

Savitribai Phule Pune University

(Formerly University of Pune)

Three Year B.A. and B.Sc. Degree Program in Geography (Faculty of Science & Technology)

T.Y.B.A. (Geography)

Choice Based Credit System Syllabus

To be implemented from Academic Year 2021-2022

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To be implemented from Academic Year 2021-2022

Course Structure

F. Y. B. A. GEOGRAPHY

Sr. No.	Semester	Course No	Name of the Course	Category
1	Semester I	Gg.110 (A)	Physical Geography	CC – 1 A
2	Semester II	Gg.110 (B)	Human Geography	CC – 1 B

S. Y. B. A. GEOGRAPHY

Paper Code	Semester	Paper	Subject
Gg: 210(A)	III	G2	Environmental Geography I
		CC1C	OR Economic Geography -I
Gg: 220(A)	III	S 1	Geography of Maharashtra - I
		DSE 1 A	OR Population Geography – I
Gg: 201(A)	III	S2	Practical Geography – I (Scale and Map Projections)
		DSE 2 A	
(Value/skill based course)	III	SEC 2 A	Applied Course of Disaster Management
Gg: 210(B)	IV	G2	Environmental Geography- II
		CC1D	OR Economic Geography -II
Gg: 220(B)	IV	S 1	Geography of Maharashtra – II
DSE 1 B		DSE 1 B	OR Population Geography – II
Gg: 201(B)	IV	DSE 2 B	Practical Geography – II (Cartographic Techniques,
DSE 2 B			Surveying and Excursion / Village / Project Report)
(Value/skill based course)	IV	SEC 2 B	Applied Course of Travel and Tourism Geography

T.Y.B.A. Geography

Paper Code	Semester	Paper	Subject
Gg: 310(A)	V	CC1E	Geography of Disaster Management-I
			OR
			Geography of Tourism- I
Gg: 320(A)	V	DSE 1 C	Geography of India –I
			OR
			Geography of rural development -I
Gg: 301(A)	V	DSE 2 C	Practical Geography – I (Techniques of Spatial Analysis)
(Value/skill based course)		SEC 2C	Research Methodology-I
Gg: 310(B)	VI	CC1F	Geography of Disaster Management-II
			OR
			Geography of Tourism -II
Gg: 320(B)	VI	DSE 1D	Geography of India -II
_			OR
			Geography of rural development -II
Gg: 301(B)	VI	DSE 2D	Practical Geography – II (Techniques of Spatial Analysis,
			Surveying and Excursion / Village / Project Report
(Value/skill based course)		SEC 2 D	Research Methodology-II

Equivalence of Previous syllabus along with new syllabus:

Pager	Old Course	New Course
G3		Geography of Disaster Management-I
	Gg-310 Regional	OR
	Geography of India	Geography of Tourism- I
G3	OR	Geography of Disaster Management-II
	Gg-310 Human Geography	OR
		Geography of Tourism- II
S3	Gg-320 Agricultural	Geography of India –I
	Geography	OR
	OR	Geography of rural development -I
S3	Gg-320 Population and	Geography of India –II
	Settlement Geography	OR
		Geography of rural development -II
S4	Gg-301 Techniques of	Practical Geography – I (Techniques of Spatial Analysis)
S4	Spatial Analysis	Practical Geography – II (Techniques of Spatial Analysis,
		Surveying and Excursion / Village / Project Report

Semester V Geography of Tourism- I CC1E (No. of Credits: 03)

Objectives:

- 1) To understand the history of Tourism
- 2) To introduce the students to the basic concepts in Tourism Geography.
- 3) To understand the types of Tourism

4) To gain knowledge different aspects of Tourism Geography.

