

RANCHI WOMEN'S COLLEGE

DEPARTMENT OF GEOGRAPHY UNDERGRADUATE PROGRAMME (Courses effective from Academic Year 2018-19)



Choice Based Credit System (CBCS)

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H. O. D.
DEPARTMENT OF GEOGRAPHY
R.W.C. RANCHI

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SYLLABUS OF COURSES TO BE OFFERED

Core Courses, Elective Courses & Skill Enhancement Courses

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BOARD OF STUDIES
DEPARTMENT OF GEOGRAPHY
RANCHI WOMEN'S COLLEGE, RANCHI

The Board of Studies for the Department of Geography has been constituted with the following members, for the formulation of UG syllabus under the Choice Based Credit System:

- Chairperson** : Dr. Smita Linda
H.O.D., Department of Geography
Ranchi Women's College
Ranchi
- University Nominee** : Dr. A.P. Sahu
Retd. H.O.D. P.G. Department of Geography
Ranchi University
Ranchi
- Experts:** : 1. Dr. Debjani Roy
H.O.D., P.G. Department of Geography
Nirmala College
Ranchi
2. Dr. Abhay Krishna Singh
Assistant Professor
Department of Geography
Shyama Prasad Mukherjee University
Ranchi
- Alumnae** : Ms. Shyama
Ph.D Scholar. NET JRF
Department of Geography
Ranchi University
Ranchi
- Current Topper** : Rupa Sharma. Roll. No. 28, Session 2015-2018

Faculty Members of the Department:

1. Ms. Shalini Kerketta

2. Dr. Shashi Kanta Toppo

3. Dr. Surbhi Sahu

Smita Linda
27/2/18

A.P. Sahu
27.2.18

Debjani Roy
27/2/2018

Abhay Krishna Singh
27/02/18

Shyama
27/02/2018

Rupa Sharma

S.K. Kerketta
27/2/2018


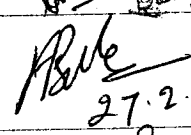
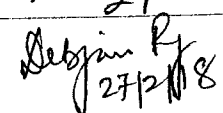
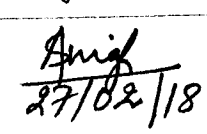
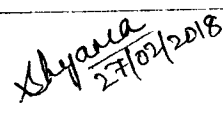
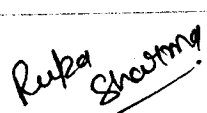
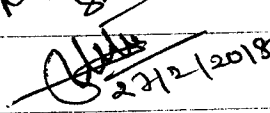
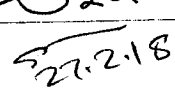
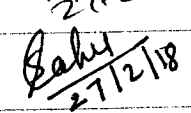
S.K. Toppo
27.2.18

S. Sahu
27/2/18

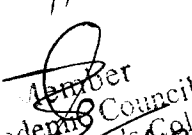
Smita Linda
Signature of the H.O.D.
DEPARTMENT OF GEOGRAPHY
R.W.C. RANCHI

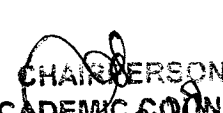
Meeting of Board of Studies

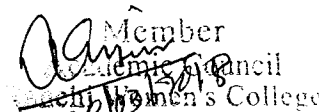
A meeting of Board of Studies of Geography was held in the Department of Geography, Ranchi Women's College, Ranchi on the 27th Day of February 2018. at 11: 30 am. to formulate and finalise the syllabus for the Undergraduate Course, under the Choice Based Credit System. The following members were present and the syllabus was approved with modifications unanimously:


MEMBERS	NAME	DESIGNATION	SIGNATURE
Chairperson	Dr. Smita Linda	H.O.D. Deptt of Geography, R.W.C.	 DEPARTMENT
University Nominee	Dr. A.P. Sahu	Retd. Head, PG. Deptt of Geography, Ranchi University, Ranchi	 27.2.18
Subject Expert 1	Dr. Debjani Roy	Head, PG. Deptt of Geography, Nirmala College, Ranchi	 27/2/18
Subject Expert 2	Dr. Abhay Krishna Singh	Assistant Professor, Deptt of Geography, Shyama Prasad Mukerjee University, Ranchi	 27/02/18
Alumnae	Ms Shyama	NET/SRF. Ph.D Research Scholar, Ranchi University, Ranchi	 27/02/2018
Current Topper	Ms. Rupa Sharma	Student Roll No. 28, (Session 2015-18)	 Rupa Sharma
Faculty Member	Ms. Shalini Kerketta	Associate Professor, Deptt of Geography, R.W.C.	 27/2/2018
Faculty Member	Dr. Shashi Kanta Toppo	Assistant Professor, Deptt of Geography, R.W.C.	 27.2.18
Faculty Member	Dr. Surbhi Sahu	Assistant Professor, Deptt of Geography, R.W.C.	 27/2/18

