.
3. Clark, John I. : Population Geography, Pergamon Press, Oxford 1973.
4. Mamoria, C.B. : India Population Problem, Kitab Mahal, New.Delhi,1981.
5. लाल, हीरा : जनसंख्या भूगोल, वसुन्धरा प्रकाशन ,गोरखपुर उ.प्र., 1996
6. चाँदना, आर सी : जनसंख्या भूगोल, आर.के. बुक्स, नई दिल्ली, 2009
7. ओझा, रघुनाथ : जनसंख्या भूगोल, प्रतिभा प्रकाशन कानपुर, 1912
8. पण्डा, बी.पी. : जनसंख्या भूगोल, म.प्र., हिन्दी ग्रंथ अकादमी, भोपाल, 1992

DIRECTIVES FOR STUDENTS, FACULTY AND EXAMINERS

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.....	

GOVT. V.Y.T. PG. AUTONOMOUS COLLEGE DURG

M.A.II Semester Geography

Session 2024-25

PAPER – III

REGIONAL PLANNING AND DEVELOPMENT

M . M. 80

Unit: I

Regional Planning: Definition, Scope, evolution and objective. Region and Regionalism, Planning Region: Concept and Delineation. Concept of Regions. Central Place Theory, Christaller, Losch Modal. Concept of core and periphery Friedman Model of Spatial. Organization and Economic Growth.

Unit:II

Regional Development Theories. Development Theory of Myrdal and Hirschman. Economic and Export Base model. Growth Pole Model.

Unit: III

Political Regional development. Approaches and Strategies of Regional Development. Agropolitan Development. Community Development. River Basin Planning. Metropolitan Planning (with reference to India) City : Delhi (NCR), Chandigarh, Bhopal.

Unit: IV

Regional Planning in India. Regional Imbalances and Inequalities. Planning for special problem Region: Tribal area and Drought prone areas. (Bastar plateau,C.G.), Command areas and River basins. Regional Planning and Development in India.

Suggested Reading :

1. Christaller, w. : Central Places in Southern Germany, Translated by C.W. Baskin Prentice Hall, Englewood Cliffs, New Jersey, 1966.
2. Friedmann, J. and Alonso, W. : Regional Development and planning – A Reader M.I.T.Press, Combridge, Mass, 1967.

3. Government of India, Planning Commission : Third Five Year Plan, Chapter on Regional Imbalance in Development, New Delhi, 1991.
4. Mishra, R.P. : Regional Planning: Concepts, Techniques and Policies, University of Mysore, Mysore, 1969. Strategy,
5. चन्द्राकर, इन्द्रमन : व्यावहारिक भूगोल, वसुन्धरा प्रकाशन, गोरखपुर उ.प्र., 1998 ,
6. श्रीवास्तव, व्ही.के. एवं अन्य : प्रादेशिक नियोजन एवं संतुलित विकास, वसुन्धरा प्रकाशन गोरखपुर.
7. चौदना, आर.सी. : प्रादेशिक नियोजन एवं विकास, आर.के. बुक्स, नई दिल्ली, 2010
8. सिंह एवं दुबे : प्रादेशिक विकास एवं नियोजन, आर.के. बुक्स नई दिल्ली, 2009
9. चंद्राकार, प्रीतिबाला : बस्तर पठार में जल संसाधन मूल्यांकन एवं विकास : एक भौगोलिक विश्लेषण, वैभव प्रकाशन, रायपुर, 2007

DIRECTIVES FOR STUDENTS, FACULTY AND EXAMINERS

There shall be very short, short and long answer type of questions in each And every unit of the syllabus.

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The syllabus for M.A. GEOGRAPHY is hereby approved for the sessions 2023-24.

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GOVT. V.Y.T. PG. AUTONOMOUS COLLEGE DURG

M.A.II Semester Geography

Session 2024-25

PAPER – IV

REMOTE SENSING TECHNIQUES

M . M. 80

Unit – I

Meaning and Basic Concept of Remote Sensing. process of Remote Sensing, Stages of Remote Sensing, Electromagnetic Spectrum, Interaction Processes of EMR with Remote Sensing, Basic Principles of Thermal Remote Sensing, Basic Principles of Microwave Remote Sensing.

Unit – II

Remote Sensing Platforms and Sensor, Remote Sensing Programme of India, Digital Image Processing, Types of Image, Advantage of Digital Image, Image Processing Methods, Reasons for low contrast, Contrast Enhancement Technique, Digital Images classification

Unit – III

Fundamentals Concept of Aerial Photography Interpretation : classification Aerial Photography, Execution of Aerial Photography, completion of Aerial Photography, Stereoscopic Vision, Fundamentals Concept of Air Photo task, Agency for Aerial Photography. Fundamental Concept of Photogrammetry : Meaning, Development. Geometry of Photographs, Types of Projection, Method of Scale Determination of Aerial Photographs and Maps.

Unit – IV

Remote Sensing Applications - Land use and Land cover.

Applications of Remote Sensing in Geology, Hydrology, Forestry.

Suggested Readings

1. American Society of Photogrammetry : Manual Remote Sensing ASP Falls Church V.A. 1983.
2. Barrett E.C. and L.P. Curtis : Fundamentals of Remote Sensing and Air Photo Interpretation on. Mc MILLAN. New York.1992.
3. Curran. Paul J. : Principles of Remote Sensing : Longman, London. 1985.
4. Luder D. : Aerial Photography Interpretation : Pinciples and Application. C.C.Graw Hill, New York, 1978.
5. Rao D.P. (eds) : Remote Sensing For Earth RESOURCES, Association of Exploration Geography, Hyderabad,1998.
6. चौनियाल, देवी दत्त : सुदूर संवेदन एवं भौगोलिक सूचना प्रणाली, शारदा पुस्तक भवन हलाहाबाद, 2009
7. खत्री हरीश कुमार : सुदूर संवेदन तकनीक, कैलाश पुस्तक सदन, भोपाल 2022

DIRECTIVES FOR STUDENTS, FACULTY AND EXAMINERS :

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The syllabus for M.A. GEOGRAPHY is hereby approved for the sessions 2023-24 .

