

Rayat Shikshan Sanstha's Karmaveer Bhaurao Patil Mahavidyalaya, Pandharpur

An Autonomous College Affiliated to

Punyashlok Ahilyadevi Holkar Solapur University, Solapur



Accredited by NAAC with 'A+' Grade

Syllabus For

M.A. Part - II

Geography

Semester III & IV

(Choice Based Credit System)

(With effect from - 2021-2022)

SemIII	Code	M.Sc. II - Geography C B C S w.e. Title of the Paper							,	
	Couc	Hard Core		ester E		L		Γ	P	Credit
Geog.	KBP-HCT 3.1	Agricultural Geography	UA	IA	Total					
		Agricultural Geography	80	20	100	4	-	-		4
	KBP- HCT 3.2	Settlement Geography	80	20	100	4			-	1
Soft Cor	e (Any one)		100	120	100	14				4
	KBP -SCT 3.1	Biogeography	80	20	100	4		_	T	
	WDD GGT 1		00	120	100	-	-	-		4
O TI	KBP- SCT 3.2	Geography of Marketing	80	20	100	4		_		1 4
Open El	ective (Anyone)			•						
	KBP -OET 3.1	Cultural Geography	80	20	100	4	Τ-	_		
D	KBP- OET 3.2	Commercial Geography	80	20	100	4	_	_		4
Practical										<u> </u>
	KBP-HCP 3.1	Quantitative Techniques in Economic	40	10	50		T-	. 7	2	2
	KBP -HCP 3.2	Geography					1			
0		Introduction to Computer	40	10	50				2	2
Soft Core	e (Any one)									
	KBP-SCP 3.1	Applications of Computer in Geography	140	110	1.00					****
		1-prications of Computer in Geography	40	10	50				2	
	KBP-SCP 3.2	Map Projection and Cartography	40	10	70					2
Open Ele	ective (Anyone)	1 10 Jeonon and Cartography	140	10	50				2	
	KBP -OEP 3.1	Quantitative Techniques in Population &	10	110	1.50					
		Settlement Geography	40	10	50				2 .	
	KBP- OEP 3.2	Global Positioning System and Geographical	10	10	50					2
		Information System	40	10	50				2	
		Tutorial		25		-1				
	Total for Third S			25		-				1
		beniester	480	145	625					25
Semester										
IV	Code	Title of the Paper	Semes	ter Exa	ım	L	T	P	?	Credits
Geog		Hard Core	TTA	T = .						
	8		UA	IA	Total			_		
	KRP -HCT 4.1								1	
	KBP -HCT 4.1	Regional Planning and Development in India	80	20	Total	4		 		
	000 (000000)	Regional Planning and Development in India	80	20	100	4		-	1	4
	KBP-HCT 4.1	Regional Planning and Development in India Development of Modern				4		-		4
	KBP- HCT 4.2	Regional Planning and Development in India Development of Modern Geography	80	20	100	4		1		
oft Core	KBP- HCT 4.2	Regional Planning and Development in India Development of Modern	80	20	100			1		
oft Core	KBP- HCT 4.2 KBP- HCT 4.3 (Any one)	Regional Planning and Development in India Development of Modern Geography Political Geography	80 80 80	20 20 20	100	4		1		4
oft Core	KBP- HCT 4.2 KBP- HCT 4.3 (Any one) KBP- SCT 4.1	Regional Planning and Development in India Development of Modern Geography Political Geography Geography of Tourism	80 80 80	20 20 20 20	100	4		1		4
	KBP- HCT 4.2 KBP- HCT 4.3 (Any one)	Regional Planning and Development in India Development of Modern Geography Political Geography	80 80 80	20 20 20	100	4		1		4
	KBP- HCT 4.2 KBP- HCT 4.3 (Any one) KBP- SCT 4.1 KBP SCT 4.2	Regional Planning and Development in India Development of Modern Geography Political Geography Geography of Tourism Geography of Manufacturing	80 80 80	20 20 20 20	100 100 100	4 4		1		4
	KBP- HCT 4.2 KBP- HCT 4.3 (Any one) KBP- SCT 4.1	Regional Planning and Development in India Development of Modern Geography Political Geography Geography of Tourism	80 80 80	20 20 20 20	100 100 100	4 4		- - - -		4
	KBP- HCT 4.2 KBP- HCT 4.3 (Any one) KBP- SCT 4.1 KBP SCT 4.2 KBP-HCP 4.1	Regional Planning and Development in India Development of Modern Geography Political Geography Geography of Tourism Geography of Manufacturing Introduction to Remote sensing and GIS	80 80 80 80 80	20 20 20 20 20	100 100 100 100	4 4	 	1		4
	KBP- HCT 4.2 KBP- HCT 4.3 (Any one) KBP- SCT 4.1 KBP SCT 4.2 KBP-HCP 4.1	Regional Planning and Development in India Development of Modern Geography Political Geography Geography of Tourism Geography of Manufacturing Introduction to Remote sensing and GIS Application of Remote Sensing	80 80 80 80 80	20 20 20 20 20	100 100 100 100	4 4	 	- - - -		4
	KBP- HCT 4.2 KBP- HCT 4.3 (Any one) KBP- SCT 4.1 KBP SCT 4.2 KBP-HCP 4.1	Regional Planning and Development in India Development of Modern Geography Political Geography Geography of Tourism Geography of Manufacturing Introduction to Remote sensing and GIS Application of Remote Sensing	80 80 80 80 80 40	20 20 20 20 20 10	100 100 100 100 100 50 50	4 4 4	 	- - - 2 2		4 2 2
	KBP- HCT 4.2 KBP- HCT 4.3 (Any one) KBP- SCT 4.1 KBP SCT 4.2 KBP-HCP 4.1	Regional Planning and Development in India Development of Modern Geography Political Geography Geography of Tourism Geography of Manufacturing Introduction to Remote sensing and GIS Application of Remote Sensing Research Methodology and Project work	80 80 80 80 80	20 20 20 20 20 10 10 20	100 100 100 100 100 50	4 4 4	 	- - - 2		4 2
oft Core	KBP- HCT 4.2 KBP- HCT 4.3 (Any one) KBP- SCT 4.1 KBP SCT 4.2 KBP -HCP 4.1 KBP -HCP 4.2 HCP 4.3 (MP)	Regional Planning and Development in India Development of Modern Geography Political Geography Geography of Tourism Geography of Manufacturing Introduction to Remote sensing and GIS Application of Remote Sensing Research Methodology and Project work Tutorial	80 80 80 80 80 40 40	20 20 20 20 20 10 10 20 25	100 100 100 100 100 50 50 100	4 4 4	 	- - - 2 2		4 2 2
	KBP- HCT 4.2 KBP- HCT 4.3 (Any one) KBP- SCT 4.1 KBP SCT 4.2 KBP -HCP 4.1 KBP -HCP 4.2 HCP 4.3 (MP)	Regional Planning and Development in India Development of Modern Geography Political Geography Geography of Tourism Geography of Manufacturing Introduction to Remote sensing and GIS Application of Remote Sensing Research Methodology and Project work Tutorial	80 80 80 80 80 40	20 20 20 20 20 10 10 20	100 100 100 100 100 50 50	4 4 4	 	- - - 2 2		4 4 2 2 4

L = Lecture, T= Tutorials, P= Practical, IA= Internal Assessment, 4 Credits of Theory = 4 Hours of teaching per week, 2 credits of Practical = 4 Hours per week, HCT= Hard core theory, SCT= Soft core theory, HCP= Hard core Practical, SCP= Soft core Practical, OET= Open elective theory, OEP= Open elective Practical, MP= Major Project

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M. A. II SEMESTER-III

KBP- HCT 3.1 - Paper-IX - Agricultural Geography (Teaching Hours - 60, Credit - 04)

Learning objective: -

- 1) To familiarize the students with concept origin and development of agriculture; and to examine the role of agricultural determinants. The course further aims to make familiarize the students with the application of various theories, models, Agricultural system, and productivity.
- 2) To reexamine green revolution in India, contemporary issues & agricultural problems in Solapur district.

