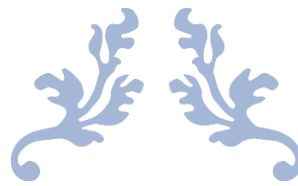


FYUGP
GEOGRAPHY HONOURS/ RESEARCH

FOR UNDER GRADUATE COURSES UNDER
BINOD BIHARI MAHTO KOYALANCHAL UNIVERSITY, DHANBAD



Implemented from
Academic Session 2025-2029

Members of Board of Studies of FYUGP Syllabus as per Guidelines of the Binod Bihari Mahto Koyalanchal University, Dhanbad

As per Guidelines of the Binod Bihari Mahto Koyalanchal University, Dhanbad, Syllabus for undergraduate courses of Geography honours/research/minor under NEP-2020 was prepared by Members of Board of Studies of FYUGP. List of members are following below




Name of Members		Signature
1. Miss Shital Shally Toppo Head, Geography Dept. BBMK Univ. Dhanbad	-Chairman	
2. Mrs. Snehlata Tirkey, Head, Geography Dept., R.S. More College, Dhanbad	- Member	
3. Mr. Raju Lakra, Head, Dept. of Geography, B.S.K. College, Maithan	-Member	
4. Dr. Pradeep Kumar Singh Head, Department of Geography MCC, Hazaribagh	-Member	
5. Dr. Saroj Kumar Singh Head, University Department of Geography VBU Hazaribagh	-Expert Member	

Table 1 A : Credit Framework for the first three years of FYUGP:

Academic Level	1	Level of Courses	2	3 (80)	4 (32)			5	6	7	8	9	10	11	12	13	
					MJ; Discipline Specific Courses – Core or Major (60)	AC; Associated core courses from discipline/ Interdisciplinary/ vocational (8)	ELC; Elective courses may be opted from four paths [Follow table 4, 5 & 6] (16)										MDC; Multidisciplinary Courses (From a pool of Courses) (9)
Level 4.5		Level 100-199: Foundation or Introductory courses	I	4	4	-	-	3	2	3	2	-	-	-	20	4	
			II	4	-	4	-	3	2	3	2	-	-	-	20		
			Exit Point: Undergraduate Certificate provided with Summer Internship/ Project/ Vocational course/ Dissertation (4 credits)														
Level 5		Level 200-299: Intermediate-level courses	III		4	-	-	3	2	-	-	-	-	-	20		
			IV	4+4+4	4	-	-	2	-	-	-	-	-	20			
			Exit Point: Undergraduate Diploma provided with Summer Internship/ Project/ Vocational course/ Dissertation (4 credits)														
Level 5.5		Level 300-399: Higher-level courses	V	4+4+4+4	4	-	-	-	-	-	-	-	-	-	20		
			VI	4+4+4+4	4	-	-	-	-	-	-	-	-	20			
			Exit Point: Bachelor's Degree with Summer Internship/ Project/ Vocational course/ Dissertation (4 credits)													120	+4

Table 1 B: Credit Framework for various pathways in the fourth year of FYUGP:

Academic Level	Level of Courses		MJ; Discipline Specific Courses – Core or Major (20)	AC; Associated core courses from discipline/ Interdisciplinary/ vocational (8)		ELC; Elective courses opted in Semester III from four paths of Table 4, 5 & 6 (8)	MDC; Multidisciplinary Courses (From a pool of Courses) (0)	AEC; Ability Enhancement Courses (Modern Indian Language and English) (0)	SEC; Skill Enhancement Courses (0)	VAC; Value Added Courses (0)	IKS; (i) Indian Knowledge System (0) & (ii) Social awareness (0)	RC; Research Courses (12)	AMJ; Advanced Courses in place of Research (12)	Total Credits	IAP; Internship/Apprenticeship/ Project/ Vocational course/ Dissertation (4)	
	1	2	3 (80)		4(32)	5	6	7	8	9	10	11	12	13		
					Honours with Research											
Level 6	Level 400-499: Advanced courses	VI I	4+4+4	-	4	-	-	-	-	-	-	4	-	20	---	
		VI II	4+4	-	4	-	-	-	-	-	-	8	-	20		
		Exit Point: Bachelor's Degree with Hons. with Research										OR				
OR		Honours														
Level 6	Level 400-499: Advanced courses	VI I	4+4+4	-	4	-	-	-	-	-	-	-	4	20	---	
		VI II	4+4	-	4	-	-	-	-	-	-	-	4+4	20		
		Exit Point: Bachelor's Degree with Hons.														

