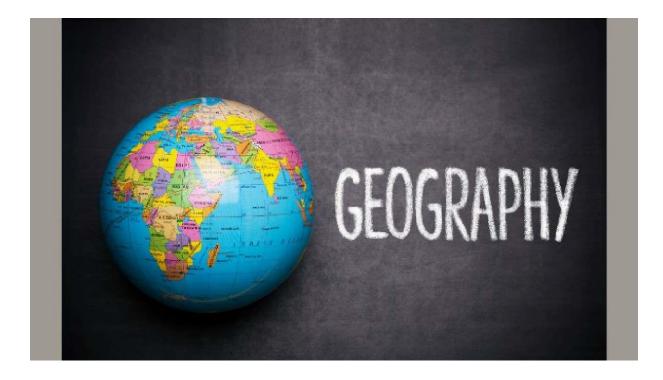
PROGRAMME PROJECT REPORT

Master's in Geography Programme

(2 Year) (In Accordance with NEP-2020)





School of social Sciences U. P. Rajarshi Tandon Open University, Prayagraj

211021

Content

1.Master's Degree Programme	1
2M.A. GEOGRAPHY	
2.1Programme's mission and objectives	
2.2Relevance of the program with Mission and Goals	
2.3Nature of prospective target group of learners	
2.4Appropriateness of Programme to be conducted in ODL mode to acquire specific skill & competence	s
2.5Instructional Design	
2.6Instructional Delivery Mechanism	
2.7Procedure for admissions, curriculum transaction and evaluation	
2.8Requirement Library Resources	
2.9Cost estimate of the programme and the provisions	
2.10Quality assurance mechanism and expected programme outcomes	
APPENDIX-I: Detailed Programme structure & syllabus	
APPENDIX-II: Guidelines for Research Project/Dissertation	

Master's Degree Programme

The National Education Policy (NEP) 2020 envisions a new vision that enable an individual to study one or more specialized areas of interest at a deep level, and also develop capabilities across a range of disciplines including sciences, social sciences, arts, humanities, languages, as well as professional, technical, and vocational subjects. The NEP 2020 focuses on the formulation of expected learning outcomes for all higher education programmes. It states that "National Higher Education Qualifications Framework (NHEQF)" shall be align with the National Skills Qualifications Framework (NSQF) to ease the integration of vocational education into higher education. It also points out that higher education qualifications leading to a degree/diploma/certificate shall be described by the NHEQF in terms of Outcome Based Education (OBE).

The design of M.A. geography programme in line with NHEQF offers opportunities and avenues to learn core subjects but also to explore additional avenues of learning beyond the core subjects for holistic development of a learner.

The uniform grading system will also enable potential employers in assessing the performance of the learner. In order to bring uniformity in evaluation system and computation of the Cumulative Grade Point Average (CGPA) based on learner's performance in examinations, guidelines framed by the UGC are followed. Hence, adoption of NHEQF helps to overcome the gap between university degree and employability by introducing skills and competencies in the graduates.

M.A.-Geography Programme

The structure and duration of postgraduate programme of Master's in Geography in accordance with NEP 2020 includes multiple exit options within this period, with appropriate certifications:

• Level 8: a **Bachelor' Degree (Research)** for 4 year programme after completing 4th year of 4year B.A. programme **OR PG Diploma in Geography** after completing 1st year (2 semesters) of study of M.A. programme.

• Level 9: a Master in Arts (GEOGRAPHY) programme after 2 years (4 semesters) of study;

Programme Mission & Objectives

In line with the mission of the University to provide flexible learning opportunities to all, particularly to those who could not join regular colleges or universities owing to social, economic and other constraints, the 2-year Post-Graduate Programme in Geography aims at providing holistic and value based knowledge and guidance to promote scientific temper in everyday life. The program offers a platform to the learners to fulfill the eligible criteria in various scientific jobs in government and private sector.

The Master of GeographyProgramme aims at the following objectives:

• The objective of the program is to prepare the incumbents to take the challenges of research and developments in the fields of social science. The curriculum opens new doors of systematic knowledge of the subject to the Learners having graduation in geography. The two year postgraduate (PG) program is designed to help learners to get employment in research laboratories, teaching positions and corporate sector.

• Provide strong core training so that graduates can adapt easily to changes and new demands from industry.

- Enable Learners to understand not only how to apply certain methods, but when and why they are appropriate.
- Integrate fields within remote sensing, GIS, tourism, mapping, and statistics to create adept and well rounded geographer.

• Expose Learners to real-world problems in the classroom and through experiential learning.

These program objectives acknowledge the interdisciplinarity of geography and the importance of building a strong foundation with our Learners.

Relevance of the Programme with Mission and Goals

The 2-year Post-Graduate Programme in M.A, GEOGRAPHY is designed with the objective of equipping learners to cope with the emerging trends and challenges in the scientific domain. In congruence with goals of the University the Programme also focuses to provide skilled manpower to the society to meet global demands. The Programme is designed in such a manner so that a successful learner can go for higher studies as well as join the industry or can run their own start-ups.

Nature of Prospective Target Group of Learners

The Program is targeted to all individuals looking to earn a postgraduation degree for employment, further higher education, promotion in career, professional development.

Appropriateness of Programme to be conducted in ODL mode to acquire specific skills & competence

	Learning outcomes after Level 8			
Learning	Elements of the	Level 8		
Outcome	descriptor	Bachelor' Degree (Research)		
S		OR		
		PG Diploma in Geography		
LO 1	Knowledge and understanding	 advanced knowledge about a specialized field of enquiry, with depth in one or more fields of learning within a broad multidisciplinary/interdisciplinary context. a coherent understanding of the established methods and techniques of research and enquiry applicable to the Geography. 		
LO 2	Skills required to perform and accomplish tasks	 a range of cognitive and technical skills required for performing and accomplishing complex tasks relating to the Geography, cognitive and technical skills relating to the established research methods and techniques, 		
LO 3	Application of knowledge and skills	 apply the acquired advanced technical and/or theoretical knowledge and a range of cognitive and practical skills to analyses the quantitative and qualitative data gathered drawing on a wide range of sources for identifying problems and issues relating to the Geography , apply advanced knowledge relating to research methods to carryout research and investigations to formulate evidence-based solutions to complex and unpredictable problems. 		

LO 4	Generic learning outcomes	 listen carefully, read texts and research papers analytically and present complex information in a clear and concise manner to different groups/audiences, communicate technical information and explanations, and the findings/results of the research studies relating to specialized fields of learning, present in a concise manner one's views on the relevance and applications of the findings of research and evaluation studies in the context of emerging developments and issues. pursue self-paced and self- directed learning to upgrade knowledge and skills that will help accomplish complex tasks and pursue higher level of education and research. problematize, synthesize and articulate issues and design research proposals, • define problems, formulate appropriate and relevant research questions,
LO 5	Constitutional, humanistic, ethical and moral values	 embrace and practice constitutional, humanistic, ethical, and moral values in one's life. adopt objective, unbiased, and truthful actions in all aspects of work related to the chosen field(s) of learning and professional practice.
LO 6	Employment ready skills, and entrepreneurship skills and mindset	 managing complex technical or professional activities or projects, requiring the exercise of full personal responsibility for output of own work as well as for the outputs of the group as a member of the group/team. exercising supervision in the context of work having unpredictable changes.

	Learning outcomes after Level 9			
Learning Outcomes	Elements of the descriptor	Level 9 (Master's in – <u>Geography</u>)		
LO 1	Knowledge and understanding	 advanced knowledge about a specialized field of enquiry with a critical understanding of the emerging developments and issues relating to one or more fields of learning, advanced knowledge and understanding of the research principles, methods, and techniques applicable to the Geography, procedural knowledge required for performing and accomplishing complex and specialized professional tasks relating to teaching, and research and development. 		
LO 2	Skills required to perform and accomplish tasks	 advanced cognitive and technical skills required for performing and accomplishing complex tasks related to the geography, advanced cognitive and technical skills required for evaluating research findings and designing and conducting relevant research that contributes to the generation of new knowledge, specialized cognitive and technical skills relating to a body of knowledge and practice to analyse and synthesize complex 		

		information and problems.
		- -
LO 3	Application of knowledge and skills	• apply the acquired advanced theoretical and/or technical knowledge about a specialized field of enquiry or professional practice and a range of cognitive and practical skills to identify and analyse problems and issues, including real-life problems, associated with the Geography.
LO 4	Generic learning outcomes	 listen carefully, read texts and research papers analytically and present complex information in a clear and concise manner to different groups/audiences, communicate, in a well-structured manner, technical information and explanations, and the findings/ results of the research studies undertaken in the Geography , meet one's own learning needs relating to the chosen fields of learning, work/vocation, and an area of professional practice, pursue self-paced and self- directed learning to upgrade knowledge and skills, including research-related skills, required to pursue higher level of education and research.
LO 5	Constitutional,	• embrace and practice constitutional, humanistic, ethical and moral
	humanistic, ethical and moral values	 values in one's life, adopt objective and unbiased actions in all aspects of work related to the chosen fields/subfields of study and professional practice, participate in actions to address environmental protection and sustainable development issues,
LO 6	Employment ready skills, and entrepreneurship skills and mindset	 adapting to the future of work and responding to the demands of the fast pace of technological developments and innovations that drive shift in employers' demands for skills, particularly with respect to transition towards more technology-assisted work involving the creation of new forms of work and rapidly changing work and production processes. exercising full personal responsibility for output of own work as well as for group/ team outputs and for managing work that are complex and unpredictable requiring new strategic approaches.

Instructional Design 2.5.1.2-year M.A.- Geography Programme Structure

The University follows the credit system in all its programmes. One credit is equal to 30 hours of learner's study time which is equivalent to 15 lectures in conventional system. To earn a Master's Degree, a learner has to earn 80 credits in minimum four semesters (two years) with 20 credits per semester. For earning 80 credits, a learner has to go through the following Programme Structure:

Level	Year	Sem	Core Course 1	Core Course 2	Core Course 3	Core course 4	Research Methodology/ Dissertation/ viva-voce	Total credit
8	1	1 st	4	4	4	4	4	20
		2nd	4	4	4	4	4	20
9	2	3rd	4	4	4	4	4	20
		4 _{th}	4	4	4	4	4	20
Total c	redit		1	1	1	1		80

Programme Structure of M.A.- GEOGRAPHY under NHEQF

Explanation of terms used for categorization of courses:

Course 1 to 4: A course, which should compulsorily be studied by a learner as a core A. requirement is termed as a Core course.

