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BHARATHI WOMEN'S COLLEGE (AUTONOMOUS)

CHENNAI – 600 108

UG SYLLABUS

(SEMESTER WITH CHOICE BASED CREDIT SYSTEM)

B. Sc GEOGRAPHY

verified

29/1/2020

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BHARATHI WOMEN'S COLLEGE (A),
NORTH MADRAS,
CHENNAI-600 108.

(2019 – 2020)

CONTROLLER OF EXAMINATIONS
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CHENNAI - 600 108.

BHARATHI WOMEN'S COLLEGE (AUTONOMOUS), CHENNAI - 108.

Choice Based Credit System for UG from the academic year 2019-20

Pattern for B.Sc., GEOGRAPHY

I SEMESTER				II SEMESTER				III SEMESTER				IV SEMESTER				V SEMESTER				VI SEMESTER			
Sub	Order of Pap.	Cr.	Hrs.	Sub	Order of Pap.	Cr.	Hrs.	Sub	Order of Pap.	Cr.	Hrs.	Sub	Order of Pap.	Cr.	Hrs.	Sub	Order of Pap.	Cr.	Hrs.	Sub	Order of Pap.	Cr.	Hrs.
Lang.	1	3	6	Lang.	2	3	6	Lang.	3	3	6	Lang.	4	3	6								
Eng	1	3	4	Eng	2	3	4	Eng	3	3	6	Eng	4	3	6								
Core	T-1	5	6	Core	T-2	5	6	Core	T3	5	5	Core	T-4	5	5	Core	T-5	5	5	Core	T-9	5	6
	*P-1		3		P-1	5	3		*P2		3		P-2	5	3		T-6	5	5		T-10	5	6
Allied	AT-1	3	3	Allied	AT-2	3	3	Allied	AT-3	3	3	Allied	AT-4	3	3	Core	T-7	5	5	Core	P-3	5	3
	AP-1*		3	I	AP-1	4	3		AP-2*		3		AP-2	4	3		T-8	4	4		P-4	5	3
SBE-1	1	2	2	SBE-2	2	2	2	SBE-3	3	2	2	SBE-4	4	2	2		P-3* P-4*		3 3	Elec	E-2	5	6
EVS	1	2	3	VBE	1	3	3	NME-1	1	2	2	NME-2	2	2	2	Elec	E-1	5	5		E-3	5	6
												Ext-Act	-	3	-								
TOT		18	30			28	30			18	30			30	30			24	30			30	30

*P - Practials will be conducted at the end of even semester(II - Sem, IV - Sem and VI- Sem)

TOTAL CREDITS : 148

SBE - Skill Based Elective
NME - Non Major Elective
VBE - Value Based Education
EXT - Extension Activities
EVS - Environmental Studies

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BHARATHI WOMEN'S COLLEGE (AUTONOMOUS), CHENNAI – 108

B.Sc. GEOGRAPHY

(CBCS Syllabus for UG students admitted from the academic year 2019-20)

SEMESTER I

Part	Course Component	Code	Title of the paper	Credit	Hrs /week	ESE	CIA	Total
I	Lang – 1	19LAA	General Tamil – I	3	6	75	25	100
II	Eng-1	19GEA	General English - I	3	4	75	25	100
III	Core T-1	19CFA	Fundamentals of Earth System	5	6	75	25	100
III	Core Practical-1	19CF1	Practical – I (Mapping and Terrain Analysis)	-	3	-	-	
III	Allied Theory	19AFA	Allied – I Statistical Methods in Geography - I	3	3	75	25	100
	Allied Practical	19AF1	Allied Practical – I (Graphical and Statistical Methods in Geography)	-	3	-	-	
IV	SBE-1 (Eng. for comm-I)	19SZ1	English for Communication - I	2	2	50	50	100
V	EVS	19EVS	Environmental Studies	2	3	75	25	100

SEMESTER II

Part	Course Component	Code	Title of the paper	Credit	Hr /week	ESE	CIA	Total
I	Lang-2	19LAB	General Tamil - II	3	6	75	25	100
II	Eng-2	19GEB	General English - II	3	4	75	25	100
III	Core T-2	19CFB	Geomorphology	5	6	75	25	100
III	Core Practical-1	19CF1	Practical – I (Mapping and Terrain Analysis)	5	3	60	40	100
III	Allied Theory	19AFB	Allied – II Statistical Methods in Geography - II	3	3	75	25	100
	Allied Practical	19AF1	Allied Practical – I (Graphical and Statistical Methods in Geography)	4	3	60	40	100
IV	SBE-2 (Eng. for comm-II)	19SZ2	English for Communication - II	2	2	50	50	100
IV	VBE	19VBE	Value Based Education	3	3	75	25	100

SEMESTER III

Part	Course Component	Code	Title of the paper	Credit	Hr /week	ESE	CIA	Total
I	Lang-3	19LAC	General Tamil - III	3	6	75	25	100
II	Eng-3	19GEC	General English - III	3	6	75	25	100
III	Core T-3	19CFC	Climatology	5	5	75	25	100
III	Core Practical-2	19CF2	Practical – II (Map Projections and Map Interpretation)	-	3	-	-	-
IV	SBE-3 Comp. Skills	19SZ3	Computing Skills - Basic	2	2	75	25	100
IV	NME -I	19NF1	Demographic Studies	2	2	75	25	100

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SEMESTER IV

Part	Course Component	Code	Title of the paper	Credit	Hr /week	ESE	CIA	Total
I	Lang	19LAD	General Tamil - IV	3	6	75	25	100
II	Eng	19GED	General English - IV	3	6	75	25	100
III	Core T-4	19CFD	Oceanography	5	5	75	25	100
III	Core Practical-2	19CF2	Practical – II (Map Projections and Map Interpretation)	5	3	60	40	100
IV	SBE-4 Per. Devlp.	19SZ4	Personality Development	2	2	75	25	100
IV	NME-II	19NF2	Geography of Resources	2	2	75	25	100
V	Ext.Act	-	Extension activity	3	-	-	-	-

