

**DEPARTMENT OF GEOGRAPHY**  
**SCHEME AND SYLLABUS OF EXAMINATION FOR**  
**UG Programme with Single Major : Scheme-C of Geography**  
**Duration 4 Years (8 Semesters)w.e.f. Academic Session 2023-24**

<b>Semester – I</b>										
Course Code	Course Title	Credit	L : T : P: CH	Internal Marks		External Marks		Total Marks		
				Th	Pr	Th	Pr	Min	Max	
<b>Core Courses</b>										
GEO-23/MCC - 101	Introduction to Geography of India	4	3 : 0 : 1 : 5	20	10	50	20	40	100	
GEO-23/MCC - 102	Resource Geography	4	3 : 0 : 1 : 5	20	10	50	20	40	100	
<b>Minor/Vocational Courses</b>										
GEO-23/ M-101	Physical Geography of India	4	3 : 0 : 1 : 5	20	10	50	20	40	100	
<b>Multidisciplinary Courses</b>										
GEO-23/MDC - 101	Geography in Everyday Life	3	2 : 0 : 1 : 4	15	05	35	20	30	75	
<b>Ability Enhancement Courses</b>										
AEC- 01	Communicative English - I	2	2 : 0 : 0 : 2	15	-	35	-	20	50	
<b>Skill Enhancement Courses</b>										
SEC- 01	Basics of IT Tools	3	2 : 0 : 1 : 4	15	05	35	20	30	75	
<b>Value Added Courses</b>										
VAC-01	Human Values and Ethics (50%) / Environmental Studies (50%)	2	2 : 0 : 0 : 2	15	-	35	-	20	50	
VAC-01										
<b>Total</b>		<b>22</b>							<b>550</b>	

<b>Semester – II</b>										
Course Code	Course Title	Credit	L : T : P: CH	Internal Marks		External Marks		Total Marks		
				Th	Pr	Th	Pr	Min	Max	
<b>Core Courses</b>										
GEO-23/MCC – 203	Fundamentals of Physical Geography-I	4	3 : 0 : 1 : 5	20	10	50	20	40	100	
GEO-23/DSEC – 201	Skills in Cartography	4	3 : 0 : 1 : 5	20	10	50	20	40	100	
<b>Minor/Vocational Courses</b>										
GEO-23/ M 202	Human Geography of India	4	3 : 0 : 1 : 5	20	10	50	20	40	100	
<b>Multidisciplinary Courses</b>										
GEO-23/MDC - 202	Geography of the Environment	3	2 : 0 : 1 : 4	15	05	35	20	30	75	
<b>Ability Enhancement Courses</b>										
AEC- 02	Communicative English - II	2	2 : 0 : 0 : 2	15	-	35	-	20	50	
<b>Skill Enhancement Courses</b>										
GEO-23/SEC- 202	Computer Aided Cartography	3	2 : 0 : 1 : 4	15	05	35	20	30	75	
<b>Value Added Courses</b>										
VAC-02	Environmental Studies (50%) / Human Values and Ethics (50%)	2	2 : 0 : 0 : 2	15	-	35	-	20	50	
VAC-02										
<b>Total</b>		<b>22</b>							<b>550</b>	

<b>Internship Courses</b>										
Course Code	Course Title	Credit	L : T : P: CH	Internal Marks		External Marks		Total Marks		
				Th	Pr	Th	Pr	Min	Max	
INT 201	Internship of 4-6 weeks duration after 2 <sup>nd</sup> semester	4	0 : 0 : 4	--	30	--	70	40	100	

<b>Exit Option</b>										
Under Graduate Certificate in Geography (with 48 Credits)										

Department of Geography, CRSU, Jind

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Page No.1  
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### Semester – III

Course Code	Course Title	Credit	L : T : P: CH	Internal Marks		External Marks		Total Marks	
				Th	Pr	Th	Pr	Min	Max
<b>Core Courses</b>									
GEO-23/MCC – 304	Fundamentals of Physical Geography-II	4	3 : 0 : 1 : 5	20	10	50	20	40	100
GEO-23/MCC – 305	Population Geography	4	3 : 0 : 1 : 5	20	10	50	20	40	100
<b>Minor/Vocational Courses</b>									
GEO-23/ M 303	Geography of Haryana	4	3 : 0 : 1 : 5	20	10	50	20	40	100
<b>Multidisciplinary Courses</b>									
GEO-23/MDC - 303	Weather Forecasting	3	2 : 0 : 1 : 4	15	05	35	20	30	75
<b>Ability Enhancement Courses</b>									
AEC- 03	व्यवहारिक हिंदी - I	2	2 : 0 : 0 : 2	15	-	35	-	20	50
<b>Skill Enhancement Courses</b>									
GEO-23/SEC- 303	Exploration of Geographical Landscapes	3	2 : 0 : 1 : 4	15	05	35	20	30	75
<b>Value Added Courses</b>									
GEO-23/VAC-303	Sustainable Development Goals	2	2 : 0 : 0 : 2	15	-	35	-	20	50
<b>Total</b>		<b>22</b>							<b>550</b>