Sr. No.	Topic	Sub Topic & Learning Point	Hours
1	Introduction	a) Definition and Nature i. Definition of Tourists and Tourism. ii. Nature of Tourism	
			12
		iii. Importance of Tourismb) Scope and Extent	
		i. Tourism and Travel as basic needs of mankind.	
		ii. Tourism and Development.	
		iii. Tourism as product	
		c) Role of Geography in Tourism	
2	Factors	a) Physical	
_	affecting	i. Relief	10
	Tourism	ii. Climate	12
	Development	iii. Forest	
	Bevelopment	b) Socio-Cultural	
		i. Religious	
		ii. Historical	
		iii. Sports	
		c) Political - i) Polices ii) Safety of Tourists	
		iii) Accessibility	
3	Concept and	a) Classification of tourism based on	
	Classification	i. Nationality	
	of Tourism	ii. Travel Time	
		iii. Purpose	12
		b) Concept of Tourism - I	
		i. Agro-Tourism ii. Eco-Tourism	
		iii. Wildlife Tourism	
		c) Concept of Tourism - II	
		i) Wellness Tourism	
		ii) Health/medical Tourism	
		iii) Sports Tourism	
4	Role of	a) Mode of Transportation	
	Transportation	i) Road and Rail ii) Water. iii)Air	
	and	b) Communication	
	communication	i. Role of Guide in tourism development	12
	in Tourism	ii. Internet/Telephone/Mobile/TV	
	Development	iii. Electronic and Printing Mediac) Travel and Tourism Agencies	
		c) Traver and Tourism Agencies	1

Reference Books

- 1. Geography of Tourism: Robinson H. (1996)
- 2. Tourism Development, Principles and Practices: Bhatia A.K., Sterling Publisher Ltd., New Delhi
- 3. Geography of Tourism and Recreation: S. N. Singh (1985)
- 4. Tourism Today: A Geographical Analysis: Douglas Pearce (1987)
- 5. Tourism: Economic Physical and Social Impact: Mathiseson A. and Wall C, Logman, U.K.
- 6. India: A Tourist Paradise: Manoj Das.
- 7. Tourism Today: An Indian Perspectives: Maneet Kumar
- 8. Geography of Travel and Tourism: Hudman L.E.
- 9. Successful Tourism Management: Seth P.N. (1985) Sterling Publisher Ltd., New Delhi.
- 10. Tourism Analysis: Smith S.L.J.
- 11. Tourism in India: Gupta V.K.
- 12. Dynamics of Tourism: Kaul R. N., Sterline Publisher Ltd.
- 13. Geography of Tourism: S.B. Shinde, Phadke Prakashan, Kolhapur 2

Semester VI Geography of Tourism- II CC1F (No. of Credits: 03)

Objectives:

- 1. To understand the history of Tourism
- 2. To introduce the students to the basic concepts in Tourism Geography.
- 3. To understand the types of Tourism
- 4. To gain knowledge different aspects of Tourism Geography.

Sr. No.	Topic	Sub Topic & Learning Point	Hours
1.	Role of	a) Accommodation Types	
	Accommodation in	i. Hotels, Motels, inn, Dharmashalas.	
	Tourism	ii. Govt. Accommodation, Tourist homes.	
		iii. Private accommodations and unrecognized	12
		accommodations.	
		b) Factors affecting choice of Accommodation	
		c) Role of Accommodation in Tourism Development.	
2.	Impact of	a) Economic impact	
	Tourism	i. Effect on foreign exchange.	12
	Tourisiii	ii. Employment generation.	12
		iii. Infrastructure development.	
		b) Physical and Environmental impacts	
		i. Land Degradation.	
		ii. Loss plants and animals life.	
		iii. Air and water pollution.	
		c) Social cultural impacts	
		 Crime and Gambling activities. 	
		ii. Language.	
		iii. Traditional arts	
3.	Planning and Polices	a) World Tourism Organization (WTO)	12
	of tourism	b) India Tourism Development Corporation (ITDC)	
	development	c) Maharashtra Tourism Development Corporation (MTDC)	
4.	Case studies	a) Hill Station- Manali and Mahabaleshwar	
	of Major	b) Historical- Tajmahal and Raigadh fort	
	Tourist	c) National Parks- Kaziranga, Melghat	12
	Centers in India		12

Reference Book

- 1. A Geography of Tourism: Robinson H. (1996)
- 2. Tourism Development, Principles and Practices: Bhatia A.K., Sterling Publisher Ltd., New Delhi
- 3. Geography of Tourism and Recreation: S. N. Singh (1985)
- 4. Tourism Today: A Geographical Analysis: Douglas Pearce (1987)
- 5. Tourism: Economic Physical and Social Impact: Mathiseson A. and Wall C, Logman, U.K.
- 6. India: A Tourist Paradise: Manoj Das.