SEMESTER WISE COURSES OF STUDY FOR FOUR YEAR UNDERGRADUATE PROGRAMME
2025 onwards

Table 2: Semester-wise Course Code and Credit Points for Single Major during the First Three Years of FYUGP

Semester	Common, Introductory, Major, Minor, Vocational & Internship Courses		Credits	
	Code	Papers	Paper	Semester
I	AEC-1	Language and Communication Skills (MIL-I; Modern Indian language Hindi/ English)	2	20
	VAC-1	Value Added Course- I	2	
	IKS-I	Indian Knowledge System-I/Social Awareness Activities	2	
	SEC-1	Skill Enhancement Course- I	3	
	MDC-1	Multi-disciplinary Course- I	3	
	AC-1	Associated core courses from discipline/ Interdisciplinary/ vocational	4	
	MJ-1	Major paper I (Disciplinary/ Interdisciplinary Major)	4	
II	AEC-2	Language and Communication Skills (MIL-I; Modern Indian language English/ Hindi)	2	20
	VAC-2	Value Added Course-2	2	
	1KS-2	Social Awareness Activities/ Indian Knowledge System-I	2	
	SEC-2	Skill Enhancement Course-2	3	
	MDC-2	Multi-disciplinary Course-2	3	
	AC-2	Associated core courses from discipline/ Interdisciplinary/ vocational	4	
	MJ-2	Major paper 2 (Disciplinary/ Interdisciplinary Major)	4	
III	AEC-3	Language and Communication Skills (MIL-2; MIL including TRL)	2	20
	SEC-3	Skill Enhancement Course-3	3	
	MDC-3	Multi-disciplinary Course-3	3	
	ELC-1	Elective courses from discipline/ Interdisciplinary/ vocational	4	
	MJ-3	Major paper 3 (Disciplinary/ Interdisciplinary Major)	4	
	MJ-4	Major paper 4 (Disciplinary/ Interdisciplinary Major)	4	
IV	AEC-4	Language and Communication Skills (MIL-2; MIL including TRL)	2	20
	VAC-3	Value Added Course-3	2	
	ELC-2	Elective ELC from discipline/ Interdisciplinary/ vocational	4	
	MJ-5	Major paper 5 (Disciplinary/ Interdisciplinary Major having IKS)	4	
	MJ-6	Major paper 6 (Disciplinary/ Interdisciplinary Major)	4	
	MJ-7	Major paper 7 (Disciplinary/ Interdisciplinary Major)	4	
V	ELC-3	Elective courses from discipline/ Interdisciplinary/ vocational	4	20
	MJ-8	Major paper 8 (Disciplinary/ Interdisciplinary Major)	4	
	MJ-9	Major paper 9 (Disciplinary/ Interdisciplinary Major)	4	
	MJ-10	Major paper 10 (Disciplinary/ Interdisciplinary Major)	4	
	MJ-11	Major paper 10 (Disciplinary/ Interdisciplinary Major)	4	
VI	ELC-4	Elective courses from discipline/ Interdisciplinary/ vocational	4	20
	MJ-12	Major paper 12 (Disciplinary/ Interdisciplinary Major)	4	
	MJ-13	Major paper 13 (Disciplinary/ Interdisciplinary Major)	4	
	MJ-14	Major paper 14 (Disciplinary/ Interdisciplinary Major)	4	
	MJ-15	Major paper 15 (Disciplinary/ Interdisciplinary Major)	4	
Total Credits, excluding one Internship (IAP) of 4 credits			120	120

Table 3A: Semester-wise Course Code and Credit Points for Single Major during the Fourth Year of FYUGP for Bachelor's Degree (Honours with Research)