### Semester – IV

Course Code	Course Title	Credit	L : T : P: CH	Internal Marks		External Marks		Total Marks	
				Th	Pr	Th	Pr	Min	Max
<b>Core Courses</b>									
GEO-23/MCC – 406	Fundamentals of Human Geography	4	3 : 0 : 1 : 5	20	10	50	20	40	100
GEO-23/MCC – 407	History and Philosophy of Geography	4	3 : 0 : 1 : 5	20	10	50	20	40	100
GEO-23/MCC – 408	Urban Geography	4	3 : 0 : 1 : 5	20	10	50	20	40	100
GEO-23/DSE – 401	Geography of Tourism	4	3 : 0 : 1 : 5	20	10	50	20	40	100
	or Geography of Health	4	3 : 0 : 1 : 5	20	10	50	20	40	100
<b>Minor/Vocational Courses</b>									
GEO-23/ M 404(V)	Fundamentals of Remote Sensing	4	3 : 0 : 1 : 5	20	10	50	20	40	100
<b>Multidisciplinary Courses</b>									
--	--	--	--	--	--	--	--	--	--
<b>Ability Enhancement Courses</b>									
AEC- 04	व्यवहारिक हिंदी - II	2	2 : 0 : 0 : 2	15	-	35	-	20	50
<b>Skill Enhancement Courses</b>									
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<b>Value Added Courses</b>									
GEO-23/VAC-404	Understanding Climate Change	2	2 : 0 : 0 : 2	15	-	35	-	20	50
<b>Total</b>		<b>24</b>							<b>600</b>

### Internship Courses

Course Code	Course Title	Credit	L : T : P: CH	Internal Marks		External Marks		Total Marks	
				Th	Pr	Th	Pr	Min	Max
INT 402	Internship of 4-6 weeks duration after 4 <sup>th</sup> semester (If not done after 2 <sup>nd</sup> semester)	4	0:0:4	--	30	--	70	40	100

### Exit Option

Under Graduate Diploma in Geography (with 94 Credits)

Department of Geography, CRSU, Jind

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Page No.2  
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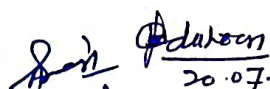
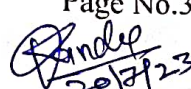
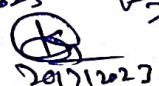
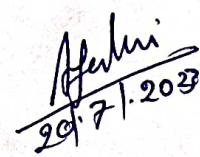
Semester – V									
Course Code	Course Title	Credit	L : T : P : CH	Internal Marks		External Marks		Total Marks	
				Th	Pr	Th	Pr	Min	Max
<b>Core Courses</b>									
GEO-23/MCC – 509	Basics of Economic Geography	4	3 : 0 : 1 : 5	20	10	50	20	40	100
GEO-23/MCC – 510	Geography of Water Resources	4	3 : 0 : 1 : 5	20	10	50	20	40	100
GEO-23/DSE – 502	Transport Geography	4	3 : 0 : 1 : 5	20	10	50	20	40	100
	or Cultural Geography	4	3 : 0 : 1 : 5	20	10	50	20	40	100
GEO-23/DSE – 503	Geography and Disaster Management	4	3 : 0 : 1 : 5	20	10	50	20	40	100
	or Biogeography	4	3 : 0 : 1 : 5	20	10	50	20	40	100
<b>Minor/Vocational Courses</b>									
GEO-23/M 505(V)	Fundamentals of GIS	4	3 : 0 : 1 : 5	20	10	50	20	40	100
<b>Multidisciplinary Courses</b>									
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<b>Ability Enhancement Courses</b>									
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<b>Skill Enhancement Courses</b>									
INT201/INT402	Internship done after 2nd or 4th semester	4	--	--	30	--	70	40	100
<b>Value Added Courses</b>									
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<b>Total</b>		<b>24</b>							<b>600</b>

Semester – VI									
Course Code	Course Title	Credit	L : T : P : CH	Internal Marks		External Marks		Total Marks	
				Th	Pr	Th	Pr	Min	Max
<b>Core Courses</b>									
GEO-23/MCC – 611	Statistical Methods in Geography	4	3 : 0 : 1 : 5	20	10	50	20	40	100
GEO-23/MCC – 612	Regional Development and Planning	4	3 : 0 : 1 : 5	20	10	50	20	40	100
GEO-23/DSE – 604	Agricultural Geography	4	3 : 0 : 1 : 5	20	10	50	20	40	100
	or Social Geography	4	3 : 0 : 1 : 5	20	10	50	20	40	100
GEO-23/DSE – 605	Soil Geography	4	3 : 0 : 1 : 5	20	10	50	20	40	100
	or Political Geography	4	3 : 0 : 1 : 5	20	10	50	20	40	100
<b>Minor/Vocational Courses</b>									
GEO-23/M 606(V)	Making of Maps	4	3 : 0 : 1 : 5	20	10	50	20	40	100
<b>Multidisciplinary Courses</b>									
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<b>Ability Enhancement Courses</b>									
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<b>Skill Enhancement Courses</b>									
GEO-23/SEC- 604	Field Survey based Report (Socio-Economic)	2	1 : 0 : 1 : 3	10	05	20	15	20	50
<b>Value Added Courses</b>									
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<b>Total</b>		<b>22</b>							<b>550</b>