- 7. Tourism Today: An Indian Perspectives: Maneet Kumar
- 8. Geography of Travel and Tourism: Hudman L.E.
- 9. Successful Tourism Management: Seth P.N. (1985) Sterling Publisher Ltd., New Delhi.
- 10. Tourism Analysis: Smith S.L.J.
- 11. Tourism in India: Gupta V.K.
- 12. Dynamics of Tourism: Kaul R. N., Sterline Publisher Ltd.
- 13. Geography of Tourism: S.B. Shinde, Phadke Prakashan, Kolhapur 2

Semester V **Geography of India -I** DSE 1 C (No. of Credits: 03)

Objective:

- 1. To acquaint the students with geography of our Nation.
- 2. To make the student aware of the magnitude of problems and Prospects at National level.
- 3. To help the students to understand the inter relationship between the subject and the society.

4. To help the students to understand the recent trends in regional studied

Sr.	Unit	Subunit	Periods
No			
1	Introduction	a) Location and Extent	12
		b) Historical Background	
		c) International boundary of India and related issues	
		d) States and Union territories	
2	Physiography	a) The Northern Mountains	12
		b) The North Indian Plains	
		c) The Peninsular Plateau	
		d) The Costal low lands and The Islands	
3	Drainage	a) Himalayan Rivers: The Indus, The Ganga, The	12
		Brahmaputra	
		b) East Flowing Rivers- Mahanadi, Godavari, Krishna,	
		Kaveri.	
		c) West Flowing Rivers- Narmada, Tapi, Mahi	
		d) West Flowing Rivers in western ghat	
4	Climate	a) Various Seasons and Weather Associated with them	12
	Soils and	b) Types of Soils and its Distribution	
	Natural	c) Soil Degradation and Conservation	
	Vegetation	d) Types of Natural Vegetation and its Distribution	

Semester V **Geography of India -II** DSE1 D (No. of Credits: 03)

Objective:

- 1. To acquaint the students with geography of our Nation.
- 2. To make the student aware of the magnitude of problems and Prospects at National level.
- 3. To help the students to understand the inter relationship between the subject and the society.
- 4. To help the students to understand the recent trends in regional studied

Sr. No	Unit	Subunit	Periods
1	Cultural Setting	a) Religion of Indiab) Languages of Indiac) Major tribes, tribal areas and their problems	12
2	Transport	 a) Role of Transportation in regional development of India: b) Land ways, Airways and Waterways c) Developments in communication technology 	12
3	Resources	a) Iron ore, Manganeseb) Coal, Petroleum,c) Hydro, Thermal	12
4	Agriculture	 a) Significance of agriculture in Indian Economy. b) Agro Based Industry c) Agriculture Revolution in India 	12

Reference Books

- 1. Aher A.B , Chaodhari A. P & Chaodhari Archna. Regional Geography of India Prashant Publication Jalgaon 2015
- 2. Deshpande C.D: India-A Regional Interpretation Northern Book Centre, New Delhi.1992.
- 3. Farmer, B.H.: An Introduction to South Asia. Methuen, London, 1983.
- 4. Govt. of India: India Reference Annual, 2001 Pub. Div, New Delhi, 2001.
- 5. Govt. of India: National Atlas of India, NATMO Publication, Calcutta...
- 6. Govt. of India: The Gazetteer of India. Vol I & III Publication Division, New Delhi, 1965.
- 7. Learmonth, A.T.A. et.al(ed.): Man and Land of South Asia Concept, New Delhi.
- 8. Mitra, A.: Levels of Regional Development India Census of India, Vol I, Part I-A (i) and (ii) New Delhi, 1967.
- 9. Routray, J.K.: Geography of Regional Disparity Asian Institute of Technology, Bangkok, 1993.
- 10. Shafi, M: Geography of South Asia, McMillan & Co., Calcutta, 2000.