Research Methodology/Dissertation/Viva-Voce: А course designed acquire Β. to special/advanced knowledge, such as supplement study/support study to a project work, and a learner studies such a course on his own with an advisory support by a counsellor/faculty member.

- 2.5.2 Course curriculum: The details of syllabus is given in Appendix-I
- 2.5.3Language of Instruction: Hindi / English. However, learner can write assignment and give Term End Examination (TEE) either in Hindi or English.

2.5.4 Duration of the Programme

Minimum duration in years: 02 Maximum duration in years: 04

2.5.5 Faculty & Support Staff

Director (1), Associate Professor (1), Assistant Professor (contractual)(4), support staff (2)

Instructional Delivery Mechanisms

The Open University system is more learner-oriented, and the student is an active participant in the teaching-learning process. Most of the instructions are imparted through distance rather than face-to-face communication.

The University follows a multi-media approach for instruction. It comprises of:

- Self-instructional printed material (Self Learning Material)
- Audio and video lectures
- Face-to-face counselling
- Assignments
- Survey/Laboratory work
- Project work in some courses
- Teleconference/web conference
- Web Enabled Academic Support Portal
- e-GYANSANGAM (Open Educational

http://gyansangam.uprtou.ac.in

Repository):

• e-GYANARJAN: Its a Learning Management System based on Moodle (<u>http://gyanarjan.uprtou.ac.in</u>) to aid the learner through web conferencing, sharing of learning resources, counselling classes etc.

2.6.1 Self-Learning Material

The Self Learning Material (SLMs) are prepared in line with the UGC guidelines on preparation of SLMs. The prepared study materials are self-instructional in nature. The course material is divided into units. Lessons, which are called Units, are structured to facilitate self-study. The units of a paper have similar nature of contents. The first page of each paper indicates the numbers and titles of the units. In the first units of each course, we start with course introduction. This is followed by a brief introduction to the paper. First units explains introduction, emphasis is given on contribution of ancient Indian knowledge into that specific course. Next, each unit begins with an introduction to talk about the contents of the unit. This is followed by the main body of the unit, which is divided into various sections and subsections. Each unit is summarized with the main highlights of the contents.

Each unit have several "Check Your Progress" Questions and Terminal Questions /exercises. These questions help the learner to assess his/her understanding of the subject contents. At the end of units, additional references/books/suggested online weblink for MOOCs/Open Educational Resources for additional reading are suggested.

2.6.2 Audio and Video lectures

Apart from SLM, audio and video lectures have been prepared for some courses. The audio video material is supplementary to print material. The video lectures are available at YouTube channel of

university(https://www.youtube.com/channel/UCj2XTEB6iCZwwIqmKw_jzYg).

2.6.3Counselling Classes

The face to face (F2F) counselling classes are conducted at head quarter and study centers. The purpose of such a contact class is to answer some of questions and clarify the doubts of learner which may not be possible through any other means of communication. Well experienced counsellors at study centers provide counselling and guidance to the learner in the courses that (s)he has chosen for study. The counselling sessions for each of the courses will be held at suitable intervals throughout the whole academic session. The time table for counselling classes are displayed at head quarter as well as by the coordinator of study center, however, attending counselling sessions is not compulsory. It is noted that to attend the courselling sessions, learner has to go through the course materials and note down the points to be discussed as it is not a regular class or lectures.

2.6.4Assignments

The purpose of assignments is to test the comprehension of the learning material that learner receives and also help to get through the courses by providing self-feedback to the learner. The course content given in the SLM will be sufficient for answering the assignments. Assignments constitute the continuous evaluation component of a course. The assignments are available at the SLM section of the home page of university website. In any case, learner has to submit assignment before appearing in the examination for any course. The assignments of a course carry 30% weightage while 70% weightage is given to the term end examination (TEE). The marks obtained by learner in the assignments will be counted in the

final result. Therefore, It is advised to take assignments seriously. However, there will be no written assignments for Lab courses.

2.6.5 Survey Work

Survey work are an integral component of the M.A. programme. While designing the curricula for survey courses, particular care has been taken to weed out experiments not significant to the present-day state of the discipline. Importance has been given to the utility of geographical study with respect to real life and experience, development of observational skill, social attitude , experimental skills, and other applications. It is planned to phase the survey work / courses during suitable periods (such as summer or autumn vacations) so that in-service persons can take them without difficulty. Survey courses have 4 credits. Learners will do survey of related village and prepare report under guidance of faculties in there study centre. viewing or listening to the video/audio programmes.

2.6.6Teleconference/Web conference

Teleconference/web conference, using done through ZOOM/ webex in form of online special counselling sessions is another medium to impart instruction to and facilitate learning for a distance learner. The Learners concerned would be informed about the teleconferencing schedule and the place where it is to be conducted by sending bulk SMS.

2.6.7Web Enabled Academic Support Portal

The University also provide Web Enabled Academic Support Portal to access the course materials, assignments, and other learning resources.

2.6.8e-GYANSANGAM

The e-GYAMSANGAM (UPRTOU-OER REPOSITORY) is an open access platform for educational resources that rely on the concept of 5Rs namely; Reuse, Revise, Remix, Retain and Redistribute. Uttar Pradesh Rajarshi Tandon Open University in support with Commonwealth Educational Media Centre for Asia initiated the implementation of philosophy behind the NEP-2020 to provide equitable use of technology to support learners (SDG4). This not only ensure inclusive and equitable quality education opportunities but also provide faculty to repurpose high quality open educational resources (OER) such that innovative, interactive and collaborative learning environment is built. UPRTOU believes the philosophy of Antyoday (reaching to last person of the society) and facilitate the learner by providing Self Learning Materials, Lecture Notes, Audio/video Lectures, Assignments, Course materials etc. through face-to-face mode as well as distance mode. This E-GYANSANGAM depository will fulfill the educational facilities through equitable use of technology to the learners.

Objectives

• To provide low-cost access model for learners. To foster the policy of reaching to unreached.

• To break down barriers of affordability and accessibility of educational resources.

- To give faculty the ability to customize course materials for learners.
- To provide equal access to affordable technical, vocational and higher education resources (SDG 4.3).

• To provide ubiquitous access to anyone. This will facilitate the quick availability of educational resources and reduces time.

- To supplement Self Learning Material (SLM).
- To reduce the mentor-mentee gap as depository provide access to number of local access as well as global access to educational resources.

2.6.9e-GYANARJAN: It's a Learning Management System based on Moodle (<u>http://gyanarjan.uprtou.ac.in</u>) to aid the learner through web conferencing, sharing of learning resources, counselling classes etc.

2.6.10Learner Support Service Systems

(a)Study Centre

A Study Centre has following major functions:

(i) **Counselling:** Counselling is an important aspect of Open University System. Face to face contact-cum-counselling classes for the courses will be provided at the Study Centre. The detailed programme of the contact-cumcounselling sessions will be sent to the learner by the Coordinator of the Study Centre. In these sessions learner will get an opportunity to discuss with the Counsellors his/her problems pertaining to the courses of study.

(ii) **Evaluation of Assignments:** The evaluation of Tutor Marked Assignments (TMA) will be done by the Counsellors at the Study Centre. The evaluated assignments will be returned to the learner by the Coordinator of Study Centre with tutor comments and marks obtained in TMAs. These comments will help the learner in his/her studies.

(iii) **Library:** Every Study Centre will have a library having relevant course materials, reference books suggested for supplementary reading prepared for the course(s).

(iv) **Information and Advice:** The learner will be given relevant information about the courses offered by the University. Facilities are also provided to give him/her guidance in choosing courses.

(v) **Interaction with fellow-Learners:** In the Study Centre learner will have an opportunity to interact with fellow Learners. This may lead to the formation of self-help groups.

(b)Learner Support Services (LSS)

The University has formed an LSS cell at the head quarter. The LSS cell coordinate with the Study Centre to get rid of any problem faced by the learner.

Procedure for admissions, curriculum transaction and evaluation

2.7.1 Admission Procedure

(a) The detailed information regarding admission will be given on the UPRTOU website <u>www.uprtou</u>.ac.in) and on the admission portal. Learners seeking admission shall apply online.

(b) Direct admission to 2-year M.A. (Geography) program is offered to the interested candidates.

(c) Eligibility: Bachelor degree in any discipline

2.7.2Programme Fee: Rs. 8500 / year. The fee is deposited through online admission portal only.

2.7.3 Evaluation

The evaluation consists of two components: (1) continuous evaluation through assignments, and (2) term-end examination. Learner must pass both in continuous evaluation as well as in the term-end examination of a course to earn the credits assigned

to that course. For each course there shall be one written Terminal Examination. The evaluation of every course shall be in two parts that is 30% internal weightage through assignments and 70% external weightage through terminal exams.

(a)	Theory course		Max	. Mark	s	Tern	ninal
	Examination			70			
	Assignment			30			
	Total		100				
	(b) Viva	-voce	course:	Max.	Marks	viva	voce
	Examination	100 at	(only regional c	entre)			
	(c) Resea	rch Me	ethodology/Diss	ertatio	n- 100		

The following 10-Point Grading System for evaluating learners' achievement is used for CBCS programmes:

Letter Grade	Grade Point	% Range
O (Outstanding)	10	91-100
A+ (Excellent)	9	81-90
A (Very Good)	8	71-80
B+ (Good)	7	61-70
B (Above Average)	6	51-60
C (Average)	5	41-50
P (Pass)	4	36-40
NC (Not Completed)	0	0-35
Ab (Absent)	0	
Q	Qualified	Applicable only for Non-Credit
NQ	Not Qualified	courses

10-Point Grading System in the light of UGC-CBCS Guidelines

Learner is required to score at least a 'P' grade (36% marks) in both the continuous evaluation (assignments) as well as the term-end examination. In the overall computation also, learner must get at least a 'P' grade in each course to be eligible for the M. A. degree.