Unit I: Agricultural Geography

15

- 1.1 Definition, Nature & Scope
- 1.2 Origin & Evaluation of Agriculture
- 1.3 Approaches to the study of Agricultural Geography: 1) Systematic 2) Regional

Unit II: Determinants of Agriculture

15

- 2.1 Physical, economic and technological Determinants
- 2.2 World Agricultural systems: Location, distribution, types and characteristics of Shifting Cultivation, Intensive, Extensive, Plantation, Mixed Agriculture and Dairy Farming.

Unit III: Agricultural regions

15

- 3.1 Concepts and techniques of delimitation of agricultural regions- Crop combination, Crop Diversification
- 3.2 Measurements of agricultural Productivity; Agricultural land use Model- Von Thunen's Model, & Jonasson's Model.

Unit IV: Green Revolution

15

- 4.1 Green Revolution in India-Nature and impact of Socio-Economic
- 4.2 Problems and prospects in the adoption of Green Revolution
- 4.3 Ecological implications of the green revolution
- 4.4 Contemporary issues: food, nutrition and Hunger, Agricultural policies in India.

Learning Outcome:-

- 1. Student will explain fundamentals and development of agriculture geography.
- 2. Student will list agricultural determinants and Practices.
- 4. Student will analyze techniques of delimitation of agricultural regions and models in agricultural geography.
- 5. Student will examine green revolution and Contemporary agricultural issues and policies.

References:-

Sr. No.	Name of Books	Name of Authors
1	Geography of Agriculture; Thems in Research. Prentice-Hall Englewood cliff. London.	Gregor H. F. (1970)
2	Agricultural Geography. Oxford University Press, London	Ilbury B.W. (1983)
3	Agriculture and Environment Change John Wiely, London.	Mannlon A. M. (1995)
4	Studies in Agricultural Geography/Rajesh Publication New Delhi	Mohammed Ali. (1978)
5	Agricultural Geography, New Delhi	Singh Jasbir & Dhillon S. S.
6	Agricultural Geography, Newton Abbot	Tarrant J. R. (1974)
7	Poverty Agriculture & Economic Growth, Vikas Publication New Delhi	Bhatia B. M. (1977)
8	The agricultural Systems of the World, Cambridge University Press	Grigg D. B. (1973)
9	Systematic Agricultural Geography, Rawat Publication Jaipur (India)	Husain Majid (1999)
10	Agricultural Geography, London	Symon. (1968)
11	Perspective in Agricultural Geography, Six Volume	Noor Mohammed
12	Green-Revolution How is it? Vishal Publication Kurukshetra.	Jasbir Singh (1973)

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M. A. II SEMESTER-III

KBP- HCT 3.2 - Paper-X - Settlement Geography

(Teaching $\overline{\text{Hours}} - 60$, Credit - 04)

Learning objective: -

- 1) To familiarize the students with the conceptual, theoretical and empirical development in settlement studies in Geography.
- 2) To provide an idea to the students about the national issues of settlements.

Unit I: Settlement Geography

15

- 1.1 Definitions, nature and scope
- 1.2 Significance and evolution of human settlement
- 1.3 Trend and growth of Human Settlement.

Unit II: Rural Settlement

15

- 2.1 Site and situation, types & pattern, size and growth of rural settlement,
- 2.2 Functional Classification of Rural settlement,
- 2.3 House types-based on building material,
- 2.4 Environmental, socio-economic, & Cultural Factors influencing the dynamic structure of Rural Settlement.

Unit III: Urban Geography

15

- 3.1 Meaning, nature and scope of Urban Geography
- 3.2 Functional classification of Urban centers
- 3.3 Morphological structure of cites-The Concentric Zone Theory, The Sector Theory, The multinuclei Theory.

Unit IV: Conceptual and theoretical framework in settlement Geography 15

- 4.1 Theories of Christaller and August Losch and their applications.
- 4.2 Measurement of centrality and hierarchy
- 4.3 Concept of Primate City, city region and Rank-size rule
- 4.4 Issues, perspective and polices on population & human Settlement

Learning outcome: -

- 1 Student will explain fundamentals and development of Settlement geography
- 2. Student will interpret determinants, types, pattern and growth of rural settlement.

- 3. Student will underline functional classification and morphological structure of urban centers.
 - 4. Student will examine Concepts, issues, polices and theories of Settlement geography.

Sr. No.	Name of Books
1	Ambrose, Peter, Concepts in Geography VolI Settlement Pattern, Longman 197.
2	Census of India, House types and Settlement Patterns of Villages in India, GOI, New Delhi 1961.
3	Singh R. L. and Kashi Nath Singh (Editors); Readings in Rural Settlements Geography, National Geographical Society of India. Varanasi, 1975.
4	Ucko, M.J., Ruth Tringham and G.W. Dimbleby (editors), Man, Settlement and Urbanism, Duckworth 1972.
-5	United Nations Centre for Human Settlements (HABITAT), An Urbanising World, Global Report on Human Settlements, Oxford University Press for HABITAT 1996.
6	Hudson, F. S. (1977) Geography of Settlement Mcdonadls and Evaus New York
7	Singh R. V. Geography of settlement, Rawat Pub. Jaipur
8	Mandel R B (1979): Introduction to Rural settlement

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M. A. II SEMESTER-III

KBP-SCT 3.1 - Paper-XI - Biogeography

(Teaching Hours -60, Credit -04)

Learning Objective: -

- 1) To introduce the student the concept of Biogeography and its interpretation.
- 2) To introduce the students with climate, physical environment and their interactions with the living organisms.
- 3) To introduce the students with the living and nonliving environments and their interactions with special reference to India.
- 4) To make aware about conservation of biodiversity and biotic resources.

Unit I: Introduction

15

- 1.1 Definition, Nature and scope
- 1.2 Significance and Development.
- 1.3 Branches of Biogeography

Unit II: Ecosystem

15

- 2.1 Concept and Meaning
- 2.2 Elements & types Habitat, Plant & Animal association
- 2.3 Functions of Ecosystem-Food Chain, Food web, energy pyramid with example.
- 2.4 Concept of Biogeography Region &Biomes; Major Biomes in the World-Tropical & Temperate

Forest, Grassland, Desert& mountain

Unit III: Introduction to Plant and Zoo Geography:

15

- A. Plant Geography
- 3.1 Factors influencing on plants
- 3.2 World-distribution of forests
- 3.3 Plant-evolution, adoption, speciation, extinction, colonization & dispersal Importance of Plants.

B. Zoo Geography:

- 3.4 Relationship of zoogeography with the environment.
- 3.5 Migration & dispersal of animals.

Unit IV: Paleorecords

15

- 4.1 Paleorecords of plants and animals
- 4.2 Paleorecords of climatic changes
- 4.3 Records of environmental changes in India.

Conservation of biotic resources:

- 4.5 National forest policy of India.
- 4.6 Conversation of biotic resources.
- 4.7 Legal protection to plants and animals

Learning outcome: -

- 1. Student will describe the general features of biogeography.
- 2. Student will explain Concept and Functions of Ecosystem and Major Biomes in the World.
- 3. Student will examine the geographical features of flora and fauna.
- 4. Student will analyze Paleorecords and Conversation of biotic resources

Sr. No.	Name of Books	Name of Authors
1	Man & Environment in India through ages, Books & Books	Agarwal D. P. 1972
2	Earth an living planet, ELBS, London.	Bradshaw M. J. 1979
3	Biogeography an ecological and evolutionary approach	Cox C.D. & Moore P.D. 1993
4	Environment and Ecology of early man in northern India, R.B. Publication Corp.	Gaur R. 1987
5	Fundamentals of Biogeography Rout ledge, USA	Huggett R. J. 1998
6	Indian geosphere – biosphere, Her Anand Publication Delhi	Khoshoo T.N. & Sharma M. (edi) 1991
7	Encyclopedia of Environmental Science. Megrew Hill.	Lapedes D. N. (edi) 1974
8	Basic Biogeography 2 nd edition Longman, London	Pears N. 1985
9	Biogeography, English Language Book Society, London.	Robinson H. 1982
10	Biogeography: - Natural & Cultural Longman, London	Simmon I. G. 1994
11	Biogeography: - A study of plants & ecosphere. 3 rd edition. Oliver & Boyd, USA.	Tivyj. 1992

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KBP- SCT 3.2 - Paper-XI - Geography of Marketing

(Teaching Hours -60, Credit -04)

Learning objectives:-

- 1) To familiarize the students with the aspects of marketing which have a bearing on the subject matter of Geography.
- 2) To acquaint the students with Nature, Scope and Significance of Marketing Geography with locational aspects.
- 3) To understand the morphology of Markets with its concepts, components and shopping centers within and between regions.
- 4) To understand the market channels with different trades and services.
- 5) To understand the theoretical frame work of central places.
- 6) To understand the role of market centers in Regional Planning and development..