- 11. Singh, R.L.(ed.): India: A Regional Geography. National Geographical Society. India, Varanasi, 1971.
- 12. Spate, O.H.K. and Learmonth, A.T.A.; India and Pakistan Land, People and Economy Methuen & Co., London, 1967.
- 13. P. G. Saptarshi, J. C. More, V. R. Ugale & A. H. Musmade : A Geographical Region of India : Diamond Publication (2009) (Marathi)
- 14. Patil S. G., Suryawanshi R. S., Pacharne S., Choudhar A. H.: Economic Geography, Atharav Prakashan, Pune. (2014) (Marathi).
- 15. Musmade Arjun. H., More J. C., 2015, Geography of India, Diamond, Pune.

Semester V

Practical Geography- I (Techniques of Spatial Analysis) DSE- 2 C (No. of Credits: 04)

Workload: Six Periods per week per batch consisting of 12 Students; however the last batch needs to have more than six students.

(Examination for the course will be conducted at the end of the semester)

Objective:

- 1. To introduce the basic concepts and techniques of Geographical Analysis.
- 2. To introduce the students with SOI Toposheets and acquire the Knowledge of Toposheet interpretation.
- 3. To introduce the students with Weather Maps and acquire the Knowledge of its interpretation.
- 4. To introduce the students with Aerial Photographs and Satellite Images and acquire knowledge to interpret it.
- 5. To acquaint students with the spatial and structural characteristics of Practical Geography.
- 6. To explain the elementary and essential principles on field of practical work.

Note:

- 1. Students must check the practicals regularly and journal should be certified by practical in-charge and Head of the Department before examination.
- 2. Use of Map stencils, Log tables, Calculator, Computer, Statistical Tables is allowed at the time of examination.
- 3. Students without a certified journal should not be allowed for the practical examination.
- 4. Each of the practical batches needs a separate question paper.
- 5. Internal and External examiner should set jointly the question paper for each batch.

Sr.	Topic	Sub Topic & learning Points	No. of
No.			Lectures
1.	Introduction of S.O.I. Toposheet & Relief Representation	 a. Introduction of Survey of India Toposheets: Marginal Information, Conventional signs and symbols and Colours in S.O.I. Toposheets. b. Types of toposheets / Indexing of toposheets c. Methods of Relief Representation i) Qualitative:- Hachures, Hill shading, Layer Tint. ii) Quantitative:- Contours, Form lines, Bench Marks, Spot Heights, Triangulation Mark, Relative Height (r) 	15

2.	Interpretation of S.O.I. Toposheets and Data generation	a. b.	Reading of SOI toposheets from Plain, plateau and Mountainous region. (Minimum one Toposheet per region) One day field Excursion for orientation of toposheets, observation and Identification of Geographical Features and Preparation of a Brief Report	15
3.	Introduction & Interpretation Weather Maps	a. b. c. d.	Introduction to Weather Maps Symbols in Daily Weather Report used by Indian Meteorological Department (IMD) Isobaric Pattern Reading of Weather Map from i) Summer ii) Monsoon iii) Winter Season (Minimum one weather map from each season)	15
4.	Introduction & Application of GIS & Remote Sensing Techniques		 a. Definition and Components of GIS b. GIS Data Types (spatial and non-spatial), Raster and Vector data. c. Introduction of Aerial Photographs & Satellite Images. d. Use of Computer open source Software for GIS & RS techniques in Geography. 	15

Reference Books:

- 1. Ahirrao, D. Y. and Karanjkhele, E.K., 2002. Pratyakshik Bhugol, Sudarshan Publication, Nashik.
- 2. Buoygoot, J. 1964., An Introduction to Map work and Practical Geography, University Tutorial, London.
- 3. Burrough, P. A., and McDonnell, R. A., 2000. Principles of Geographical Information System, Oxford University Press.
- 4. Curran, P. 1989., Principles of Remote Sensing, Logman, London.
- 5. Dickinson, G. C., 1979, Maps and Air Photographs, Arnold Publisher, New Delhi.
- 6. Dr. P. G. Saptrashi and Dr. S. R. Jog., 1991, Statistical Methods (Marathi)
- 7. Ebdon, D., 1977. Statistics in Geography: A Practical Approach, Basil Blackwell, Oxford.
- 8. Kumbhar, A., 2000. Pratyakshik Bhugol, Sumeru Publications, Mumbai.
- 9. Lillesand, T. M. and Kiefer, R. W., 2002. Remote Sensing and Image Interpretation, John Wiley and Sons, New Delhi.
- 10. Lutgens, F. K. and Tarbuck, E.J., 2007. The Atmosphere. Prentice hall, Englewood Cliffs, New Jersey, USA.

- 11. Monkhouse, F. J. and Wilkinson, H. R. 1971. Maps and Diagrams. Methuen and Co. Ltd. London, UK.
- 12. Ramamurthy, K., 2006. Map Interpretation, Rex Printers, Madras.
- 13. Siddhartha, K., 2006. Geography Through Maps, Kisalaya Publication, Pvt. Ltd, New Delhi.
- Singh L. R. and Singh R., 1973. Map Work and Practical Geography, Central Book Depot, Allahabad.
- 15. Singh R. L. and Dutt, P.K., 1968. Elements of Practical Geography, Students Friends, Allahabad.
- 16. Singh R. L., 2005. Elements of Practical Geography. Kalyani Pubishers, New Delhi.
- 17. Singh, G., 2005. Map Work and Practical Geography, Vikas Publishing House Pvt. Ltd., New Delhi.
- 18. Strahler, A. A. and Strahler, A. N., 2002. Physical Geography. Science and Systems of the Human Environment, John Wiley & Sons, INC.
- 19. Strahler, A. H. and Strahler, A. N., 1992. Modern Physical Geography. John. Wiley & Sons, INC.

Semester VI

Practical Geography- II (Techniques of Spatial Analysis, Surveying and Excursion /Village/ Project Report) DSE- 2 D

(No. of Credits: 04)

Workload: Six Periods per week per batch consisting of 12 Students; however the last batch needs to have more than six students.

(Examination for the course will be conducted at the end of the semester)

Sr. No.	Topic	Sub Topic & learning Points	No. of Lectures
1.	Geographical Data & its Basic Analysis	 a. Introduction and Types of Geographical Data: i) Spatial and Temporal data ii)Discrete and Continuous series iii) Grouped and Ungrouped data b. Basic Analysis: i) Tally marks and frequency table ii) Frequency distribution (histogram & polygon) iii) Cumulative Frequency & Ogive curve 	15