Computation of CGPA and SGPA

(a) Following formula shall be used for calculation of CGPA and SGPA

For jth semester SGPA (Sj) = Σ (Ci *Gi)/ Σ Ci	where, Ci = number of credits of the ith course in jth semester Gi= grade point scored by the learner in the ith
$CGPA = \Sigma (Cj *Sj) / \Sigma Cj$	course in jth semester. where, Sj = SGPA of the jth semester Cj = total number of credits in the jth semester

The CGPA and CGPA shall be rounded off up to the two decimal points. (For e.g., if a learner obtained 7.2345, then it will be written as 7.23 or if s(he) obtained 7.23675 then it be will written as 7.24)

CGPA will be converted into percentage according to the following formula: Equivalent Percentage = CGPA * 9.5

(b) Award of Division

The learner will be awarded division according to the following table:

Division	Classification
1 st Division	6.31 or more and less than 10 CGPA
2 nd Division	4.73 or more and less than 6.31 CGPA
3 rd Division	3.78 or more and less than 4.73 CGPA

2.7.4 Multiple Entry and Multiple Exit options

The 2-year M.A. programme is an Outcome-Based Education (OBE) for qualifications of different types. The qualification types and examples of title/nomenclature for qualifications within each type are indicated in Table 1.

	Table 1							
Level	Qualification title	Programme duration	Entry Option	Exit option				
8	B.Sc. / B.A. (Research) OR PG Diploma in Geography	,	Bachelor degree in concerned subject B.Sc. / B.A. with Geography as one of the subject) or Graduate in any discipline.	Degree (Research) for 4 year programme OR				
9	Master in (Geography)	Programme duration: First two years (four semesters) of the of the M.A. programme	PG Diploma in	Exit awarded with Master's in (Geography)				

. Viva-voce

The viva voce terminal exam are held in the regional Centre. viva-voce is based on the syllabus.

Cost estimate of the programme and the provisions

2-year MA. programme consists of 16 theory courses, 2 viva- voce,1 village report, 1 research projects / dissertation. One course/ paper is of 4 credits which consists of approx. 15/16 units. The total approximated expenditure on the development of 16 courses is:

S.	Item	Cost per	Unit	Total	cost
No.		(writing	&	(Rs.)	
		editing)			
1	Total no. of units in 16 courses =	4500		252*4500=	=
	12*16=192 + 4*15=60 TOTAL = 252 units			1134000	
2	BOS Meetings etc.	100000		100000	
			Total	1234000	

Quality assurance mechanism and expected programme outcomes

(a) **Quality assurance mechanism:** The program structure is developed under the guidance of the Board of studies comprising external expert members of the concerned subjects followed by the School board. The program structure and syllabus is approved by the Academic Council of the University. The course structure and syllabus is reviewed time to time according to the feedback received from the stakeholders and societal needs.

The Centre for Internal Quality Assurance will monitor, improve and enhance effectiveness of the program through the following:

Annual academic audit

Feedback analysis for quality improvement

Regular faculty development programs

Standardization of learning resources

Periodic revision of program depending upon the changing trends by communicating to the concerned school

(-)	I I I I	
Knowledge and understanding	PO1	Demonstrate a fundamental/coherent understanding of the academic in all disciplines of Geography, its different learning areas and applications, and its linkages with related disciplinary areas/subjects
Skills related to specialization	PO 2	Employ critical thinking and the scientific knowledge to design, carry out, record and analyze the results of Geography experiments
Application of knowledge	Identify and apply appropriate principles and methodologies to solve different types of problems with well-defined solutions.	
and skills	PO 4	Equip Learners to face the employment challenges and instil confidence to turn into entrepreneur and also step into research career.
Generic learning	PO 5	Generation of new scientific insights or to the innovation of new applications of chemical research
outcomes	PO 6	The Learners will improve their competencies on par with their counterparts in premier institutions across the nation.

(b) Expected programme outcomes (POs)

U.P. Rajarshi Tandon Open University, Prayagraj

Detailed Programme Structure and Syllabus

Proposed Course Structure

Appendix-I

M.A. Programme Subject Name : Geography

Year	Sem.	Course Code	Title of Course	Credits	Max. Marks (70+30)
1 st		MAGO-101	GEOMORPHOLOGY	4	100
Year		MAGO-102	GEOGRAPHY OF INDIA	4	100
	1 st	MAGO-103	FUNDAMENTAL OF ECONOMIC GEOGRAPHY	4	100
	Sem.	MAGO-104	AGRICULTURAL GEOGRAPHY	4	100
		MAGO-105	RESEARCH METHODOLOGY	4	100
	Credit of	f 1 st Semester		20	
		MAGO-106	GEOGRAPHY OF RESOURCES	4	100
		MAGO-107	CLIMATOLOGY	4	100
	2 nd	MAGO-108	OCEANOGRAPHY	4	100
	Sem.	MAGO-109	SETTLEMENT GEOGRAPHY	4	100
		MAGO-110	DISSERTATION	4	100
	Credit of	2 st Semester		20	
2 nd	3 rd	MAGO-111	GEOGRAPHY OF POPULATION	4	100
Year	Sem.	MAGO-112	FOUNDATIONS OF GEOGRAPHICAL THOUGHT	4	100
		MAGO-113	ENVIRONMENT MANAGEMENT AND ECO- DEVELOPMENT	4	100
		MAGO-114	DISASTER MANAGEMENT	4	100
		MAGO-115	DISSERTATION	4	100
	Credit of	f 3 rd Semester		20	
	4th	MAGO-116	CARTOGRAPHY AND STATISTICAL METHODS	4	100
		MAGO-117	TRANSPORT GEOGRAPHY	4	100
		MAGO-118	POLITICAL GEOGRAPHY	4	100
		MAGO-119	MODEALS, THEORY AND LAW IN HUMAN GEOGRAPHY	4	100
		MAGO-120	VIVA- VOCE	4	100
Credit of	4 th Semest	ter	20		
Total Cr	edits = 4	0+40 = 80 (Yea	r 1+2)	80	
Total M	arks = 10	00+1000 = 200	00 (Year 1+2)		2000

Course prerequisites: Bachelo	r degree in any su	bject OR Any 4 year	Graduate Degree	
Programme : MAGO	Year: 1		Semester: 1	
Subject: Geography				
Course Code: MAGO-101N Course Title: Geomorphology				
Course Objectives:				
			onnected to people's sense of	
belonging to the physica	l environment, land	scape and culture.		
2. Learners will understand	d the fundamental	concepts of spatial in	nteraction and diffusion, which	
explain how human activ	vities are influenced	by the concept of dis	stance.	
3. Learners will be exposed	d to the nature of	ohysical systems sucl	h as geomorphologic processes	
and natural hazards.				
4. Learners will be able to	read and interpret	information on diffe	erent types of physical features	
maps.				
5. Learners will learn how h	numan, physical and	environmental com	ponents of the world interact.	
		·		
Course Outcomos				
Course Outcomes: CO1-Describing human-environr	ment, and nature-sc	ciety interactions as	well as global human and	
environmental issues.		,		
	, .			
CO2-Identifying and explaining t	he planet's human a	and physical characte	ristics and processes, from	
global to local scales.				
CO3-Evaluating the impacts of h				
CO4-Applying knowledge of glob	oal issues to local cir	cumstances to evalua	ate the local effects of the	
issues.				
CO5-Showing an awareness and	responsibility for th	e environment.		
Credits: 4		Type of Course: Cor	re	
Category of Course Value-added / employability				
Max. Marks: 100	Min. Passing Mar		<u></u> //	
	Syllabi framed blog			
Unit- 01Definition and Scope of				
Unit - 02Structure of the Earth's Interior, Theories of Origin of Continents and Oceans				
Unit – 03 Forces Affecting the Earth's Crust.				
<u> </u>				

- Unit 04 Earthquake and Volcano, Volcanicity and Landscapes.
- Unit 05 Rocks and their Classification.
- Unit 06 Theory of Plate Tectonics
- Unit 07 Theories of Mountain Building.
- Unit 08 Weathering and Erosion.
- Unit 09 Penk and Davis Erosion Cycle
- Unit 10 Drainage System and Drainage Pattern.
- Unit 11 Fluvial Geomorphology and Karst Geomorphology.
- Unit 12 Costal Geomorphology
- **Unit 13**Arid Geomorphology and Glacial Geomorphology.
- Unit 14 Regional Geomorphology- Kumaun Himalaya, Ganga Plain, Chota Nagpur Plateau
- Unit 15 Slope Analysis Classification of Slope, Models of Slope Development.
- **Unit 16** Applied Geomorphology, Anthropogenic Geomorphology

Suggested Text Book Readings:

- 1. 1. Singh, Jagdish & Singh K.N. : Physical Geography, Gyanodya Publication, Gorakhpur.
- 2. Thornbury, W.D. : Principles of Geomorphology, New Age International (p) Ltd., New Delhi.
- 3. Singh, Savindra : Geomorphology, Prayag Pustak Bhawan, Allahabad.
- 4. Bloom. A.L. : Geomorphology, Prentice Hall, New Jersery, USA.
- 5. King, C.A.M : Techniques in Geomorphology, Edward Arnold, London.
- 6. Kale, V.S. and Gupta, A. : Introduction to Geomorphology, Orient Longman, Hyderabad.
- 7. Dayal, P.: Geomorphology, Patna

This course can be opted as an elective by the Learners of following subjects: N.A.

Suggested equivalent online courses (MOOCs) for credit transfer: N.A.