Semester	Common, Introductory, Major, Minor, Vocational & Internship Courses		Credits	
	Code	Papers	Paper	Semester
VIA	ELC-5	Elective courses from Discipline/Interdisciplinary/vocational	4	20
	MJ-16	Major paper 16 (Disciplinary/Interdisciplinary Major)	4	
	MJ-17	Major paper 17 (Disciplinary/Interdisciplinary Major)	4	
	MJ-18	Major Paper 18 (Disciplinary/Interdisciplinary Major)	4	
	RC-1	Research proposal – Planning & Techniques (Disciplinary/Interdisciplinary Major)	4	
VIAA	ELC-6	Elective courses from Discipline/Interdisciplinary/vocational	4	20
	MJ-19	Major paper 19 (Disciplinary/Interdisciplinary Major)	4	
	MJ-20	Major Paper 20 (Disciplinary/Interdisciplinary Major)	4	
	RC-2	Research Internship/Field Work/Project/Dissertation/Thesis	8	
Total Credits, excluding one internship (IAP) of 4 Credits			160	160

Table 3B: Semester-wise Course Code and Credit Points for Single Major during the Fourth Year of FYUGP for Bachelor's Degree (Honours)

Semester	Common, Introductory, Major, Minor, Vocational & Internship Courses		Credits	
	Code	Papers	Paper	Semester
VIIB	ELC-5	Elective courses from Discipline/Interdisciplinary/vocational	4	20
	MJ-16	Major paper 16 (Disciplinary/Interdisciplinary Major)	4	
	MJ-17	Major paper 17 (Disciplinary/Interdisciplinary Major)	4	
	MJ-18	Major Paper 18 (Disciplinary/Interdisciplinary Major)	4	
	MJ-19	Major Paper 19 (Disciplinary/Interdisciplinary Major)	4	
VIIBB	ELC-6	Elective courses from Discipline/Interdisciplinary/vocational	4	20
	MJ-20	Major paper 20 (Disciplinary/Interdisciplinary Major)	4	
	AMJ-1	Advanced Minor Paper-1 (Disciplinary/Interdisciplinary Major)	4	
	AMJ-2 AMJ-3	Advanced Minor Paper-2 (Disciplinary/Interdisciplinary Major) Advanced Minor Paper-3 (Disciplinary/Interdisciplinary Major)	4	
Total Credits excluding one internship (IAP) of 4 Credits			160	160

Abbreviations:

AEC	Ability Enhancement Courses
SEC	Skill Enhancement Courses
IAP	Internship/Apprenticeship/ Project
IKS	Indian Knowledge System
MDC	Multidisciplinary Courses
ELC	Elective Courses
MJ	Major Disciplinary/interdisciplinary Courses
AC	Associated core courses from discipline/ Interdisciplinary/ vocational
AMJ	Advanced Major Disciplinary/interdisciplinary Courses
RC	Research Courses
JOC	Skill based Job Oriented courses

SEMESTER WISE COURSES IN GEOGRAPHY FOR FYUGP **2025 onward****Table 4: Semester wise Papers and Examination Structure for Geography Major with Bachelor's Degree (Honours):**

Year	Semester	Geography Major		Examination Structure				Pass Marks		
		Code	Papers	Credits	Internal (Mid Semester) Theory (F.M.)	End Semester Theory (F.M.)	End Semester Practical (F.M.)	Internal Theory (Mid Sem.)	End Sem. Theory	End sem. Practical
1st	I	MJ-1: Theory	Physical Geography	3	15 (10+5)*	60	-	6	24	-
		MJ-1: Practical	Practical	1	-	-	25	-	-	10
	II	MJ-2: Theory	Human Geography	3	15 (10+5)*	60	-	6	24	-
		MJ-2: Practical	Practical	1	-	-	25	-	-	10
EXIT POINT: UNDERGRADUATE CERTIFICATE										

- * For internal examination written examination will be of 10 marks and class performance and attendance of 5 marks.
- No internal or mid semester examination will be conducted for practical papers.