**Exit Option**  
Bachelor with Major in (Geography) and Minor in ( ) (with 136 Credits)

Department of Geography, CRSU, Jind

Page No.3

  
 20.07.2023  
 20/7/23  
 20/7/23  
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Semester – VII										
Course Code	Course Title	Credit	L : T : P: CH	Internal Marks		External Marks		Total Marks		
				Th	Pr	Th	Pr	Min	Max	
<b>Major/Core Courses in Honours</b>										
GEO-23/CC – H701	Geography and Climate	4	4 : 0 : 0 : 4	20	10	50	20	40	100	
GEO-23/CC – H702	Landforms: Origin, Structure and Process	4	4 : 0 : 0 : 4	20	10	50	20	40	100	
GEO-23/CC – H703	Watershed Management	4	4 : 0 : 0 : 4	20	10	50	20	40	100	
<b>Discipline Specific Elective Courses in Honours</b>										
GEO-23/DSE – H701	Geography of Asia	4	4 : 0 : 0 : 4	20	10	50	20	40	100	
	or Geography of Africa	4	4 : 0 : 0 : 4	20	10	50	20	40	100	
<b>Practicum Courses</b>										
GEO-23/PC – H701	Surveying Techniques in Geography	4	0 : 0 : 4 : 8	20	10	50	20	40	100	
<b>Minor Courses in Honours</b>										
GEO-23/CC-HM701	Population Dynamics and Policies	4	4 : 0 : 0 : 4	20	10	50	20	40	100	
		<b>Total</b>	<b>24</b>							<b>600</b>

Semester – VIII										
Course Code	Course Title	Credit	L : T : P: CH	Internal Marks		External Marks		Total Marks		
				Th	Pr	Th	Pr	Min	Max	
<b>Major/Core Courses in Honours</b>										
GEO-23/CC – H804	Hazard Management-Natural	4	4 : 0 : 0 : 4	20	10	50	20	40	100	
GEO-23/CC – H805	Research Methodology in Geography	4	4 : 0 : 0 : 4	20	10	50	20	40	100	
GEO-23/CC – H806	Geography of Settlements	4	4 : 0 : 0 : 4	20	10	50	20	40	100	
<b>Discipline Specific Elective Courses in Honours</b>										
GEO-23/DSE – H802	Geography of Europe	4	4 : 0 : 0 : 4	20	10	50	20	40	100	
	or Geography of North America	4	4 : 0 : 0 : 4	20	10	50	20	40	100	
<b>Practicum Courses</b>										
GEO-23/PC – H802	Socio-Economic Field Survey	4	0 : 0 : 4 : 8	20	10	50	20	40	100	
<b>Minor Courses in Honours</b>										
GEO-23/CC-HM802	Hazard Management-Man Made	4	4 : 0 : 0 : 4	20	10	50	20	40	100	
		<b>Total</b>	<b>24</b>							<b>600</b>

**Exit Option**

Bachelor (Honours) in Geography as Major Subject (with 184/180 Credits)

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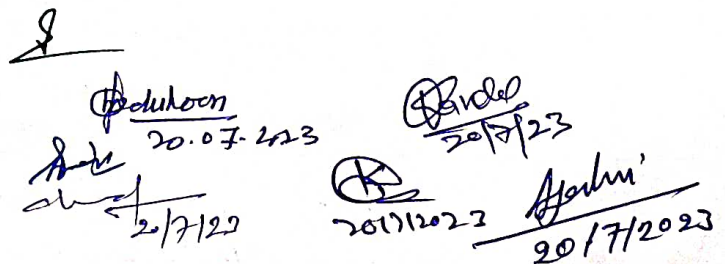
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Semester – VII										
Course Code	Course Title	Credit	L : T : P : CH	Internal Marks		External Marks		Total Marks		
				Th	Pr	Th	Pr	Min	Max	
<b>Major/Core Courses in Honours</b>										
GEO-23/CC – H701	Geography and Climate	4	4 : 0 : 0 : 4	20	10	50	20	40	100	
GEO-23/CC – H702	Landforms: Origin, Structure and Process	4	4 : 0 : 0 : 4	20	10	50	20	40	100	
GEO-23/CC – H703	Watershed Management	4	4 : 0 : 0 : 4	20	10	50	20	40	100	
<b>Discipline Specific Elective Courses in Honours</b>										
GEO-23/DSE – H701	Geography of Asia or Geography of Africa	4 4	4 : 0 : 0 : 4 4 : 0 : 0 : 4	20	10	50	20	40	100	
<b>Practicum Courses</b>										
GEO-23/PC – H701	Surveying Techniques in Geography	4	0 : 0 : 4 : 8	20	10	50	20	40	100	
<b>Minor Courses in Honours</b>										
GEO-23/CC-HM701	Population Dynamics and Policies	4	4 : 0 : 0 : 4	20	10	50	20	40	100	
<b>Total</b>		<b>24</b>							<b>600</b>	

Semester – VIII										
Course Code	Course Title	Credit	L : T : P : CH	Internal Marks		External Marks		Total Marks		
				Th	Pr	Th	Pr	Min	Max	
<b>Major/Core Courses in Honours</b>										
GEO-23/CC – H804	Geography and Hazard Management	4	4 : 0 : 0 : 4	20	10	50	20	40	100	
GEO-23/CC – H805	Research Methodology in Geography	4	4 : 0 : 0 : 4	20	10	50	20	40	100	
<b>Discipline Specific Elective Courses in Honours</b>										
-	--	--	--	--	--	--	--	--	--	
<b>Practicum Courses</b>										
GEO-23/PC – H802	Project/ Dissertation	12	--	--	90	--	210	120	300	
<b>Minor Courses in Honours</b>										
GEO-23/CC-HM802	Hazard Management-Man Made	4	4 : 0 : 0 : 4	20	10	50	20	40	100	
<b>Total</b>		<b>24</b>							<b>600</b>	

**Exit Option**

Bachelor (Honours with Research) in Geography as Major Subject (with 184/180 Credits)


  
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Question 1 is  
for each  
each