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Professors of other department of the same Faculty			

GOVT. V.Y.T. PG. AUTONOMOUS COLLEGE DURG

M.A.II Semester Geography

Session 2024-25

PAPER – V

PRACTICAL - II

MAP PROJECTION, INTERPRETATION OF TOPOSHEET AND SURVEYING

M . M. 100

Map projection

Unit-1: Map projection - properties and Construction of World projection, Choice of projection.

Unit-2 : Interpretation of map –Topographical sheet.

Unit-3: Computer Cartography- Data Storage, Elements of Digital Cartography, Coding and Classification of Map Contents, Cartographic Symbols.

Surveying

Unit-4: Dumpy level survey.




Unit-5: Theodolite survey.

Suggested Reading:

1. Singh, R.L. & P.K. Dutt : Elements of Practical Geography Students trends.
2. Monkhouse, F.J. & H.R. Wilkinson; Maps and Diagrams Mathuen, London.
3. Mahmood, Aslam : Statistical Methods in Geographical studies Rajesh Pub., New Delhi. 1971
4. हीरालाल : प्रायोगिक भूगोल, किताबघर, कानपुर.
5. आर.सी. तिवारी एवं सुधाकर त्रिपाठी : अभिनव प्रयोगात्मक भूगोल, प्रयाग पुस्तक भवन, इलाहाबाद.
6. पुनमिया बालचन्द्र : सर्वेक्षण एवं क्षेत्रीय कार्य ,भाग – एक एवं दो लक्ष्मी पब्लिकेशन दिल्ली, 2000
7. शर्मा , जे. पी. : प्रायोगिक भूगोल ,रस्तोगी पब्लिकेशन मेरठ ,
8. चौनियाल ,देवी दत्त : सुदूर संवेदन एवं भौगोलिक सूचना प्रणाली, शारदा पुस्तक भवन ,इलाहाबाद 2009.

The syllabus for M.A. GEOGRAPHY is hereby approved for the sessions 2023-24 .

Name and Signatures

Chairperson/H.O.D.		Departmental members
Subject Expert (University Nominee).....		1. 
Subject Expert (College Nominee).....		2. 
Subject Expert (College Nominee).....		3. 
Industrial Area (Representative).....	.....	4. 
Meritorious Alumni of Postgraduate.....		5.
Professors of other department of the same Faculty	.....	6.

DEPARTMENT OF GEOGRAPHY

COURSE CURRICULUM & MARKING SCHEME

M.A. GEOGRAPHY

Semester - III

SESSION : 2024-25



ESTD: 1958

GOVT. V.Y.T. PG AUTONOMOUS COLLEGE, DURG, 491001 (C.G.)

(Former Name – Govt. Arts & Science College, Durg)

NAAC Accredited Grade A⁺, College with CPE - Phase III (UGC), STAR COLLEGE (DBT)

Phone : 0788-2212030

Website - www.govtsciencecollegedurg.ac.in, Email – autonomousdurg2013@gmail.com

**Syllabus and Marking Scheme for M.A. Third Semester
Session 2023-24**

Paper No.	Title of the Paper	Marks Allotted in Theory		Marks Allotted in Internal Assessment		Credits
		Max	Min	Max.	Min.	
I	OCEANOGRAPHY	80	16	20	04	05
II	SETTLEMENT GEOGRAPHY	80	16	20	04	05
III	SOCIAL GEOGRAPHY	80	16	20	04	05
IV	RESEARCH METHODOLOGY	80	16	20	04	05
V	Practical : REMOTE SENSING AND QUANTITATIVE TECHNIQUE	100	36			04
	Total	420		80		24

04 Theory papers	-	320
04 Internal Assessment	-	80
01 Practical	-	100
(A) Lab Work	-	70
(B) Record & Viva	-	30
Total Marks	-	500

Note: 1. 20 marks = 01 credit in Theory Papers and 25 Marks = 01 Credit in Practical/Project work The Syllabus for M.A. GEOGRAPHY is hereby approved for the sessions 2023-24 .

Name and Signatures

Chairperson/H.O.D.	AD	Departmental members	
Subject Expert (University Nominee).....	radha	1.	.....
Subject Expert (College Nominee).....	flbda	2.	.....
Subject Expert (College Nominee).....	Kavya	3.	.....
Industrial Area (Representative).....		4.	.....
Meritorious Alumni of Postgraduate.....		5.	.....
Professors of other department of the same Faculty		6.	.....
.....	JL		

✓

Govt. V.Y.T. PG Autonomous College, Durg (C.G.)
Autonomous Examination Cell

Question Paper Format and Distribution of Marks for PG Semester Examination

Question paper format for the Post-Graduate Examination has been revised from the Session 2018-19. The revised format will be applicable for all the question papers of Semester I, II, III & IV. The following are the main points of the new format:

1. The question paper will be of **80 marks** (as before)
2. Questions will be asked Unit-wise in each question paper.
3. From each Unit, the questions will be asked as follows :
 - Q.1 Very short answer type question
(Answer in one or two sentences) (02 Marks)
 - Q.2 Very short answer type question
(Answer in one or two sentences) (02 Marks)
 - Q.3 Short answer type question (Answer in 200-250 words) (04 Marks)
 - Q.4 Long answer type questions (Answer in 400-450 words) (12 Marks)

Type of Question	Unit-I	Unit-II	Unit-III	Unit-IV
Very Short (2 Questions) (Maximum two sentences)	2 x 2 = 4 Marks	2 x 2 = 4 Marks	2 x 2 = 4 Marks	2 x 2 = 4 Marks
Short (1 Question) 200-250 words	1 x 4 = 4 Marks	1 x 4 = 4 Marks	1 x 4 = 4 Marks	1 x 4 = 4 Marks
Long answer (1 Question) 400-450 words	1 x 12 = 12 Marks	1 x 12 = 12 Marks	1 x 12 = 12 Marks	1 x 12 = 12 Marks

Note:

1. Question no. 1 and Question 2 will be compulsory.
2. Question no. 3 and 4 will consist of 2 optional questions of which one has to be attempted.
3. As mentioned above, two compulsory very short answer type questions (2+2 marks), one short answer type question with internal choice (4 marks) and one long answer type question with internal choice (12 marks) will be asked from each unit.
Thus there will be questions of 20 marks from each unit and of total 80 marks from all the four units of the syllabus/syllabi.
4. Some papers of English Literature consist of Literary Text. In such question papers, one annotation of 4 marks from each unit will be asked instead of short answer type question. The papers which do not contain literary texts the question paper format and marking scheme will remain the same.
5. For Hindi Literature, refer the Hindi version.
6. Internal Assessment Examination will be as follows :
 - i. Internal Test in each paper (20 marks)
 - ii. Seminar (Power point presentation) in any one of the paper (20 marks)
 - iii. Assignment in each of the remaining papers (excluding the paper of Seminar. (20 marks)
 - iv. Average of marks obtained in internal test + seminar in any one paper and marks obtained in internal test + assignment in rest of the papers will be calculated and taken into consideration.