Unit I: Introduction to Geography of Marketing

15

- 1.1 Meaning Nature, Scope, and significance of geography of marketing
- 1.2 Concepts of market-market center, marketing, market area and market cycle
- 1.3 Role of Market Centers in regional planning and development

Unit II: Market - Analysis

15

- 2.1 Classification of Markets: Based on periodicity, census, status, hierarchy & location.
- 2.2 Locational Analysis: Location in relation to transportation, Agricultural land use, surrounding

villages.

Unit III: Market Morphology

15

- 3.1 Concepts, components, Types of shopping centers
- 3.2 Marketing Channels:- Retailing, whole selling and services

Unit IV: Theoretical frame work

15

- 4.1 Central Place theory of Christaller and Auguest Losch,
- 4.2 General attraction theory and Reilly Break point theory

Learning outcome: -

- 1. Student will describe basic concept of Marketing Geography
- 2. Student will illustrate the Classification and Locational Analysis of Markets
- 3. Student will explain Market Morphology
- 4. Student will examine the theories in marketing Geography.

Sr. No.	Name of Book	Name of Authors
1	Geography of Marketing, Longman, London	Garnier B.J. & Debber A.(1977)
2	Marketing Geography, Rawat Publication, Jaipur	Saxena H. M. (1990)
3	Geography of Markets centers and Retail distribution, Prentice Hall, Englewood N.J.	Berry B.J.L. (1964)
4	Periodic Markets, Daily Markets and fairs A bibliographic centre for development studies, swan sec	Bronmtey. R. J. (1975)
5	Marketing Geography, Mathewe & Co. London	Daview R.L. (1976)
6	Market towns and spalial development in India, N.C.A.E.R. New Delhi	N.C.A.E.R. (1983)
7	Spatial organization of market centres.	Dixit R.S. (1988)

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KBP- OET 3.1 - Paper-XII - Cultural Geography

(Teaching $\overline{\text{Hours}} - 60$, $\overline{\text{Credit}} - 04$)

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- 1) To understand diversity of culture in the world as well as in India.
- 2) To comprehend the diffusion of various ethnic traits and religions.
- 3) To understand the relationship between culture and pattern of living and economic development.

Unit I: Introduction to Cultural Geography

15

- 1.1 Evolution, definition, nature, scope
- 1.2 Element and component of culture
- 1.3 Significance of cultural Geography

Unit II: Cultural Landscapes

15

- 2.1 Bases of cultural diversity, Race, Religion and language
- 2.2 Cultural diversity and regionalization in India
- 2.3 Concept of cultural hearths and cultural diffusion
- 2.4 world cultural realms

Unit III: Cultural Structure

15

- 3.1 Socio-Cultural development and wellbeing indicators
- 3.2 Cultural pattern of rural and urban society
- 3.3 Social and cultural processes in the developing countries with special reference to India

Unit IV: Cultural Dimensions

15

- 4.1 Tribal groups, diffusion of Religion and Ethnic traits in the world.
- 4.2 Economic activities and cultural adaptation- Agricultural, Industrial and modern technological changes and their geographic implications.

Learning outcome: -

- 1. Student will explain fundamentals and importance of Cultural geography.
- 2. Student will interpret the knowledge of cultural diversity
- 3. Student will analyze cultural processes and pattern.
- 4. Student will examine the cultural dimensions

Sr.	Name of Books	NI CA II		
No.	Name of Books	Name of Authors		
1	Social Geography, Rawat Publication Jaipur	Ahmad Aijarudin (1999)		
2	A Geography of Mankind, Mc-grew-K Book Co. New York	Broek, Jan O. M. & Webb. John W. (1973)		
3	An introduction to cultural Geography, Unwin Hyman London.	Jackson Peter (1989)		
4	Cultural geography, - People places and Environment west Publishing Co. New york.	Jackon, Richard H and Loyd E. Hudman (1990)		
5	An Introduction to Social Geography, - Oxford University Press Oxford.	Jones, Emrys and Eyles John (1997)		
6	Human Geography – Rawat Publication Jaipur.	Majid Hussain (1994)		
7	India culture Society and economy Inter India Publication, New Delhi	Mukherjee A. B.K. Arijazuddin A (1985)		
8	A place in the world cultures and Globalization, Oxford University, New York	Massey D. K. Jess P. (1995)		
9	Cultural Geography – Rout, leldge, Publication, London.	Crang Mike (1998)		

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M. A. II SEMESTER-III

KBP- OET 3.2 - Paper-XII - Commercial Geography

(Teaching Hours – 60, Credit – 04)

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Learni	ng ol	pjecti	ves:

 To understand the basic concept of commercial Geography. To make the student of commerce aware about the relationship between the geographical factors and economic activities. 	
 To acquaint the student about dynamic aspect of commercial Geography. To provide the information about concept of population and tourism. 	96 D
Unit I: Introduction to Commercial Geography	15
1.1 Definition, Nature and Scope of Commercial Geography	
1.2 Approaches to the study of Commercial Geography	
1.3 Importance of Commercial Geography	
Unit II: Geographical environment and Commerce	15
2.1 Physical and Cultural Environment	
2.2 Classification of economic activities	
2.3 Contribution of economic activities in national development	
Unit III: Trade, Transport and Industries	15
3.1 Geographical factors affecting on international trade	
3.2 India's foreign trade	
3.3 Major International Rail, Sea & Air routs	

- 3.4 Importance of transportation in commercial development
- 3.5 Major industries in India-Iron &steel, Cotton Textile, Automobile, IT Industries

Unit IV: Population and Tourism

15

- 4.1 Concept of optimum population, over population and under population
- 4.2 Geographical factor influencing tourism
- 4.3 Tourism industry and Agro-tourism in India.

Learning outcome: -

- 1. Student will describe basic concept of Commercial Geography
- 2. Student will illustrate the Correlation between Geographical environment and Commerce
- 3. Student will explain the roll of trade, transport and industries in commercial Geography.
- 4. Student will explain an importance of Population dimensions and tourism industries in Commercial Geography.

References:

- 1. Alexander J.W. (1976): Economic Geography, Prentice hall of India, New Delhi.
- 2. Robinson H & Bamford C.G. (1978): Geography of Transport, Macdonald &Evans USA.
- 3. Commercial Geography Sir Dudley Stamp
- 4. Economic and Commercial Geography Gupta
- 5. Watts H.D.(1987): Industrial Geography, Longman Scientific & Technical New York

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KBP- HCP 3.1 - (Practical Paper No. IX) – Quantitative Techniques in Economic Geography

(Teaching Hours – 45, Credit – 02)

Learning objectives:

- 1) To understand the students to the quantitative techniques in agricultural geography.
- 2) To acquaint the student to the quantitative techniques applied in marketing geography.

Unit I: Quantitative Techniques in Agricultural Geography

25

- 1.1 Measurement of agricultural productivity- Kendall's method, Sapre and Deshpande's method.
- 1.2 Crop Combination method of Weaver and Doi.
- 1.3 Crop Concentration-Bhatia's method.
- 1.4 Crop Diversification-Bhatia's method

Unit II: Application of Quantitative Techniques in Marketing Geography

20

- 2.1 Basic Gravity Model.
- 2.2 Law of Retail Gravitation
- 2.3 Breaking Point Theory
- 2.4 Accessibility of Transport network.