SEMESTER V

Part	Course Component	Code	Title of the paper	Credit	Hr /week	ESE	CIA	Total
III	Core T-5	19CFE	Human Geography	5	5	75	25	100
	T-6	19CFF	Cartography	5	5	75	25	100
	T-7	19CFG	Geography of Tamil Nadu	5	5	75	25	100
	T-8	19CFH	Fundamentals of Remote Sensing	4	4	75	25	100
	Core Practical-3	19CF3	Practical – III (Data Analysis and Mapping)	-	3	-	-	-
	Core Practical-4	19CF4	Practical – IV (Survey Techniques)	-	3	-	-	-
	Core Elect-1 (Any one)	19EFA	Geography of Tourism	5	5	75	25	100
		19EFB	Tourism Resources	5	5	75	25	100
		19EFC	Travel and Tourism	5	5	75	25	100

SEMESTER VI

Part	Course Component	Code	Title of the paper	Credit	Hr /week	ESE	CIA	Total
III	Core T-9	19CFJ	Fundamentals of GIS&GNSS	5	6	75	25	100
	T-10	19CFK	Settlement Geography	5	6	75	25	100
	Core Practical-3	19CF3	Practical – III (Data Analysis and Mapping)	5	3	60	40	100
	Core Practical-4	19CF4	Practical – IV (Survey Techniques)	5	3	60	40	100
	Core Elect-2 (Any one)	19EFD	World Regional Geography	5	6	75	25	100
		19EFE	Economic Geography	5	6	75	25	100
		19EFF	Social Geography	5	6	75	25	100
	Core Elect-3 (Any one)	19EFG	Political Geography	5	6	75	25	100
		19EFH	Cultural Geography	5	6	75	25	100
		19EFJ	Geography of Asia	5	6	75	25	100

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BHARATHI WOMEN'S COLLEGE (AUTONOMOUS), CHENNAI – 108.

QUESTION PAPER PATTERN FOR UG - EVS, VBE, SBE AND NME

(For UG students admitted from the academic year 2019-20)

Time: 3 Hrs Marks: 75

SECTION – A

Answer any **FIVE** questions out of seven. (5x5=25)

(Atleast one question from each unit)

1.
2.
3.
4.
5.
6.
7.

SECTION – B

Answer any **FIVE** questions out of seven. (5x10=50)

(Atleast one question from each unit)

8.
9.
10.
11.
12.
13.
14.

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BHARATHI WOMEN'S COLLEGE (AUTONOMOUS), CHENNAI -600 108

B. Sc GEOGRAPHY

CORE THEORY PAPER – I FUNDAMENTALS OF EARTH SYSTEM

(For the students admitted from the year 2019 – 2020)

HOURS PER WEEK : 6 SEMESTER : I

CREDITS : 5 SUBJECT CODE : 19CFA

OBJECTIVES :

This introductory course is intended to acquaint the students with science of Geography and fundamentals of Earth systems. The earth processes is discussed in such a way that students develop a keen interest in the subject and pursue it for higher studies.

UNIT – 1

Geography : Definition, Scope and Content- Development of Geography- Man and its Environment – Human and Physical Geography – Geography related in other Disciplines – Importance of Geographical Environment.

UNIT – 2

Concepts in Geography : Location : Absolute, Relative - Time – Time Zones – Calculation of Time – International Date Line – Geographic Co-ordinates – Graticule – Latitude – Longitude – Distance : Absolute, Relative.

UNIT – 3

Universal Theories – Nebular Theory – Binary Star Theory - Solar System –Origin of the Earth – Isostasty Theory – Continental Drift Theory – Interior of the Earth.

UNIT – 4

Rocks: Classification and Characteristics -Types of Rocks – Igneous Rocks : Extrusive and Intrusive – Sedimentary : Inorganic and Organic Rocks – Metamorphic Rocks: Regional and Contact Metamorphism .

UNIT – 5

Earth Major Landforms : Formation –Mountains-Types-:Fold, Block Mountain and Volcanic Mountains-importance of Mountains-Plateaus: Types importance of Plateaus – Plains: Types and Importance of Plains. Landforms and People – Flora and Fauna – Climate and Soil.

BOOKS FOR STUDY :

1. Dayal. P,, 2001: A Textbook of Geomorphology', Second Edition, Shukla Book Depot, Patna, India
2. Lal.D.S, 2006: Climatology', Shardha Pustak Bhavan, Allahabad
3. Savindra Singh, 2003: Physical Geogarphy', Revised & Enlarged Edition, Prayag Pustak Bhavan, Allahabad

BOOKS FOR REFERENCE :

1. Barua. A.K, 2005: Dominant Publishers and Distributors, New Delhi.
2.Roger. G. Berry, Richard J. Choley, 2002: 'Atmosphere, Weather and climate,' Seventh Edition, Methunen & Co Ltd, New York
3. Siddartha. K, 2000:' Atmosphere, Weather and Climate', Kisalaya Publications Pvt. Ltd, Delhi
4. Siddartha. K, 2000:' Oceanography- A Brief Introduction', Kisalaya Publications Pvt. Ltd, Delhi
5. William .D. Thornbury, 2003: 'Principles of Geomorphology' Second Edition, CBS Publishers & Distributors, New Delhi.

OUTCOME :

Students can able to understand the knowledge of fundamentals of earth systems through the classification and characteristics of earth's topography.

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BHARATHI WOMEN'S COLLEGE (AUTONOMOUS), CHENNAI – 600108.

B.SC. – GEOGRAPHY

ALLIED PAPER I – STATISTICAL METHODS IN GEOGRAPHY - I

For the students admitted from the year 2019-20

HOURS PER WEEK : 3 SEMESTER : I

CREDITS : 3 SUBJECT CODE : 19AFA

OBJECTIVES:

The objective of the course is to introduce the basic concepts of statistics to the students of geography in a brief but adequate manner. This allied course will help the students to understand the purpose, meaning, and use of statistics in geographical studies.

UNIT - I

Statistics – Nature and Scope – Significance of statistical methods in geography - Sources of data – Primary and secondary data - Scales of measurement: Nominal, Ordinal, Interval and Ratio.

UNIT - II

Frequency distribution - Tabulation of data - Diagrams and graphs - Types - Graphs of frequency distributions: Histograms, Frequency polygon and Cumulative frequency curve.

UNIT - III

Measures of Central Tendency: Mean: Arithmetic, Weighted, Harmonic, Geometric, Median, Mode and Quartiles - Measures of Dispersion: Range, Variance, Mean deviationand Standard deviation – Coefficient of Variation – Variance - Lorenz curve - Skewness, Moments and Kurtosis.