Course prerequisites: Bache	elor degree in any s	ubject OR Any 4 yea	ar Graduate Degree		
Programme: MAGO	Year: 1		Semester: 1		
	Subject: G	eography			
Course Code: MAGO-102N Course Title:GEOGRAPHY OF INDIA					
Course Objectives:					
1. Learners will get an i	1. Learners will get an introduction to the main regions of the India in terms of both their				
uniqueness and similar	ities.				
2. Learners will be expos	ed to historical, ecor	nomic, cultural, socia	l and physical characteristics of		
India.					
3. Learners will learn the	relationships betwee	en the global, the reg	gional and the local, particularly		
how places are inserted	d in regional and glob	al processes.			
4. In addition to the ability	y of understanding a	and reading maps, Le	arners will develop cartography		
skills and will be able to	o create maps on the	ir own.			
5. Learners will be introd	luced to demograph	ic, social and cultura	al attributes such as migration,		
social relations and cul	tural identity.				
Course Outcomes:					
CO1: Identifying and explaining	the Indian Geograph	nical Environment, fro	om global to local scales.		
CO2: Applying geographical kn					
CO3: Applying knowledge of gl		•			
CO4: Showing an awareness ar					
CO5: Evaluating the impacts of	human activities on	natural environments	s special reference to India.		
Credits: 4		Type of Course: Co	re		
		//			
Category of Course		Employability			
Max. Marks: 100	Min. Passing Mar	ks: 36			
	(Syllab framed bloo	ck wise/unit wise)			
Unit – 1 Geological Structure,		nage System			
Unit – 2Concept and Origin of Monsoon					
Unit – 3 Climatic Regions, El Nino, La-Nina					
Unit – 4 Soils: Types and Distribution, Types of Vegetation					
Unit – 5 Irrigation, Multi-Purpose Projects, Watershed Management					
Unit – 6 Agriculture and Agric		-			
Unit – 7 Green Revolution in I					
Unit – 8 Environmental Agricu		n India, Agriculture Po	סווכץ סד וחמום		
Unit – 9 Mineral Resources, Iro Unit – 10 Energy Resources – P					
	en neum Natural (12	17			

Unit – 11 Atomic Energy, Conservation of Energy, Green Energy

Unit – 12 Industry– Iron-Steel, Textile Industries, Sugar Industry, Industrial Regions

Unit – 13 Population Growth and Distribution, Population Structure- Age, Sexual

Unit – 14 Population Policy, Urbanization, Problem and Solutions of Urbanization

Unit – 15 Population and Environment,

Unit – 16 Settlements – Urban and Rural, Pattern, Modes of Transportation

Suggested Text Book Readings:

- 1. Singh, J. : India : A Comprehensive Geography, GyanodayaPrakashan, Gorakhpur
- 2. Tiwari, R.C.: Geography of India, Pravalika Publication, Allhabad.
- 3. Singh, R.L. : India : A Regional Geography, NGSI, Varanasi
- 4. Gautam, Alka: Geography of India, Sharda Pustak Bhawan, Allahabad
- 5. Khullar, D.R. : India : A Comprehensive Geography, Kalyani Pub., New Delhi

This course can be opted as an elective by the Learners of following subjects: NA

Suggested equivalent online courses (MOOCs) for credit transfer: NA

Course prerequisites: Bachelo	or degree in any su	bject OR Any 4 year	r Graduate Degree	
Programme: MAGO	Year: 1		Semester: 1	
Subject: Geography				
Course Code: <i>MAGOE-103N</i> Course Title: FUNDAMENTAL OF ECONOMIC GEOGRAPHY				
	uction to the ways	in which economic a	ctivities are organized over the	
	-		are depending on the complex	
economic-political-social int	eractions that are fr	amed at the global le	evel.	
3. The course explores the pr	ocesses of globaliza	tion and seeks to pr	ovide understanding of today's	
increasingly interdependent	world.			
4. Learners will be familiar	ized with econom	nic processes such	as globalization, trade and	
transportation and their im	bacts on economic, o	cultural and social act	ivities.	
5. Learners will learn about tl	ne variety of politic	al systems and natio	n states which administratively	
subdivide the regions of the	world.			
6. How human activities are re	gulated and under	the jurisdiction of a v	ariety of geographical units and	
how these relations shape t	he economic and so	cial space are of parti	icular relevance.	
7. Learners will be exposed to	the nature of phys	ical systems such as	geomorphologic processes and	
natural hazards.				
Course Outcomes:				
CO1: Learners would be able to	understand how in	an increasingly global	lized world, economic activities	
occur unevenly over geographic	al space; how local p	places and global eco	nomy are intertwined, and how	
the regime of neoliberal policies	are generating une	ven geography of cap	italist development.	
CO2: Learners will be introduce	d to demographic, s	ocial and cultural attr	ibutes such as migration, social	
relations and cultural identity. T	he main objective is	to underline that hu	man activities are subject to	
adaptation and change.				
CO3: student will able to write to fundamental input for planners and policy makers for regional development.				
Credits: 4		Type of Course: Co	re	

Category of Course	value-added / employability				
Max. Marks: 100	Min. Passing Marks: 36				
(Syllabi framed block wise/unit wise)					
Unit – 1 Concept of Economic G	Geography, Scope, Fundamental Concepts, Development and Changing				
Definition of Economic Geograph	ηγ				
 Unit – 2 Approaches to study, S Globalization. Unit – 3 Characteristics of Mine Iron Ore in World Level, Bauxite, Unite –5 Energy and Power Resc Conditions of Energy, Petroleum Unit – 6 Natural Gas – Adequacy Unit – 7 Hydroelectric Power – I Unit – 8 Renewable Energy Sour Forecasting and Conservation. Unit – 9 Theory of Agricultural Le Unit – 10 Agricultural Regions, D Development. Unit – 11 Agricultural Regions of Unit – 12 Agricultural Regions of Unit – 13 Goods Manufacturing Industries. Unit – 14 Theories of Industrial Competition Theory, Integrated Unit – 15 Relative Importance of Localization of Capital and Industrial Regions of U.S.A., Industrial Regions 	Study methods, Relation of Economic Geography to Economics, eral Resources, Conditions and Factor Affecting Excavation. Unit – 4 Reserves of Tin, Production, Distribution and Trade. ources in The World- Various forms of Energy, Current Status and , World Reserves, Regional Distribution and Trade y and Reserves, Coal Reserves, Production , Distribution Natural Conditions, Distribution Pattern of Production at the World Level. rce- Solar Energy, Geothermal Energy, Global Energy Crisis , Energy ocation – Von Thunen's Theory, Modern Theory efinition, Bases Element of Delimiting, Causes of Origin and f the World, Demarcation and Characteristics of Agricultural Regions. of U.S.A., Agricultural Regions of China and the Latest Scientific Industry, Small-scale Industry, Large-scale Industry, Localization of Location - Theory of Weber, Sophistication in Weber Theory, Market Theory. f Different Elements of Localization – Market, Power, Labour, stry. ne World - Industrial Regions of the European Community, Industrial ons of Japan.				
2. Alexander, J.W. : Econo	ArthicBhoogolkeMoolTatva, yanodayaPrakashan, Gorakhpur. mic Geography, Prentice Hall of India, New Delhi.				
3. Maurya, S.D. : ArthicBhoogol, Pravalika Publications, Allahabad.					

- **4.** Gautam, A. :ArtkikBhoogolkeMoolTatva, Sharda Pustak Bhawan, Praygraj.
- 5. Long, G.C. and Morgan, G.C.: Human and Economic Geography, Oxford University Press, Hong Kong.

This course can be opted as an elective by the Learners of following subjects: N.A.

Suggested equivalent online courses (MOOCs) for credit transfer: N.A.

Course prerequisites: Bachelo	r degree in any su	bject OR Any 4 year	Graduate Degree		
Programme: MAGO	Year: 1		Semester: 1		
	Subject: Geography				
Course Code: MNGO-104 N	Course Code: MNGO-104 N Course Title: Agriculture Geography				
 Course Objectives: Students correlate activity of agriculture and its determinants. Classify various types of agriculture in the world and differentiate. Discuss the problems and prospects of agriculture. Acquire new methods, techniques and trends used in agriculture. Understand the concept of sustainable agricultural development. Course Outcomes: CO 1: Understand about the introduction to agriculture, nature, scope, significance and development of agriculture geography, study approaches applied in agriculture. 					
CO 2: understand the influence of CO 3: Understand the agriculture classification of agricultural mod	regionalization and	modes in agriculture	č 1		
Credits: 4		Type of Course: Cor	re		
Category of Course		value-added / em	ployability		
Max. Marks: 100	Min. Passing Marl	ks: 36			
		d block wise/unit wis	se)		
 Unit – 1 Introduction of Agricu Unit – 2 Origin and Developm Unit – 3 Natural Factors Affec Unit – 4 Human Factors Affec Unit – 5 Agricultural Land Use Unit – 6 Theories of Localizati Unit – 7 Agricultural Regional Unit – 8 New Dimensions of A Unit – 9 Land Use Planning an Unit – 10 SustainableAgricultu Unit – 11 Agro-climatic Region Unit – 13 Agricultural Regions Unit – 14 Agricultural Regions Unit – 15 Agricultural Develop Unit – 16 Population and Agriculture 	ent of Agricultural (ting Agriculture ting Agriculture e : Concept and Met on of Agriculture isation and Agricult agricultural Develop ad Balanced Agricul and Development nal Planning se Survey Methods s of Major Countries s of India pment and Five Year culture, Food Securi	hodology ural Regions ment tural Development s of the World – U.S.4 r Plan of India	A., China, Japan		

Suggested Text Book Readings:

1Tiwari, R.C. & Singh, B.N.: Krishi Bhoogol, Pravalika Publication, Prayagraj.

- 1. Singh, Jasbir : Agricultural Geography, Tata Mc Graw, New Delhi.
- 2. Gautam, A. : Krishi Bhoogol, Sharda Pustak Bhawan, Praygraj.
- 3. Singh, B.B. : Krishi Bhoogol, Gorakhpur

Note:- This course can be opted as an elective by the Learners of following subjects: NA Suggested equivalent online courses (MOOCs) for credit transfer: NA

Programme: I	MAGO	Year: 1		Semester: 1
Subject: Geog	raphy			
Course Code:	MAGO-105N	Course Title: Res	search Methodol	ogy
Course Object	tives:			
methodologic	al rigour and discip	lined objectivity. It is	s designed specifi	inquiry and critical thinking through cally to prepare students for furthen ciety as informed citizenry.
Course Outco	mes:			
				erstanding of tools and techniques and
-		cupies major share of		m with cutting edge in tracking NET
Credits: 4	where methodology o	couples major share of	Type of Course: 0	-
	Course (Please mer have more than one		Awareness/ life employability/ development/M	skills / soft skills/ value- added / entrepreneurship/ skill OOCs or OER
Max. Marks: 1			Min. Passing Ma	rks: 36
(Syllat खण्ड—1		block wise/unit wise;		-
		आवश्यकता, समस्य	c	าเรงารา
इकाई—1	शोध का अर्थ,	प्रकार एवं आवश्यक	ता	
इकाई—2	शोध समस्या क	जी प्रकृति एवं चयन		
इकाई—3	शोध परिकल्पन	Т		
इकाई–4	शोध प्रतिचयन			
खण्ड–2	शोध विधियाँ			
इकाई–5	ऐतिहासिक शोध	म		
इकाई–6	वर्णनात्मक शोध	T		
इकाई—7	प्रयोगात्मक शोध	म		
इकाई–8	गुणात्मक शोध			
खण्ड—3	आँकड़े संग्रह व	नि तकनीक		
इकाई–9	परीक्षण प्रश्नाव	-		