GOVT. V.Y.T. PG. AUTONOMOUS COLLEGE, DURG**M.A. III Semester Geography****Session – 2023-24****Paper – I****Oceanography****M.M. - 80****Unit – I Introduction**

Meaning, Nature & Scope of Oceanography. Major features of Ocean basin: Continental shelf continental slope, Deep sea Plain, Oceanic Deeps. Bottom Reliefs of Atlantic, Pacific and India Ocean.

Unit – II

Physical and Chemical Properties of Sea water. Temperature & Salinity of the Ocean. Marine Deposits. Surface currents of Pacific, Atlantic & Indian Ocean. Tides: Meaning and Concepts, types of Tide, Theories of Tide origin. Equilibrium Theory, Progressive Wave Theory, Stationary Wave Theory.

Unit – III

Marine Biogeochemical cycles. Marine Biozones: Concepts and Types. Types of Organisms: Plankton, Nekton & Benthos. Major Marine Environment: Coastal, Wetland, Estuaries and Pelagic habitats Environments.

Unit – IV

Impact of Human on Marine Environment. Law of Sea. Coral Reefs: Formation, Types and Theories : Subsidence theory of Darwin, Non-Subsidence theory of Murray, Glacial Control Theory of Dally.

Suggested Readings

1. Davis, Richard J.A. : "Oceanography – an Introduction to the Marine Environment" Wm. C. Brown.
2. Duxbury. C.A. and Duxbury B. : An Introduction to the World's Oceans – C. Brown. Towa 2nd ed.1996.
3. Sharma, R.C. : " The Oceans" Rajesh N. Delhi, 1985.
4. Ummerkutty, A.N.P. Science of the Oceans and Human life, NBT, New Delhi 1985.
5. सिंह, सविन्द्र : समुद्र विज्ञान, प्रयाग पुस्तक भवन, इलाहाबाद
6. नेगी, बी.एस. : जलवायु तथा समुद्र विज्ञान, केदारनाथ, रामनाथ प्रकाशन, मेरठ

DIRECTIVES FOR STUDENTS, FACULTY AND EXAMINERS

There shall be very short, short and long answer type of questions in each and every Unit of the syllabus

The students are required to study the content mentioned in the curriculum exhaustively.

The syllabus for M.A. GEOGRAPHY is hereby approved for the sessions 2023-24.

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Professors of other department of the same Faculty	6.
.....	

GOVT. V.Y.T. PG. AUTONOMOUS COLLEGE DURG

M.A.III Semester Geography

Session – 2023-24

PAPER – II

SETTLEMENT GEOGRAPHY

M. M. 80

Unit – I

Definition, Subject and Scope of Settlement Geography, concepts of settlement : Rural settlement, Urban settlement, Hierarchy of settlement Primate city and Morphology of settlement, Origin and Types of settlement Types of rural settlement

Unit – II

Rural house and House Types. Rural Problems and Planning. Origin and Evolution of Towns location Site and Situation of Towns

Unit – III

Functional Classification of Towns Qualitative Methods, semi Quantitative methods : C.D. Harris, Pure Quantitative methods : Nelson, Theories of urban Internal structure : Concentric Zone theory Sector theory, Multiple Nuclei theory.

Unit – IV

Central Place Theory: Christaller and Losch, City county relationship: Umland, Rural-urban Fringe. Urban Problem, Slums, Urban Planning.

Suggested Readings

1. Baskin, C. (Translator), Central Places in Southern Germany, Prentice – Hall Inc. Englewood Cliffs New Jersey, 1966, Originally
2. Census of India, House types and Settlement Patterns of Villages in India, GOI, New Delhi 1961.
3. Haggett, Peter, Andrew D. Chiffand Allen Frey (editors), Locational Models Arnold Heinemann 1979.
4. Mayer, M. Harold and Clyde F. Kohn (editors), Readings in Urban Geography, Central Book Depot, Allahabad 1967
5. Ramachandran, R, Urbanisation and Urban systems in India, Oxford University, Press New Delhi 1992.
6. Singh R.L. and Kashi Nath Singh (editors), Readings in Rural Settlement Geography, National Geographical Society of India, Varanasi 1975.
7. Sinha V.N, Verma U and Sahay A – Introduction to Settlement Geography, Rajesh Publications New Delhi, 2017.
8. राव, बी.पी. : नगरीय भूगोल, वसुन्धरा प्रकाशन, गोरखपुर, उ.प्र., 2000
9. बंसल, सुरेश चन्द : नगरीय भूगोल, मीनाक्षी प्रकाशन, मेरठ
10. तिवारी, आर.सी. : अधिवास भूगोल, आर. के. बुक्स, नई दिल्ली, 2009
11. सिंह, उजागर : नगरीय भूगोल, उ.प्र. हिन्दी ग्रंथ अकादमी, लखनऊ, 1974

DIRECTIVES FOR STUDENTS, FACULTY AND EXAMINERS

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The syllabus for M.A. GEOGRAPHY is hereby approved for the sessions 2023-24 .

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GOVT. V.Y.T. PG. AUTONOMOUS COLLEGE DURG

M.A.III Semester Geography

Session – 2023-24

PAPER – III

SOCIAL GEOGRAPHY

M . M. 80

Unit – I

Meaning, Definition and scope of Social Geography and its Nature and relationship with other Social sciences. Development of Social Geography, Approaches to the study of Social Geography.

Unit – II

Concept of Society – Social Environment, Social Geography of India – Social stratification Caste and Class. Social organization and groups. Social transformation and change in India, Religion and linguistic group of India.

Unit.-III

Social well-being – meaning and indicators of Social well-being. Quality of life, Pattern and bases of rural and urban society. Deprivation and discrimination issues relating to women and under privileged groups : Backward, scheduled castes, Tribes and Status of women in India. Cultural Realms and Cultural Region of the World.