UNIT - IV

Correlation – Types - Scatter diagram - Karl Pearson's Correlation Coefficient – Spearman's Rank Correlation – Regression lines and equations - Regression residuals.

UNIT - V

Time Series – Components - Measurement of trend: Graphic method, Semi averages and Moving average - Method of least square - Measurement of variations: Seasonal, Cyclical and Irregular variations.

BOOKS FOR STUDY:

1. Gupta, S.P. (1995) Statistical Methods, Sultan Chand and Sons,New Delhi.
2. Pal S. K., (1998) Statistics for Geoscientists: Techniques and Applications, Concept Publishing Company, New Delhi.
3. Elhance, D.N. (1972) Fundamentals of Statistics, KitabMahal, Allahabad.

BOOKS FOR REFERENCE :

1. Gupta, S.P. (1995) Statistical Methods, Sultan Chand and Sons,New Delhi.
2. Pal S. K., (1998) Statistics for Geoscientists: Techniques and Applications, Concept Publishing Company, New Delhi.
3. Elhance, D.N. (1972) Fundamentals of Statistics, KitabMahal, Allahabad.
4. Cole, J.P. & King, C.A.M. (1968) Quantitative Techniques in Geography. John Wiley & sons Inc.New York.
5. Hammond, R., &McCullagh, P.S. (1978) Quantitative Techniques in Geography: An Introduction (2/E), Oxford University Press, New York.
6. Mishra, R.P. (1991) Research Methodology in Geography, Concept Publising, New Delhi.

OUTCOMES:

Students can able to understand the statistical methods to qualify the quantify of the geographical analysis.

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BHARATHI WOMEN'S COLLEGE (AUTONOMOUS), CHENNAI – 600 108.

B.A./B.Sc./B.Com.

SKILL BASED ELECTIVE – ENGLISH FOR COMMUNICATION - I

(For the students admitted from the year 2019-20)

HOURS PER WEEK : 2 SEMESTER : I

CREDITS : 2 SUBJECT CODE : 19SZ1

OBJECTIVES:

- To enable the student
  - shed inhibitions and gain confidence
  - acquire proficiency in language.

ORAL COMPONENT

UNIT I

Greeting, Introducing, Seeking Permission

UNIT II

Telephone Etiquettes
Handling Calls – Mock Calls

UNIT III

Reading and Responding

WRITTEN COMPONENT

UNIT I

Giving Instructions and Directions

UNIT II

Leaving a Message
Asking for / Giving Message

UNIT III

Dialogue Writing (Guided)

- At an interview hall
- At the service centre
- In the library
- At the bank
- Making an apology

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BHARATHI WOMEN'S COLLEGE (AUTONOMOUS), CHENNAI – 600 108.

B.A./B.Sc./B.Com.

SKILL BASED ELECTIVE – ENGLISH FOR COMMUNICATION - I

(For the students admitted from the year 2019-20)

QUESTION PAPER PATTERN

SEMESTER : I SUBJECT CODE : 19SZ1

Instructions	:	5	1 X 5 = 5
Directions	:	5	1 X 5 = 5
Leaving a message	:	10	2 X 5 = 10
Dialogue Writing	:	10	2 X 5 = 10
Technical Description	:	10	2 X 5 = 10
General Description	:	10	2 X 5 = 10
TOTAL	:	50	

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BHARATHI WOMEN'S COLLEGE (AUTONOMOUS), CHENNAI – 600108.

B.A., B.Sc., B.Com

ENVIRONMENTAL STUDIES

சுற்றுச்சூழல் கல்வி

(For the students admitted from the year 2019-20)

HOURS PER WEEK: 3 SEMESTER: I

CREDITS: 2 SUBJECT CODE: 19EVS

Objective

1. To develop awareness about the environment and the interaction of various components.
2. To understand about various ecosystems.
3. To make an awareness about various effects of pollution and its management.
4. To create an awareness about the biodiversity and need for its conservation.

Unit 1 :Introduction to Environment

Components of environment –atmosphere, hydrosphere, lithosphere and biosphere. Scope and importance

Ecosystem- Structure and function of ecosystem; Energy flow in anecosystem: food chain, food web and ecological succession; Forest ecosystem, Grassland ecosystem, Desert ecosystem, Aquatic ecosystems

Unit 2 : Natural Resources: Renewable and Non-renewable Resources

Land Resources- Land degradation, soil erosion and desertification.

Forest resources- Deforestation: Causes and impacts due to mining, dam building on environment,

Water resources- Use and over-exploitation of surface and ground water, floods, droughts,

Energy resources: Renewable and non-renewable energy sources, use of alternate energy sources

Unit 3 :Biodiversity and Conservation

Levels of biological diversity:genetic, species and ecosystem diversity;Biogeography zones of India, hotspots

India as a mega-biodiversity nation; Endangered and endemic species of India, Threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts,biological invasions; Conservation of biodiversity: In-situ and Ex-situconservation of biodiversity.

Ecosystem and biodiversity services: Ecological, economic, social, ethical,aesthetic and Informational value.

Unit 4 : Environmental Pollution

Environmental pollution : types, causes, effects and controls; Air, water, soil,chemical and noise pollution

Nuclear hazards and human health risks

Solid waste management: Control measures of urban and industrial waste.

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Unit 5 : Environmental Policies & Human Communities

Environment Laws : Environment Protection Act; Air (Prevention & Control ofPollution) Act; Water (Prevention and control of Pollution) Act; WildlifeProtection Act; Forest Conservation Act

Disaster management: floods, earthquakes, cyclones and landslides.

Environmental movements: Chipko, Silent valley

Books for Study:

1. Odum, E.P., Odum, h.T. & Andrews, J.1971. *Fundamentals of Ecology.* Philadelphia: Saunders.
2. Singh, J.S., Singh, S.P. and Gupta, S.R. 2014. *Ecology, Environmental Science and Conservation.* S. Chand Publishing, New Delhi.
3. Vijay Kumar Tiwari., 2017. A Text Book of Environmental Studies. Himalaya Publishing House.