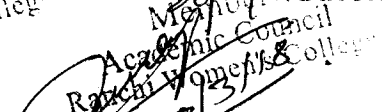
Approved by (Experts) members of Academic Council on 28th March 2018.

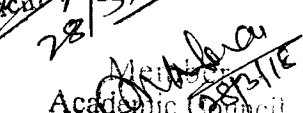
Member Academic Council
Ranchi Women's College

28/03/18

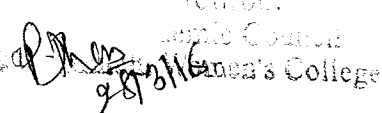
CHAIRPERSON
ACADEMIC COUNCIL
RANCHI WOMEN'S COLLEGE

28/3/18

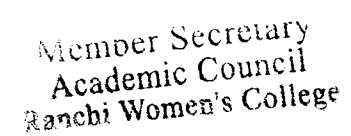
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Ranchi Women's College

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Ranchi Women's College

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Ranchi Women's College

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Member Academic Council
Ranchi Women's College

28/3/18

Member Academic Council
Ranchi Women's College

28/3/18

Member Secretary
Academic Council
Ranchi Women's College


CHOICE BASED CREDIT SYSTEM (CBCS):

The CBCS provides an opportunity for the students to choose courses from the prescribed courses comprising core, elective/minor or skill based courses. The courses can be evaluated following the grading system, which is considered to be better than the conventional marks system. Therefore, it is necessary to introduce uniform grading system in the entire higher education in India. This will benefit the students to move across institutions within India to begin with and across countries. The uniform grading system will also enable potential employers in assessing the performance of the candidates. In order to bring uniformity in evaluation system and computation of the Cumulative Grade Point Average (CGPA) based on student's performance in examinations, the UGC has formulated the guidelines to be followed.

Outline of Choice Based Credit System:

1. **Core Course:** A course, which should compulsorily be studied by a candidate as a core requirement is termed as a Core course.
2. **Elective Course:** Generally a course which can be chosen from a pool of courses and which may be very specific or specialized or advanced or supportive to the discipline/ subject of study or which provides an extended scope or which enables an exposure to some other discipline/subject/domain or nurtures the candidate's proficiency/skill is called an Elective Course.
 - 2.1 **Discipline Specific Elective (DSE) Course:** Elective courses may be offered by the main discipline/subject of study is referred to as Discipline Specific Elective. The University/Institute may also offer discipline related Elective courses of interdisciplinary nature (to be offered by main discipline/subject of study).
 - 2.2 **Dissertation/Project:** An elective course designed to acquire special/advanced knowledge, such as supplement study/support study to a project work, and a candidate studies such a course on his own with an advisory support by a teacher/faculty member is called dissertation/project.
 - 2.3 **Generic Elective (GE) Course:** An elective course chosen generally from an unrelated discipline/subject, with an intention to seek exposure is called a Generic Elective.

P.S.: A core course offered in a discipline/subject may be treated as an elective by other discipline/subject and vice versa and such electives may also be referred to as Generic Elective.
3. **Ability Enhancement Courses (AEC)/Competency Improvement Courses/Skill Development Courses/Foundation Course:** The Ability Enhancement (AE) Courses may be of two kinds: AE Compulsory Course (AECC) and AE Elective Course (AEEC). "AECC" courses are the courses based upon the content that leads to Knowledge enhancement. They ((i) Environmental Science, (ii) English/MIL Communication) are mandatory for all disciplines. AEEC courses are value-based and/or skill-based and are aimed at providing hands-on-training, competencies, skills, etc.
 - 3.1 AE Compulsory Course (AECC): Environmental Science, English Communication/MIL Communication.
 - 3.2 AE Elective Course (AEEC): These courses may be chosen from a pool of courses designed to provide value-based and/or skill-based instruction.

