

SOLAPUR UNIVERSITY, SOLAPUR
New Structure of Syllabus
For
M.A./M.Sc. Part – II
Sub: - Geography
To be implemented from June, 2014
Semester – III

Sr. No.	Code No.	Course No	Name of the Paper	Internal Marks	Final Exam Marks	Total Marks	Credit
1	PG – 2	PG – 201	Agricultural Geography	30	70	100	4
2	PG – 2	PG – 202	Settlement Geography	30	70	100	4
3	PG – 2	PG – 203	Biogeography	30	70	100	4
4	PG – 2	PG – 204	Cultural Geography	30	70	100	4
5	PG – 2	PG – 205	Practical V - Quantitative Techniques	30	70	100	4
6	PG – 2	PG – 206	Practical VI - Computer Mapping in Geography	30	70	100	4
7			Periodical Test/Seminars/Tutorial/field work/Project Work/Home Assignment/Industrial Visit/Viva/Oral/Quiz etc	25	-	25	1
			Total			625	

As per the credit system, the assessment of theory paper of 100 marks weight age will be as 70 marks theory assessment by university examination and 30 marks internal assessment by the Department for internal assessment of candidate Periodical Test/Seminars/Tutorial/field work/Project Work/Home Assignment/Industrial Visit/Viva/Oral/Quiz etc may be suitably adopted

Class – M.A./M.Sc. – II

Semester – III

Sub – Geography

Name of the Paper – Agricultural Geography

Code No.:- PG 2

Course No: PG 201

Total Marks: - 70

Total Lectures: - 45

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 No.	Descriptions	No. of Lectures
I	Agricultural Geography: Definition, Nature & Scope, Origin & Evaluation of Agriculture, Approaches to the study of Agricultural Geography: 1) Systematic 2) Regional	10
II	Determinants of Agriculture – Physical, economic and technological Determinants, World Agricultural systems: Location, distribution, types and characteristics of Shifting Cultivation, Intensive, Extensive, Plantation, Mixed Agriculture and Dairy Farming.	10
III	Concepts and techniques of delimitation of agricultural regions- Crop combination, Crop diversification, measurements of agricultural Productivity; Agricultural land use Model- Von Thunen's Model, & Jonasson's Model.	15
IV	Green Revolution in India- Nature and impact of Socio-Economic, problems and prospects in the adoption of Green Revolution; ecological implications of the green revolution; Contemporary issues: food, nutrition and Hunger, Agricultural policies in India.	10

Reference Books

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)	Hussain 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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Semester - III

Sub – Geography

Name of the Paper – Settlement Geography

Code No. PG 2

Course No: PG 202

Marks: - 70

Total Lectures: - 45

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 No.	Sub Units	No. of Lectures
I	Settlement Geography: - Definitions, nature and scope, significance and evolution of human settlement; trend and growth of Human Settlement.	05
II	Rural Settlement: Site and situation, types & pattern, size and growth of Rural settlement, Functional Classification of Rural settlement, House types-based on building material, Environmental, socio-economic, & Cultural Factors influencing the dynamics structure of Rural Settlement.	10
III	Urban Geography: Meaning, nature and scope of Urban Geography, Functional classification of Urban centers, Morphological structure of cities- The Concentric Zone Theory, The Sector Theory, The multinuclei Theory.	15
IV	Theories of Christaller and August Losch and their applications. Measurement of centrality and hierarchy. Concept of Primate city, city region and Rank-size rule; Issues, perspective and policies on population & human Settlement	15

Reference Books

Sr. No.	Name of Books
1	Ambrose, Peter, Concepts in Geography Vol.-I 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 Mcdonads and Evas 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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Class – M.A./M.Sc. – II

Semester - III

Sub – Geography

Name of the Paper – BIOGEOGRAPHY

Code No. PG 2

Course No: PG 203

Total Marks: - 70

Total Lectures: - 45

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.