Books for Reference:

1. Carson, R. *2002. Silent Spring.* Houghton Mifflin Harcourt.
   Gadgil, M., &Guha, R.1993. This *Fissured Land:* An Ecological History of India. Univ. of California Press.
1. Gleeson,B. and Low, N. (eds.) 1999. Global Ethics and Environment, London, Routledge.
2. Gleick, P.H. 1993. Water in *Crisis*. Pacific Institute for Studies in Dev., Environment & Security. Stockholm Env. Institute, Oxford Univ. Press.
3. Groom, Martha J. Gary K. Meffe, and Carl Ronald carroll. *Principles of Conservation Biology.*Sunderland: Sinauer Associates, 2006.
4. Rao, M.N. &Datta, A.K. 1987. *Waste Water Treatement.* Oxford and IBH Publishing Co. Pvt. Ltd.
5. Raven, P.H., Hassenzahl, D.M. & Berg, L.R. 2012. *Environment.* 8th edition. John Wiley & Sons.
6. Rosencranz, A., Divan, S., & Noble, M.L. 2001. *Environmental law and policy in India.* Tripathi 1992.
7. Sengupta, R. 2003.*Ecology and economics:* An approach to sustainable development. OUP.
8. Sodhi, N.S., Gibson, L. & Raven, P.H. (eds). 2013. *Conservation Biology: Voices from the Tropics.* John Wiley & Sons.
9. www.nacwc.nic.in
10. www.opcw.org

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BHARATHI WOMEN'S COLLEGE (AUTONOMOUS), CHENNAI -600 108

B. Sc GEOGRAPHY

CORE THEORY PAPER – II GEOMORPHOLOGY

(For the students admitted from the year 2019 – 2020)

HOURS PER WEEK : 6 SEMESTER : II

CREDITS : 5 SUBJECT CODE : 19CFB

OBJECTIVES:

The objective of the course is to familiarize the students with the Geomorphic processes. After completing the course, students will be able to understand various landforms of the earth surface.

UNIT – 1

Geomorphology : Definition, Nature, Scope and Content of Geomorphology – Place of Geomorphology with other disciplines of Geography.

UNIT 2

Geomorphic Process : Endogenetic and Exogenetic movements – Plate Tectonic Theory – Sea Floor Spreading - Earth Quake and Seismic waves – Volcanoes – Types and characteristics.

UNIT 3

Weathering and its types – Agents of Gradation – River – Works of River – Stages of river - Resulting Landforms.

UNIT 4

Works of Under Ground Water –Artesian wells-Geyser-Springs Karst Topography-Stalactite & Stalagmite. Wind: Work of Wind – Erosional and Depositional features of wind.

UNIT 5:

Glaciers – Types – Work of Glacier- Erosional and Depositional features – Moraines. Coastal Landforms: Emergence and Submergence coast - Work of Waves –Erosional and Depositional landforms.

BOOKS FOR STUDY :

1. Dayal. P, 2001: A Textbook of Geomorphology', Second Edition, Shukla Book Depot, Patna, India
2. Savindra Singh 2016 "Geomorphology", Shardha Pustak Bhavan, Allahabad
3. Savindra Singh, 2003: Physical Geogarphy', Revised & Enlarged Edition, Prayag Pustak Bhavan, Allahabad

BOOKS FOR REFERENCE :

1. Peter Hagett : Geography – A modern Synthesis, harpur and Row Publishing (1979)
2. Richard H.Bryant : Physical Geography , Heinemann Professional Books , London (1990)
3. Goh Cheng Leong, Certificates of Physical and Human Geography, Oxforn University
4. Burchfiel, Foster Killer Charles E: Physical Geology, Merrill Publishing (1995)
5. K.Siddhartha, The Earth Dynamics Surface, Kisalya Publiations (2002)

OUTCOME :

Students will have a general understanding of Physical Geographical processes, the world distribution of landforms and the role of Physical environment.

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BHARATHI WOMEN'S COLLEGE (AUTONOMOUS), CHENNAI -600 108

B. Sc GEOGRAPHY

CORE PRACTICAL – I MAPPING AND TERRAIN ANALYSIS

(For the students admitted from the year 2019 – 2020)

HOURS PER WEEK : 3 SEMESTER : I &II

CREDITS : 5 SUBJECT CODE: 19CF1

OBJECTIVES:

The practical course is to provide basic cartographic skills to the students. By studying the course, students could able to understand various methods of representing the map scales and terrain data.

UNIT – I

Maps: Definition of a map - Classification and Uses of Maps – Conventional Signs and Symbols, Scales – Conversion – Drawing of Plain, Comparative, Time and Diagonal Scales.

UNIT – II

Enlargement and Reduction of the Maps: Square Method – Similar Triangle Method. Measurement of Distances and Areas on Maps: Thread and Divider Method – Square Method – Strip Method.

UNIT – III

Profiles: Serial Profile – Super Imposed Profile – Composite Profile and Projected Profiles.

UNIT – IV

Representation of Relief Features on Map: Contour Diagrams – Hill – Knoll – Spur - Plateau – Ridge – Convex Slope – Concave Slope – Uniform Slope – Undulating Slope – V Shaped Valley - U Shaped Valley – Hanging Valley – Waterfalls – Cliff – Cirque – Sand Dunes.

UNIT –V

Directions – North, South, East and West, Bearings –Time Zone- Field Observation and Mapping.

BOOKS FOR STUDY

1. Monk House, F.J. & Wilkinson, H.R. (1973) Maps and Diagrams, Methuen & Co Ltd, London.
2. Saha, P. &Basu, P. (2014) Advanced Practical Geography, Books and Allied Ltd., Kolkatta.
3. Singh, R.L. & Singh, R. P. B. (2009) Elements of Practical Geography, Kalyani Publishers, New Delhi.

BOOKS FOR REFERENCE

1. Gopal Singh (1998) Map Work and Practical Geography (4th Edition), Vikas Publishing House, Ahmedabad.
2. Zulfequar Ahmad Khan, M.D. (1998) Text book of Practical Geography, Concept Publishing Company, New Delhi.
3. Singh, R.L. & Singh, R. P. B. (2009) Elements of Practical Geography, Kalyani Publishers, New Delhi.

OUTCOMES

Students can able to interpret and generate maps and also understand the geographic representations of different types of relief features and directions.

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BHARATHI WOMEN'S COLLEGE (AUTONOMOUS), CHENNAI – 600108.

B.SC. – GEOGRAPHY

ALLIED PAPER I – STATISTICAL METHODS IN GEOGRAPHY - II

For the students admitted from the year 2019-20

HOURS PER WEEK : 3 SEMESTER : II

CREDITS : 3 SUBJECT CODE : 19AFB

OBJECTIVES:

The aim of the course is to teach the basics of sampling, hypothesis formulation and methods of statistical data analysis for geographical research.