Project work/Dissertation is considered as a special course involving application of knowledge in solving / analyzing /exploring a real life situation / difficult problem. A Project/Dissertation work would be of 6 credits. A Project/Dissertation work may be given in lieu of a discipline specific elective paper.

Details of courses under B.A (Honors), B.Com (Honors) & B.Sc. (Honors)

Course	*Credits	
	Theory+ Practical	Theory + Tutorial
<u>I. Core Course</u>		
(14 Papers)	14X4= 56	14X5=70
Core Course Practical / Tutorial*		
(14 Papers)	14X2=28	14X1=14
<u>II. Elective Course</u>		
(8 Papers)		
A.1. Discipline Specific Elective	4X4=16	4X5=20
(4 Papers)		
A.2. Discipline Specific Elective		
Practical/ Tutorial*	4 X 2=8	4X1=4
(4 Papers)		
B.1. Generic Elective/		
Interdisciplinary	4X4=16	4X5=20
(4 Papers)		
B.2. Generic Elective		
Practical/ Tutorial*	4 X 2=8	4X1=4
(4 Papers)		
• Optional Dissertation or project work in place of one Discipline Specific Elective paper (6 credits) in 6th Semester		
<u>III. Ability Enhancement Courses</u>		
1. Ability Enhancement Compulsory		
(2 Papers of 2 credit each)	2 X 2=4	2 X 2=4
Environmental Science		
English/MIL Communication		
2. Ability Enhancement Elective (Skill Based)		
(Minimum 2)	2 X 2=4	2 X 2=4
(2 Papers of 2 credit each)		
Total credit	140	140
Institute should evolve a system/policy about ECA/ General Interest/Hobby/Sports/NCC/NSS/related courses on its own.		

* wherever there is a practical there will be no tutorial and vice-versa

CBCS COURSE STRUCTURE FOR B.A. (HONOURS) GEOGRAPHY

Semester	Course	Credit	Full Marks	Mid Sem	End Sem	Pass marks	Total Credits
Sem I	CC-1	4	75	15	60	30	20
	CC-2	4	75	15	60	30	
	CC Practical 1	4	50		50	20	
	GE-1	4	75		75	40	
	GE-1 Practical	2	25		25	10	
	AECC	2	100/50+50		100/50+50	40/20+20	
Sem II	CC-3	4	75	15	60	30	20
	CC-4	4	75	15	60	30	
	CC Practical 2	4	50		50	20	
	GE-2	4	75		75	40	
	GE-2 Practical	2	25		25	10	
	EVS	2	100		100	40	
Sem III	CC-5	4	75	15	60	30	26
	CC-6	4	75	15	60	30	
	CC -7	4	75	15	60	30	
	CC Practical 3	6	75		75	30	
	SEC 1	1	75		75	30	
	SEC Practical 1	1	25		25	10	
	GE-3	4	75		75	40	
	GE-3 Practical	2	25		25	10	
Sem IV	CC-8	4	75	15	60	30	26
	CC-9	4	75	15	60	30	
	CC -10	4	75	15	60	30	
	CC Practical 4	6	75		75	30	
	SEC 2	1	75		75	30	
	SEC Practical 2	1	25		25	10	
	GE-4	4	75		75	40	
	GE-4 Practical	2	25		25	10	
Sem V	CC-11	4	75	15	60	30	24
	CC-12	4	75	15	60	30	
	DSE-1	4	75	15	60	30	
	DSE-2	4	75	15	60	30	
	CC Practical 5	8	100		100	40	
Sem VI	CC-13	4	75	15	60	30	24
	CC-14	4	75	15	60	30	
	DSE-3	4	75	15	60	30	
	DSE-4	4	75	15	60	30	
	CC Practical 6	8	100		100	40	
	Total Credits						

B.A. (Honours) Geography

Core Courses

Semester I

- CC1-Geomorphology
- CC2-Oceanography
- Cartographic Techniques (Practical)

Semester II

- CC 3-Human Geography
- CC 4- Resource Geography
- Thematic Cartography (Practical)

Semester III

- CC5- Climatology
- CC6- Geography of India
- CC7- Geography of Jharkhand
- Statistical Methods in Geography (Practical)

Semester IV

- CC8- Economic Geography
- CC9- Environmental Geography
- CC10- Population Geography
- Instrumental Survey