Unit- IV

Social change in India : factor of Social change , processes of Social change in India . Social development planning– meaning and importance. Public policy and social planning in India : Review of Five year Plans strategies to improve Social well being.

Suggested Readings

- 1 Ahmad Aijazuddin, Social Geography, Rawat Publication. New Delhi, 1999.
- 2 Dreze jean' Amariya Sen. Economic Development and Social opportunity. Oxford University Press. New Delhi. 1996.
- 3 Dubey.S.C : Indian Society. National Book Trust, New Delhi. 1991.
- 4 Haq. Mahbubul : Relections on Human Development. Oxfort University press, Ely House, London. 1977.
- 5 मौर्य, एस.डी. : सामाजिक भूगोल, शारदा पुस्तक भवन, 11, युनिवर्सिटी रोड, 2004
- 6 आहूजा, राम : भारतीय समाज, आर. के. बुक्स, नई दिल्ली, 2004
- 7 शर्मा, के.एल. : सामाजिक स्तरीकरण, रावत पब्लिकेशन, जयपुर, 2011

DIRECTIVES FOR STUDENTS, FACULTY AND EXAMINERS

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The syllabus for M.A. GEOGRAPHY is hereby approved for the sessions 2023-24.

Name and Signatures

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Professors of other department of the same Faculty			

GOVT. V.Y.T. PG. AUTONOMOUS COLLEGE DURG

M.A.III Semester Geography

Session 2023-24

PAPER – IV

Research Methodology

M . M. 80

Unit – I

Research Methodology : Nature of scope of research methodology, Procedure of scientific Research, characteristics, Research Problem, Research Design, Formation Hypothesis – types.

Unit – II

Methods of data collection : Observation, Questionnaire, Schedule, Interview, Types of Sampling Technique : Probability and Non Probability.

Unit – III

Measures of Dispersion : Mean Deviation, Standard Deviation and coefficient of Variation, Correlation : types- Product moment, rank correlation and carl pearson's

Unit – IV

Preparation of Research Reports : Steps of Research reports, Types of Reports, layout. Data Processing and Analysis : coding, Tabulation Classification.

Suggested Readings

1. Ackerman, E.A . : Geography as a Fundamentals Research Discipline, University of Chicago.
2. Cothari , C.R . : Research Methodology in Geography , K.L Narasimha Murthy , 2000
3. बंसल, सुरेश चन्द्र : शोध विधि तंत्र, भूगोल मीनाक्षी प्रकाशन मरेठ
4. डॉ. सैनी : शोध विधि तंत्र,
5. द्विवेदी, आर. एन. : रिसर्च मेथोडोलॉजी
6. श्रीवास्तव , बी .के. : भूगोल में सांख्यिकीय ,वसुन्धरा प्रकाशन
7. खत्री, हरीश कुमार : भूगोल में शोध प्रविधि, कैलाश पुस्तक सदन, भोपाल, 2022

DIRECTIVES FOR STUDENTS, FACULTY AND EXAMINERS

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GOVT. V.Y.T. PG. AUTONOMOUS COLLEGE DURG

M.A.III Semester Geography

Session – 2022-23

PAPER – V

PRACTICAL - III

REMOTE SENSING AND QUANTITATIVE TECHNIQUES

M. M. 100

Unit-I

Study of satellite Image-Annotation, Identification of features on FCC Imageries, Tracing of details from satellite imageries.

Unit-II

Basic Principles of Image interpretation of Physical and cultural details and preparation of Land use and Land cover map using IRS Images .
cartographic Modeling : Supervised and Unsupervised digital image classification.

GPS : Use of GPS to check /update the existing topographical map.

Unit-III

Measures of Central tendency, Dispersion and Variability, Product Moment Correlation, Rank Correlation , Linear - Regression.

Unit-IV

Hypothesis Testing; Chi- square and “T” tests,

Sampling Techniques:Point, Line and Area Sampling..

Suggested Readings

1. Gregory, S. Statistical Methods and the Geographer, London,1978.
2. Johnston R.J. , Multivariate Statistical Analysis in Geography, Longman, London, 1973.
3. Rao D.P. (eds.) Remote Sensing For Earth Resources, Association of Exploration Geophysists, Hyderabad, 1998.
4. Singh R.L.and Dutta, P.K. : Elements of Practical Geography, Students Friends,Allahabad. 1968.
5. Negi, BALBIR Singh, Practical Geography Thrid revised Ed. Kedar Nath ani.e.A 1958
6. श्रीवास्तव ,बी ,के ; भूगोल में सांख्यिकीय ,वसुन्धरा प्रकाशन

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DEPARTMENT OF GEOGRAPHY
COURSE CURRICULUM & MARKING SCHEME

M.A. GEOGRAPHY
Semester - IV

SESSION : 2024-25



ESTD: 1958

GOVT. V.Y.T. PG AUTONOMOUS COLLEGE,
DURG, 491001 (C.G.)

(Former Name – Govt. Arts & Science College, Durg)

NAAC Accredited Grade A⁺, College with CPE - Phase III (UGC), STAR COLLEGE (DBT)

Phone : 0788-2212030

Website - www.govtsciencecollegedurg.ac.in, Email – autonomousdurg2013@gmail.com

Syllabus and Marking Scheme for M.A. Fourth Semester Session 2024-25

Paper No.	Title of the Paper	Marks Allotted in Theory		Marks Allotted in Internal Assessment		Credits
		Max	Min	Max.	Min.	
I	AGRICULTURE GEOGRAPHY	80	16	20	04	05
II	BIO-GEOGRAPHY	80	16	20	04	05
III	NATURAL RESOURCE MANAGEMENT	80	16	20	04	05
IV	GEOGRAPHICAL INFORMATION SYSTEM AND COMPUTER MAPPING	80	16	20	04	05
V	Lab Course / Practical / PROJECT BASED ON FIELD WORK (PHYSICAL AND SOCIO ECONOMIC SURVEY)	100	36			04
	Total	420		80		24

04 Theory papers	-	320
04 Internal Assessments	-	80
01 Practical	-	100
(A) field Work / Project Report-		80
(B) Viva/ Presentation	-	20
 Total Marks	 -	 500

Note: 1. 20 marks = 01 credit in Theory Papers and 25 Marks = 01 Credit in Practical/Project work

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Govt. V.Y.T. PG Autonomous College, Durg (C.G.)