इकाई—10	मापनी विधियाँ			
इकाई—11	केस अध्ययन विधि			
इकाई—12	समाजमितीय विधि			
खण्ड—4	सांख्यिकीय प्राविधियाँ			
इकाई—13	केन्द्रीय प्रक्षेपण की मापें एवं सह—सम्बन्धात्मक गुणक			
इकाई—14	सांख्यिकीय अनुमान का आधार			
इकाई—15	टी–परीक्षण तथा प्रसरण विश्लेषण			
इकाई—16	नॉन पैरामैट्रिक सांख्यिकी—(Y2 Md Test, KS Test, KHi Test, मान विटनी, यू–टेस्ट)			
Suggested Text	: Book Readings:			
Goode, Willia	am and Hatt, Methods in Social Research, 1952			
	Social Research, 1993, P. Sprdley, Participant Observation, 1980			
	d L H Loffland, Analyzing Social Setting, 1995			
	be opted as an elective by the students of following subjects:			
	ivalent online courses (MOOCs) for credit transfer:			
	Electronic media and other digital components in the curriculum:			
Choose any one or more than: (Electronic Media: Audio/Video Lectures, Online Counseling/Virtual				
	ntents/e-SLM/OER/supplementary links for reference/ Video Conferencing/Radio			
Name of elect	eb Conferencing/ Other electronic anddigital contents)			
	tronic media Year of incorporation Year of electronic media and other digital components in thecurriculum time to time and shall be updated in website			
also				

Course prerequisites: Bachel	or degree in any s	ubject OR Any 4 yea	ar Graduate Degree	
Programme: MAGO	rogramme: MAGO Year: 1 Semester: 2			
Subject: Geography				
Course Code: MAGO-106N	C	ourse Title:Geograph	ny of Resources	
Course Objectives:				
• It is an introductory cou	rse of resource geog	graphy which is aime	d at providing knowledge about	
the concepts of resourc	es, classification, n	nodels of natural res	source processes, their use and	
misuse, conservation and	l management of res	ources for sustainable	e development.	
• Which is aimed at provid	ling knowledge about	ut the concepts of reso	ources?	
• It's also give knowledge	about natural resour	ce processes.		
Conservation and manag	gement of resources t	for sustainable develo	opment.	
• Learners will be able to	read and interpret	information on diffe	erent types of physical features	
maps.				
_				
Course Outcomes:				
CO1: Learners will become sens	itized to concept of	resources.		
CO2 Learners will become sensi	tized the classification	on of resources.		
CO3: Learn about use and misus	e of resources.			
CO4: Will learn conservation me	ethods and technique	ès.		
CO5: Showing an awareness and	l responsibility for th	ne environment: Able	e to understanding of Unifying	
Principles				
Credits: 4 Type of Course: Core				
Category of Course value-added / employability				
Max. Marks: 100 Min. Passing Marks: 36				
	(Syllabi framed blo	ck wise/unit wise)		

Unit – 1 Meaning, Definition and Concept of Resource

Unit – 2 Steps in Resource Development, Dynamic Relationship between Resources and Culture

Unit – 3 Nature and Evolution of Resource Geography, Approaches to Geography of Resources

Unit - 4 Classification of Resources : Natural Resources, Human Resources

Unit – 5 Principle of Resource Adequacy, Hypothesis of Resource Scarcity, The Limits of Growth

Unit - 6 Resources Ecosystems, Resources Conservation- Concept, Conservation Law

Unit – 7 Soil Resources – Classification, Distribution, General Principles of Conservation, Soil Conservation in India

Unit – 8 Biological Resources : Classification of Natural Vegetation, Distribution, Pulp and Paper Industry

Unit – 9 Mineral Resources- Iron Ore, Coal, Bauxite, Petroleum

Unit - 10 Deforestation, Biodiversity, Forest Conservation in India

Unit - 11 Water Resources - Water Availability and Uses Worldwide, Human Use of Water

Unit – 12 Fish Production and Distribution from Sea Water, Water Conservation

Unit – 13 Population Growth and Distribution in the World, Theories related to Population Growth.

Unit – 14 Population Resource Relationship, Over Population, Optimum Population

Unit – 15 Energy Crisis in the World and Alternative Energy Sources

Unit – 16 Resource Regions of the World – Delimitation, Anglo America, Temperate European, African-Asian Arid Region, Latin America, Monsoon Asia

Suggested Text Book Readings:

- 1. Singh, J. :SansadhanBhoogol, GyanodayaPrakashan, Gorakhpur.
- 2. Zimmermann, E.W. : Introduction to World Resources, Harper & Row, New York.
- 3. Simmans, I.G. : The Ecology of Natural Resources, Edward Arnold, London.
- 4. Smith, G.H. (ed.): Conservation of Natural Resources, John Wiley, New York.

This course can be opted as an elective by the Learners of following subjects: N.A.

Suggested equivalent online courses (MOOCs) for credit transfer: N.A.

Course prerequisites: Bachelor degree in any subject OR Any 4 year Graduate Degree				
Programme: MAGO	Year: 1	Semester: 2		
	Subject: Ge	• • •		
Course Code: MAGO-107N		Course Title: Climatology		
Course Objectives:	• . • . •			
-		he Learners the fundamentals of atmospheric phenomena,		
global climate systems and clim	late change.			
• The atmosphere and climate a	re a critical part of th	ne earth system, and climatic variability and change are		
central to the issue of current an	d future global environ	nmental change.		
• To grasp the techniques for mod	lelling the climate, cov	vering both theoretical and technical aspects.		
• To understand the dynamics of	the atmosphere, the oc	ean and the overall climatologically system.		
• To be able to analyze and interp	oret climatic data.			
Course Outcomes: CO1: Understand the physical basis	of the natural greenho	use effect, including the meaning of the term radioactive		
forcing.				
CO2: Know something of the way v	arious human activitie	s are increasing emissions of the natural greenhouse gases,		
and are also contributing to sulphate	aerosols in the tropos	phere.		
CO3: Demonstrate an awareness of	the difficulties involve	d in the detection of any unusual global warming signal"		
above the background noise of natur	al variability in the Ea	rth's climate and of attributing (in whole or in part) any		
such signal to human activity.				
CO4: Understand that although a gro	owing scientific conser	nsus has become established through the IPCC, the		
complexities and uncertainties of the	e science provide oppo	rtunity for climate sceptics to challenge the Panel's		
findings.				
CO5: On successful completion of the	his course, Learners sh	ould be able to understand the mean global atmospheric		
circulations and disturbances, world climate systems, climatic variability and change.				
Credits: 4 Type of Course: Core				
Category of Course		value-added / employability		
Max. Marks: 100	Min. Passing Marks:	36		
(Syllabi framed block wise/unit wise)				

Unit – 1 Meaning, Definition, Scope and Development of Climatology

Unit – 2 Composition and Structure of Atmosphere

Unit – 3 Insolation, Distribution of Insolation and factors affecting it

Unit – 4 Temperature - Distribution of Temperature and factors affecting it, Inversion of Temperature **Unit – 5** Atmospheric Pressure: Meaning, Atmospheric Pressure Belt, Atmospheric Pressure Gradient, iting of Air Pressure Belts,

Unit – 6 Winds Belts, Latitudinal Displacement of Wind Belts, Tricellular Meridional Circulation

Unit – 7 Monsoon:Definition, Burst of Monsoon, Major Monsoon Regions of the World

Unit – 8 Origin of Indian Monsoon, Local Wind, Land and Sea Breezes, Mountain and Valley Breezes, Chinook, Foehn, Harmattan, Sirocco, Blizzard, Dust Devils, Loo, Santa Ana

Unit – 9 Humidity: Meaning, Types and Importance, Condensation, Fog Types, Theory's of Precipitation, Forms of Precipitation, Types and Distribution of Rainfall,

Unit – 10 Air Masses, Meaning and Concept, Characteristic, Classification, Major Airmasses of the World **Unit – 11** Fronts and Their Types, Cyclones- Meaning and Definition, Temperate Cyclones – Origin and Types

Unit – 12 Tropical Cyclones – Origin and Types, Structure, Anticyclone- Meaning, Types and Characteristic

Unit – 13 Regionalization of Climate on the World – Climate Regions Demarcated by Koppen and Thornthwaite Classification Schemes.

Unit – 14 Types of Climate and Their Distribution, Tropical Rain Forest Climate, Tropical Monsoon Climate, Mediterranean Climate West European Type

Unit – 15 Climate Change – Meaning and Concept, Climate Change; Factors and Effects

Unit – 16 Applied Climatology – Definition, Climate and Agricultural, Climate and Human Health, Climate and Biosphere

Suggested Text Book Readings:

- 1. Lal, D.S.: Climatology, Sharda Pustak Bhawan, Allahabad
- 2. Critchfield, H.J. General Climatology, Prentice Hall of India, New Delhi.
- 3. Singh, Savindra, Climatology, Pravalika Publication, Allahabad
- 4. Kendrew, W.G. : Climatology, Oxford Uni. Press.
- 5. Trewartha, G.T. : An Introduction to Climate, Mc Graw Hill Series in Geography

This course can be opted as an elective by the Learners of following subjects: NA

Suggested equivalent online courses (MOOCs) for credit transfer: NA

Course prerequisites: Bachelor degree in any subject OR Any 4 year Graduate Degree					
Programme: MAGO	Year: 1	Semester: 2			
Subject: Geography					
Course Code: MAGO-108N Course Title: Oceanography					
Course Objectives:					
-	e applications of Oc	l concepts in Oceanography. ceanography indifferent areas and environn l thereby to enrich the student's Knowledg			
Course Outcomes:					
CO1: At the end of the semester Learner	rs will different phys	sical aspects of water as a natural resource.			
CO2: They will learn some strategies of		agement.			
CO3: Learn Also about the conservation					
CO4: Learners can compute critical flow	-	- ·			
CO5: Learners can delineate watersheds	and stream polynne	es from digital elevation data.			
Credits: 4	Ту	ype of Course: Core			
Category of Course		alue-added / employability			
Max. Marks: 100	Min. Passing Marl				
	oi framed block wise				
Unit – 1 Oceanography : Definition , Sco		e			
Unit - 2 Branches of Oceanography , Oc Unit – 3 Bottom Reliefs of the Oceans	ceanography and its	s related subjects			
Unit – 4 Pacific Ocean, Shape and Extens	sion. Relief of the Bo	ottom. Island of the Pacific Ocean			
Unit – 5 Indian Ocean- Shape and Extens					
Unit – 6 Atlantic Ocean - Shape and Exte	•				
Unit – 7 Composition of Ocean V	Water, Distribution o	of Salinity			
Unit – 8 Controlling Causes of Salinity, V	ertical Distribution o	of Salinity of Ocean water			
Unit – 9 Regional Distribution of Salinity	- Pacific Ocean, India	ian Ocean			
Unit – 10 Origin of Ocean Currents, Reas		the origin of Currents			
Unit – 11 Major Currents of Different Oc					
Unit – 12 Causes and Characteristics of Tides					
 Unit – 13 Types of Tides, Effects of Tides Unit – 14 Theory's of Origin of Tides, Energy Generation from Tides 					
		, Types of Corals, Theory's of Origin of Cor	al		
Reefs, Coral Bleaching	saly for Formation,	, rypes of corais, meory s of origin of cora	וג		
Unit – 16 Marine Resources, Ocean Energy Resources, Sources of Marine Pollution					
,	C,,,	-			