UNTI - I

Sampling – Theoretical basis - Methods of sampling: simple random, stratified random, systematic, cluster and purposive sampling - Size of sample - Sampling errors.

UNIT - II

Probability – Theorems of probability - Conditional probability - Bayes' theorem - Probability distribution: discrete and continuous – Binomial distribution and Normal distribution - Properties of normal curve.

UNIT - III

Statistical hypothesis - Tests of hypothesis – Types - Hypothesis error - Sampling distribution - Tests of significance: One tailed and Two tailed tests.

UNIT - IV

Parametric and Non-parametric Tests: Procedures - Student's t- test, Chi-square test, F-test and Z-test – ANOVA -Applications.

UNIT - V

Applications: General applications - Statistics in research - Quantitative techniques in geography –Spatial statistics.

BOOKS FOR STUDY:

1. Gupta, S.P. (1995) Statistical Methods, Sultan Chand and Sons,New Delhi.
2. Pal S. K., (1998) Statistics for Geoscientists: Techniques and Applications, Concept Publishing Company, New Delhi.
3. King, L.J. (1991) Statistical Analysis in Geography. Prentice Hall, Englewood Cliff.

BOOKS FOR REFERENCE :

1. Gupta, S.P. (1995) Statistical Methods, Sultan Chand and Sons, New Delhi.
2. Pal S. K., (1998) Statistics for Geoscientists: Techniques and Applications, Concept Publishing Company, New Delhi.
3. King, L.J. (1991) Statistical Analysis in Geography. Prentice Hall, Englewood Cliff.
4. Cole, J.P. & King, C.A.M. (1968) Quantitative Techniques in Geography. John Wiley & sons Inc. New York.
5. Kothari, C.R. (1996) Research Methodology: Methods and Techniques, VishwasPrakashan, New Delhi.

OUTCOMES:

Students can able to understand the basics of the sampling methods and statistical data analysis for the geographical research.

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BHARATHI WOMEN'S COLLEGE (AUTONOMOUS), CHENNAI – 600108.

B.SC. – GEOGRAPHY

ALLIED PRACTICAL- I – GRAPHICAL AND STATISTICAL METHODS IN GEOGRAPHY - I

For the students admitted from the year 2019-20

HOURS PER WEEK : 3 SEMESTER : II

CREDITS : 4 SUBJECT CODE : 19AF1

OBJECTIVES:

The objective of this practical course is to introduce some basic statistical procedures to the students towards analysing the geographical problems.

UNIT - I

Representation of Geographic Data – Line and bar graphs –Pie diagrams - Histograms - Frequency polygon - Ogives.

UNIT - II

Measures of Central Tendency: Mean: arithmetic, weighted, harmonic and geometric mean - Median - Mode - Quartiles.

UNIT - III

Measures of Dispersion: range, mean deviation, quartile deviation, and standard deviation –Coefficient of Variations -Variance - Lorenz Curve.

UNIT - IV

Correlation – Scatter diagram and graphic method - Karl Pearson's Correlation Coefficient – Spearman's Rank Correlation – Linear Regression.

UNIT - V

Measurement of Trend: graphic method, semi averages and moving average - Measurement of variations: seasonal, cyclical and irregular variations.

BOOKS FOR STUDY:

1. Gupta, S.P. (1995) Statistical Methods, Sultan Chand and Sons,New Delhi.
2. Pal S. K., (1998) Statistics for Geoscientists: Techniques and Applications, Concept Publishing Company, New Delhi.
3. Elhance, D.N. (1972) Fundamentals of Statistics, KitabMahal, Allahabad.

BOOKS FOR REFERENCE :

1. Gupta, S.P. (1995) Statistical Methods, Sultan Chand and Sons, New Delhi.
2. Pal S. K., (1998) Statistics for Geoscientists: Techniques and Applications, Concept Publishing Company, New Delhi.
3. Elhance, D.N. (1972) Fundamentals of Statistics, KitabMahal, Allahabad.
4. Burt, J.E., Barber, G.M., & Rigby, D.L. (2009) Elementary Statistics for Geographers (3/E), The Guilford Press, New York.
5. Cole, J.P. & King, C.A.M. (1968) Quantitative Techniques in Geography. John Wiley & sons Inc. New York.
6. Hammond, R., &McCullagh, P.S. (1978) Quantitative Techniques in Geography: An Introduction (2/E), Oxford University Press, New York.

OUTCOMES:

Students will get the practical knowedge of statistical methods, procedures by analyzing the geographical problems.

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BHARATHI WOMEN'S COLLEGE (AUTONOMOUS), CHENNAI – 600 108.
B.A./B.Sc./B.Com.
SKILL BASED ELECTIVE – ENGLISH FOR COMMUNICATION - II
(For the students admitted from the year 2019-20)
HOURS PER WEEK : 2 SEMESTER : II
CREDITS : 2 SUBJECT CODE : 19SZ2

OBJECTIVE:

- To equip the graduating students with skills essential for the workplace and facilitate a smooth mobility from the institution to the industry.

ORAL COMPONENT

UNIT I

Impromptu Talks

UNIT II

Group Discussion

UNIT III

Mock Interview (FAQs)

WRITTEN COMPONENT

UNIT I

Interviews
Managing nonverbal cues

UNIT II

Publicity Literature - Writing / Responding to Advertisements

UNIT III

Essay writing- Argumentative Essays (Guided)
Cell Phones/ Technology a boon or a bane
Role of youth in politics
Mother tongue as the medium of instruction
Dress code in colleges
Social Media - a distraction
Today's Youth- useless or used less?

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UNIT IV

Descriptive Writing (Guided)

Technical (Features of a Cell Phone, Laptop, Camera, Television, Fridge)

UNIT V

Descriptive Writing (Guided)
General (Describing your locality/town/city libray, college campus, a place of historical importance, a festival.)

BOOKS FOR STUDY:

1. Spoken English for You by Radhakrishna Pillai, Emerald Publishers
2. Creative English For Communication by N. Krishnaswamy& T. Sriraman, Macmillan
3. Developing Communication Skills by Krishna Mohan &MeeraBanerji, Macmillan

BOOKS FOR REFERENCE:

1. Form and Function by V. Sasikumar and V. Shyamala, Emerald Publishers
2. Developing Communication Skills by Krishna Mohan and MeeraBannerjee, Macmillan
3. Functional English by Dr.Malathi, New Century Book House

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BHARATHI WOMEN'S COLLEGE (AUTONOMOUS), CHENNAI – 600 108.