**Chaudhary Ranbir Singh University, Jind**  
**Syllabus for Under Graduate Programmes as per NEP- 2020**  
**(Multiple Entry – Exit, Internships and Choice Based Credit System) w.e.f.2023-24**

MCC-A1			
Session: 2023-24			
Part A – Introduction			
Subject	Geography		
Semester	I		
Name of the Course	Introduction to Geography of India		
Course Code	GEO-23/MCC - 101		
Course Type: (CC/MCC/MDC/CC- M/DSEC/VOC/DSE/PC/AEC/VA C)	MCC		
Level of the course (As per Annexure-I)	100-199		
Pre-requisite for the course (if any)	NA		
Course Learning Outcomes (CLO):	<p>After completing this course, the learner will be able to:</p> <ol style="list-style-type: none"> <li>1. provide knowledge about the physiography of our nation.</li> <li>2. understand the agriculture and irrigation system.</li> <li>3. understand the basic demographic structure and literacy.</li> <li>4. provide awareness about the resources and industries of our nation.</li> </ol> <p>5* acquire knowledge of socio-economic and demographic data</p>		
Credits	Theory	Practical	Total
	03	01	04
Contact Hours	03	02	05
<b>Max. Marks: 100</b> <b>Internal Assessment Marks: 20 + 10 = 30</b> <b>End-Term Exam Marks: 50 + 20 = 70</b>		<b>Time:3 hours</b>	



## PartB- Contents of the Course

### Instructions for Paper-Setter

Question 1 is compulsory comprising five sub-parts spread over the entire syllabus (two marks for each sub-part), to be answered in 15-20 words. There will be eight long questions, two from each unit. The candidate has to answer four long questions, at least one question from each unit. All questions carry equal marks.

Unit	Topics	Contact Hours
I	1. Geological history and regions of India. 2. Physiographic divisions of India.	12
II	3. Drainage System and Soils of India. 4. Climate and Natural Vegetation of India.	11
III	5. Population: distribution, density and growth. 6. Population composition: sex ratio, rural and urban, literacy, work force, language and religion.	11
IV	7. Resources: Production and distribution of iron ore, coal, petroleum, hydro power, solar and thermal power 8. Industries: iron and steel, sugar and cotton textile; transport and communication	11
V*	<p>Instructions for external practical examiner: There will be three questions in all and candidate has to attempt two exercises.</p> <p>Distribution of marks for evaluation                      Exercise = 10 marks                      File record = 5 marks                      Viva-Voce = 5 marks</p> <hr/> <p>Practical Record: A project file consisting of 8 exercises on the below mentioned themes: -</p> <ol style="list-style-type: none"> <li>1. Drawing of Isopleth lines on map of India (1 exercise)</li> <li>2. Landuse pattern of India (pie chart-1 exercise)</li> <li>3. Population distribution and density map of India (choropleth and dot method- 2 exercise)</li> <li>4. Occupational structure, Sex ratio, Literacy, Population of selected metro cities of India (any 2 exercise)</li> <li>5. Age and sex structure (pyramid diagram)</li> <li>6. Rainfall deviation diagram of at least 20 years (1 exercise)</li> <li>7. Cropping intensity and irrigation intensity (mono and bi-variate- any 2 exercise)</li> </ol>	30



### Suggested Evaluation Methods

#### Internal Assessment:

##### > Theory

- Class Participation: **05 marks**
- Seminar/presentation/assignment/quiz/class test etc.: **05 marks**
- Mid-Term Exam: **10 marks**

##### > Practicum

- Class Participation: **NIL**
- Seminar/Demonstration/Viva-voce/Lab records etc.: **10 Marks**
- Mid-Term Exam: **NIL**

#### End-Term Examination:

**50 Marks**

**20 Marks**

### Part C-Learning Resources

#### Recommended Books/e-resources/LMS:

1. Deshpande C. D. (1992) India: A Regional Interpretation, ICSSR, New Delhi.
2. Hussain M. (1992) Geography of India, Tata McGraw Hill Education
3. Johnson, B. L. C., ed. (2001) Geographical Dictionary of India. Vision Books, New Delhi.
4. Mamoria C. B. (1980) Economic and Commercial Geography of India, Shiva Lal Agarwala.
5. Mandal R. B. (ed.), (1990) Patterns of Regional Geography – An International Perspective. Vol. 3 – Indian Perspective.
6. Sdyasuk Galina and P Sengupta (1967) Economic Regionalisation of India, Census of India
7. Sharma, T. C. (2003) India - Economic and Commercial Geography. Vikas Publ., New Delhi.
6. Singh R. L. (1971) India: A Regional Geography, National Geographical Society of India.
8. Singh, Jagdish (2003) India - A Comprehensive & Systematic Geography, GyanodayaPrakashan, Gorakhpur.
9. Pathak, C. R. (2003) Spatial Structure and Processes of Development in India. Regional Science Assoc., Kolkata.
10. Sharma, T.C. (2013) Economic Geography of India. Rawat Publication, Jaipur
11. Spate O. H. K. and Learmonth A. T. A. (1967) India and Pakistan: A General and Regional Geography, Methuen.
12. Tirtha, Ranjit (2002) Geography of India, RawatPubls., Jaipur & New Delhi.
13. Tiwari, R.C. (2007) Geography of India. PrayagPustakBhawan, Allahabad

\*Applicable for courses having practical components.