Semester V

- CC11-Geographical Thought
- CC12-Settlement Geography
- Physical Survey

Semester VI

- CC13-Regional Planning and Development
- CC14-Agricultural Geography
- Disaster Management based Project Work

Skill Enhancement Course

Semester III

- SEC1- Remote Sensing Practical (Project Work)
- SEC2- Geographical Information System Practical (Project Work)

Discipline Specific Elective

Semester V

- DSE1- Urban Geography
- DSE 2- Social Geography
- DSE 3- Political Geography
- DSE 4-Bio Geography



Elective Generic Papers

Semester I

- GE-1. Geomorphology Practical (Cartographic Techniques)
- GE-2. Human Geography Practical (Thematic Cartography)

Semester II

- GE-3. Climatology Practical (Statistical Methods)
- GE-4. Economic Geography Practical (Instrumental Survey)

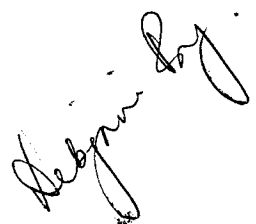


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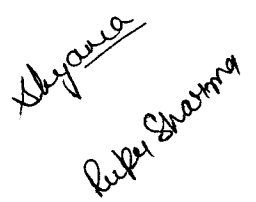











Rupam Sharma

**B.A. (Honours) Geography
Core Papers**

Semester-I

CC-1. Geomorphology: Credits-4

Five (05) questions to be answered out of eight (08) questions

Full marks= 75(60 +15 Internal Assessment/Mid Semester)

Pass Marks-30

Time allotted= 3 hrs

1. Geomorphology: Nature and Scope.
2. Earth: Interior Structure and Isostasy.
3. Earth Movements: Plate Tectonics, Types of Folds and Faults.
4. Geomorphic Processes: Weathering, Cycle of Erosion (Davis & Penck).
5. Evolution of Landforms (Erosional and Depositional): Fluvial, Karst, Aeolian and Glacial.

Reading List

1. Bloom A. L., 2003: Geomorphology: A Systematic Analysis of Late Cenozoic Landforms, Prentice-Hall of India, New Delhi.
2. Bridges E. M., 1990: World Geomorphology, Cambridge University Press, Cambridge.
3. Christopherson, Robert W., (2011), Geosystems: An Introduction to Physical Geography, 8 Ed., Macmillan Publishing Company
4. Kale V. S. and Gupta A., 2001: Introduction to Geomorphology, Orient Longman, Hyderabad.
5. Knighton A. D., 1984: Fluvial Forms and Processes, Edward Arnold Publishers, London.
6. Richards K. S., 1982: Rivers: Form and Processes in Alluvial Channels, Methuen, London.
7. Selby, M.J., (2005), Earth's Changing Surface, Indian Edition, OUP
8. Skinner, Brian J. and Stephen C. Porter (2000), The Dynamic Earth: An Introduction to Physical Geology, 4th Edition, John Wiley and Sons
9. Thornbury W. D., 1968: Principles of Geomorphology, Wiley.
10. Gautam, A (2010): Bhautik Bhugol, Rastogi Publications, Meerut
11. Tikkaa, R N (1989): Bhautik Bhugol ka Swaroop, Kedarnath Ram Nath, Meerut
12. Singh, S (2009): Bhautik Bhugol ka Swaroop, Prayag Pustak, Allahabad
13. Tiwary Ram Kumar, Bhautik bhugol, Rajasthan Hindi Granth Academy, Jaipur

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CC 2-Oceanography: Credits-4

Five (05) questions to be answered out of eight (08) questions

Full marks= 75(60 +15 Internal Assessment/Mid Semester)

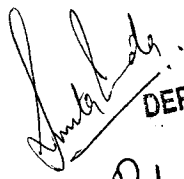
Pass Marks-30

Time allotted= 3 hrs

1. Ocean Floor Topography-Indian Ocean Pacific Ocean and Atlantic Ocean
2. Oceanic Movements – Currents and Tides.
3. Ocean Salinity and Temperature – Distribution and Determinants.
4. Coral Reefs- Types and Theories of Origin
5. Marine Deposits.