B.A./B.Sc./B.Com.

SKILL BASED ELECTIVE – ENGLISH FOR COMMUNICATION - II

(For the students admitted from the year 2019-20)

QUESTION PAPER PATTERN

SEMESTER : II SUBJECT CODE : 19SZ2

Paragraph Writing (Interviews& Group Discussion)	:	10	1 X 10 = 10
Advertisement Writing	:	10	2 X 5 = 10
Argumentative Essay	:	10	1 X 10 = 10
Report Writing	:	10	1 X 10 = 10
Letter Writing	:	10	1 X 10 = 10
TOTAL	:	50	

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BHARATHI WOMEN'S COLLEGE (AUTONOMOUS), CHENNAI – 600108.

B.A., B.Sc., B.Com

VALUE BASED EDUCATION

(For the students admitted from the year 2019-20)

HOURS PER WEEK: 3 SEMESTER: II

CREDITS:3 SUBJECT CODE: 19VBE

UNIT I

Value Education – Introduction – relevance to present day – concept of human values – personal values – the qualities of humanity to be followed by an individual – self introspection – self esteem.

அறிமுகம் - மதிப்புக்கல்விவிளக்கம் - இன்றையசூழலில் மதிப்புக்கல்வி– மனிதநேயத்தின் கருத்துகள் (அலலது) மனிதமதிப்புகள் - தனிமனிதன் பின்பற்றவேண்டியமனிதநேயப் பண்புகள் - சுய சோதனை– சுய மரியாதை.

UNIT II

Family values – dependent – responsibility of the family - neutralization of anger – adjustability – threats of family life – status of women in family and society – the problems of day to day life faced by Indian women – caring for needy and elderly – the time allotment for sharing ideas and concerns.

குடும்பமும் குடும்பம் சார்ந்தமதிப்புகளும் - சார்ந்திருத்தல் - குடும்பத்தின் பொறுப்புகள் - கோபத்தைத் தணிப்பது–அனுசரித்துச் செல்வது–குடும்பத்திற்குஏற்படும் ஆபத்துகள் - ஆபத்துகளைப் போக்குவதற்கானவழிகள் - குடும்பத்திலும் சமுதாயத்திலும் பெண்களின் நிலை–தினசரிவாழ்க்கையில் இந்தியப் பெண்கள் சந்திக்கும் பிரச்சனைகள் - முதியோர் மற்றும் இயலாதோர் பாதுகாப்பும் பராமரிப்பும் - கருத்துப் பரிமாற்றத்திற்குநேரம் ஒதுக்குதல்.

UNIT III

Ethical values – professional ethics – mass media ethics – advertisement ethics – influence of ethics on family life – psychology of children and youth.

Social values – faith, service and secularism – social sense and commitment – students and politics.

நெறிமுறைகள் - தொழில் நெறிமுறைகள் - மக்கள் தொடர்புச் சாதனங்களின் நெறிமுறைகள் - விளம்பரநெறிமுறைகள் - நெறிமுறைகளும் குடும்பங்களும் - குழந்தைகள், இளைஞர்கள் இவர்களின் உளவியல்.

சமுதாயமதிப்புகள் - சமயசார்பற்றநம்பிக்கை,சேவை,மதச்சார்பின்மை–சமுகச் சிந்தனைகளும்,கடமைகளும் - மாணவர்களும் அரசியலும்.

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UNIT IV

Consumer's awareness, rights, responsibilities. Global issues – effect of international affairs on values of life – issues of globalization – modern war fare and terrorism – mutual respect for different culture, religion and their values.

நுகர்வோர் விழிப்புணர்ச்சி,உரிமைகளும்,கடமைகளும் - உலகம் சார்ந்தமதிப்பு– உலகநிகழ்வுகளால் ஏற்படும் தாக்கங்கள் - உலகஅளவில் ஏற்படும் மாற்றம் - நவீனபோர் முறையும் தீவிரவாதமும் - பிறமதங்கள் கலாசாரம் இவற்றைமதித்தல்.

BOOK FOR STUDY

மதிப்புக் கல்வி

K.R லஷ்மிநாராயணன்

ம. உமாமகேஸ்வரி

நெல்லையப்பர் பதிப்பகம்,

நெ.7,பிளாட் 7 கதவுஎண் 91

39 ஆவதுதெரு,நங்கநல்லூர்,

சென்னை– 600 0611.

BOOK FOR REFERENCE

Value Education

Prof. N.S. Raghunathan M.A., M.Phil.

MARGHAM PUBLICATIONS.

T.NAGAR, CHENNAI – 17.

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BHARATHI WOMEN'S COLLEGE (AUTONOMOUS), CHENNAI -600 108

B. Sc GEOGRAPHY

CORE PAPER – III CLIMATOLOGY

(For the students admitted from the year 2019 – 2020)

HOURS PER WEEK: 5 SEMESTER: III

CREDITS : 5 SUBJECT CODE: 19CFC

OBJECTIVES:

The course provides an outline of atmosphere, and its dynamic nature of the processes. The course content gives a lead to the identification of climatic differentiation and the consequences of human activities.

UNIT - I

Nature and scope of Climatology: Elements of weather and climate - Composition and Structure of the atmosphere – Insolation – Heat budget – horizontal – Vertical and seasonal distribution of temperature.

UNIT - II

Atmospheric pressure: Vertical and horizontal distribution of pressure, Wind: Characteristics and Types - planetary, seasonal – monsoon – local winds - Atmospheric circulation.

UNIT - III

Humidity, Cloud, Fog and Precipitation: Forms and types - Evaporation - Condensation - Hydrological cycle – Air masses - types - Fronts: classification and properties.