Table 5: Semester wise Papers and Examination Structure for Associated Core Course in Geography

Semester	Code	Minor Papers	Credits	Full Marks		Pass Marks	
				Theory (Internal+ End Sem)	Practical End Sem.	Theory (Internal+ End Sem)	Practical End Sem
I/II	AC Theory	Introductory Geography	3	15(10+5) +60	-	30	
	AC Practical	Practical	1	-	25	-	10

General Instructions

1. Semester Internal Theory Examination will be of **1 hour** duration.
2. There shall be only one Practical Examination of 3 hours duration in **each semester for each paper separately**.
3. One external and one internal examiner will conduct the Practical Examinations.
4. There will be **Only One Semester Internal Examination** in Major, Minor, and Research Courses, which will be organized at the college/institution level.
5. Out of 100 Marks, the Semester Internal Theory Examination (each of 1 hour) in the Practical subjects will be of 15 marks and in non-practical subjects will be of 25 marks.
6. 15 Marks in Theory Examination of Practical subjects may include 10 Marks questions from the Written Examination/ Assignment/ Project/ Tutorial, wherever applicable, and 5 marks will be awarded on the attendance/overall class performance in the semester.
7. 25 Marks in Theory Examination of Non-Practical subjects may include 20 Marks questions from Written Examination/ Assignment/ Project/ Tutorial wherever applicable, and 5 marks will be awarded on the attendance/ overall class performance in the semester.
8. To convert attendance into marks, a suggestive range is provided here. However, institutions may develop their range:
[Attendance Upto 45%, 1 mark; 45<Attd. <55, 2 marks; 55<Attd. <65, 3 marks; 65<Attd. <75, 4 marks; 75<Attd, 5 marks]

SYLLABUS OF GEOGRAPHY
DISCIPLINE SPECIFIC COURSE SEMESTER-I
MAJOR PAPER-1
Theory

Instruction to faculty members and Question Setter for:

Semester Internal Examination (SIE):

Time: 1 hour

The Semester Internal Examination shall have two component. (a) Written Examination of 10 Marks and (b) Class Attendance Score of 5 marks.

There will be two groups of question in written examination of 10 marks. Group A is compulsory and will contain five very short type questions containing 1 marks each and Group B will contain descriptive type two questions of 5 marks each, out of which any one is to be answered.

(Attendance UPto 75%, 1 Mark: 75<Attd.<80, 2 marks: 80<Attd.<85, 3 marks: 90<Attd, 5 marks).

End Semester Examination (ESE):

Time: 3 hours

The End Semester Exam will be of 60 marks. There will be two groups of questions. Group A is compulsory and will contain three questions. Question No. 1 will be very short type questions consisting of five questions of 1 mark each. Question No. 2 and 3 will be two short answer type questions of 5 marks each. Group B will contain descriptive type five questions of 15 marks each, out of which any three to be answered.

Program/Class: Undergraduate Certificate	Year-First	Semester-1
Paper - Physical Geography		
Paper Code: MJ-1		Core Compulsory
Credit: 3 (45 hours)		1 Credit-15 hrs
FM:75		SIE=15, ESE=60
PM:30		IE=06, ESE=24
Theory		
<p>Unit 1: Physical geography- nature and scope: Branches of physical Geography: relation of Geography with physical Science (Geology, Meteorology, & Hydrology) and Social Sciences (Economics, Political Science, Anthropology and History)</p>		
<p>Unit 2: Origin of Solar System and Earth (Tidal Hypothesis of Jeans and Jeffreys, Gaseous Theory by Kant, Nebular Hypothesis of Laplace and Big Bang theory)</p>		
<p>Unit 3: Earth's Crust (Endogenetic and Exogenetic forces) folds, faults, plate tectonic.</p>		
<p>Unit 4: Major landforms (Types and classification of Mountains, Plateau and Plains) geosynclines- evolution of concept, geosynclinal orogen theory of Kober</p>		
<p>Unit 5: Origin and types of rocks; Classification of igneous, sedimentary and Metamorphic rock</p>		
Reading List		
<p>1. Bryant, H. Richard (2001): Physical Geography Made Simple, Rupa and Company, New Delhi.</p>		
<p>2. Negi, B.S (2000): Physical Geography, Kedar Nath Ram Nath, Meerut</p>		

3. Singh, S. (2003): Physical Geography, Physical Geography, Prayag Pustak Bhawan, Allahabad.
4. Sharma, Y.K. (2007): Physical Geography, Lakshmi Narain Agarwal, Agra Thornbury, W.D. (1960): Principles of Geomorphology, John Willey and Sons, New York

SYLLABUS OF GEOGRAPHY
DISCIPLINE SPECIFIC COURSE. SEMESTER-I
MAJOR PAPER-1
Practical-1

Instruction to faculty members and Question Setter for:

End Semester Examination (ESE):

Time: 6 hours

The Question for semester exam Practical experiment will be held of 25 Marks. Distribution of marks in end semester exam will be as experiment- 15, viva-voce-05 and notebook- 05.