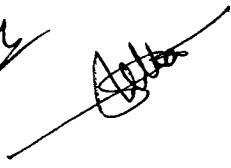
Reading List

1. Andrew. D. ward and Stanley, Trimble (2004): Environmental Hydrology, 2nd edition, Lewis Publishers, CRC Press.
2. Karanth, K.R., 1988 : Ground Water: Exploration, Assessment and Development, Tata-McGraw Hill, New Delhi.
3. Ramaswamy, C. (1985): Review of floods in India during the past 75 years: A Perspective. Indian National Science Academy, New Delhi.
4. Rao, K.L., 1982 : India's Water Wealth 2nd edition, Orient Longman, Delhi,.
5. Singh, Vijay P. (1995): Environmental Hydrology. Kluwar Academic Publications, The Netherlands.
6. Anikouchine W. A. and Sternberg R. W., 1973: *The World Oceans: An Introduction to Oceanography*, Prentice-Hall.
7. Garrison T., 1998: *Oceanography*, Wordsworth Company, Belmont.
8. Kershaw S., 2000: *Oceanography: An Earth Science Perspective*, Stanley Thornes, UK.
9. Pinet P. R., 2008: *Invitation to Oceanography* (Fifth Edition), Jones and Barlett Publishers, USA, UK and Canada.
10. Sharma R. C. and Vatal M., 1980: *Oceanography for Geographers*, Chaitanya Publishing House, Allahabad.
11. Sverdrup K. A. and Armbrust, E. V., 2008: *An Introduction to the World Ocean*, McGraw Hill, Boston.
12. Singh, M., Singh, R.B. and Hassan, M.I. (Eds.) (2014) Landscape ecology and water management. Proceedings of IGU Rohtak Conference, Volume 2. Advances in Geographical and Environmental Studies, Springer



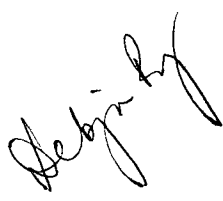
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Rupak Sharma

Cartographic Techniques (Practical 1): Credits-4

Candidates to answer four (04) questions

Full marks= 50

Practical Note Book & Viva=10 marks

Pass Marks=20

Time allotted= 4 hrs

1. Scales – Concept and application; Graphical Construction of Plain
3. Map Projections – Classification, Properties and Uses; Graphical Construction of Polar Zenithal Stereographic Projection, Simple Conical Projection with One standard parallel and Two Standard Parallels, Bonne's Projections.
4. Topographical Map – Concept and Interpretation of a Mountain /plateau area.
5. Profiles- Cross profiles

Reading List

1. Anson R. and Ormelling F. J., 1994: *International Cartographic Association: Basic Cartographic Vol.* Pregmen Press.
2. Gupta K.K. and Tyagi, V. C., 1992: *Working with Map*, Survey of India, DST, New Delhi.
3. Mishra R.P. and Ramesh, A., 1989: *Fundamentals of Cartography*, Concept, New Delhi.
4. Monkhouse F. J. and Wilkinson H. R., 1973: *Maps and Diagrams*, Methuen, London.
5. Rhind D. W. and Taylor D. R. F., (eds.), 1989: *Cartography: Past, Present and Future*, Elsevier, International Cartographic Association.
6. Robinson A. H., 2009: *Elements of Cartography*, John Wiley and Sons, New York.
7. Sharma J. P., 2010: *Prayogic Bhugol*, Rastogi Publishers, Meerut.
8. Singh R. L. and Singh R. P. B., 1999: *Elements of Practical Geography*, Kalyani Publishers.
9. Sarkar, A. (2015) *Practical geography: A systematic approach*. Orient Black Swan Private Ltd., NewDelhi
10. Singh R L & Rana P B Singh(1991) *Prayogtmak Bhugol ke Mool Tatva*, Kalyani Publishers, NewDelhi
11. Sharma, J P (2010) *Prayogtmak Bhugol ki Rooprekha*, Rastogi Publications, Meerut
12. Singh, R L & Dutta, P K (2012) *Prayogtmak Bhugol*, Central Book Depot, Allahabad

Santhi Kishor
H. O. D.
DEPARTMENT OF GEOGRAPHY
R.W.C. RANCHI

Abh

Abh

Babu

Amit

Debjyoti

Shyama

Rupa Sharma

Semester-II

CC 3- Human Geography: Credits-4

Five (05) questions to be answered out of eight (08) questions

Full marks= 75(60 +15 Internal Assessment/Mid Semester)