UNIT - IV

Atmospheric disturbances: Origin, Characteristics and Types of Cyclones. Tropical Cyclone- (Easterly waves, Tropical Depressions, Tropical Storms and Hurricanes or Typhoons, Tornadoes: Temperate Cyclones – (Dynamic, Thermal and Secondary) and Anti Cyclones– Cold, warm and Blocking,

UNIT - V

Climatic Classification: Koppen's and Thornthwaite - Climate Change: Global warming –Sea Level Rise – Ozone Depletion, El Nino and La Nino

BOOKS FOR STUDY

1. D.S. Lal (1998) -Climatology, Chaitanya Publishing House, Allahabad.
2. Savindra Singh (2018), Pravalika Publications, Allahabad.
3. Das Gupta, A &Kapoor, A.N. (2001) Principles of Physical Geography, S.C. Chand & Company Ltd. New Delhi.

BOOKS FOR REFERENCE

1. Keith Smith (1988). Applied Climatology, McGraw Hill, New York.
2. Strahler, A. H. &Strahler, A N. (2001) Modern Physical Geography (4/E), John Wiley and Sons, Inc., New York.
3. Critchfield.H (1969) General –Climatology, Prentice Hall of India Pvt, Ltd, New Delhi.

OUTCOMES:

Students will be able to understand the concepts of weather and climatic elements, origin characteristics and climatic types.

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BHARATHI WOMEN'S COLLEGE (AUTONOMOUS), CHENNAI – 600108.

B.Sc.B.A.B.COM

SKILL BASED ELECTIVE – III

COMPUTING SKILLS-BASIC

(For the students admitted from the year 2019-20)

HOURS PER WEEK : 2 | SEMESTER : III

CREDITS: 2 | SUBJECT CODE : 19SZ3

UNIT I

Introduction to computers – characteristic of computers – computer generation – basic computer organization.

UNIT II

Processor and memory: Central Processing Unit – control unit – Arithmetic and Logic Unit (ALU) – instruction set – registers.

Main memory: main memory organization – RAM, ROM, PROM & EPROM.

UNIT III

Word processing: Creating a word document – saving word document – applying basic formatting – applying bulleted and numbers lists – using Find, Replace, Spell checker, Headers and Footers.

UNIT IV

Spreadsheets: Creating a new excel work book – saving excel work book – adding data to cells – insertion and deletion of cells – working with tables and charts – formulas and functions.

References:

- Computer fundamentals, 4th edition, Pradeep, K. Singh and Priti Sinha, BPB publications.
- Microsoft 2003, Jenifer Ackerman Kettell, Guy Hat, Davis Curt Simmons, Tata McGraw Hill.

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BHARATHI WOMEN'S COLLEGE (AUTONOMOUS), CHENNAI -600 108

B. Sc GEOGRAPHY

NON MAJOR ELECTIVE PAPER – I DEMOGRAPHIC STUDIES

(For the students admitted from the year 2019 – 2020)

HOURS PER WEEK: 2 **SEMESTER : II**

CREDITS : 2 **SUBJECT CODE : 19NF1**

OBJECTIVES:

The course provides an outline of population geography. The course content gives a lead to the identification distribution of population, population growth and migration pattern and theories.

UNIT – I

Nature and Scope – Content – Significance – Sources of Demographic Data: Primary, Secondary, Tertiary and Quaternary Sources.

UNIT – II

Population Growth, Factors affecting Population Growth - Distribution and Density of the World – Population Explosion – Malthusian Theory of Population- Demographic Transition.

UNIT – III

Population Structure: Age, Sex Ratio, Literacy, Community, Religion, Birth Rate and Death Rate. Population Structure in Developing and Developed Countries.

UNIT – IV

Migration: Factors affecting the Migration – Immigration and Emigration – Push and Pull factors- Patterns and Determinants – Consequences of Migration.

UNIT – V

Growth of Population in India – Population growth problems - India's Population Policies.

BOOKS FOR STUDY

1. R.C.Chandna (2017), Geography of Populations , Kalyanai Puplishers, New Delhi.
2. Mohammad Izhar Hassan, Population Geography, Rawat Publications,
3. Mayor HN & Kohn. CF Reading in Urban Geography.

BOOKS FOR REFERENCE

1. Huw Jones, Population Geography.
2. Gaimer, Population Geography.
3. Ehrlich and Ehrlich, Population Resources Environment.

OUTCOMES:

Students will have a general understanding of world human population patterns, factors influencing the distribution and mobility of human population.

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BHARATHI WOMEN'S COLLEGE (AUTONOMOUS), CHENNAI -600 108

B. Sc GEOGRAPHY

CORE PAPER – IV OCEANOGRAPHY

(For the students admitted from the year 2019 – 2020)

HOURS PER WEEK: 5 SEMESTER: IV

CREDITS : 5 SUBJECT CODE: 19CFD

OBJECTIVES:

The objective of the subject is to introduce the dynamic nature of ocean and to understand the characteristic features of marine environment.

UNIT - I

Nature and scope of Oceanography- Formation of Oceans- Distribution of land and sea - Tetrahedral theory - Importance of the oceans.

UNIT -II

Surface configuration of the Ocean floor: Continental shelf, Continental slope, Abyssal plain, Mid-oceanic Ridges and Oceanic Trenches - Relief of Atlantic, Pacific and Indian Oceans.

UNIT - III

Physical and chemical properties of Sea water: Temperature and Salinity - Factors - Distribution: Vertical and horizontal.

UNIT - IV

Circulation of Oceanic Waters: Waves, Tides and Currents - Currents of the Atlantic, Pacific and Indian oceans.

UNIT - V

Deposits of the Ocean floor: Sources - Classification -Marine sediments - Coral Reefs: Origin, types and distribution Minerals Other marine resources - Oceans as storehouse of resources for the future.

BOOKS FOR STUDY

1. Sharma, R. C.&Vatal, M., (1970) Oceanography for Geographers, Chaitanya Publishing House, Allahabad.
2. Lal, D.S. (2005) Oceanography, ShardaPustakBhawan, Allahabad.
3. Savindra Singh (2018), Pravalika Publications, Allahabad.

BOOKS FOR REFERENCE

1. Das Gupta, A &Kapoor, A.N. (2001) Principles of Physical Geography, S.C. Chand & Company Ltd. New Delhi.
2. Strahler, A. H. &Strahler, A N. (2001) Modern Physical Geography (4/E), John Wiley and Sons, Inc., New York.
3. Khullar, D.R. (2012) Physical Geography, Kalyani Publishers, New Delhi.

OUTCOMES:

Students will synthesis geographic knowledge of dynamics of oceans and can understand the general characteristics of the marine environment.