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MCC-A2			
Session: 2023-24			
Part A- Introduction			
Subject	Geography		
Semester	I		
Name of the Course	Resource Geography		
Course Code	GEO-23/MCC-102		
Course Type: (CC/MCC/MDC/CCM/DSEC/VOC/ DSE/PC/AEC/VAC)	MCC		
Level of the course (As per Annexure-I)	100-199		
Pre-requisite for the course (if any)	NA		
Course Learning Outcomes (CLOs):	<p>After completing this course, the learner will be able to:</p> <ol style="list-style-type: none"> <li>1. acquaint with nature, techniques and field of resource geography.</li> <li>2. enhance knowledge about classification and development process of natural resources.</li> <li>3. provide knowledge on location, conservation and management methods of resources for sustainable development.</li> <li>4. provide knowledge about concepts, policies, problems and models of natural resource utilization.</li> </ol> <p>5* attain skills in mapping and monitoring of land, water, forest and mineral resources.</p>		
Credits	Theory	Practical	Total
	3	1	4
Contact Hours	3	2	5
<b>Max. Marks: 100</b> <b>Internal Assessment Marks: 20+10 = 30</b> <b>End Term Exam Marks: 50+20 = 70</b>		<b>Time: 03 Hours</b>	



**Part B- Contents of the Course**

**Instructions for Paper- Setter**

Question 1 is compulsory comprising of five sub parts spread over entire syllabus (two marks for each sub part), to be answered in 15-20 words. There will be eight long questions, two from each unit. The candidate has to answer four long questions, at least one question from each unit. All questions carry equal marks.

Unit	Topics	Contact Hours
I	1. Nature, scope, techniques and importance of resource geography. 2. Concepts of resource: exploitation, accumulation, poverty and resource degradation.	11
II	3. Classification of resources: renewable and non-renewable, biotic and abiotic resources. 4. Relationship between natural resources and development process. Role of technology in natural resource development.	11
III	5. Distribution, utilization, problems and management of land and water resources. 6. Distribution, utilization, problems and management of forest and mineral resources.	12
IV	7. Models of natural resources process: Zimmermann's primitive and Kirk's decision models. 8. Sustainable resource development; Policies and challenges of natural resource management.	11
V*	<p>Instructions for external practical examiner: There will be three questions in all and candidate has to attempt two exercises.</p> <p>Distribution of marks for evaluation                      Exercise = 10 marks                      File record = 5 marks                      Viva-Voce = 5 marks</p> <hr/> <p>Practical Record: A project file consisting of 8 exercises on the below mentioned themes: -</p> <ol style="list-style-type: none"> <li>Preparation of land use/land cover map of an area from topographical sheets and aerial photographs (2 exercises).</li> <li>Mapping of forest cover of an area from topographical sheets and aerial photographs (2 exercises).</li> <li>Mapping of water bodies of an area from topographical sheets and aerial photographs (2 exercises).</li> <li>Decadal changes in country-wise production of coal and iron ore with comparative decadal changes (2 exercises).</li> </ol>	30

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 Page No.10



### Suggested Evaluation Methods

<b>Internal Assessment:</b> > <b>Theory</b> • Class Participation: <b>05 Marks</b> • Seminar/presentation/assignment/quiz/class test etc.: <b>05 Marks</b> • Mid-Term Exam: <b>10 Marks</b> > <b>Practicum</b> • Class Participation: <b>NIL</b> • Seminar/Demonstration/Viva-voce/Lab records etc.: <b>10 Marks</b> • Mid-Term Exam: <b>NIL</b>	<b>End Term Examination:</b>  <b>50 Marks</b>   <b>20 Marks</b>
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### Part C-Learning Resources

#### Recommended Books/e-resources/LMS:

1. Barbier, EB (2005) Natural Resources and Economic Development, Cambridge University Press, Cambridge.
2. Bhatta, B (2011) Remote Sensing and GIS, Oxford University Press, New Delhi.
3. Borton, I and Kates, RW (1984) Readings in Resource Management and Conservation, University of Chicago Press, Chicago.
4. Bruce, M (1989) Geography and Resource Analysis, John Wiley and Son, New York.
5. Chiras, DD and Reganold, JP (2009) Natural Resource Conservation: Management for a Sustainable Future, Pearson, New Delhi.
6. Cutter SN, Renwich HL and Renwick W (1991) Exploitation, Conservation, Preservation: A Geographical Perspective on Natural Resources Use, John Wiley and Sons, New York.
7. Gadgil M and Guha R (2005) The Use and Abuse of Nature: Incorporating This Fissured Land: An Ecological History of India and Ecology and Equity, Oxford University Press, USA.
8. Gautam, A (2013) Geography of Resources: Exploitation, Conservation and Management. Sharda PustakBhawan, Allahabad.
9. Guha, JL and PR Chattroj (1994) Economic Geography-A Study of Resources, The World Press, Calcutta.
10. Holechek JLC, Richard A, Fisher JT and Valdez R (2003) Natural Resources: Ecology, Economics and Policy, Prentice Hall, New Jersey.
11. Jones G and Hollier G (1997) Resources, Society and Environmental Management, Paul Chapman, London.
12. Klee G (1991) Conservation of Natural Resources, Prentice Hall, Englewood.
13. Lillesand, TM, Kiefer, RW and Chipman, JW (2015) Remote Sensing and Image Interpretation, John Wiley and Sons, New York.
14. Martino, RL (1969) Resource Management. Mc Graw Hill Book Company, London.
15. Mather AS and Chapman K (1995) Environmental Resources, John Wiley and Sons, New York.
16. Mitchell B (1997) Resource and Environmental Management, Longman Harlow, England.
17. Negi, BS (2000) Geography of Resources, KedarNath and Ram Nath Publications, Meerut.
18. Owen, OS (1971) Natural Resource Conservation: An Ecological Approach,