Pass Marks-30

Time allotted= 3 hrs

1. Meaning, Nature and Scope of Human Geography
2. Cultural Regions of the World; Race; Religion, Major Tribes of the World (Bushmen, Pygmies & Eskimos)
3. Population: Population Growth and Distribution; Population Composition
4. Settlements: Types of Rural Settlements; Classification of Urban Settlements.
5. Population-Resource Relationship, Carrying Capacity of the Earth

Reading List

1. Chandna, R.C. (2010) Population Geography, Kalyani Publisher.
2. Hassan, M.I. (2005) Population Geography, Rawat Publications, Jaipur
3. Daniel, P.A. and Hopkinson, M.F. (1989) The Geography of Settlement, Oliver & Boyd, London.
4. Johnston R; Gregory D, Pratt G. et al. (2008) The Dictionary of Human Geography, Blackwell Publication.
5. Jordan-Bychkov et al. (2006) The Human Mosaic: A Thematic Introduction to Cultural Geography. W. H. Freeman and Company, New York.
6. Kaushik, S.D. (2010) Manav Bhugol, Rastogi Publication, Meerut.
7. Maurya, S.D. (2012) Manav Bhugol, Sharda Pustak Bhawan. Allahabad.
8. Hussain, Majid (2012) Manav Bhugol. Rawat Publications, Jaipur

Sanjay Singh
H. O. D.
DEPARTMENT OF GEOGRAPHY
R.W.C. RANCHI

Prabhu

Abhishek

Balraj

Anil

Subjani Pooj

Khyana

Rupa Sharma

CC4-Resource Geography: Credits-4

Five (05) questions to be answered out of eight (08) questions

Full marks= 75 (60 + 15 Internal Assessment/Mid Semester)

Pass Marks-30

Time allotted= 3 hrs

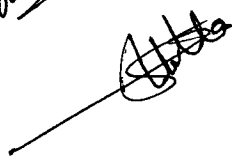
1. Resources: Types, Concept and Classification
2. Distribution, Utilisation, Problems and Management of Land Resources and Water Resources
3. Distribution, Utilisation, Problems and Management of Forests and Energy Resources
4. Appraisal and Conservation of Natural Resources
5. Sustainable Resource Development

Reading List

1. Cutter S. N., Renwick H. L. and Renwick W., 1991: *Exploitation, Conservation, Preservation: A Geographical Perspective on Natural Resources Use*, John Wiley and Sons, New York.
2. 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.
3. Holechek J. L. C., Richard A., Fisher J. T. and Valdez R., 2003: *Natural Resources: Ecology, Economics and Policy*, Prentice Hall, New Jersey.
4. Jones G. and Hollier G., 1997: *Resources, Society and Environmental Management*, Paul Chapman, London.
5. Klee G., 1991: *Conservation of Natural Resources*, Prentice Hall, Englewood.
6. Mather A. S. and Chapman K., 1995: *Environmental Resources*, John Wiley and Sons, New York.
7. Mitchell B., 1997: *Resource and Environmental Management*, Longman Harlow, England.
8. Owen S. and Owen P. L., 1991: *Environment, Resources and Conservation*, Cambridge University Press, New York.
9. Rees J., 1990: *Natural Resources: Allocation, Economics and Policy*, Routledge. London.


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Thematic Cartography (Practical 2): Credits-4

Candidates to answer four (04) questions

Full marks= 50

Practical Note Book & Viva=10 marks

Pass Marks=20

Time allotted= 4 hrs

1. Diagrammatic Data Presentation – Line, Bar and Circle.
2. Thematic Mapping Techniques – Properties, Uses and Limitations; Areal Data - Choropleth, Dot, Proportional Circles; Point Data – Isopleths.
3. Cartographic Overlays – Point, Line and Areal Data.
4. Thematic Maps – Preparation and Interpretation.

Practical Record: A Thematic Atlas should be prepared on a specific theme with five plates of any state in India.