Journal

Learning outcome: -

- 1. Students will measure the agriculture productivity, crop combination, crop concentration and crop diversification methods by various Quantitative Techniques.
- 2. Student will examine the quantitative Techniques in Marketing Geography

Sr. No.	Name of Books
1	Gregary, S. Statistical Methods and the Geographers. Longman Group Ltd.
2	Hammond. R and McCullogh,-Quantitative Techniques in Geography: an

	introduction, Clarendon Press, Oxford.
3	Woodcock R. G. & Bailey M. J. – Quantitative Geography, Mac Donald & Erans Ltd. London.
4	Elhance D. N. – Fundamentals of Statistics, KitabMahal, Allahbad.
5	Mahmood Aslam Statistical Methods in Geography.
6	Cole and king-Quantitative Geography.
7	Saxena. H. M. Geography of Marketing; Concepts and methods, New Delhi
8	Singh Jasbir-An Agricultural Geography, Vishal Publication, Kurukshetra.
9	Clarke. J. I. – Population Geography, Pergamoh Press, London.
10	Chandana and siddhu – Population Geography

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M. A. II SEMESTER-III

KBP- HCP 3.2 - (Practical Paper No. X) – Introduction to Computer (Teaching Hours – 45, Credit – 02)

Learning objectives: -

- 1) To understand the terms, concepts, involved in computer.
- 2) To familiarize the student with Internet, Browser and web page.

Unit I: Introduction to computer

25

- 1.1 Definition, characteristics, operating system, Introduction to Dos, Window, excel.
- 1.2 Application of computer in Geography

Unit II: Computer and Network

20

2.1 Importance of information technology in Geographical studies - advantages of Internet. Browsing and surfing the geographical sites Web page. Downloading files

Journal

Learning outcome: -

- 1. Student will explain fundamental concepts and application of computer.
- 2. Student will describe basic facts of computer Networking.

Sr. No.	Name of Books	Name of Authors
1	Computer Programming for Geographer, Longman London	D. J. Unwin & J. A. Dawson (1987)
2	Computer in Geography, Longman Scientific and Technical, London.	David J. Magthre (1989)
3	Computer Application in Gegraphy, Jahn Wiley & Sons, New York U. S. A.	Paul M. Mather (1993)
4	Quantitative Geography	Cole and King (1968)
5	Quantitative Technique in Geography, Clarendon press – Oxford	Himmond B. (1974)
6	Computer System and Application,	Rustan Shorff
7	Computer System a Application, BPB publication, new Delhi	Sinha & Sinha (2005)

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KBP- SCP 3.1 - (Practical Paper No. XI) – Applications of Computer in Geography (Teaching Hours – 45, Credit – 02)

Learning objectives: -

- 1) To families with geographical data and data structure.
- 2) To acquaint the student to the computer cartography.

Unit I: Computer and Geographic data

20

1.1 Scale of measurement- Nominal, Ordinal, Interval, Ratio; Data Structure, Location of data.

Unit II: Computer in Cartography

25

- 2.1 Simple exercise for representation of Geographical data: Histogram, Bar graph, line graph, multiple line graph, scatter diagram, pie chart (diagram).
- 2.2 Computation Analysis: Measures of central tendency, Quartile deviation, standard deviation, correlation 'r' value and trend line with help of computer.

Journal

Learning outcome: -

- 1. Student will explain the representation of geographic data using various computational methods by computer.
- 2. Student will apply knowledge to prepare and design maps and graphs with the help of computer software

Sr. No.	Name of Books	Name of Authors
1	Computer Programming for Geographer, Longman London	D. J. Unwin & J. A. Dawson (1987)
2	Computer in Geography, Longman Scientific and Technical, London.	David J. Magthre (1989)
3.	Computer Application in Gegraphy, Jahn Wiley & Sons, New York U. S. A.	Paul M. Mather (1993)
4	Quantitative Geography	
5	Quantitative Technique in Geography, Clarendon press – Oxford	Cole and King (1968)
6	Computer System and Application,	Himmond B. (1974)
7	Computer System a Application, BPB publication, new Delhi	Rustan Shorff
	Delhi a reprication, BPB publication, new Delhi	Sinha & Sinha (2005)

Karmaveer Bhaurao Patil Mahavidyalaya, Pandharpur (Autonomous) Department of Geography M. A. II SEMESTER-III

KBP- SCP 3.2 - (Practical Paper No. XI) – Map Projection and Cartography (Teaching Hours – 45, Credit – 02)

Learning objectives: -

- 1. To understand terms and types of map projection.
- 2. To aquatint the students to the cartographic techniques.

Unit I: Map Projection

25

- 1.1 The Earth: its shape and size; Datum and co-ordinate systems; Geographical co-ordinate, Projected Co- ordinate and grid system.
- 1.2 Choice and classification of map projections.
- 1.3 Construction, properties and uses of projections: 1) Stereographic Polar Zenithal projection. 2) Orthographic Polar Zenithal Projection. 3) Bonne's Conical Projection.4) Conical Equal Area Projection with one standard Parallel 5) Simple Cylindrical Projection. 6) Cylindrical Equal Area Projection.

Unit II: Cartography

20

- 1.1 History and Development of Cartography
- 1.2 Sources of cartographic data, Scale: types & importance, Cartographic methods and techniques for preparation of maps and diagrams, General maps
- 1.3 Types and applications, Thematic maps: types and applications

 Journal

Learning outcome: -

- 1. Student will illustrate the structural arrangement of Geographical co-ordinate systems and map projections
- 2. Students will express knowledge about various cartographic techniques for preparation of maps and diagrams.

References:

- 1. Hofmann-Wellenhof, B., and Moritz, H. (2006):Physical Geodesy (2nd d.),springer, 420pp.
- 2. Iliffe, J., and Lott, R. (2008): Datums and Map Projections for Remote sensing, GIS, and Surveying (2nd Ed.), Whittles Publishing, 192pp.
- 3. Kaplan, E.D., and Hegarty, C.J. (2006): Understanding GPS: Principles and Applications (2nd Ed.), Artech house, Norwood, MA, USA, 724pp.
- 4. Kimerling, J., Buckley, A.R., Muehrcke, P.C., and Muehrcke, J.O. (2011): Map Use: Reading, Analysis, Interpretation (7th Ed.), ESRI Press, 620pp.
- 5. Krygier, J., and Wood, D. (2011): Making Maps: A Visual Guide to Map Design for GIS (2nd Ed.), The Guilford Press, New York, 256pp.
- 6. Lo, C.P., and Yeung, A.K.W. (2006): Concepts and Techniques of Geographic Information Systems (2nd Ed.), Prentice hall, 544pp.
- 7. Misra, R.P., and Ramesh, A. (1999): Fundamentals of Cartography, Concept Publishing, New Delhi.
- 8. Nathanson, J.A., Lanzafama, M., and Kissam, P. (2010): Surveying Fundamentals and Practices (6th Ed.), Prentice Hall, 360pp.
- 9. Robinson, A.H., Morrison, J.L., Muehrcke, P.C., Kimerling, A.J., and Guptill, S.C. (1995): Elements of Cartography (6th Ed.), Wiley, New York, 688pp.
- 10. Singh, R.L., and Singh, R.P.B.(1993): Elements of Practical Geography, Kalyani Publishers, New Delhi, India.
- 11. Slocum, T.A., Mc Master, R.B., Kessler, F.C., and Howard, H.H. (2008): Thematic Cartography and Geovisualization (3rd Ed.), Prentice Hall, 576pp.
- 12. Dent, B., Torguson, J., and Hodler, T. (2008): Cartography: Thematic Map Design (6th Ed.), McGraw-Hill, 368 pp.

Karmaveer Bhaurao Patil Mahavidyalaya, Pandharpur (Autonomous) Department of Geography

M. A. II SEMESTER-III

KBP- OEP 3.1 - (Practical Paper No. XII) – Quantitative Techniques in Population and Settlement Geography

(Teaching Hours -45, Credit -02)

Learning objectives: -

- 1) To understand the students to the quantitative techniques in population geography.
- 2) To acquaint the student to the quantitative techniques applied in settlement geography.