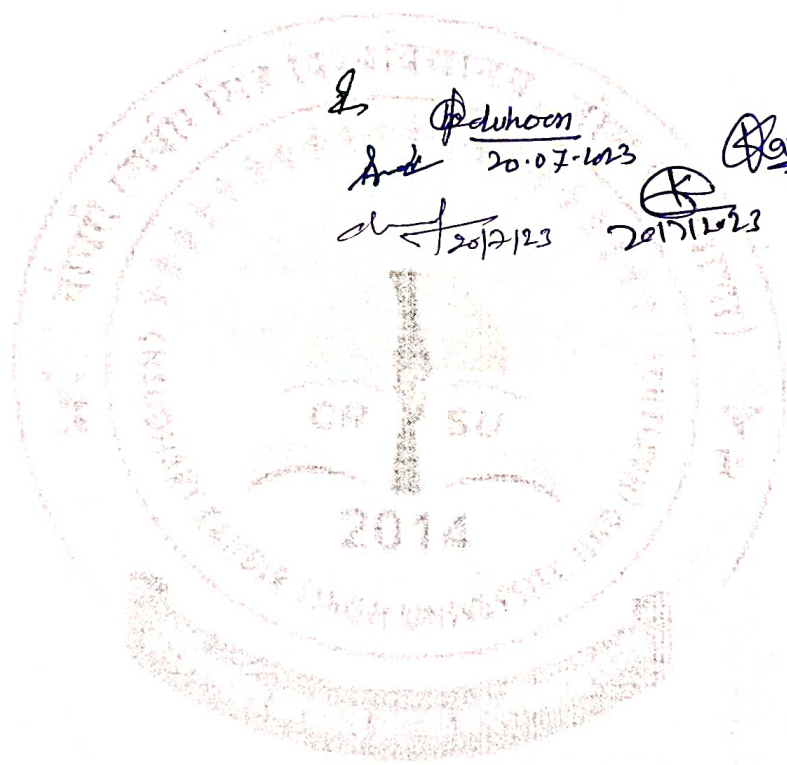
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McMillan, New Delhi.

19. Owen S and Owen PL (1991) Environment, Resources and Conservation, Cambridge University Press, New York.
20. Raja, M (1989) Renewable Resources, Development, Concept Publication, New Delhi.
21. Rees J (1990) Natural Resources: Allocation, Economics and Policy, Routledge, London.
22. Roy, PK (2006) Resource Studies, New Central Book Agency, Calcutta.
23. Shetty, R (2009) An Analysis of World Resources with reference to India, Sarala Raj Ria Publishers, Mysore.
24. Zimmermann, EW (1951) World Resources and Industries, Harper and Brothers, New Delhi.

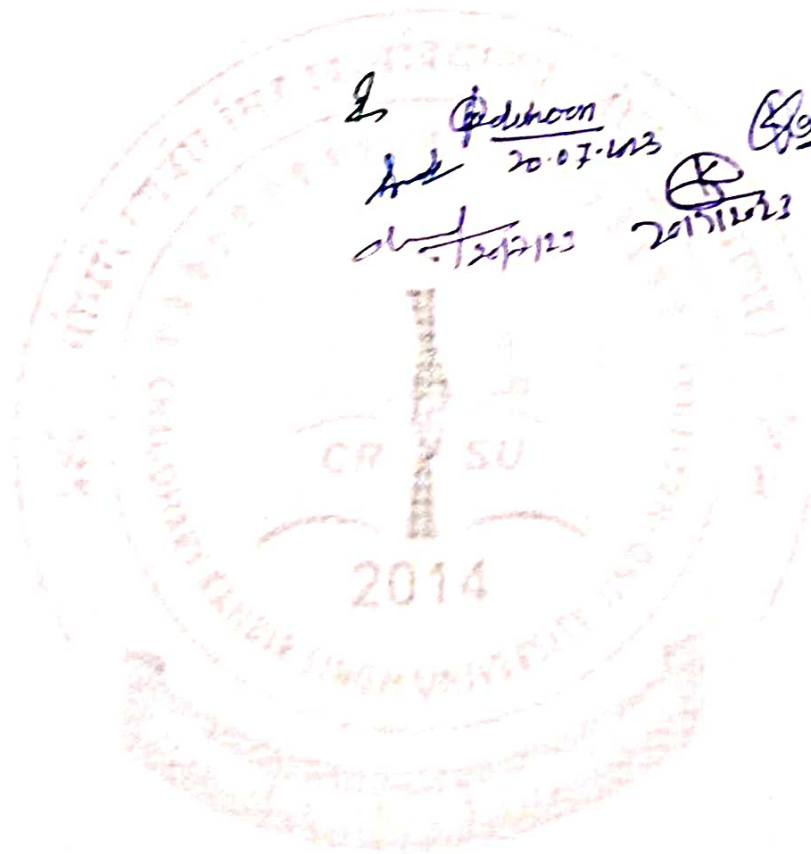
\*Applicable for courses having practical component.