Suggested Text Book Readings:

- 1. Singh, Savindra: Oceanography, PrayagPustak Bhawan, Allahabad.
- 2. Lal, D.S. : Oceanography, Sharda Pustak Bhawan, Allahabad.
- $3. \quad Gerald, \, S.: General \, Oceanography: An \, Introduction, \, New \, York$
- 4. King, C.A ; Oceanography, C.E. Arnold, London

Course prerequisites: Bachelor degree in any subject OR Any 4 year Graduate Degree						
Programme: MAGO	Year: 1		Semester: 2			
S	ubject: Geography					
ourse Code: MAGO-109N Course Title: Settlement Geography						
Course Objectives:	Course Objectives:					
• Understand the scope and content of settle	ment geography					
• Trace the development of settlement geogr	aphy in relation to a	llied disciplines				
• Understand the concept of settlement geog	graphy.					
 Acquire knowledge about Rural settlement 	ts- Definition, nature	e and characteristics				
• Analyze the morphology of rural settlement	nts					
• Learn the rural house types, census categor	ries of rural settleme	nts and idea of social	segregation			
Course Outcomes:						
CO 1: Learn the census definition and cat	egories of urban settl	lements				
CO 2: Analyze the urban morphology mo	dels of Burgess, Hoy	rt, Harris and Ullman	L			
CO 3: Differentiate between city-region and conurbation						
CO 4: Analyze the functional classification	n of cities					
CO 5: Develop the skill of mapping language distribution of India						
CO 6: Learn to plot proportional squares to illustrate housing distribution						
CO 7: Acquire the skill of identifying rura	al settlement types fr	om topographical she	eet			
Credits: 4		Type of Course: Co	re			
Category of Course		value-added / em	ployability			
Max. Marks: 100 Min. Passing Marks: 36						
Unit –1 Definition, Development, Scope of Settlement Geography						
Unit – 2 Classification of Settlements						
Unit – 3 Distribution of Rural Settlements, Pattern						
Unit – 4 Types of Rural Settlements						
Unit – 5 Rural Service Center						
Unit – 6 Rural Planning						
Unit – 7 Rural Urban Settlement and Urban Geography						
Unit – 8 Origin and Development of Towns						
Unit – 9 Urban Morphology						
Unit – 10 Functional Classification of Towns						

Unit – 11 Urban Systems Analysis Unit – 12 City Regions Interactive Influences Unit – 13 Urban Problems Unit – 14 Town Planning and Master Plan Unit- 15 Rural Panning

Suggested Text Book Readings:

- 1. Tiwari ,R.C, Settlement Geography, Pravalika Publication Prayagraj
- 2. Lal, H. City and Urban Fringe : A Case of Bareilly.
- 3. Bansal, S.C. NagreeyBhoogol, Varanasi.
- 4. Singh, O.P. NagreeyBhoogol, Lucknow.
- 5. Singh, U. NagreeyBhoogol, Allahabad

This course can be opted as an elective by the Learners of following subjects: NA

Suggested equivalent online courses (MOOCs) for credit transfer: NA

Course prerequisites: Bac	helor degree in any subj	ect OR Any 4 year Graduate Degree	
Programme: MAGO	Year: 1	Semester: 2	
	Subject: Ge	eography	
Course Code: MAGO-110N	Course Title: Dis	sertation	
Course Objectives:			
Dissertation is an ir	nportant segment of concer	ned subject.	
Learners will have Geography	e to select any topic of	their interest field for dissertation work related to	
	eir Dissertations on the top	ic related to Geography	
Course Outcomes:			
Learners will know	the skill of Dissertation wr	iting	
> They will understar	d the practical knowledge	of their concerned subject	
After completing	dissertation learners will	submit their dissertation in the School of Social	
Sciences and also c	oncerned on Regional cent	res for evaluation and award of marks.	
	rd of mark will be internal/		
Credits: 4		Type of Course: Core	
Category of Course		value-added / employability	
Max. Marks: 100	Min. Passing Ma	Min. Passing Marks: 36	

Course prerequisites: Bachelor degree in any subject OR Any 4 year Graduate Degree					
Programme: MAGO	Year: 2	Semester: 3			
	Subject:	MAGO			
Course Code: MAGO-111N	Course Title: Geography of Population				
Course Objectives:					
1. This course introduc	1. This course introduces the spatial distribution of population with causative factor.				
2. It also deals with various theories and concepts related with population					
3. Study of population is an essential component in planning of various human related issues.					
4. It also helpful in kno	wing various kinds o	of demographic problems,			
5. Population Geograp	hy also deals in pop	ulation policies in developed & developing countries.			
Course Outcomes:					
CO1: Understand the distributio					
CO2: Population distribution and	d its problems.				
CO3: Population dynamics					
CO4: Understand population po		ce.			
CO5: Learners aware about the	population policies.				
Credits: 4		Type of Course: Core			
Credits. 4		Type of course. Core			
Category of Course		value-added / employability			
Max. Marks: 100	Min. Passing Mar	ks: 36			
	(Syllabi framed blog	ck wise/unit wise)			
Unit – 1Population Studies in Ge	ography, Definition	and Scope of Population			
Geography					
Unit – 2 Approaches to Population Geography, Development of Population Geography					
Unit – 3 Population Geography and Other Social Sciences, Population Geography in India					
Unit – 4 Factors Affecting the Distribution and Density of Population					
Unit – 5 World Distribution of Population - Areas with High population, Areas with Medium population,					
Area with Low and Sparse Population, Unpopulated Area					
Unit – 6 Population Density - Types, World Distribution of Population Density					
Unit – 7 Population Growth in the World, Population Growth in India.					
Unit – 8 Meaning of Fertility, Determinants of Fertility					
Unit – 9 Meaning of Mortality, Causes of Variation in Mortality					
Unit – 10 Methods of Calculation of Sex Ratio, Types of Sex Ratio					
Unit – 11 'Meaning of Literacy, Factor Affecting Causes of Literacy					
Unit – 12 Literacy Pattern in the World, Literacy in India, Difference between Male and Female Literacy					

Unit – 13 Meaning of Urbanization, Effects of Urbanization, Urbanization in India.
 Unit – 14 Population Theory of Malthus, Neo- Malthusianism, Optimum Population Theory
 Unit – 15 Problems Arising out of Population, Population Problems in India
 Unit – 16 Meaning, Need and Objectives of Population Policy, Population Policy of India, New Population Policy

Suggested Text Book Readings:

- 1. Chandna, R.C. : A Geography of Population (Hindi & English) Kalyani, New Delhi.
- 2. Trewartha, G.T. : A Geography of Population.
- 3. Zelinsky, W. (ed.) :Geography and a Growing World.
- 4. Yadav, Hira Lal :JansankhyaBhoogol, New Delhi

This course can be opted as an elective by the Learners of following subjects: NA

Suggested equivalent online courses (MOOCs) for credit transfer: NA

Course prerequisites: Bachelor degree in any subject OR Any 4 year Graduate Degree					
Programme: MAGO	Year: 2	Semester: 3			
	Subject: G	eography			
Course Code: MAGO-112N					
Course Objectives:					
 Main objectives of this c 	ourse are to acquair	nt the Learners with the philosophy.			
Also teach the Methodo	logy and historical d	evelopment of geography as a professional field.			
	•.	se of the changing geographies and to what we as			
geographers contribute	towards knowledge	production.			
 The course aims at developing critical thinking and analytical approaches. Learners will acquire an understanding of and appreciation for the relationship between 					
geography and culture.					
 CO1: This should enable the student to critically look at the contents of other courses at Postgraduate level as logically integrated with the broad currents of thought the subject has witnessed in the distant and recent past CO2: Learners will demonstrate an advanced understanding of the historical development of geographical thought. CO3: They can understand the major current philosophical and theoretical debates in geography. CO4: Learners will demonstrate an understanding of current research within the breadth of geography, as well as more in depth knowledge of research in their specialty areas. CO5: Learners will develop a solid understanding of the concepts of "space," "place" and "region" and their importance in explaining world affairs. 					
Credits:4		Type of Course: Core			
Category of Course		value-added / employability			
Max. Marks: 100	Min. Passing Mar				
(Syllabi framed block wise/unit wise)					
Unit – 1 Tendencies of Geographical Thought and Ancient Period					
Unit – 2 Romantic Period					
Unit – 3 The Dualistic Age					
Unit – 4 Determinism and Possibilism, Recent Trends.					
Unit – 5 Changing Paradigm of Geography Unit – 6 Geography as Geophysics					
	Unit – 7 Geography as a Nature and Human Interrelationships				
	Unit – 8 Spatial Organization, Concept of Socialist Geography ,Eco-development				
1 0					

- Unit 9 The Concept of Earth Surface, Concept of Landscape
- Unit 10 Regional And Cultural Landscape
- Unit 11 Models in Geography, Quantitative Revolution
- Unit 12 Welfare Geography, Idealism in Geography
- Unit 13 Positivism in Geography, Humanism, Behaviouralism
- Unit 14 Feminist and Gender Geography, Functionalism
- Unit 15 Post Modernism, Progress of Geography in India
- Unit 16 Concept of System, Types of System, System Analysis in Geography

Suggested Text Book Readings:

- 1. Singh, Jagdish : Bhaugolik Chintan KeMooladhar, GyanodayaPrakashan, Gorakhpur.
- 2. Dikshit, S.K. :Bhaugolik Chintan Ka UdbhavAvam Vikas, Vishwavidyalaya Prakashan, Varansi
- 3. Dickinson, R.E. : The Makers of Modern Geography, Routledge and Kegon Paul, London.
- 4. Harvey, D. : Explanation in Geography, Edward Arnold, London.
- 5. Husain, Majid : Evolution of Geographical Thought, Rawat Publications, Jaipur.
- 6. Hartshorne, R. (1959) : Perspectives on the Nature of Geography, John Murray, London

This course can be opted as an elective by the Learners of following subjects: NA

Course prerequisites: Bachelor degree in any subject OR Any 4 year Graduate Degree					
Programme: MAGO	Year: 2 Semester: 3				
Subject: Geography					
Course Code: MAGO-113N	Code: MAGO-113N Course Title: Environment Management and Eco-development				
Course Objectives:					
1. Learners will understand the concept of place and how it is connected to people's sense of					
belonging to the physical environment, landscape and culture.					
		l concepts of spatial interaction a	and diffusion, which		
-	explain how human activities are influenced by the concept of distance.				
	-	are of physical systems such	as geomorphologic		
processes and natura		et information on different types	of physical features		
maps.	e to read and interpr	et information on different types	of physical leadures		
•	how human, phys	ical and environmental compo	nents of the world		
interact.		1			
Course Outcomes:					
CO1: Describing human-environ	ment, and nature-so	ciety interactions as well as glob	al human and		
environmental issues.		-			
CO2: Identifying and explaining t	the planets human a	nd physical characteristics and p	rocesses, from		
global to local scales.					
CO3: Evaluating the impacts of h					
CO4: Applying knowledge of glo	bal issues to local cir	cumstances to evaluate the loca	l effects of the		
issues.					
CO5: Showing an awareness and	d responsibility for t	ne environment			
Credits: 4		Type of Course: Core			
Category of Course Value-added / employability					
Max. Marks: 100	Min. Passing Mark				
	•				
(Syllabi framed block wise/unit wise) Unit – 1 Environment, Biosphere and Ecosystem					
•	•	gen Cycle, Water Cycle, Oxygen	Cycle		
 Unit – 2 Bio-geochemical Cycles , Carbon Cycle, Nitrogen Cycle, Water Cycle, Oxygen Cycle Unit – 3 Stability of Ecosystem 					
Unit – 4 Instability of Ecosystem, Causes of Environmental Crisis					
Unit – 5 Economic Development and Environmental Crisis					
Unit – 6 Population and Environmental Degradation , Poverty and Environmental Degradation					
Unit – 7 Expansion in Agriculture Sector, Green Revolution and Environmental Degradation					
Unit – 8 Vegetation Community,	Vegetation Success	on			
Unit – 9 Major Ecosystems of the	e World, Process of I	Deforestation, Its Causes and Con	nsequences		
it – 10 Soil Elements, Regional Classification of Soils Unit – 11 Productivity of Soil and its Loss, Soil Erosion and Desertification					
•			a Durification Project		
Unit – 12 Water Pollution: Concep	or, Problems and Rel	neales of water Pollution, Gang	a Purficación Project		

it – 13 Ground Water Degradation, Causes and Consequences of Pollution, Water Crisis in India

it – 14 Concept of Air Pollution, Causes of Air Pollution, Noise Pollution

Unit – 15 Energy Crisis in India, Solar Energy, Wind Energy and Bio-gas

Unit – 16 Environment Management and Eco-development: Concepts, Principles, Approaches to Environment Management

Suggested Text Book Readings:

- 1. Singh, J.: Environment Management and Eco-development, GyanodayaPrakashan, Gorakhpur
- 2. Singh, Savindra : Environmental Geography, PrayagPustak Bhawan, Allahabad.
- 3. Odum, E.P. (1971): Fundamentals of Ecology, W.B. Sounders Co. Philadelphia.
- 4. Joy, T. (1977): Bio-geography: A Study of Plants in the Ecosphere, Oliver & Boyd, Edinburgh

Suggested online links:

- 1. Studies, ErachBharucha, https://www.ugc.ac.in/oldpdf/modelcurriculum/env.pdf
- 2. Environmental Pollution: Lesson 10.pmd (shivajicollege.ac.in)

This course can be opted as an elective by the Learners of following subjects: NA

Suggested equivalent online courses (MOOCs) for credit transfer: NA

Course prerequisites: Bachelor degree in any subject OR Any 4 year Graduate Degree					
Programme: MAGO	Year: 2 Semester: 3				
Subject: Geography					
Course Code: MAGO-114N	Course Title: Disaster Management				
Course Objectives:					
• Understand the nature of ha	zards and disasters.				
• Assess risk, perception and v	ulnerability with respect to l	nazards.			
Prepare hazard zonation ma	aps.				
• Assessing the nature, impact subcontinent.	t and management of major	natural and man-made hazards affecting the Indian			
Course Outcomes:					
CO 1: Analysis of trends of ten	nperatures				
CO 2Analyze the rainfall varial	•	of climatic regions of India.			
	•	t and adaptive strategies with particular reference			
to South Asia	о ,				
CO 4: Analyze Role of urban lo	ocal bodies, panchavats and e	educational institutions on climate change			
, mitigation: Awareness and act		6			
-		easures concerning climatic hazards			
Credits: 4	0 0 0	Type of Course: Core			
Category of Course		value-added / employability			
Max. Marks: 100	Min. Passing Marks: 36				
(Syllabi framed block wise/unit wise)					
Unit – 1 Concept of Disaster	and Hazards, Types, Elemen	t and Aspects of			
Management					
Unit – 2 Methods and Appro		ent			
Unit – 3 Volcanic Disaster and Management					
Unit – 4 Earthquake Disaster and Management					
 Unit – 5 Tsunami Disaster and Management Unit – 6 LandslideDisaster and Management 					
Unit – 7 Cyclone Disaster and Management					
Unit – 8 Flood Disaster and Management					
Unit – 9 Drought and Famine Disaster					
Unit – 10 Weather RelatedD	isaster and Management				
Unit – 11 Biological and Hea					
Unit – 12 Man-made Manag	ement				
Unit – 13 Global Warming					
Unit – 14 Climate Change					
Unit – 15 Disaster and Mana	gement in India				

Unit – 16 Environment Laws in India, Institutional Organization and Policy Framework

Suggested Text Book Readings:

- 1. Singh, S. : Disaster Management, Pravalika Publication, Allahabad.
- 2. Singh, J. : Environment and Eco-development, GynodayaPrakashan, Gorakhpur
- 3. Pathak, G. : Natural Disasters and Their Management, Rajesh Publications, New Delhi

This course can be opted as an elective by the Learners of following subjects: NA Suggested equivalent online courses (MOOCs) for credit transfer: NA

Course prerequisites: Bachelor c	legree in any su	bject OR Any 4 year	Graduate Degree
Programme: MAGO	Year: 2		Semester: 3
Subject: Geography			
Course Code: <i>MAGO-115N</i>	Course Title: Di	ssertation	
Course Objectives:			
Dissertation is an important	t segment of conc	erned subject.	
Learners will have to sele Geography	ect any topic of	their interest field f	for dissertation work related to
They will submit their Diss	ertations on the to	opic related to Geogra	phy
Course Outcomes:			
Learners will know the skil	l of Dissertation v	vriting	
> They will understand the pr	actical knowledge	e of their concerned s	ubject
> After completing dissertat	ion learners will	submit their disserta	ation in the School of Social
Sciences and also concerne	d on Regional cer	ntres for evaluation ar	nd award of marks.
\succ Evaluation and award of matrix	ark will be interna	ıl/external	
Credits: 4		Type of Course: Cor	re
		value-added / em	ployability
Max. Marks: 100	Min. Passing Marks: 36		

Programme: MAGO	Year: 2	ar: 2 Semester: 4		
-0	Subject: Geo			
ourse Code: MAGO-116N Course Title: Cartography and statistical methods				
Course Objectives:	1			
• The objective of this co	ourse is to provide an ur	nderstanding for the graduate business student on		
statistical concepts to include measurements of location and dispersion, probability, probability				
distributions, sampling	g, estimation, hypothe	sis testing, regression, and correlation analysis,		
multiple regression				
• How to calculate and	apply measures of loca	ation and measures of dispersion grouped and		
ungrouped data cases.				
	•	lity distributions to various business problems. te confidence interval for a population parameter		
for single sample and t	wo sample cases.			
Compute and interpre	t the results of Bivaria	ate and Multivariate Regression and Correlation		
Analysis, for forecasting.				
Course Outcomes:				
CO1: Keeping in view the natur choice amongst listed various s CO2: Demonstrate understand	tatistical methods.	of study, Learners would be able to make a rational probability and statistics embedded in their		
courses. CO3: Show proficiency in basic CO4: Learners shall know how CO5: Learners shall know how CO6: Demonstrate ability to we conclusions using nontechnical	to organize, manage, ar to organize, manage, ar rite reports of the result	nd present data.		
CO3: Show proficiency in basic CO4: Learners shall know how CO5: Learners shall know how CO6: Demonstrate ability to we	to organize, manage, ar to organize, manage, ar rite reports of the result language.	nd present data. nd present data.		
CO3: Show proficiency in basic CO4: Learners shall know how CO5: Learners shall know how CO6: Demonstrate ability to we conclusions using nontechnical Credits: 4	to organize, manage, ar to organize, manage, ar rite reports of the result language. T	nd present data. nd present data. ts of statistical analyses giving summaries and Type of Course: Core		
CO3: Show proficiency in basic CO4: Learners shall know how CO5: Learners shall know how CO6: Demonstrate ability to we conclusions using nontechnical	to organize, manage, ar to organize, manage, ar rite reports of the result language. T	nd present data. nd present data. ts of statistical analyses giving summaries and Type of Course: Core value-added / employability		

Unit – 1 Definition, History and Need of Map

- Unit 2 Map Projection Definition and Classification
- Unit 3 Conical Projection Simple Conical Projection with One Standard Parallel, Conical Projection with Two Standard Parallel, Bonne's Projection- Features, Construction and Uses
- Unit 4 Cylindrical Projection: Merits ,Demerits and Construction
- Unit 5Mercator's Projection, Gall's Projection
- Unit 6 Polar Projection Orthographic Polar Projection, Stereographic Polar Zenithal Projection, Selection of Map Projections
- Unit 7 Need of Geological Map, Beds and Bedding Plane, Dip, Strike Line
- Unit 8 Geological Maps of Inclined, Geological Maps of Unconformable
- Unit 9 Profile and description of geological map with folded, inclined bed
- Unit 10 Statistics in Geography, Usefulness of Statistics in Geography, Types of Data.
- Unit 11Arithmetic Mean, Median, Mode
- Unit 12 Correlation- Types, calculation of correlation by Spearman's and
- Unit 13 Lorenz Curve, Scatter Diagrams, Hypsometric curves
- Unit 14 Remote Sensing Techniques- Meaning, History, Efforts and