Autonomous Examination Cell

Question Paper Format and Distribution of Marks for PG Semester Examination

Question paper format for the Post-Graduate Examination has been revised from the Session 2018-19. The revised format will be applicable for all the question papers of Semester I, II, III & IV. The following are the main points of the new format:

1. The question paper will be of **80 marks** (as before)
2. Questions will be asked Unit-wise in each question paper.
3. From each Unit, the questions will be asked as follows :
 - Q.1 Very short answer type question
(Answer in one or two sentences) (02 Marks)
 - Q.2 Very short answer type question
(Answer in one or two sentences) (02 Marks)
 - Q.3 Short answer type question (Answer in 200-250 words) (04 Marks)
 - Q.4 Long answer type questions (Answer in 400-450 words) (12 Marks)

Type of Question	Unit-I	Unit-II	Unit-III	Unit-IV
Very Short (2 Questions) (Maximum two sentences)	2 x 2 = 4 Marks	2 x 2 = 4 Marks	2 x 2 = 4 Marks	2 x 2 = 4 Marks
Short (1 Question) 200-250 words	1 x 4 = 4 Marks	1 x 4 = 4 Marks	1 x 4 = 4 Marks	1 x 4 = 4 Marks
Long answer (1 Question) 400-450 words	1 x 12 = 12 Marks	1 x 12 = 12 Marks	1 x 12 = 12 Marks	1 x 12 = 12 Marks

Note:

1. Question no. 1 and Question 2 will be compulsory.
2. Question no. 3 and 4 will consist of 2 optional questions of which one has to be attempted.
3. As mentioned above, two compulsory very short answer type questions (2+2 marks), one short answer type question with internal choice (4 marks) and one long answer type question with internal choice (12 marks) will be asked from each unit.
Thus there will be questions of 20 marks from each unit and of total 80 marks from all the four units of the syllabus/syllabi.
4. Some papers of English Literature consist of Literary Text. In such question papers, one annotation of 4 marks from each unit will be asked instead of short answer type question. The papers which do not contain literary texts the question paper format and marking scheme will remain the same.
5. For Hindi Literature, refer the Hindi version.
6. Internal Assessment Examination will be as follows :
 - i. Internal Test in each paper (20 marks)
 - ii. Seminar (Power point presentation) in any one of the paper (20 marks)
 - iii. Assignment in each of the remaining papers (excluding the paper of Seminar. (20 marks)
 - iv. Average of marks obtained in internal test + seminar in any one paper and marks obtained in internal test + assignment in rest of the papers will be calculated and taken into consideration.

GOVT. V.Y.T. PG. AUTONOMOUS COLLEGE DURG

M.A.IV Semester Geography

Session – 2024~25

PAPER – I

AGRICULTURE GEOGRAPHY

M . M. 80

Unit – I Introduction to Agriculture geography:

Nature & scope : Meaning & definition, Scope and objectives. Development History of Agriculture geography. Approaches to the study of agricultural Geography : Systematic, Regional, Inductive, Deductive, Behavioral, Ecological and Welfare.

Unit – II Agricultural Land use :

Determinants factors of agricultural Land use such as Physical, economic, social and Technological. Indian Agriculture : Characteristics, Problems and development programmers. Methods of Agriculture regionalization: Crop Combination Region and methods of Measurements (weaver's and Doi), Cropping Pattern. Levels of Agricultural Development : Concept of Agriculture development, Agricultural development region, Measurement of levels of agriculture development (Standard 'Z' Score transformation method).

Unit – III Theories of agricultural location based on multi- dimensioned factors & Land Capability:

Von Thunen's theory of agricultural location and its recent modifications Whittlesey's classification of agricultural regions. Land use and Land Capability: Meaning, purpose, land use capability. Classification in India, Britain and United States of America.

Unit – IV Agricultural issues & Challenges in India :

Contemporary Issues of Indian Agriculture: Drought and food security, Role of irrigation, Fertilizers and insecticide- pesticides, Technological knowhow. Green Revolution, White Revolution, Dry Land Farming, Agricultural Policy in India.

Suggested Readings

1. Gregor, H.P. : Geography of Agriculture. Prentice Hall, New York, 1970.
2. Grigg, D.B. : The Agricultural Systems of the world, Cambridge University Press, New York 1974.
3. Morgan W.B. AND Norton, R.J.C. : Agricultural Geography, Mathuen, London, 1971.
4. Mogra, W.B. : Agriculture in the Third World – A Spatial Analysis. Westview Press, Boulder, 1978.
5. Singh, J. and Dhillon, S.S. : Agricultural Geography, Tata Mcgraw Hill Pub.; New Delhi, 1988.
6. कुमार, प्रमीला : कृषि भूगोल, मध्य प्रदेश हिन्दी ग्रंथ अकादमी भोपाल, 2008
7. हुसैन, माजिद : कृषि भूगोल, रावत पब्लिकेशन, जयपुर
8. बघेल, अनुसुईया : कृषि भूगोल, होरीजन बुक्स नई दिल्ली, 2015
9. गौतम, अल्का : कृषि भूगोल, शारदा पुस्तक भवन इलाहाबाद, 2021
10. खत्री, हरीश कुमार : कैलाश पुस्तक सदन, भोपाल, 2022

DIRECTIVES FOR STUDENTS, FACULTY AND EXAMINERS

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GOVT. V.Y.T. PG. AUTONOMOUS COLLEGE DURG

M.A.IV Semester Geography

Session – 2024-25

PAPER – II

BIOGEOGRAPHY

M . M. 80

Unit – I

Definition, Scope and development of Biogeography. Environment and Habitat. Plant–Animal association. Biome types–Tropical, Temperate & Polar.

Unit – II

Elements of plant geography. Distribution of forests and major communities. Plant succession–Meaning & Types. Plant successions in newly formed landforms.

Unit – III

Zoo-geography and its Environmental Relationship. World zoo-geographical regions. Palaeobotanical records of environmental change in India. Palaeo climatological records of environmental change in India.

Unit – IV

Biodiversity: Meaning, definition, types and conservation. Conservation of Biotic Resources. Wild life conservation and management. Management of Forest Resources. National Forest Policy of India & Chhattisgarh.