Unit I: Quantitative Techniques in Population Geography

25

- 1.1 Measurement of birth rates, age-specific, crude
- 1.2 Measurement of death rates
- 1.3 Population projection by semi Average method.
- 1.4 Population projection by Least Squares method.
- 1.5 Lorenz Curve.

Unit II: Quantitative Techniques in Settlement Geography

20

- 2.1 Nelson's method of functional classification of towns.
- 2.2 Nearest Neighbour Analysis.
- 2.3 Rank-Size Rule

Journal

Learning outcome: -

- 1. 1. Students will measure birth rates, death rates, Population projection by various Quantitative techniques.
- 2. Student will examine the various quantitative Techniques in Settlement Geography

Sr. No.	Name of Books
1	Gregary, S. Statistical Methods and the Geographers. Longman Group Ltd.
2	Hammond. R and Mc Cullogh,-Quantitative Techniques in Geography: an introduction, Clarendon Press, Oxford.
3	Woodcock R. G. & Bailey M. J Quantitative Geography, Mac Donald & Erans Ltd. London.

4	Elhance D. N. – Fundamentals of Statistics, Kitab Mahal, Allahbad.
5	Mahmood Aslam Statistical Methods in Geography.
6	Cole and king-Quantitative Geography.
7	Saxena. H. M. Geography of Marketing; Concepts and methods, New Delhi
8	Singh Jasbir-An Agricultural Geography, Vishal Publication, Kurukshetra.
9	Clarke. J. I. – Population Geography, Pergamoh Press, London.
10	Chandana and Siddhu – Population Geography
	,

Karmaveer Bhaurao Patil Mahavidyalaya, Pandharpur (Autonomous) Department of Geography

M. A. II SEMESTER-III

KBP- OEP 3.2 - (Practical Paper No. XII) - Global Positioning System and Geographical Information System

(Teaching Hours -45, Credit -02)

Learning objectives: -

- 1. To be aware of advanced techniques in geography.
- 2. To understand the use of GIS and GPS techniques in planning and development purposes.

Unit I: Introduction to GPS

20

- 1.1 Types of GPS; GPS satellite; data receiver and control points;
- 1.2 Differential GPS; Sources of GPS errors;
- 1.3 Application of GPS in surveying, mapping and navigation.

Unit II: Cartographic Techniques with the help of GIS

25

- 1.1 Introduction to ArcGIS and KOSMO, To Prepare following Maps with the help of Arc-GIS and KOSMO- Choropleth Map: i) Shading ii) Colour 2. Dot Map 3. Transformation of Dot map into Isopleths Map 4. Proportional Circle Map: 2D and 3D
- 1.2 Cartographic Techniques in Population Geography: Preparation of Following Maps: 1. Density of Population 2. Concentration of Population 3. Sex Ratio 4. Proportion of Category wise Population 5. Religion wise composition 6. Literacy Rate

Learning outcome: -

- 1. Student will explain concept, components and application of GPS.
- 2. Student will underline application of GIS to sketch the maps by using GIS software's.
- 3. Student will formulate different cartographic techniques with the help of GIS

References:

- 1. Bolstad, P. (2007)GIS Fundamentals: A First Text on Geographic Information Systems (3rd Ed.), Eider Press.
- 2. Brewer, C. (2005): Designing Better Maps: A Guide for GIS Users, ESRI Press.
- 3. Demers, M.N. (2008): Fundamentals of Geographical Information Systems (4th Ed.), Wiley.

- 4. Diggelen, F. (2009):A-GPS: Assisted GPS, GNSS, and SBAS, Artech House, Norwood, MA, USA, 400pp.
- 5. El-Rabbany, A. (2002): Introduction to GPS: the Global Positioning System, Artech House, Norwood, MA, USA, 194pp.
- 6. Heywood, I., Cornelius, S., and Carver, S.(2011): An Introduction to Geographical Information System (4th Ed.), Prentice hall, 446pp.
- 7. Longley, P.A., Goodchild, M., Maguire, D.J., and Rhind, D.W. (2010): Geographic Information Systems and Science (3rd Ed.), Wiley, Chichester, UK, 560pp.
- 8. Reddy, M.A. (2008): Textbook of Remote Sensing and Geographical Information System (3rd Ed.), BS Publications, Hyderabad, 476pp.
- 9. Taylor, G., and Blewitt, G. (2006): Intelligent Positioning: GIS-GPS Unification, Wiley, Chichester, UK, 194pp.

Karmaveer Bhaurao Patil Mahavidyalaya, Pandharpur (Autonomous) Department of Geography M. A. II SEMESTER-IV

KBP- HCT 4.1 - Paper XIII – Regional Planning and Development in India (Teaching Hours – 60, Credit – 04)

Learning objectives: -

- 1) To understand and evaluate the concept of region in geography.
- 2) To understand the role and relevance of region in regional planning.
- 3) To identify the causes of regional differences in development, perspectives & policy imperatives.
- 4) To understand the problems of regional development.

Unit I: The Region

15

- 1.1 Concept of Region, Characteristics
- 1.2 Types of Region-Formal or Natural and Functional
- 1.3 Classification of Region-Based on Physical, Cultural and Physical-Cultural Variation, Hierarchy of Region.
- 1.4 Planning-Concept, Types, Regional planning-Concept and Approaches.

Unit II: Growth and Development

15

- 2.1 Concept of Growth and Development
- 2.2 Indicators of Development, Measurement of Regional Development
- 2.3 Regional imbalances in India-Agricultural and Industrial.

Unit III: Theoretical Framework for Regional Planning

15

- 3.1 Spread and Backwash Concept
- 3.2 Central Place Theory
- 3.3 Growth Pole Theory and Growth Foci Approach.

Unit IV: Multi-level Planning

15

- 4.1 Concept of Multi-level Planning
- 4.2 Role of Panchayat Raj System in Regional Development (Village, Tahsil and District)
- 4.3 Regional Development in India and Maharashtra-Problems and Prospects
- 4.4 Regional Development in Macro, Meso and Micro level- Problems and Prospects.

Learning outcome: -

- 1. Student will describe basic concept of Region and Regional planning
- 2. Student will illustrate the Indicators of Development in regional planning and Regional imbalances in India.
- 3. Student will examine the application of theories in Regional Planning

4. Student will explain the Multi-level Planning in Regional Planning Reference Books

	ceterence Books		
Sr.	Name of Books		
No.			
1	Dhot I G (1070) D		
	Bhat L.S.(1973): Regional Planning in India, Statistical Publishing Society, Calcutta		
2	Chand M. &Puri V.(1985): Regional Planning in India Allied Publishers Ltd., New		
	Delhi.		
3	Gosal, G.S. and Krishan, G: Regional Disparities in Levels of Socio-economic		
	Development in Punjab, Vishal Publication, Kurukshetra, 1984.		
4	Government of L. 1: Plant in the content of the con		
-	Government of India, Planning Commission: Third Five Year Plan, Chapter on		
	Regional Imbalances in Development, New Delhi 1961.		
5	Kuklinski, A.R. (ed.) Growth Polos and G.		
	Kuklinski, A.R. (ed.) Growth Poles and Growth Centres in Regional Planning		
	Mouton, The Hague, 1972		
6	Regional Planning concepts Techniques, Polies and case studies concept publishing		
	crop New Delhi 1992		
7	Misra, R. P. and Other (editors) Regional Development Planning in India – A		
	Strategy. Institute of Development Studies Mysore, 1974.		
8	Mymdal C. E		
в	Myrdal, G: Economic Theory and Under Development Regions Gerald Dockworth,		
	London 1957		

Karmaveer Bhaurao Patil Mahavidyalaya, Pandharpur (Autonomous) Department of Geography

M. A. II SEMESTER-IV

KBP- HCT 4.2 - Paper XIV - Development of Modern Geography (Teaching Hours -60, Credit -04)

Learning objectives: -

- 1) To introduce the students to the philosophical and methodological foundations of the subject & its place in the world of knowledge.
- 2) To familiarize student with the major land marks in development of geographic thought at different periods of time.

Unit I: Development of Modern Geography: Introduction

15

- 1.1 The field of Geography: Its place in the classification of sciences
- 1.2 Development of Geography through ages, the ancient and medieval period
- 1.3 Age of exploration and impact of discoveries on the development of geography.