Reading List

1. Cuff J. D. and Mattson M. T., 1982: *Thematic Maps: Their Design and Production*, Methuen Young Books
2. Dent B. D., Torguson J. S., and Holder T. W., 2008: *Cartography: Thematic Map Design* (6th Edition), Mcgraw-Hill Higher Education
3. Gupta K. K. and Tyagi V. C., 1992: *Working with Maps*, Survey of India, DST, New Delhi.
4. Kraak M.-J. and Ormeling F., 2003: *Cartography: Visualization of Geo-Spatial Data*, Prentice-Hall.
5. Mishra R. P. and Ramesh A., 1989: *Fundamentals of Cartography*, Concept, New Delhi.
6. Sharma J. P., 2010: *Prayogic Bhugol*, Rastogi Publishers, Meerut.
7. Singh R. L. and Singh R. P. B., 1999: *Elements of Practical Geography*, Kalyani Publishers.
8. Slocum T. A., McMaster R. B. and Kessler F. C., 2008: *Thematic Cartography and Geovisualization*(3rd Edition), Prentice Hall.
9. Tyner J. A., 2010: *Principles of Map Design*, The Guilford Press.
10. Sarkar, A. (2015) *Practical geography: A systematic approach*. Orient Black Swan Private Ltd., NewDelhi
11. Singh, L R & Singh R (1977): *Manchitra or Pryaogatamek Bhugol* , Central Book, Depot, Allahabad
12. Bhopal Singh R L and Dutta P K (2012) *Prayogatama Bhugol*, Central Book Depot, Allahabad.

Sanjay
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Shyama
Rohini Sharma

Semester - I
Elective: Generic, GE
GE 1 Geomorphology– 04 Credits

Five (05) questions to be answered out of eight (08) questions

Full marks= 75

Pass Marks=40

Time allotted= 3 hrs

1. Interior Structure of the Earth.
2. Crustal Movements of Earth: Continental Drift and Plate Tectonics
3. Endogenetic forces: Types of Folds and Faults; Earthquakes and Volcanoes
4. Davisian Cycle of Erosion
5. Major Landforms: Fluvial, Aeolian ; Karst

Reading List

1. Bloom A. L., 2003: Geomorphology: A Systematic Analysis of Late Cenozoic Landforms, Prentice-Hall of India, New Delhi.
2. Bridges E. M., 1990: World Geomorphology, Cambridge University Press, Cambridge.
3. Christopherson, Robert W., (2011), Geosystems: An Introduction to Physical Geography, 8 Ed., Macmillan Publishing Company
4. Kale V. S. and Gupta A., 2001: Introduction to Geomorphology, Orient Longman, Hyderabad.
5. Knighton A. D., 1984: Fluvial Forms and Processes, Edward Arnold Publishers, London.
6. Richards K. S., 1982: Rivers: Form and Processes in Alluvial Channels, Methuen, London.
7. Selby, M.J., (2005), Earth's Changing Surface, Indian Edition, OUP
8. Skinner, Brian J. and Stephen C. Porter (2000), The Dynamic Earth: An Introduction to Physical Geology, 4th Edition, John Wiley and Sons
9. Thornbury W. D., 1968: Principles of Geomorphology, Wiley.
10. Gautam, A (2010): Bhautik Bhugol, Rastogi Publications, Meerut
11. Tikkaa, R N (1989): Bhautik Bhugol ka Swaroop, Kedarnath Ram Nath, Meerut
12. Singh, S (2009): Bhautik Bhugol ka Swaroop, Prayag Pustak, Allahabad
13. Tiwary Ram Kumar, Bhautik bhugol, Rajasthan Hindi Granth Academy, Jaipur

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Rishi Sharma

Cartographic Techniques (GE 1 Practical): Credits-2

Five (05) questions to be answered

Full marks= 25

Practical Note Book & Viva=10 marks

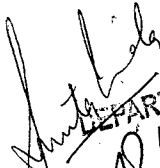

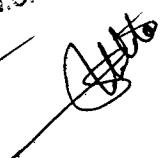
Pass Marks=10

Time allotted= 3 hrs

1. Scales –Graphical Construction of Simple Scale
2. Map Projections –Simple Conical Projection with One standard parallel and Two Standard Parallels, Bonne's Projections.
3. Topographical Map – Concept and Interpretation.