Suggested Readings:

1. Agrawal, D. P. : Man and Environment in India Through Ages, Book & Books, 1992.
2. Cox, C.D. AND Moore, P.D. : Biogeography : An Ecological and Evolutionary Approach 5th edition. Blackwell, 1993. R.B. Publication Corporation, 1987.
3. Pears, N : Basic Biogeography 2nd edn. Longman, London, 1985.
4. Simmon, I.G. : Biogeography, Natural and Cultural, Longman, London 1974.
4. सिंह, सविन्द्र : जैव भूगोल, प्रयाग पुस्तक भवन, इलाहाबाद, 2020
5. सिंह, सविन्द्र : पर्यावरण भूगोल, प्रयाग पुस्तक भवन, इलाहाबाद, 2015
6. कुलश्रेष्ठ, कामता प्रसाद : जैव भूगोल, किताब घर कानपुर, 1964
7. होता, जीतेन्द्र कुमार : जैव भूगोल एवं पारिस्थितिक तंत्र, शताक्षी प्रकाशन, चौबे कालोनी रायपुर, छ.ग., 2014
8. सिंह, सविन्द्र : पर्यावरण भूगोल, प्रयाग पुस्तक भवन, इलाहाबाद, 2015

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GOVT. V.Y.T. PG. AUTONOMOUS COLLEGE DURG

M.A. IV Semester Geography

Session – 2024-25

PAPER – III

NATURAL RESOURCE MANAGEMENT

M . M. 80

Unit – I

Introduction- Concept of resource & Planning Management

Approaches to natural resource management

Problems of resource utilization

Population pressure - development and resource use.

Unit – II

Use and misuse of resources : developed and developing countries

Resource Exploitation and Environment Problems

Soil & Water resource

Minerals & forests resource

Unit – III

Conservation and management of resources: - Meaning & principles

Resource conservation and management methods : soil, forest, water, minerals

and power resource

Unit – IV

Resource appraisal and policy making: - Appraisal of land resources,

Use of GIS and Remote Sensing in resource appraisal. Conservation of resources

Sustainable resource management concept & methods

Suggested Readings :

1. Hooja, r. & Joshi, R. : Desert, Drought and Development, studies in Resource Management and Sustainability ; Rawat Publication. Jaipur, 1994.
2. Howard, M.C. (ed.), Asia's Environmental Crisis, West view Press, Prouldar,1993.
3. Kates, R.W.& Burton, 1 (eds) : Geography, Resources and Environment, Vol. I & II University of Chicago Press, Chicago, 1986.
4. Mc Laren, D.J. and Skinnet B.J. (eds) : Resources and world Develqament, John Willy & Sons, New York, 1986.
5. Simmons, L.G. Air & Water ; Resources and Environment in Late 20th CenturyEdward Arnold, New York,1991.
- 6 ऋतुरानी, लोकेश श्रीवास्तव : संसाधन प्रबंध, विश्वविद्यालय प्रकाशन दिल्ली ,2007
7. सिंह, काशीनाथ एवं अन्य : आर्थिक भूगोल के मूल तत्व , वसुन्धरा प्रकाशन गोरखपुर उ.प्र.

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GOVT. V.Y.T. PG. AUTONOMOUS COLLEGE DURG

M.A.IV Semester Geography

Session – 2024-25

PAPER – IV

GEOGRAPHICAL INFORMATION SYSTEM AND COMPUTER MAPPING

M . M. 80

Unit – I

Meaning and Concept of GIS, Objective, history of GIS, Data Method-Raster and Vector. Computer requirement for Remote Sensing and GIS: computer Generation, Hardware and software, Main component of computer system: Input unit memory unit, central processing unit, output unit ; GIS Data Model and Structure: Function of data model, types of model, Spatial Data Models for GIS: Raster and Vector model; Data Inputting Method and Editing.

Unit – II

GIS and Remote Sensing Integration: Definition, Problems in Integration Using Reference System. Internet GIS: Definition of Internet, Special work of Internet, Components of Inter Net : External Components, Internal Components. Transmission Control Protocol: ICP/ Internet Protocol-IP Network. Internet and GIS-Advantage of GIS.

Unit –III

Digital Elevation Model- Definition, Digital Terrain Model Various Structure of DEM., Computer Cartography : Definition of Cartography and Geographical

Information System, factors affecting the Computer Cartography. Cartographic Data Storage, Principle of Computer Cartography, Cartographic Information Analysis, Symbology, Cartographic sign System.

Unit- IV

Digital Cartography: Cartographic Models, Elements of Digital Cartography, Map and Digital spatial data Base, Data Modeling for Creating Digital spatial Data, Coding and Classification of Map Contents. Physical Design, Map Design, Map Literacy, Digital Cartography and GIS Automated Cartography- Common Elements of Maps, Relevance of Elements, Map Layout Elements, Effective Communication Elements, Cartographic, Symbols.

Suggested Readings

- 1 Aronoff S. Geographic Information Systems: A Management Perspective, DDI Publication Ottawa, 1989.
- 2 Fraser Taylor D.R. Geographic information System, Pergamoon Press, Oxford 1991.
3. Mark S Monmonier, Computer- assisted Cartography, Prentice-Hall, Englewood Cliff, New Jersey, 1982.
- 4 Star J and J. Estes, Geographic Information Systems: An Introduction, Prentice Hall, Englewood Cliff, New Jersey, 1994.
5. Yeung Albert K.W. , Concepts and Techniques of Geographic Information Systems, Prentice jHall of India Private limited New Delhi –110001, 2004.
5. चैनियाल, देवी दत्त : सुदूर संवेदन एवं भौगोलिक सूचना प्रणाली, भारदा पुस्तक भवन इलाहाबाद-211002.
6. खत्री, हीरश कुमार : सुदूर संवेदन तकनीक, कैलाश पुस्तक सदन, भोपाल, 2022

FOR STUDENTS, FACULTY AND EXAMINERS

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GOVT. V.Y.T. PG. AUTONOMOUS COLLEGE DURG

M.A.IV Semester Geography

Session – 2024-25

PAPER –V

PROJECT BASED ON FIELD WORK, SURVEY REPORT (SOCIO-ECONOMIC STATUS OF VILLAGE)

M . M. 80

Unit –I Introduction

Statement of the Problem Objective Hypothesis, Data Methods, Review of Literature

Unit –II Geographical and demographic Aspect

Location, Structure, Relief, Drainage, Climate, Vegetation Soils, Land use. Population Density, Composition of population: Age, Sex, Religion, Caste, Growth of Population. Literate-Illiterate .