- McMillan, New Delhi.
19. Owen S and Owen PL (1991) Environment, Resources and Conservation, Cambridge University Press, New York.
  20. Raja, M (1989) Renewable Resources, Development, Concept Publication, New Delhi.
  21. Rees J (1990) Natural Resources: Allocation, Economics and Policy, Routledge, London.
  22. Roy, PK (2006) Resource Studies, New Central Book Agency, Calcutta.
  23. Shetty, R (2009) An Analysis of World Resources with reference to India, Sarala Raj Riaz Publishers, Mysore.
  24. Zimmermann, EW (1951) World Resources and Industries, Harper and Brothers, New Delhi.

\*Applicable for courses having practical component.





CC-M1			
Session: 2023-24			
Part A – Introduction			
Subject	Geography		
Semester	I		
Name of the Course	Physical Geography of India		
Course Code	GEO-23/M-101		
Course Type: (CC/MCC/MDC/CC- M/DSEC/VOC/DSE/PC/AEC/VA C)	CC-M1		
Level of the course (As per Annexure-I)	100-199		
Pre-requisite for the course (if any)	N.A.		
Course Learning Outcomes (CLO):	<p>After completing this course, the learner will be able to:</p> <ol style="list-style-type: none"> <li>1. understand the geological and physiographic structure of India.</li> <li>2. enrich skills about drainage system and various hydrological regimes.</li> <li>3. understand the climate and its characteristics.</li> <li>4. acquire knowledge about different types of flora and soils found in India.</li> </ol> <p>5* attain skills in solving various practical problem associated with physical aspects of India.</p>		
Credits	Theory	Practical	Total
	03	01	04
Contact Hours	03	02	05
<b>Max. Marks:100</b> <b>Internal Assessment Marks: 20+10 =30</b> <b>End-Term Exam Marks: 50+20 = 70</b>		<b>Time:3 hours</b>	

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Page No. 13



**Part B- Contents of the Course**

**Instructions for Paper-Setter**

Question 1 is compulsory comprising of five sub parts spread over entire syllabus (two marks for each sub part). There will be eight long questions, two from each unit. The candidate has to answer four long questions, at least one question from each unit. All questions carry equal marks.

Unit	Topics	Contact Hours
I	1. Geological history and regions of India. 2. Physiographic structure and divisions.	12
II	3. Drainage system of India. 4. Climatic zones of India (Koppen).	10
III	5. Natural vegetation: classification, distribution and inter-relationships 6. Biosphere reserves of India and policies.	13
IV	7. Soils: classification, distribution and inter-relationships. 8. Geological and Climatological disasters.	10
V*	Instructions for external practical examiner: There will be three questions in all and candidate has to attempt two exercises. Distribution of marks for evaluation Exercise = 10 marks File record = 5 marks Viva-Voce = 5 marks  Practical Record: A project file consisting of 8 exercises on the below mentioned themes: - 1. Annual trend of temperature for more than three decades (maximum, minimum and mean) (2 exercises). 2. Preparation of Rainfall distribution and deviation diagram of Rainfall of India (2 exercises). 3. Preparation of an inventory of flora and fauna (2 exercise). 4. Preparation of an inventory of major natural disasters in past one decade in India (2 exercise).	30

**Suggested Evaluation Methods**

<p><b>Internal Assessment:</b></p> <p>&gt; <b>Theory</b></p> <ul style="list-style-type: none"> <li>• Class Participation: <b>05 Marks</b></li> <li>• Seminar/presentation/assignment/quiz/class test etc.: <b>05 Marks</b></li> <li>• Mid-Term Exam: <b>10 Marks</b></li> </ul> <p>&gt; <b>Practicum</b></p> <ul style="list-style-type: none"> <li>• Class Participation: <b>NIL</b></li> <li>• Seminar/Demonstration/Viva-voce/Lab records etc.: <b>10 Marks</b></li> <li>• Mid-Term Exam: <b>NIL</b></li> </ul>	<p><b>End-Term Examination:</b></p> <p><b>50 Marks</b></p> <p><b>20 Marks</b></p>
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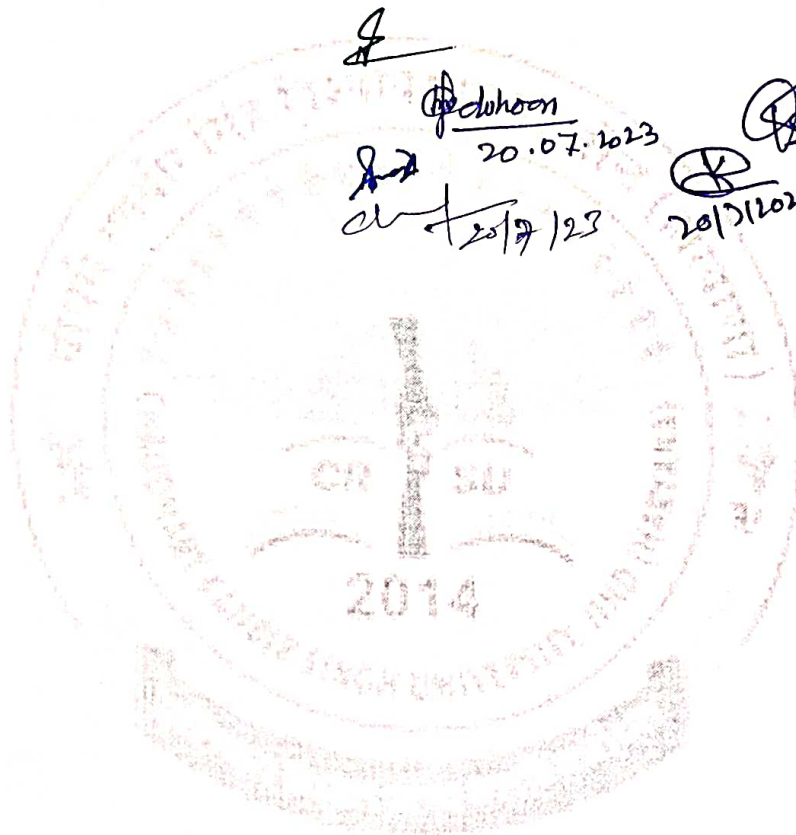
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## Part C-Learning Resources