Reading List

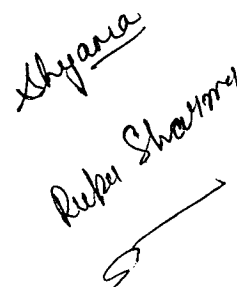
1. Anson R. and Ormelling F. J., 1994: *International Cartographic Association: Basic Cartographic Vol.* Pregmen Press.
2. Gupta K.K. and Tyagi, V. C., 1992: *Working with Map*, Survey of India, DST, New Delhi.
3. Mishra R.P. and Ramesh, A., 1989: *Fundamentals of Cartography*, Concept, New Delhi.
4. Monkhouse F. J. and Wilkinson H. R., 1973: *Maps and Diagrams*, Methuen, London.
5. Rhind D. W. and Taylor D. R. F., (eds.), 1989: *Cartography: Past, Present and Future*, Elsevier, International Cartographic Association.
6. Robinson A. H., 2009: *Elements of Cartography*, John Wiley and Sons, New York.
7. Sharma J. P., 2010: *Prayogic Bhugol*, Rastogi Publishers, Meerut.
8. Singh R. L. and Singh R. P. B., 1999: *Elements of Practical Geography*, Kalyani Publishers.
9. Sarkar, A. (2015) *Practical geography: A systematic approach*. Orient Black Swan Private Ltd., NewDelhi
10. Singh R L & Rana P B Singh(1991) *Prayogtmak Bhugol ke Mool Tatva*, Kalyani Publishers, NewDelhi
11. Sharma, J P (2010) *Prayogtmak Bhugol ki Rooprekha*, Rastogi Publications, Meerut
12. Singh, R L & Dutta, P K (2012) *PrayogatmakBhugol*, Central Book Depot, Allahabad


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Rakesh Sharma

Elective: Generic, GE
GE 2 Human Geography– 04 Credits

Five (05) questions to be answered out of eight (08) questions

Full marks= 75

Pass Marks=40

Time allotted= 3 hrs

1. Definition, Scope and Branches of Human Geography
2. Population: Distribution, Density and Growth of Population of the World; International Migration
3. Major Tribes of the world: Eskimos and Bushman
4. Major Tribes of India: Gujjars and Gonds
5. Major Tribes of Jharkhand: Santhals, Mundas and Oraons

Reading List

1. Chandna, R.C. (2010) Population Geography, Kalyani Publisher.
2. Hassan, M.I. (2005) Population Geography, Rawat Publications, Jaipur
3. Daniel, P.A. and Hopkinson, M.F. (1989) The Geography of Settlement, Oliver & Boyd, London.
4. Johnston R; Gregory D, Pratt G. et al. (2008) The Dictionary of Human Geography, Blackwell Publication.
5. Jordan-Bychkov et al. (2006) The Human Mosaic: A Thematic Introduction to Cultural Geography. W. H. Freeman and Company, New York.
6. Kaushik, S.D. (2010) Manav Bhugol, Rastogi Publication, Meerut.
7. Maurya, S.D. (2012) Manav Bhugol, Sharda Pustak Bhawan. Allahabad.
8. Hussain, Majid (2012) Manav Bhugol. Rawat Publications, Jaipur

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Thematic Cartography (GE 2 Practical): Credits-2

Candidates to answer three (03) questions

Full marks= 25

Practical Note Book & Viva=10 marks

Pass Marks=10

Time allotted= 3 hrs

1. Maps – Classification and Types
2. Diagrammatic Data Presentation – Line, Bar and Circle.
3. Thematic Mapping Techniques – Point, Line and Areal Data.
4. Thematic Maps – Preparation and Interpretation.

Practical Record: A Thematic Atlas should be prepared on a specific theme with five plates of any state in India.

Reading List

1. Cuff J. D. and Mattson M. T., 1982: *Thematic Maps: Their Design and Production*, Methuen Young Books
2. Dent B. D., Torguson J. S., and Holder T. W., 2008: *Cartography: Thematic Map Design* (6th Edition), McGraw-Hill Higher Education
3. Gupta K. K. and Tyagi V. C., 1992: *Working with Maps*, Survey of India, DST, New Delhi.
4. Kraak M.-J. and Ormeling F., 2003: *Cartography: Visualization of Geo-Spatial Data*, Prentice-Hall.
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6. Sharma J. P., 2010: *Prayogic Bhugol*, Rastogi Publishers, Meerut.
7. Singh R. L. and Singh R. P. B., 1999: *Elements of Practical Geography*, Kalyani Publishers.
8. Slocum T. A., McMaster R. B. and Kessler F. C., 2008: *Thematic Cartography and Geovisualization*(3rd Edition), Prentice Hall.
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12. Bhopal Singh R L and Dutta P K (2012) *Prayogatama Bhugol*, Central Book Depot, Allahabad.

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Rupa Sharma