Unit –III Economic Aspect : Personal observation and perception

Composition of Population Occupational, Income Size of Holding Agricultural Produce and Productivity, Use of Technology, Organic Farming Loan for Agriculture, Animal husbandry, Milch Animals, poultry, Pigsty, Fisheries.

Unit–IV Social Aspect : Personal observation and perception

Education Literacy - Total male female caste, Religion, Age wise

Marital Status - Total male female caste, Religion, Age wise

Unit–V : With special reference to any one particular topic of surveyor

Village. (Example : Migration, literacy, Irrigation, Health, Crop , Pattern etc.)

Unit-VI :

Conclusion

Bibliography

Appendices

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GOVT. V.Y.T. P.G. AUTO. COLLEGE, DURG, (C.G.)

DEPARTMENT OF GEPGRAPHY

**Value Added Course in Geography M.A I & III Sem.
Map Reading and Map Filling (2 Credits, 30 hours 100 marks)**

A. Study of World : Physical Maps (6 Hours, 20 Marks)

1. Physiographic Map : Mountain, Plateau, Plain, Deserts, Island.
2. Water Bodies : Oceans & Seas, Bays & Gulfs, Major Rivers, Deltas, Estuaries, Straits.
3. Climatic Map : Planetary, Winds, Local Winds, Major Climate Regions.
4. Rainfall Distribution Map
5. Vegetation Map
6. Soil Map

B. Study of World : Cultural Maps (6 Hours, 20 Marks)

1. Political Map : Continent, country & capitals.
2. Population Map
3. Transport map
4. Agricultural Region Map
5. Industrial Map
6. Religion Map

C. Study of India : Physical Maps (6 Hours, 20 Marks)

1. Physiographic Map : Mountain, Plateau, Plain, Deserts, Island.
2. Water Bodies : Oceans & Seas, Bays & Gulfs, Major Rivers, Deltas, Estuaries, Straits.
3. Climatic Map : Planetary, Winds, Local Winds, Major Climate Region.
4. Rainfall Distribution Map
5. Vegetation Map
6. Soil Map

D. Study of India : Cultural Maps (6 Hours, 20 Marks)

1. Political Map : State & capitals.

2. Population Map
3. Transport map
4. Agricultural Region Map
5. Industrial Map

**E. Study of Chhattisgarh : Physical & Cultural Maps
(6 Hours, 20 Marks)**

1. Physiographic Map : Mountain, Plateau, Plain.
2. Water Bodies : Major River, Waterfall
3. Forest Map : National Parks & Sanctuaries
4. Crops & Industrial Region
5. Political Map : Districts & its Headquarters
6. Population Attributes : Growth, Distribution & Density

FOR STUDENTS, FACULTY AND EXAMINERS

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**GOVT. V.Y.T. PG AUTONOMOUS COLLEGE, DURG
(C.G.)**

DEPARTMENT OF GEOGRAPHY

2023 – 2024

**Certificate Course in Remote Sensing and
Geographical Information System**



**Govt. V.Y.T. PG Autonomous
College, Durg (C.G.)**

Chairperson

Senior Professor of Science Faculty

Subject Expert

Subject Expert

Departmental member

Subject Expert

Subject Expert

Alumnus

INTRODUCTION TO THE PROGRAMME

Course Details

- Course type : Certificate
- Course Title : Certificate in Remote Sensing Technology and Geographic Information System

Preamble :

Remote sensing (RS) deals with the use of satellite images and their analysis for providing up to date information of surface features. Geographic information system (GIS) is a technology, which enables the analysis of data related to entities, which have geographic distribution. RS & GIS are increasingly being used to monitor the natural resources, mining, telecommunications, utilities, Groundwater assessment, linking of rivers, National agriculture Atlas, state/district level crop yield estimation etc. RS & GIS can also be used to monitor the effect of environmental management techniques in adhering to global norms. The subject of Remote Sensing & GIS encompasses several disciplines and it is interdisciplinary nature of the technology that sets it apart from other technologies. This is evident from its wide applications in varied disciplines like Geosciences, Biosciences, Life sciences, Environmental sciences, Physical sciences, Hydrology, Engineering applications, Rural and Urban planning, Land cover and land use, Agriculture, Soil mapping, Medical sciences, IT, Detailed mapping, Library Information systems, Wild-life habitat, Wet land mapping, Utilities (Telecommunications, Electrical, Hydro), Business Decisions, Facilities Mapping, Asset Managements, etc.

Minimum Duration: 6 Months

Eligibility: 10+2 from any recognized secondary education board of any state of India.

Medium: English or Hindi



Chairperson

Senior Professor of Science Faculty



Subject Expert



Subject Expert

Departmental member



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Learning Outcomes:


This Certificate Course in Remote Sensing Technology and Geographic Information to impart domain knowledge, values, capacities and skills to:


1. Appreciate the development and uses of aerial and satellite remote sensing system and navigation satellite systems in India and other nations;
2. Understand the basics of EMR and energy interaction in atmosphere and on earth surface features;
3. Analyse and interpret the aerial and satellite data products and GNSS/GPS survey results.
4. Appreciate the basic principles and components of GIS;
5. Apply raster and vector data structure for GIS analysis;
6. Analyse the basic resources, land use and urban related data using GIS software for meaningful interpretation .


In Certificate in Certificate in Remote Sensing Technology and Geographic Information System shall be two theory papers each of 70 marks and assignments will be of 30 marks and practical 50 marks, thus total marks in the course will be 250.



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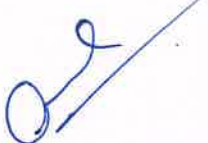

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Minor component of the evaluation system

Assignments: -Submission of assignments is compulsory. Assignments of a Course carry 30% weightage. Student will have to submit one assignment for each paper. Students will not be allowed to appear for the final examination for a Remote Sensing Technology and Geographic Information System, if they do not submit the assignment in time. If student do not get a passing marks in any assignments student have to submit it again.

Major component of the evaluation system

Theory Paper:- Theory paper carries 70% weight age in the final result.