2.	Calculation of	a.	Meaning and description of central tendencies- Mean, Mode, Median	
	Central	h	Calculation of Mean, Mode, Median for ungrouped	15
	Tendency, &	0.	and grouped data (two examples each)	10
	Dispersion	C	Measures of Dispersion: Mean Deviation & Standard	
		.	Deviation.	
3.	Testing and	a.	Meaning, Definition of Hypothesis & Types of	
	Application of		Hypothesis i) Null & Alternative hypothesis ii) Level	
	Hypothesis		of significance	
	Trypothesis		iii) Degree of freedom	
		b.	Concept of Correlation and regression	
		c.	Concept of bivariate correlation & Regression	
		d.	Meaning of coefficient of correlation	15
			Parametric & Non parametric tests: i) Chi-square test	10
		f.	Calculation of Spearman Rank order (Min. two	
			examples for each test)	
4.	Field Excursion	a.	One Short tour of two days duration and preparation	
	/ Village		of tour report OR	
	Survey / Project	b.	One long Tour of more than Five days duration	
	Report		anywhere in the country and preparation of tour report	
	Report		OR	
	Report	c.	OR Village / City / Area Survey and preparation of report.	
	Report		OR Village / City / Area Survey and preparation of report. OR	
	Report		OR Village / City / Area Survey and preparation of report. OR Project Report based on Population Survey,	15
	Report		OR Village / City / Area Survey and preparation of report. OR Project Report based on Population Survey, Agricultural Survey, Settlement Survey, Resource	15
	Report		OR Village / City / Area Survey and preparation of report. OR Project Report based on Population Survey, Agricultural Survey, Settlement Survey, Resource Survey, Health Survey, Environmental Issues and	15
	Report		OR Village / City / Area Survey and preparation of report. OR Project Report based on Population Survey, Agricultural Survey, Settlement Survey, Resource Survey, Health Survey, Environmental Issues and Industrial Visit.	15
	Report		OR Village / City / Area Survey and preparation of report. OR Project Report based on Population Survey, Agricultural Survey, Settlement Survey, Resource Survey, Health Survey, Environmental Issues and Industrial Visit. (Project Report must be content of – Introduction –	15
	Report		OR Village / City / Area Survey and preparation of report. OR Project Report based on Population Survey, Agricultural Survey, Settlement Survey, Resource Survey, Health Survey, Environmental Issues and Industrial Visit. (Project Report must be content of – Introduction – Aims and Objectives – Methodology - Review of	15
	Report		OR Village / City / Area Survey and preparation of report. OR Project Report based on Population Survey, Agricultural Survey, Settlement Survey, Resource Survey, Health Survey, Environmental Issues and Industrial Visit. (Project Report must be content of – Introduction – Aims and Objectives – Methodology - Review of Literature - Data collection –Data Analysis –	15
	Report		OR Village / City / Area Survey and preparation of report. OR Project Report based on Population Survey, Agricultural Survey, Settlement Survey, Resource Survey, Health Survey, Environmental Issues and Industrial Visit. (Project Report must be content of – Introduction – Aims and Objectives – Methodology - Review of	15

Reference Books:

- 1. Acevedo, M. F., 2012. Data Analysis and Statistics for Geography, Environmental Science and Engineering, CRC Press.
- 2. Ahirrao, D. Y. and Karanjkhele, E.K., 2002. Pratyakshik Bhugol, Sudarshan Publication, Nashik.
- 3. Creswell J., 1994. Research Design: Qualitative and Quantitative Approaches, Sage Publications.
- 4. Dikshit, R. D., 2003. The Art and Science of Geography: Integrated Readings. Prentice-Hall of India, New Delhi.
- 5. Hammond, R. and McCullagh, P. S., 1977. Quantitative Techniques in Geography: An

- Introduction, Clarendon Press, Oxford.
- 6. Harris, R., Jarvis, C. 2011. Statistics for Geography and Environmental Science, Prentice Hall.
- 7. Jog. S. R. and Saptarshi, P. G., 1980. Sankhikhi Bhugol, Narendra Publication, Pune.
- 8. Karlekar, S. N. and Kale, M., 2006. Statistical Analysis of Geographical Data, Diamond Publication, Pune.
- 9. Kumbhar, A., 2000. Pratyakshik Bhugol, Sumeru Publications, Mumbai.
- 10. Mc Grew Jr., J. C., Lembo Jr., A. J., Monroe, C. B. 2014. An Introduction to Statistical Problem solving in Geography, 3rd ed, Waveland Press.
- 11. Pal. S. K., 1998. Statistical Methods for Geoscientists: Techniques and Applications, Concept Pub.co.
- 12. Robinson, A., 1998. "Thinking Straight and Writing That Way", in Writing Empirical Research Reports: A basic guide for students of the Social & Behavioral Sciences, eds. By F. Pryczak & R. Bruce Pryczak, Publishing, Los Angleles.
- 13. Rogerson, P. A., 2015. Statistical Methods for Geography: A Student's Guide, 4th ed, Sage.
- 14. Sarkar, A. 2015. Practical Geography: A Systematic Approach, 3rd ed, Orient Blackswan.
- 15. Singh R. L. and Dutt, P.K., 1968. Elements of Practical Geography, Students Friends, Allahabad.
- 16. Singh R. L., 2005. Elements of Practical Geography. Kalyani Pubishers, New Delhi.
- 17. Stoddard, R. H., 1982. Field Techniques and Research Methods in Geography, Kendall/Hunt.
- 18. Wokcatt, H. 1995. The Art of Fieldwork, Alta Mira Press, Walnut Creek, CA.