(Note: There is no internal examination in practical paper)

Program/Class: Undergraduate Certificate	Year-First	Semester-I
Paper - Practical I		
Paper Code: MJ-1P		Core Compulsory
Credit: 1		1 Credit=30 hrs
FM:25		PM: 10
Practical		Credit 1
<ol style="list-style-type: none"> 1. Relief representation from the topographical sheet (V-shaped valley, U-shaped valley, waterfall, cliff). 2. Construction of graphical scale (linear, diagonal and comparative), conversion of map scale. 3. Viva voce and practical notebook. 		
Reading List		
<ol style="list-style-type: none"> 1. Sarkar, A. (2015). <i>Practical geography: A systematic approach</i> (3rd ed.). Orient BlackSwan. 2. Sharma, J. P. (2021). <i>Prayogik Bhugol</i> (4th ed.). Rastogi Publications. 		

SYLLABUS OF GEOGRAPHY
DISCIPLINE SPECIFIC COURSE SEMESTER-II
MAJOR PAPER-2
Theory

Instruction to faculty members and Question Setter for:

Semester Internal Examination (SIE):

Time: 1 hour

The Semester Internal Examination shall have two component. (a) Written Examination of 10 Marks and (b) Class Attendance Score of 5 marks.

There will be two groups of question in written examination of 10 marks. Group A is compulsory and will contain five very short type questions containing 1 marks each and Group B will contain descriptive type two questions of 5 marks each, out of which any one is to be answered.

(Attendance UPto 75%, 1 Mark: 75<Attd.<80, 2 marks: 80<Attd.<85, 3 marks: 90<Attd, 5 marks).

End Semester Examination (ESE):

Time: 3 hours

The End Semester Exam will be of 60 marks. There will be two groups of questions. Group A is compulsory and will contain three questions. Question No. 1 will be very short type questions consisting of five questions of 1 mark each. Question No. 2 and 3 will be two short answer type questions of 5 marks each. Group B will contain descriptive type five questions of 15 marks each, out of which any three to be answered.

Program/Class: Undergraduate Certificate	Year-First	Semester-2
Paper - Human Geography		
Paper Code: MJ-2		Core Compulsory
Credit: 3 (45 hours)		1 Credit-15 hrs
FM:75		SIE=15, ESE=60
PM:30		IE=06, ESE=24
Theory		
Unit 1: Meaning, nature and scope of Human Geography; Development and branches of Human Geography.		
Unit 2: Space and Society; Race; Religion and Language.		
Unit 3: Population: Population Growth and demographic transition theory, Thomas Robert Malthus theory; Factors influencing distribution of population; density of population.		
Unit 4: Migration: Factors influencing migration; types of migration; consequences of migration.		
Unit 5: Settlements: Geographical factors influencing human settlement. Origin and growth of Rural and Urban settlements. Rural Settlements: Types and pattern; Urban Settlements: Morphology and functional classification.		
Reading List		
1. Chandna, R.C. (2010) Population Geography, Kalyani Publisher.		
2. Hussain, Majid, N (2018) Human Geography, Rawat Publications, Jaipur		
3. Hassan, M.I. (2005) Population Geography, Rawat Publications, Jaipur		
4. Daniel, P.A. and Hopkinson, M.F. (1989). The Geography of Settlement, Oliver & Boyd, London.		

**SYLLABUS OF GEOGRAPHY
DISCIPLINE SPECIFIC COURSE. SEMESTER-II
MAJOR PAPER-2
Practical-2**

Instruction to faculty members and Question Setter for:

End Semester Examination (ESE):

Time: 6 hours

The Question for semester exam Practical experiment will be held of 25 Marks. Distribution of marks in end semester exam will be as experiment- 15, viva-voce-05 and notebook- 05.