### Recommended Books/e-resources/LMS:



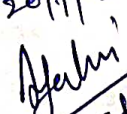

1. Deshpande, C.D. (1992) India-A Regional Interpretation, Northern Book Depot, New Delhi.
2. Hussain Majid (2015) Geography of India, Mc Graw Hill Education.
3. Shafi, M. (2000) Geography of South Asia, McMillan and Company, Calcutta.
4. Singh, Gopal (2006) Geography of India, Atma Ram and Sons, New Delhi.
5. Singh, R.L. (1971) India: A Regional Geography, National Geographical Society, India, Varanasi.

\*Applicable for courses having practical components.





MDC-1			
Session: 2023-24			
Part A – Introduction			
Subject	Geography		
Semester	I		
Name of the Course	Geography in Everyday Life		
Course Code	GEO-23/MDC-101		
Course Type: (CC/MCC/MDC/CC- M/DSEC/VOC/DSE/PC/AEC/VA C)	MDC		
Level of the course (As per Annexure-I)	100-199		
Pre-requisite for the course (if any)	N.A.		
Course Learning Outcomes (CLO):	<p>After completing this course, the learner will be able to:</p> <ol style="list-style-type: none"> <li>1. understand the geographical phenomena observed in its surroundings.</li> <li>2. enrich skills about various elements that compose the surrounding environment.</li> <li>3. understand the climate and its characteristics.</li> </ol> <p>4* attain skills in solving various practical problem associated with geography.</p>		
Credits	Theory	Practical	Total
	02	01	03
Contact Hours	02	02	04
<b>Max. Marks:100</b>		<b>Time:3 hours</b>	
<b>Internal Assessment Marks: 15+05 =20</b>			
<b>End-Term Exam Marks: 35+20 = 55</b>			

  
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## Part B-Contents of the Course

### Instructions for Paper-Setter

Question 1 is compulsory comprising of seven sub parts spread over entire syllabus (one marks for each sub part). There will be eight long questions, two from each unit. The candidate has to answer four long questions, at least one question from each unit. All questions carry equal marks.

Unit	Topics	Contact Hours
I	1. Solar System: location, shape and uniqueness of earth. 2. Formation of Day/night, Seasons and Various movements of Earth.	7
II	3. Continents and Oceans on Earth. 4. Latitude, Longitude, Times zones and International dateline.	7
III	5. Atmosphere: structure and composition. 6. Elements of weather and climate.	8
IV	7. Types of Vegetation. 8. Climate change and human being.	8
V*	<p>Instructions for external practical examiner: There will be three questions in all and candidate has to attempt two exercises. Distribution of marks for evaluation Exercise = 10 marks File record = 5 marks Viva-Voce = 5 marks</p> <hr/> <p>Practical Record: A project file consisting of 8 exercises on the below mentioned themes: -</p> <ol style="list-style-type: none"> <li>1. Solar System (1 exercises).</li> <li>2. Solstices and Equinoxes (2 exercise)</li> <li>3. Antipodal arrangement of land and water (1 exercise)</li> <li>4. Drawing of latitudes and longitudes (2 exercise)</li> <li>5. Time zones of World (1 exercise)</li> <li>6. Calculation of time in eastern and western hemisphere (2 exercise)</li> <li>7. International Date Line (advancement/reduction of day (2 exercise)</li> </ol>	30

### Suggested Evaluation Methods

#### Internal Assessment:

##### ➤ Theory

- Class Participation: **05 Marks**
- Seminar/presentation/assignment/quiz/class test etc.: **05 Marks**
- Mid-Term Exam: **05 Marks**

##### ➤ Practicum

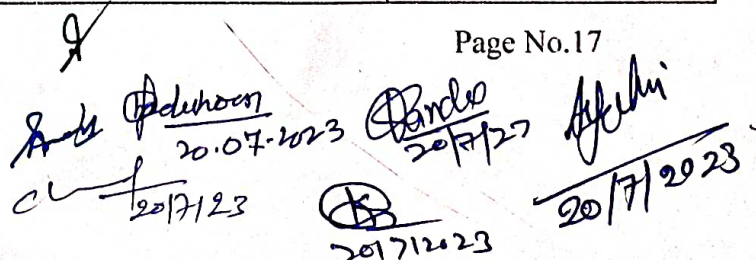
- Class Participation: **NIL**

#### End-Term Examination:

##### 35 Marks

35 Marks

20 Marks


  
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- Seminar/Demonstration/Viva-voce/Lab records etc.: 05 Marks
- Mid-Term Exam: NIL

**Part C-Learning Resources**

**Recommended Books/e-resources/LMS:**

1. NCERT (2017), The Earth: Our Habitat, National Council for Education, Research and Training, Sri Aurobindo Marg, New Delhi.
2. Ojha, S K (2022) World Geography, Baudhik Prkashan, Prayagraj, UP.
3. Husain Majid (2018) Indian and World Geography, McGraw Hill Education (India) Private Limited, Chennai.

\*Applicable for courses having practical components.

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