Course Contents

Unit No.	Sub Unit	No. of Lectures
I	Biography:- I. Introduction II. Definition, Nature and scope, Significance and Development. III. Branches of Biogeography.	05
II	Ecosystems :- I. Ecosystem concept and Meaning, Elements & types Habitat, Plant & Animal association II. Functions of Ecosystem-Food Chain, Food web, energy pyramid with example. III. Concept of Biogeographic Region & Biomes; Major Biomes in the World- Tropical & Temperate Forest, Grassland, Desert& mountain.	10
III	Introduction to Plant and Zoo Geography: A. Plant Geography I. Factors influencing on plants II. World-distribution of forests III. Plant-evolution, adoption, speciation, extinction, colonization & dispersal Importance of Plants. B. Zoo Geography: I. Relationship of zoogeography with the environment. II. Migration & dispersal of animals. III. Causes of mitigation and their effects.	15
IV	Paleorecords:	15

	I. Paleorecords of plants and animals II. Paleorecords of climatic changes III. Records of environmental changes in India. Conservation of biotic resources: I. National forest policy of India. II. Conversation of biotic resources. III. Legal protection to plants and animals.	
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Reference Books

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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Class – M.A./M.Sc. – II

Semester - III

Sub – Geography

Name of the Paper – Cultural Geography

Code No. PG 2

Course No: PG 204

Total Marks: - 70

Total Lectures: - 45

Objective: -

- 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.

Course Contents

Unit No.	Sub Units	No. of Lectures
I	Introduction, evolution, definition, nature, scope, element, component of culture, significance of cultural Geography.	05
II	Concept of culture, Bases of cultural diversity, Race, Religion and language, cultural diversity and regionalization in India. Concept of cultural hearths and cultural diffusion, world cultural realms.	15
III	Socio-Cultural development and well being indicators. Cultural pattern of rural and urban society. Social and cultural processes in the developing countries with special reference to India.	10
IV	Tribal groups, diffusion of Religion and Ethnic traits in the world. Economic activities and cultural adaptation- Agricultural, Industrial and modern technological changes and their geographic implications.	15

Reference Books

Sr. 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.	Jackson, Richard H and Lloyd 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, ledge, Publication, London.	Crang Mike (1998)

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Semester - III

Sub – Geography (Practical Paper: - V)

Name of the Paper – Quantitative Techniques

Code No. PG 2

Course No: PG 205

Total Marks: - 70

Total Lectures: 90

Unit No.	Name of the Units	Description	Lectures
I	Quantitative Techniques in Population Geography	<ol style="list-style-type: none">1. Measurement of birth rates, age-specific, crude2. Measurement of death rates3. Population projection by semi Average method.4. Population projection by Least Squares method.5. Lorenz Curve.	20
II	Quantitative Techniques in Agricultural Geography	<ol style="list-style-type: none">1. Measurement of agricultural productivity- Kendall's method, Sapre and Deshpande's method.2. Crop Combination method of Weaver and Doi.3. Crop Concentration-Bhatia's method.4. Crop Diversification-Bhatia's method.	30
III	Quantitative Techniques in Settlement Geography	<ol style="list-style-type: none">1. Nelson's method of functional classification of towns.2. Nearest Neighbour Analysis.3. Rank-Size Rule.	20

IV	Quantitative Techniques Applied in Marketing Geography	1. Basic Gravity Model. 2. Law of Retail Gravitation 3. Breaking Point Theory 4. Accessibility of Transport network.	20
	Journal		

Reference Books

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

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Sub – Geography

Practical No. VI

Name of the Paper – Computer mapping in Geography

Code No. PG 2

Course No: PG 206

Total Marks: - 70

Total Lectures: - 90

Objectives: -

- 1) To understand the terms, concepts, involved in computer.
- 2) To study how to use computer in Geographic studies.
- 3) How to operate computer.

Unit No.	Sub Units	Lectures
I	Introduction to computer, Definition, characteristics, operating system, Introduction to Dos, Window, excel. Application of computer in Geography	20
II	Computer and Geographic data, scale of measurement- Nominal, Ordinal, Interval, Ratio; Data Structure, Location of data.	20
III	Computer in Cartography – Simple exercise for representation of Geographical data, Histogram, Bar graph, line graph, multiple line graph, scatter diagram, pie chart (diagram). Computation Analysis: Measures of central tendency, Quartile deviation, standard deviation, correlation 'r' value and trend line with help of computer.	30
IV	Importance of information technology in Geographical studies - advantages of Internet. Browsing and surfing the geographical sites Web page. Down loading files.	20
	Journal	

Reference Books

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 Gegrphy, 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)