Unit II: Dichotomy in Geography

15

- 2.1 Rise of Dualisms in Geography, dualism the myth & realism, dualism between Regional & Systematic Geography, dualism between Physical and Human geography.
- 2.2 Development of concepts: Environmental-determinism, Possibilism

Unit III: Founders of Modern Geography

15

Carl Ritter, Alexander Von. Humboldt, Vidal-de-la-Blache, H. J Mackinder, Richard Hartshorne

Unit IV: Recent trends in Modern Geography

15

- 4.1 Approaches in Geography: i) Positivism ii) Humanism iii) Radicalism, iv) Behaviouralism
- 4.2 Measurement and explanation in Geography: Laws, theories and models in geography - Quantitative revolution
- 4.3 Paradigms & Philosophy in Geography

Learning outcome: -

- 1. Student will describe the initial development Stage of modern Geography
- 2. Student will distinguish dichotomies in modern Geography
- 3. Student will explain contribution of eminent Geographers in the development of modern Geography.

4. Student will analyze recent trends in modern Geography Reference Books

Sr. No.	Name of Books
1	Abler, Ronald; Adams, Johan, S. Gould, Pater, Spatial Organization; The Geographer View of the World, Prentice Hall, N. J. 1971.
2	Ali, S.M. The Geography of Puranas, Peoples Publishing House, Dalk: 1066
3	Amedeo, Douglas: An Introduction to Scientific Reasoning in Geography, John Wiley, U.S.A. 1971.
4	Dikshit, R.D. (ed) The Art & Science of Geography-Integrated Readings, Prentice Hall of India, New Delhi, 1994
5	Hartshorne, R.: Perspectives on Nature of Geography, Rand MC Nally & Co. 1959.
6	Husain, M: Evolution of Geographic Thought Rawat Pub. Jaipur, 1984
<u>'</u>	omiston, R.J. Philosophy and Human Geography Edward Arnold Land 1995
	The Future of Geography Methoun, London, 1988
) 1	Minshull, R. The Changing Nature of Geography, Hutchinson University Library, condon, 1970.

Karmaveer Bhaurao Patil Mahavidyalaya, Pandharpur (Autonomous) Department of Geography M. A. II SEMESTER-IV

KBP- HCT 4.3 - Paper XV - Political Geography

(Teaching Hours -60, Credit -04)

Learning objectives: -

- 1. To understand the basic concepts in political geography.
- 2. To enhance awareness of Multi-dimensional nature of geo-political space.
- 3. To make acquaint the students with nature of Geographical factors influencing the geo-political situations in India and world.

Unit I: Introduction to Political Geography

15

- 1.1 Definition, Nature and Scope of Political Geography
- 1.2 Approaches of the study Political Geography
- 1.3 Recent trends in political geography
- 1.4 Geographic elements and the state: physical, human and economic elements
- 1.5 Political Geography and environment interface.

Unit II: Themes in Political Geography

15

- 1.1 State and nation, nation-state Nationalism, nation building, Frontiers and Boundaries,
- 1.2 Capital-Classification, functions & world power perspectives on one core periphery

Unit III: Theoretical Framework of Political Geography

15

- 3.1 Global Strategic Models (Theory of Heartland),
- 3.2 Spykman and Mahans Sea power concept, its relevance to contemporary, world situation
- 3.3 Geopolitical significance of Indian Ocean, Political Geography of SAARC region, south-east Asia, West Asia.

Unit IV: Recent Issues in Political Geography

15

- 4.1 Political geography of contemporary-India with special reference to: the changing Political map of India.
- 4.2 Unity-diversity, central and centrifugal forces, Stability and instability, Inter-state issues (like water disputes, riparian claims) and conflicts resolutions, Insurgency in border state, emergence of new states, federal India- Unity in diversity.

Learning outcome: -

- 1. Student will describe the Fundamentals of Political Geography.
- 2. Student will explain themes and concepts of Political Geography.
- 3. Student will underline Theories and Geopolitical significance of different places in political Geography.
 - 4. Student will analyze recent issues in Political Geography.

Reference Books

No.	Name of Books		
1	Bhagwati, J. N. (Ed) New International Economic Order – The North –South Debate M.I.T. Press, London, 1976.		
2	Dikshit, R.D. Political Geography: A Contemporary Perspective, Tata McGraw-Hill Publishing Company. New Delhi, 1982		
3	Glassner M.I. Political Geography, John Wiley, New York, 1993		
4	Panikkar, K.M. Geographical factors in Indian History. Bharatiya Vidya Bhavan, Bombay, 1956		
5	Pounds N.T. Political Geography McGraw Hill, New York, 1972		
6	Prescott, J.R.V. Political Geography Methouen & Co. London, 1972		
7	Schwartzberg, J.E. A Historical Atlas of South Asia, University of Chicago Press, U.S.A. 1993.		
8	Short J. R. An Introduction to Political Geography, Routledge and Kegan Paul, London, 1982		
9	Taylor P. J. (Ed), Political Geography of the 20th Century – A Global Analysis, New York 1993.		
0	Taylor, Peter: Political Geography, Longman, London, 1985.		
1	William C.H. (Ed), Political Geography of the New World Order Halsted Ben, New York, 1993.		

Pedagogy: -

- Fieldwork to understand the political/administrative boundary configurations and people problems and perceptions.
- Consult political maps (Large and small scale)
- Atlases and archival records.
- · Collect relevant newspapers items for group discussion.
- Prepare pin-up board for display of important events of geopolitical nature.

Karmaveer Bhaurao Patil Mahavidyalaya, Pandharpur (Autonomous) Department of Geography M. A. II SEMESTER-IV

KBP-SCT 4.1 - Paper XV - Geography of Tourism

(Teaching Hours -60, Credit -04)

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Learning	OD	iective:	-

- 1) Acquiring the knowledge of different Tourist places in the World.
- 2) To understand emerging developing tourism industry.
- 3) To understand the scope and role of tourism in World as well as Indian Economy.
- 4) To familiarize students with tourism industry.
- 5) Encouraging the students to involve in tourism industry.

Unit I: Basics of Tourism

15

- 1.1 Definition of tourism; Factors influencing on tourism:
- 1.2 Types of tourism-cultural, coastal, Concept of Agro-Tourism and Pro-Poor Tourism,
- 1.3 Elements of tourism as an industry.

Unit II: Tourism in India

15

- 2.1 State wise regional dimensions of tourist attractions; promotion of tourism. (Roll of Center and State) Resources & growth of tourism,
- 2.2 Tourism policies in India. .
- 2.3 Role of Infrastructure and support system- accommodation and supplementary accommodation; other facilities and amenities
- 2.4 Tourism circuits-short and longer detraction Agencies and intermediacies.

Unit III: Impacts of tourism

15

- 3.1 Physical, economic and social and perceptional;
- 3.2 positive and negative impacts
- 3.3 Globalization and tourism.- Role of foreign capital and impact of globalization on tourism. Impact of tourism on Indian Economy

Unit IV: Tourism in Maharashtra

15

- 4.1 Geographical, historical and cultural factors influencing tourism.
- 4.2 Types of tourism
- 4.3 Impact of tourism on environment
- 4.4 Physical and cultural any one Project report on relevant topic such as impact of

Tourism on Drought Prone Area Development, Rural Tourism, Agro-Tourism, lakes, historical, cultural centers & beaches in the State of Maharashtra.

Learning outcome: -

- 1. Student will describe the general features of tourism
- 2. Student will illustrate the Scenario of tourism development in India.
- 3. Student will analyze the Positive and negative impacts of tourism
- 4. Student will explain tourism status of Maharashtra.