Semester V SEC 2 C Value/Skill based Course Research Methodology - I CREDIT - 2

Objectives:

- 1. To develop the understanding of the basic concept of research
- 2. To develop the understanding of the basic framework of sampling and data collection
- 3. To develop the understanding of various sampling methods and techniques

Topic No.	Topic	Sub-Topic	Periods
1	Introduction to Research Methodology	i. Meaning and objectives of researchii. Characteristics of Researchiii. Types of Researchiv. Various steps in Research Process	10
2	Research Design	i. Introduction of Research Design ii. Purpose of Research Design iii. Characteristics of Good Research Design	10
3	Research Problem	i. Definitions of the Research Problem ii. Identification of a Research Problem iii. Technique involved in defining a problem	10

References:

- **1.** Montello Daniel R. and Sutton Paul C. (2006) Introduction to scientific research Methods if Geography. By Saga Publication
- 2. Kothari, C. R. (2004) Research Methodology Methods and techniques, New Age.
- 3. Mishra, H.N. and Sing, V.P. (1998)- research Methodology in Geography, Rawat Publication
- 4. Clifford, N. Fresh S, Valentine, G. (2010) Key Methods in Geography , Saga Publication
- 5. Gregory , K. J. (2000) The changing Nature of Physical Geography, Arnold, London
- 6. Gomez basil and Jones, III John Paul (editor) (2010) Research Methods in geography : A Critical, Wiley Blackwell
- 7. Harvey, David (1971) Explanation in Geography, Edward Arnold, London
- 8. Chorley, R. J. and P. Hagg-tt(ed) (1967) Models in Geography , Methuen

Semester VI SEC 2 D Value/Skill based Course

Research Methodology – II CREDIT - 2

Objectives: 1. To identify various sources of information for data collection.

2. Inderstanding of the conducting survey on various issues and develop the Report writing skill of students

Topic No.	Topic	Sub- Topic	Perods
1	Methods of Data Collection	A) Primary Data Questionnaire Method i.) Questionnaire – definition ii.) Characteristics of a good e iii.) Merits and demerits Questionnaire Method B) Secondary Data i) Government Sources ii) Syndicated Sources iii) Other Types of Sources	10
2	Types of Research Report	i. Dissertation and Thesis,ii) Research paper, review articleiii) Characteristics of Good ResearchReport Writing	10
3	Techniques of Research Report Writing	 i) Structure and organization of research reports: Title, abstract, key words, introduction ii) Methodology, results, discussion, conclusion, references, footnotes, iii) Concepts of Case Study 	10

References

- 1. Gaum, Carl G., Graves, Harod F., and Hoffman, Lyne, S.S., (1950): Report Writing, 3rd ed., New York: Prentice-Hall.
- 2. Kothari, C.R. (2004): Research Methodology: Methods and Techniques, New Age International (P) Ltd., New Delhi 110002.
- 3. Kothari, C.R., (1984): Quantitative Techniques, 2nd ed., New Delhi: Vikas Publishing House Pvt. Ltd.
- 4. Mishra Shanti Bhushan and Shashi A. (2011): Handbook of Research Methodology, Educreation Publishing, New Delhi 110075.
- 5. Pandey, P. and Pandey, M.M. (2015): Research Methodology: Tools and Techniques, Bridge Center, Romania, European Union.
- 6. Tandon, B.C., (1979): Research Methodology in Social Sciences. Allahabad, Chaitanya Publishing House.
- 7. Ullman, Neil R. (1978): Elementary Statistics, New York: John Wiley & Sons, Inc.
- 8. Yamane, T., Statistics (1973): An Introductory Analysis, 3rd ed., New York: Harper and Row.