Applications of Remote Sensing Techniques in India

Unit – 15 Geographical Information System- Definition, Objectives and Functions

Unit – 16 Profiles – Types and Characteristics Karl Pearson's methods

Suggested Text Book Readings:

- 1. Singh, J. :BhaumikiyaManchitro Ki Ruprekha, Vasundhara Prakashan, Gorakhpur.
- 2. Singh, R.L. :Element of Practical Geography, Kalyani Publication, New Delhi
- 3. Robinson, A.H.: Elements of Cartography, New York.
- 4. Tiwari, R.C. : Abhinav PrayogatmakBhoogol, Pravalika Publication, Prayagraj

This course can be opted as an elective by the Learners of following subjects: NA Suggested equivalent online courses (MOOCs) for credit transfer: NA

Course prerequisites: Bachelor degree in any subject OR Any 4 year Graduate Degree				
Programme: MAGO	Year: 2	Semester: 4		
	Subject: G			
Course Code: MAGO-117N	Course Title: Transport Geography			
Course Objectives:				
•	rse is to appraise	e the Learners about the geographic relevance of		
transportation.				
About the various models of	of global relevanc	e and modal characteristics of modes.		
 Structural analysis of trans 	port network (acc	cessibility and connectivity).		
Development of Road Tran	sport in India and	d Special Reference to Haryana.		
 Manually uses of geograph 	ical models.			
Course Outcomes:				
CO1: Learners shall learn about the	e significance of t	ransport in multifaceted development.		
CO2: Significance of various model				
CO3: Role of theories related to tra	•			
CO4: About the Accessibility, conne				
CO5: They will be applying the vari	ous approaches c	of transport in daily life.		
Credits: 4		Type of Course: Core		
Category of Course		value-added / employability		
Max. Marks: 100	Max. Marks: 100 Min. Passing Marks: 36			
(Syllabi framed block wise/unit wise)				
Unit – 1 Definition and Scope of T	ransport Geograp	hy		
Unit – 2 Spatial Interaction – Com	plementarity, Lac	k of Intervening Opportunity, Transferability		
-	-	port, Modes and Means of Transport, AncientPeriod,		
Medieval Period and Modern Peri	lod			
Unit – 4 Means and Modes of Tran	sport, Relative In	nportance of Means of Transport		
Unit – 5 Analysis of Transport Net	work - Traditiona	l and Modern Methods		
Unit – 5 Analysis of Transport Network - Traditional and Modern Methods Unit – 6 Graph Theory, Planar and Non- planar Graphs, Graph Index				
Unit – 7 Accessibility- Definition ,				
Unit – 8 Connectivity, Degree of C	• •			
Unit – 9 Rail Transport – Inequalit	•			
		-		

Unit - 10 Road Transport- Inequalities and problems in Distribution and Development

Unit – 11 Water Transport - Existing Patterns, Problems and Prospects

Unit – 12 Present Patterns , Problems and Potentials of Air Transport

Unit – 13 Role of Transport in Regional Development in India

Unit – 14 Transport Planning Concept, Methodology

Unit – 15 Transport Policy of India.

Reference Books -

- 1. Singh, J. (1969) Transport Geography of South Bihar, N.G.S.I., B.H.U.
- 2. Singh, K.N. (1990) Transport Network in Rural Development in Eastern U.P., I.R.E.D., Gorakhpur.
- 3. Singh, K.N. (2005) ParivahanBhoogol, GyanodayaPrakashan, Gorakhpur
- 4. Robinson, H. & Banford, C. (1978) Geography of Transport, Mc Donald & Evans, London.

Suggested equivalent online courses (MOOCs) for credit transfer: NA This course can be opted as an elective by the Learners of following subjects: NA

Note: School may revise list of electronic media and other digital components in the curriculum time to time and shall be updated in website also.

Course prerequisites: Bachelor c	legree in any subject OR Any 4 yea	r Graduate Degree			
Programme: MAGO Year: 2 Semester: 4					
	Subject: MAGO	•			
Course Code: MAGO-118N	Course Title: Political Geography				
Course Objectives:					
A capacity to construct an	nd to evaluate arguments in light of ge	ographical evidence.			
An understanding of cont	inuity and change in human activity a	cross the globe.			
Awareness of the influence	ce of varied and complex factors on hu	man activity across space.			
• An ability to examine a variety of sources critically and to analyze them in terms of their contexts.					
• The capacity to evaluate human activity in light of geographical evidence.					
 Awareness of diversity and complexity of human activity as it relates to space and place. 					
Course Outcomes:					
CO1: An understanding of continui	ty and change in human activity acros	s the globe.			
CO2: Awareness of the influence of varied and complex factors on human activity across space.					
CO3: A capacity to construct and to evaluate arguments in light of geographical evidence.					
CO4: An ability to examine a variet	y of sources critically and to analyze tl	nem in terms of their contexts.			

Credits: 4	redits: 4 Type of Course: Core		Type of Course: Core		
Category of Cou	rse		value-added / employability		
Max. Marks: 100) M	lin. Passing M	Passing Marks: 36		
(Syllabi	should be framed blo	ck wise/unit v	vise; No of blocks and units may change)		
Unit – 1 Politic	al Geography- Definit	ion, Scope			
Unit – 2 State -	Nation Concept				
Unit – 3 Politic	al Geography of Front	tiers and Borde	erers		
Unit – 4 Struct	ure of the State,				
Unit – 5 Base A	reas and Capitals				
Unit – 6 Geopo					
	ot and Geographical E		llism		
•	litical Problems of Inc				
	State Border Disputes				
	ning, Objectives and R		ectoral Geography		
-	raphical Study of Vot	-			
	mination of Constitu		Le se s		
	d : Political and Enviro		liems		
•	r Problem Areas of th				
Unit – 15 Geop	olitical Significance o	r Indian Ocean			
Suggested Text	Book Readings:				
1. Chauhan	, P.R.: RajnitikBhoog	ol, Vasundhara	a Prakashan, Gorakhpur.		
2. Dikshit,	R.D. : Political Geogr	aphy : A Conte	emporary Perspective, Tata Mc Graw Hill, New Delh		
3. Adhikari	, S.: Political Geograp	hy of India, S	harada Pustak Bhawan, Allahabad		
4. Tiwari, I	.C.: Political Geograp	ohy, Pravalikal	Publication, Allhabad		
5. Dikshit,	S.K.: RajnitikBhoogo	lAvamBhurajn	iti, Vishwavidyalaya Prakashan, Varanasi.		
This course can	be opted as an elec	tive by the Le	earners of following subjects: NA		
C	- I I P	- (14000-) (

Suggested equivalent online courses (MOOCs) for credit transfer: NA

Course prerequisites: Bachelor degree in any subject OR Any 4 year Graduate Degree				
Programme: MAGO	Year: 2		Semester: 4	
Subject: Geography				
Course Code: MAGO-119N	Course Title: Models, theory and law in Human Geography			
Course Objectives:				
• Gain knowledge about major the second seco	hemes of human (Geography.		
Acquire knowledge on the histo	ory and evolution	of humans.		
 Understand the approaches and processes of Human Geography as well as the diverse patterns of habitat and adaptations. 				
Develop an idea about space and	d society			
Course Outcomes:				
CO1: to understand environmental	impact on societ	у.		
CO2: to understand population, an	d settlement patt	ern on the earth surf	ace.	
CO3: to provide systematic knowle	dge about enviro	nment and human re	lationship.	
CO4: to make learners aware about the changing landscape of the earth surface.				
CO5: also aims to provide knowledge about tribes and different society				
Credits: 4 Type of Course: Core				
Category of Course Value-added / employability				
May Markey 100		artice 2C		
Max. Marks: 100 Min. Passing Marks: 36				
(Syllabi framed block wise/unit wise)				
Unit – 1 Models in Human Geography Unit – 2 System Analysis in Human Geography				
Unit – 3 Central Place Theory of Christaller's, Central Place Theory of Losch				
Unit – 4 Zipf 's Rank-Size Rule , Concept of Primate City				
Unit – 5 International Borders and Rules of Frontier Areas				
Unit – 6 Spikeman's Rimland Theory, Mackinder's Heartland Theory				
Unit – 7 Rostow's Theory of Economic Growth, Smith's Theory of Spatial Limitation				
Unit – 8 Industrial Location Theory of Isard and Hoover				

Unit – 9 Industrial Location Theory of Losh and Weber

Unit – 10 Van Thunen's and Other Agricultural Location Theories

Unit – 11 Center-periphery Theory of Friedmann, Growth Pole Theory of Perroux and Boudeville

Unit – 12 Theories of Urban Morphology

Unit – 13 Population Theories of Malthus and Marx

Unit – 14 Demographic Transition Theory

Unit – 15 Federalism in Geography

Suggested Text Book Readings:

- 1. Husain, M ,Bhaugolic Models, Tata McGraw Hill, New Delhi
- 2. Maurya, S.D., Manav Bhugol me Modal SidhantavamNiyam, Pravalika, Publication, Allhabad

This course can be opted as an elective by the Learners of following subjects: NA

Suggested equivalent online courses (MOOCs) for credit transfer: NA

Course prerequisites: Bache	lor degree in an	y subject OR Any 4 ye	ar Graduate Degree.		
Programme: MAGO	Year: 2	Year: 2 Semester: 4			
Subject: Geography					
Course Code: MAGO-120N	Course Title:	Course Title: Viva Voce			
Course Objectives:					
1.To be evaluated	through viva -voc	e by concerned subject	expert		
2.To assess the lea	rners ability to co	mmunicate with other p	person .		
3.To identify and a	inalyse the learne	rs presence of mind			
Course Outcomes:					
1.Learner will familiar with varie	ous aspects of the	course and personal sk	ills.		
2. They will be familiar with their	r strength and we	akness .			
Credits:4 Type of Course: Core			re		
Category of Course		value-added / em	ployability/ skill		
		development/			
Max. Marks: 100	Min. Passing	Min. Passing Marks: 36			