Reference Books

Sr.	Name of Book		
No.			
1	Bhatia A.K.: Tourism Development Principles and Practices; Sterling Publishers,		
	New Delhi 1996.		
2	Bhatiya, A.K. International Tourism - Fundamentals and Practices; Sterling New		
	Delhi (1991).		
3	Chandra R.H.: Hill Tourism Planning and Development Kanishka publishers; New		
	Delhi – 1998.		
4	Kaul R.K. Dynamics of Tourism & Recreation Inter-India New Delhi 1985.		
5	Kaul J: Himalayan Pilgrimages & New Tourism; Himalayan Books, New Delhi		
	1985.		
6	Lea. J.: Tourism and Development in the Third World, Routledge, London 1988.		
7	Milton D: Geography of World Tourism Prentice Hall, New York 1993.		
8	Pearce D.G.: Tourism To-day A Geographical Analysis, Harlow, Longman, 1987.		
9	Robinson, H. A.: Geography of Tourism, Macdonald and Evans, London, 1996.		
10	Sinha P.C. (ed): <u>Tourism Impact Assessment</u> , Anmol Publishers, New Delhi, 1998.		

Pedagogy: -

- Students may be encouraged to gain firsthand knowledge from filed excursions. An assignment may be given to the students in one of the followings.
 - a) Visit to a tourist center and talk to some tourists and to write a report.
 - b) Collect the tourist pamphlets and maps from tourism-promotion agencies and to make a review on contents.
 - c) Visit to a tourist place and to list and map the work generation and problems and to suggest remedial measures.

- d) Study tourism development policy and plans of government of India and the states with which the students is familiar and provide a geographers view point.
- e) Visit to Ajanta/Ellora/Pandharpur/Tuljapur/Akkalkot / Beaches etc.

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M. A. II SEMESTER-IV

KBP- SCT 4.2 - Paper XVI – Geography of Manufacturing (Teaching Hours – 60, Credit – 04)

Learning objective: -

- 1. To introduce the nature, development and significance of manufacturing and its links with the world economy.
- 2. To understand the location of major manufacturing activities with the support of various industrial location theories and models.
- 3. To discuss problems and impact of manufacturing industries with respect to relocation environmental pollution and occupational health and industrial hazard.

Unit I: Introduction to Geography of Manufacturing

15

- 1.1 Meaning, Nature, Scope and Recent developments of Manufacturing,
- 1.2 Factors of localization of manufacturing industries
- 1.3 Inter-relationship between the manufacturing and economic development.

Unit II: Theoretical Framework of Manufacturing Geography

15

- 2.1 Theories and models of industrial location: (a) A. Webar, (b) A. Losch; Modern refinements to Least cost-theory,
- 2.2 Critical review and application of industrial location theories,
- 2.3 Methods of measuring the spatial distribution of manufacturing industries:- (a) Standard Industrial Classification, (b) Neo-classical theory.

Unit III: Pattern of Manufacturing Industries

15

- 3.1 Distribution and spatial pattern of manufacturing industries: (a) Iron & steel,(b) Textiles, (c) Chemicals, (d) Automobiles, (e) Hardware & software- industries, with special references to U.S.A., Japan, U.K. & India,
- 3.2 Methods of delineating manufacturing regions
- 3.3 Major manufacturing regions of the world

Unit IV: Impacts of Manufacturing Industries

15

4.1 Environmental degradation caused by manufacturing industries:(a) Industrial Hazards (b) Occupation and health,

- 4.2 Impact of manufacturing industries on economic development in India.
- 4.3 Effects of Privatization, Liberalization and Globalization on Indian Industries, 4) Changing Industrial Policy in India.

Learning outcome: -

- 1. Student will describe general features of Geography of manufacturing.
- 2. Student will explain theoretical roll in Geography of manufacturing.
- 3. Student will underline Patterns of major manufacturing industries and industrial regions in the world.
- 4. Student will analyze impacts of manufacturing industries.

Reference Books

Sr.	Name of Books		
No.			
1	Alexander, J.W.: Economic Geography, Prentice Hall, Englewod Cliffs, 1988.		
2	Alexanderson, C: Geography of Manufacturing, Prentice Hall, Bombay, 1967.		
3	Hoover, E,M The location and space economy, McGraw Hill, New York 1948.		
4	Isard, W.: Methods of Regional Analysis, The Technology Press of M.I.T. & John Wiley &		
ū,	Sons, New York 1956.		
5	Miller, E. A., Geography of Manufacturing, Prentice Hall, Englewood Cliffs, New Jersey. 1962.		
6	Weber, Alfred: Theory of Location of Industries, Chicago University Press, Chicago, 1957.		

Pedagogy: -

• The teachers should take the students to neighboring industrial area and appraise them the functioning of various industries, difficulties and environmental problems of industries.

Karmaveer Bhaurao Patil Mahavidyalaya, Pandharpur (Autonomous) Department of Geography M. A. II SEMESTER-IV

KBP- HCP 4.1 - Practical Paper No. XIII – Introduction to Remote sensing and GIS (Teaching Hours – 45, Credit – 02)

Learning objectives:-

- 1) Make students familiar with concept of Remote Sensing and its use in present Geographic studies.
- 2) To give detailed knowledge about Aerial photography.
- 3) Make students familiar with concept of Geographical Information System.

Unit I: Remote Sensing

25

- 1.1 Concept of Remote Sensing
- 1.2. Advantages and limitations of Remote Sensing
- 1.3. Application of Remote Sensing in Geography
- 1.4. Types of Platform and Sensors
- 1. 5. Elements of Aerial Photo interpretation

Unit II: Geographic Information System:

20

- 2.1 Definition,
- 2.2 Purpose,
- 2.3 Advantages and disadvantages
- 2.4 Data Structure-Raster and Vector
- 2.5 Components of GIS- Data input and Data Management

Learning outcome: -

- 1. Student will illustrate the structural arrangement and application of the Remote Sensing.
- 2. Student will explain general features of GIS.

Sr.	Name of Books		
No.			
1	Barrett E.C. and L.F. Curtis (1992): Fundamentals of remote sensing and air		
	photo interpretation – Mcmillon, New York		
2	Curran Paul. J. (1985): <u>Introduction of remotes sensing</u> , londman, London.		
3	Comphell J. (1989): <u>Introduction to remote sensing</u> , Fuildord, New York.		

4	Lillesand I. M. and kiefer R. W. (1979): Remote sensing and image		
	interpretation, John Willey & Sons New York		
5	Leuder D.R. (1959): Areal Photographic interpretation, Mc grew Hill Book		
	Company, New York.		
6	Saini R. R. Kalwar S. C. (1991): Remote sensing in geography, pointer		
	Publishers, Jaipur.		
7	Sabins F. F. Jour (1987): Remote sensing principal of interpretation, (II edition)		
	W.H. Freeman and Company, New York.		
8	Ian, Haywood & others (2006): Geographical Information System, pearson		
	Education, Inc., Delhi.		
9	Jamwal, Anil K. (2008): Geographical Information System, JnanadaPrakashan,		
	New Delhi.		

Karmaveer Bhaurao Patil Mahavidyalaya, Pandharpur (Autonomous) Department of Geography M. A. II SEMESTER-IV

KBP- HCP 4.2 - Practical Paper No.XIIV – Application of Remote Sensing (Teaching Hours – 45, Credit – 02)

¥	•		7.
Lear	ning	objec	ctives:-

1)	Make students familiar	with concept of Remote Sensing and its u	ise in present
	Geographic Studies.		at a

- 2) To give detailed knowledge about Aerial photography.
- 3) Make students familiar with concept of Geographical Information System.

Unit I: Indexing of aerial photographs	0
Unit II: Tracing with naked eyes.	03
Unit III: Photogrammetry	2(
3.1 Determination of scale by various methods,	
3.2 Determination of height of object	
3.3 Relief displacement and height determination,	
3.4 Introduction to parallax, parallax measurement and height determination	
3.5 Determination of overlap. Determination of photo coverage area and cost of	
photographs.	
Unit IV: Interpretation and mapping of aerial photographs	5
4.1 Land use and land cover	
4.2 Relief and landforms	
4.3 Significance of drainage	
4.4 Cultural landscape mapping	
4.5 Rock types lineament and structure	
Unit V: Visual interpretation of satellite image.	5
a) Land use, b) Landforms	
Learning outcome: -	
 Students will express knowledge about Indexing and Photogrammetry of aerial photographs. Student will interpret the knowledge of Interpretation and mapping of perial 	

photographs.