(Note: There is no internal examination in practical paper)

Program/Class: Undergraduate	Year-First	Semester-II
Certificate		
Paper - Practical II		
Paper Code: MJ-2P		Core Compulsory
Credit: 1		1 Credit=30 hrs
FM:25		PM: 10
Practical		Credit 1
<ol style="list-style-type: none"> 1. Representation of population data by point (Dot, population projection and Proportionate Circles). 2. Graphical representation and analysis- Age-Sex pyramids, 3. Viva voce and practical notebook. 		
Reading List		
<ol style="list-style-type: none"> 1. Sarkar, A. (2015). <i>Practical geography: A systematic approach</i> (3rd ed.). Orient BlackSwan. 2. Sharma, J. P. (2021). <i>Prayogik Bhugol</i> (4th ed.). Rastogi Publications. 		

ASSOCIATED CORE COURSE IN GEOGRAPHY**SEMESTER I/SEMESTER II****GEOGRAPHY-AC-1 THEORY: INTRODUCTORY GEOGRAPHY**

Marks: 75 (End Semester Examination=60, Semester Internal Examination= 10 (Theory), Attendance =05) **Pass Marks (Internal + End Semester) = 30**

Instruction to faculty members and Question Setter for:***Semester Internal Examination (SIE 10 marks):***

There will be **two** groups of questions. Question No.1 will be a **very short answer type in Group A**, consisting of five questions of 1 mark each. **Group B will contain descriptive type** two questions of five marks each, out of which one to be answered.

End Semester Examination (ESE 60 marks):

There will be **two** groups of questions. **Group A is compulsory**, which will contain three questions. **Question No.1 will be a very short answer type** consisting of five questions of 1 mark each. **Questions No.2 & 3 will be short-answer type** of 5 marks. **Group B will contain descriptive type** five questions of fifteen marks each, out of which any three are to be answered.

Note: There may be subdivisions in each question asked in Theory Examinations.

Program/Class: Undergraduate Certificate	Year-First	Semester-I/II
Paper - INTRODUCTORY GEOGRAPHY		
Paper Code: AC-1/AC-2		
Credit: 3 (45 hours)		1 Credit-15 hrs
FM:75		SIE=15, ESE=60
PM:30		IE=06, ESE=24
Theory		
Unit 1- Origin of the Earth, Interior structure of the earth, Earthquake and volcanoes		
Unit 2- Evolution of landforms- Fluvial, glacial, Aeolian, coastal		
Unit 3- Structure and composition of atmosphere, pressure belt and planetary winds and climatic regions		
Unit 4- Distribution of human races, religion, language		
Unit 5- Distribution, density, and growth of World population		
Reading List		
1. Bloom, A. L., (2003): <i>Geomorphology: A Systematic Analysis of Late Cenozoic Landforms</i> , Prentice-Hall of India, New Delhi.		
2. Singh Savindra (2015): <i>Bhuakriti vigyan ka Swarup</i> , Prayag Pustak Bhawan, Allahabad		
3. Christopherson, R. W. and Birkeland, G. H., (2012) <i>Geosystems: An Introduction to Physical Geography (8th edition)</i> , Pearson Education, New Jersey.		
4. Das Gupta, A and Kapoor, A.N., (2001) <i>Principles of Physical Geography</i> , S.C. Chand & Company Ltd. New Delhi.		

5. Chandna, R.C., (2017): *Population Geography*, Kalyani Publishers, New Delhi.
6. Roy D (2022): *Population Geography*, 2nd Edition, Books & Allied, Kolkata
7. Daniel, P.A. and Hopkinson, M.F. (1989): *The Geography of Settlement*, Oliver & Boyd, London.
8. Hassan, M.I. (2005): *Population Geography*, Rawat Publications, Jaipur
9. Hussain, Majid., (2012): *Manav Bhugol*, Rawat Publications, Jaipur

ASSOCIATED CORE COURSE IN GEOGRAPHY**GEOGRAPHY AC-1: Practical****SEMESTER I/SEMESTER II**

Instruction to faculty members and Question Setter for:

End Semester Examination (ESE):

There will be one Practical Examination of 3 hours duration. Evaluation of the Practical Examination will be as per the following guidelines:

<i>Experiment</i>	<i>= 15 marks</i>
<i>Practical record notebook</i>	<i>= 05 marks</i>
<i>Viva-voce</i>	<i>= 05 marks</i>

Credit: 01	Credit=30 hrs
<u>Practical</u>	
Unit 1- Scale- simple linear scale and RF	
Unit 2- Study of Topographical Maps- Conventional signs and Interpretation (one each- hilly/plain area)	
Practical Record: A Project File comprising at least one exercise each, on scale and interpretation of topographic sheet	
Reading List	
<ol style="list-style-type: none"> 1. Anson, R., and Ormelling F. J., (1994): International Cartographic Association: Basic Cartographic, Vol.Pregmen Press. 2. Singh, Gopal., (1998): Map Work and Practical Geography (4th Edition), Vikas Publishing House, Ahmedabad. 3. Gupta, K.K. and Tyagi V.C., (1992): Working with Map, Survey of India, DST, New Delhi. 4. Kraak, M.J., (2010): Cartography: Visualization of Geospatial Data (3rd edition), Pearson Education Ltd., London 	

MULTI-DISCIPLINARY COURSE
SEMESTER I/SEMESTER II/SEMESTER III
GEOGRAPHY-MDC
THEORY: Introduction to Geography

Instruction to faculty members and Question Setter for:

End Semester Examination (ESE 75 marks):

There will be **two** groups of questions. **Group A is compulsory**, which will contain three questions. **Question No.1 will be a very short answer type** consisting of five questions of 1 mark each. **Questions No. 2 & 3 will be short answer type** of 5 marks. **Group B will contain descriptive type** six questions of fifteen marks each, out of which any four are to be answered.

Program/Class: Undergraduate Certificate	Year-First/second/third	Semester-I/II/III
Paper- Introduction to Geography		
Paper Code: MDC		
Credit:3(45 hours)		1 Credit=15 credits
FM=75		Lectures: 45
Pass Marks= 30		
<p>Theory:</p> <p>Unit 1- Physical Geography: Plate tectonics, Weathering, erosion, and deposition, Composition and structure of the atmosphere, winds, pressure belts, Ocean currents, tides</p> <p>Unit 2- Geographical Thought and Settlement Geography: Man–environment relationship: determinism, Possibilism, Migration: types, causes; Demographic transition theory (Thompson); Rural settlements: types, patterns, functions).</p> <p>Unit 3- Environmental Geography: Ecosystem, biomes and biodiversity, resources, global warming, Greenhouse Effect, Sustainable development goals (SDGs), Kyoto Protocol, Paris Agreement.</p> <p>Unit 4- Geography of Jharkhand: Physiographic divisions, Rivers and drainage systems, Climate, Natural vegetation and soils; Mineral wealth: coal, iron ore, bauxite, uranium, mica; population distribution, density; industrial hubs (Jamshedpur, Bokaro, Dhanbad)</p>		
<p>Reading List:</p> <ol style="list-style-type: none"> 1. Bloom A. L., Geomorphology: A Systematic Analysis of Late Cenozoic Landforms, Prentice 2. Bose A., India's Urbanization 1947-2000, Tata Mcgraw Hill, New Delhi. 3. Hall of India, New Delhi. 4. Husain, Majid, Evolution of Geographical Thought, Rawat Publication, Delhi. 5. Lal, D. S., Jalvayu Vigyan, Prayag Pustak Bhavan, Allahabad. 6. Maurya, S. D., Bhaugolik Chintan Ka Itihas, Pravalika Publications, Allahabad. 7. Maurya, S. D., Population Geography, Prawalika Publication, Allahabad. 8. Singh, S., Bhautik Bhugol ka Swaroop, Prayag Pustak, Allahabad. 9. Singh, S., Jalvayu Vigyan, Prayag Pustak Bhawan, Allahabad 10. Singh, Savindra, Pryawaran Bhugol, (2004), Prawalika Publication, Allahabad 11. Vatal, M., Bhautik Bhugol, Central Book Depot, Allahabad. 		