In case, student fail to secure a pass score (40% marks) in the final examination, student will be eligible to reappear in the next year final examination for Remote Sensing Technology and Geographic Information System .

EVALUATION

Evaluation consists of two parts: 1) assignments, and 2) final Examination and practical. In the final result, assignment of a Remote Sensing Technology and Geographic Information System carries 30% weightage, While 70% weightage is given to final examination, Following is the scheme of awarding divisions and grades:

Division	Percentage Range	Grade
First	80 and above	A - Excellent
First	60 to 79.99	B- Very Good
Second	50 to 59.99	C - Good
Pass	40 to 49.99	D - Satisfactory
Unsuccessful	Below 40	E - Unsatisfactory

Students are required to score at least 40% marks in assignments as well as final examination separately. In the overall computation also, student must get at least 40% marks in each paper to claim the Certificate in Remote Sensing Technology and Geographic Information System .



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Re-evaluation:-

There is provision for re-evaluation of final exam (theory) answer copies (anyone or two). The students can apply for re-evaluation of final exam (theory) answer copies against payment of Rs.250/- per theory paper.

1. **There will be no ATKT.**
2. **Students will get one chance to appear for failed subject.**

EVALUATION PATTERN

Theory Paper		
Paper-I	Remote Sensing Technology	70 Marks
Paper-II	Geographic Information System	70 Marks

Question Paper Format and Distribution of Marks for Remote Sensing Technology and Geographic Information System .**Examination.**

1. The question paper will be divided into three Sections - A, B & C.
2. Section A shall contain very short answer type questions (answer in one or two sentences) or objective type questions. (No Multiple choice questions, No 'Fill in the blank' type Questions).
3. Section B shall contain short answer type questions with the limit of 150 words.(50% internal choice)
4. Section C shall contain long answer/descriptive type questions. The students are required to answer precisely and the answer should not exceed the limit of 350 words.(50% internal choice)

5. The scheme of marks should be as follows:

Question Type	MM 70. (Marks x No of Questions)
A (Very Short Answer)	1 x 10 = 10
B (Short Answer)	4 x 5 = 20
C (Long Answer)	8 x 5 = 40

Syllabus and Marking Scheme for Remote Sensing Technology and Geographic Information System .

Paper No.	Title of the Paper	Marks Allotted	
		Theory	Assignment
I	Remote Sensing Technology	70	30
II	Geographic Information System	70	30
	Total	140	60
	Practical	50	
	Grand Total	250	



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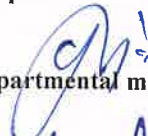


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Syllabus

Scheme of Certificate Course in Remote Sensing Technology and Geographic Information System .

Session 2023-2024

PAPER- I

Remote Sensing Technology

Max. Marks - 70

Unit – I

- 1: Meaning and Basic Concept of Remote Sensing.
- 2: Basic Principles of Remote Sensing.
- 3: Remote Sensing Platforms and Sensor.

Unit – II

1. Digital Image Processing.
- 2: Types of Image, Advantage of Digital Image.
- 3: Image Processing Methods, Reasons for low contrast, Contrast Enhancement Technique.

Unit – III

- 1: Fundamentals Concept of Aerial Photography.
- 2: Stereoscopic Vision. Air Photo Interpretation,
Types of Stereoscopic, parallax

Unit – IV



- 1: Fundamental Concept of Photogrammetry
- 2: Meaning, Development. Geometry of Photographs,
- 4: Method of Scale Determination of Aerial Photographs and Maps.

Unit – V

- 1: Remote Sensing Applications - Land use and Land cover.
- 2: Applications of Remote Sensing in Geology.
- 3: Applications of Remote Sensing in Hydrology.
- 4: Applications of Remote Sensing in Forestry.

Suggested Readings

1. American Society of Photogrammetry : Manual Remote Sensing
ASP
Falls Church V.A. 1983.
2. Barrett E.C. and L.P. Curtis : Fundamentals of Remote Sensing and
Air
Photo Interpretation on. Mc MILLAN. New York.1992.
3. Curran. Paul J. : Principles of Remote Sensing : Longman, London.
1985.
4. Luder D. : Aerial Photography Interpretation : Pinciples and
Application. C.C.Graw Hill, New York, 1978.
5. Rao D.P. (eds) : Remote Sensing For Earth RESOURCES, Association of
Exploration Geography, Hyderabad,1998.
6. चौनियाल देवी दत्त : सुदूर संवेदन एवं भौगोलिक सूचना प्रणाली , भारदा पुस्तक भवन
हलाहाबाद ,2009

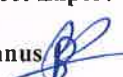
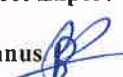

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**Scheme of Certificate Course in Remote Sensing Technology and
Geographic Information System .**

Session 2022-2023

PAPER- II

Max. Marks - 70

Unit – I

Geographic Information System (GIS): Definition, History, Components;
Concept, Objectives, Approach.

Unit – II:

GIS Data Structures: Function, Types (Spatial and Non-spatial), Raster and
Vector Data Structure.

Unit -III

Data Inputting Methods: Spatial Data Input, Aspatial Data Input, metadata.

Unit- IV

Internet GIS : Definition of Internet, Services, Special Work, Capabilities
Components.

Unit- V

Issues and Prospects of GIS: Data issues, Issues Pertaining to people,
Application and issues

Suggested Readings

- 1 Aronoff S. Geographic Information Systems: A Management Perspective,
DDI Publication Ottawa, 1989.
- 2 Fraser Taylor D.R. Geographic information System, Pergamoon Press, Oxford
1991.

3. Mark S Monmonier, Computer- assisted Cartography, Prentice-
Hall,Englewood

Cliff, New Jersey,1982.

4 Star J and J. Estes, Geographic Information Systems: An Introduction, Prentice
Hall, Englewood Cliff, New Jersey, 1994.

5. Yeung Albert K.W. ,Concepts and Techniques of Geographic Information
Systems, Prentice jHall of India Private limited New Delhi –110001, 2004.

5. चैनियाल देवी दत्त : सुदूर संवेदन एवं भौगोलिक सूचना प्रणाली, , भारदा पुस्तक भवन
इलाहाबाद-211002.



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PRACTICAL

Max. Marks - 50

: COMPUTER MAPPING 2.0



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