3. Student will explain visual interpretation of satellite image.

Sr.	Name of Books	
No.	Traine of Dooks	
110.		
1	Barrett E.C. and L.F. Curtis (1992): Fundamentals of remote sensing and air photo	
	interpretation – Mcmillon, New York	
2	Curran Paul. J. (1985): <u>Introduction of remotes sensing</u> , londman, London.	
3	Comphell J. (1989): Introduction to remote sensing, Fuildord, New York.	
4	Lillesand I. M. and kiefer R. W. (1979): Remote sensing and image interpretation,	
	John Willey & Sons New York	
5	Leuder D.R. (1959): Areal Photographic interpretation, Mc grew Hill Book	
8	Company, New York.	
6	Saini R. R. Kalwar S. C. (1991): Remote sensing in geography, pointer Publishers,	
	Jaipur.	
7	Sabins F. F. Jour (1987): Remote sensing principal of interpretation, (II edition) W.H.	
	Freeman and Company, New York.	
8	Ian, Haywood & others (2006): Geographical Information System, pearson	
	Education, Inc., Delhi.	
9	Jamwal, Anil K. (2008): Geographical Information System, Jnanada Prakashan, New	
	Delhi.	

Karmaveer Bhaurao Patil Mahavidyalaya, Pandharpur (Autonomous) **Department of Geography** M. A. II SEMESTER-IV

KBP- HCP 4.3 (MP) - Practical Paper No. XIV - Research Methodology and Project Report

(Teaching Hours – 90, Credit – 04)

Section I: Research Methodology

Unit I: Fieldwork and data Collection

40

- 1.1 Significance of fieldwork in geography
- 1.2 Types of fieldworks (Macro, Meso and Micro) Importance of data
- 1.3 Types of data, methods of data collection
- 1.4 Presentation and Interpretation of data.

Unit II: Report Writing

60

- 2.1 Importance of Sampling in Research
- 2.2 Types of sampling methods
- 2.3 Format of project report, preliminary section, the text and reference Section, Style of writing, quotation, foot notes, reference and bibliography, figures and tables.

Section II: Project Report

Unit I: Project Report

80

The students individually or a batches of not exceeding 15 are required to select a problem for the project report. They are expected to carry out field work to generate primary data regarding the problem.

By analyzing the data so evolved students should prepare a report and submit it in office for final examination and viva-voce.

Learning Outcome:

- 1. Student will explain fieldwork, techniques of data Collection and its Presentation.
- 2. Student will describe Importance of Sampling in Research and skill of report writing.
- 3. Students will express knowledge about format of project report.

Sr.	Name of Books
No.	
1	Johnes P. A.: Field work in Geography, - Longman
2	Ahuja Ram, – Research Method
3	Kothari C. R. (1996): Research Methodology, – Vishwas Prakashan, New Delhi
4	Misra R. P. (1991): <u>Research Methodology in Geography</u> , Concept publication New Delhi
5	Archet J. E. Dalton T. H. (1968): <u>The field work in geography</u> , Batsford Ltd., London.
6	Haming Lioyed (1975): Scientific Geographic Research, W C Brow Company U.S.A.
7	Borase: An Introduction of Research Method, (2005)
8	Hans Raj (1988): <u>Theory and Practice in Social Research</u> , Surject Publication, 7-K, Kolhapur

Rayat Shikshan Sanstha's Karmaveer Bhaurao Patil Mahavidyalaya, Pandharpur (Autonomous) Department of Geography M. A. II

Skill Enhancement Course

Name of the Certificate Course	Credits	Lectures	Eligible students
Certificate Course in RS, GIS and GPS	04	60	Students of M.A.
			Second Year

- 1. Title of the Certificate Course: "Certificate Course in RS, GIS and GPS"
- 2. Introduction: Remote Sensing and Geographic Information System are powerful tools which have revolutionized our understanding and approach to the earth's resources and environment and their management. Remote sensing is the technique of acquiring information about the earth surface from a vantage position in space or air. Thematic maps, the main outputs of remote sensing, form the primary inputs in GIS. Global Positioning System (GPS) is a new technology for defining the geographical location of any data. Today, these three technologies, Remote sensing, GIS and GPS, constitute a powerful combination known as Geoinformation Technology or Geoinformatics.

3. Objectives:

- 1) To make students familiars with concept of RS, GIS and GPS.
- 2) To give detailed knowledge about its application in geographical studies.
- 4. Course Outcome: After completion of this course the students will
- 1. undertand the process of Remote Sensing.
- 2. be able to download data from Bhuvan Portal
- 3. learn to use of QGIS software and handle of GPS instrument
- 4.be ready for individual or group project on current issues.
- **5.Eligibility:** The students doing MA second Year with special Geography subject may take this course.
- 6. Course Fee:Rs.500/- (Per Student)

7. Syllabus: The syllabus for the Course will be as follows: {60 Lectures}

Certificate Course in RS, GIS and GPS

Remote Sensing	Module	Contents	Number of Lectures	Credit
> Introduction, Components and Function of GIS > Sources of Data, Data Editing, Data Analysis > Application of GIS 3 GPS > Introduction, Components of GPS > GPS Satellites, Data Receivers and Control Point > Application of GPS 4 GIS Software > Overview of QGIS and toolbar > Creation of Point, Line and Polygon, linking Data table > Georeferencing map and toposheet, mosaic and cropping toposheet > Data collection using GPS instrument > Data Analysis: Spatial and Non Spatial 5 Satellite Data Analysis > Data download from Bhuvan and other source > DEM and its application > LISS-III data download, composite image, image Analysis- Supervised and Unsupervised > Map Composition 15 01 Total		 Basic concept of Remote Sensing EMR and its interaction with atmosphere Platforms and Sensors in RS 	06	
Distribution Data Receivers and Control Point	2	 Introduction, Components and Function of GIS Sources of Data, Data Editing, Data Analysis 	05	01
 Overview of QGIS and toolbar Creation of Point, Line and Polygon, linking Data table Georeferencing map and toposheet, mosaic and cropping toposheet Data collection using GPS instrument Data Analysis: Spatial and Non Spatial Satellite Data Analysis Data download from Bhuvan and other source DEM and its application LISS-III data download, composite image, image Analysis- Supervised and Unsupervised Map Composition Project Total 	3	 Introduction, Components of GPS GPS Satellites, Data Receivers and Control Point 	04	*
Creation of Point, Line and Polygon, linking Data table Georeferencing map and toposheet, mosaic and cropping toposheet Data collection using GPS instrument Data Analysis: Spatial and Non Spatial Satellite Data Analysis Data download from Bhuvan and other source DEM and its application LISS-III data download, composite image, image Analysis- Supervised and Unsupervised Map Composition Project 15 01 Total	4	GIS Software		
➤ Georeferencing map and toposheet, mosaic and cropping toposheet 15 01 ➤ Data collection using GPS instrument Data Analysis: Spatial and Non Spatial Satellite Data Analysis Data download from Bhuvan and other source DEM and its application ➤ DEM and its application LISS-III data download, composite image, image Analysis- Supervised and Unsupervised 15 01 ➤ Map Composition Project 15 01		Creation of Point, Line and Polygon, linking Data		
Data download from Bhuvan and other source DEM and its application LISS-III data download, composite image, image Analysis-Supervised and Unsupervised Map Composition Project 15 01 Total		 Georeferencing map and toposheet, mosaic and cropping toposheet Data collection using GPS instrument 	15	01
Data download from Bhuvan and other source DEM and its application LISS-III data download, composite image, image Analysis- Supervised and Unsupervised Map Composition Project 15 01 Total	5	Satellite Data Analysis		
image Analysis- Supervised and Unsupervised Map Composition Project 15 01 Total		 Data download from Bhuvan and other source DEM and its application 		
Total 15 01		image Analysis- Supervised and Unsupervised Map Composition	15	01
Total 60 04	5	Project	15	01
		Total	60	04

8. Evaluation - After completion of the syllabus, exams will be conducted in the following manner

1. Theory- 80 marks

2. Project - 20 marks

विभाग प्रमुख, भूगोलशास्त्र विभाग

इ. घा. पा. महाविद्यालय, पं**दरपूर**

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