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BHARATHI WOMEN'S COLLEGE (AUTONOMOUS), CHENNAI -600 108

B. Sc GEOGRAPHY

CORE PRACTICAL –PAPER- II–MAP PROJECTIONS AND MAP INTERPRETATION

(For the students admitted from the year 2019 – 2020)

HOURS PER WEEK : 3 SEMESTER : III&IV

CREDITS : 5 SUBJECT CODE : 19CF2

OBJECTIVE

The practical course is to provide technical skills in construction of map projection and various weather techniques to the students.

UNIT -I

Construction of map projections: Polar Zenithal: Gnomonic, Stereographic, Orthographic, Equal Area - Equal Distant projection.

UNIT -II

Conical : One and Two standard projection, Polyconic and Bonne's projection.

Cylindrical: Equal Area - Equal Distant and Mercator projection.

UNIT -III

Conventional projection: Sinusoidal and Mollweide's projections. Choice of Projection.

UNIT -IV

Cartographic Interpretation of Survey of Indian Topo Maps 1:50,000 (Rivers, deserts, mountains, plateau and coast) .

UNIT -V

Meteriological signs and symbols: Study and interpretation of weather reports of India for 2 seasons (Winter and Summer).

BOOKS FOR STUDY :

1. Fundamentals of Cartography : R.P.Misra and Ramesh, Concept Publishing company, New Delhi (2009)
2. Map Projection : Steers, University of London Press, London
3. Practical Geography: R.L Singh., Kalyani Publishers, New Delhi (2010)
4. A Text Book of Practical Geography (2009) Ishitiaque, Heritage Publishers

BOOKS FOR REFERENCE :

1. Monk House, F.J. & Wilkinson, H.R. (1973) Maps and Diagrams, Methuen & Co Ltd, London.
2. Saha, P. &Basu, P. (2014) Advanced Practical Geography, Books and Allied Ltd., Kolkatta.
3. Gopal Singh (1998) Map Work and Practical Geography (4th Edition), Vikas Publishing House, Ahmedabad.
4. Zulfequar Ahmad Khan, M.D. (1998) Text book of Practical Geography, Concept Publishing Company, New Delhi.

OUTCOMES :

Students will easily understand the fundamentals of map projections and constructions techniques.

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BHARATHI WOMEN'S COLLEGE(AUTONOMOUS),CHENNAI-600 108.
B.Sc/B.A/B.Com.
SKILL BASED ELECTIVE - PERSONALITY DEVELOPMENT
(For the students admitted from the year 2019-2020)

HOURS/WEEK : 2
CREDITS : 2
SEMESTER : IV
SUBJECT CODE: 19SZ4

OBJECTIVES:

To provide the strategy for the growth of an individual. To create an awareness of interpersonal relations. To familiarize with the knowledge regarding the various causes of stress, types of stresses and various stress management strategies.

UNIT-1: Introduction to Personality Development:

Meaning of personality - Components of personality - Determinants of personality - Personality type - Role of personality development - Features of personality development- Need or Skills for personality development - Ways to develop personality - Tips to improve personality and lifestyle.

UNIT-2: Self Awareness and Self Motivation:

Components of Self Awareness - Importance of Self Awareness-Developing Self Awareness - Self Motivation in life - Self Motivation techniques - Steps for Self Motivation- Term self-esteem - Symptoms - Advantages - Do's and Don'ts to develop positive self-esteem.

UNIT-3: Interpersonal Relationships and Stress Management:

Interpersonal Relationships – Defining the difference between aggressive, submissive and assertive behaviours – Lateral thinking - Table Manners – Table Etiquettes in Multicultural Environment- Do's and Don'ts of Table Etiquettes - Stress Management – Meaning – Sources of Stress – Symptoms of Stress – Consequences of Stress – Managing Stress.

UNIT - 4: Time Management, Leadership and Decision Making:

Planning & Goal Setting - Dealing with other people - Analysis of goals and objectives - Systemization of processes – Prioritization- Leadership and qualities of a successful leader – Decision making steps for making an effective decision - Guideline to problem solving and decision making.

UNIT -5: Communication and Group Discussion:

Communication – Definition – Importance of communication – Process of communication - Communication Symbols – Communication network – Barriers in communication – Overcoming Communication Barriers - Group Discussion – Meaning – Personality traits required for Group Discussion- Process of Group Discussion.

BOOKS FOR STUDY:

1. Dr.K.R.Dhanalakshmi & Prof.N.S.Raghunathan, Personality Enrichment, Margham Publications, 2012.
2. Stephan P.Robbins, Organisational Behaviour, Tenth Edition, Prentice Hall of India Private Limited, New Delhi,2008.
3. Hurlock, E.B , Personality Development, 28th Reprint. New Delhi: Tata McGraw Hill, 2006.
4. Heller, Robert., Effective leadership. Essential Manager series. Dk Publishing, 2002.

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BHARATHI WOMEN'S COLLEGE (AUTONOMOUS), CHENNAI -600 108

B. Sc GEOGRAPHY

NON MAJOR ELECTIVE PAPER – II GEOGRAPHY OF RESOURCES

(For the students admitted from the year 2019 – 2020)

HOURS PER WEEK : 2 SEMESTER : IV

CREDITS : 2 SUBJECT CODE: 19NF2

OBJECTIVES:

The course provides an outline of availability of natural resources. The course content gives a lead to the identification of different types of resources and its distributions.

UNIT – I

Resources: Definition – Nature of Resources – Resources and Wealth – Classification of Resources- Natural Resources – Earth as Resource- Resource conservation and Management.

UNIT – II

Soil Resources: Definition of Soil, Formation – Soil Characteristics – Classification of World Soil – Soil Conservation.

UNIT – III

Energy Resources: Coal – Petroleum – Hydro Power – Atomic Power – Solar Power- Tidal power, Mineral resources- World Production and Distribution.

UNIT – IV

Forest Resources – Distribution of World Forest – Benefits of Forest – Forest Products- Forest Problems – Conservation of Forest and polices.

UNIT – V

World Human Resources – Types, Factors Affecting Distribution of Human Resource – Human Resource and Management.

BOOKS FOR STUDY

1. Negi. B.S., Economic and Commercial Geography,
2. Goh chang Leong & Gillian C. Morgan, Human and Economic Geography.
3. Guha & Chattaroj, Geography of Resources –

BOOKS FOR REFERENCE

1. Alexander J.W, Economic Geography.
2. Sadhukhan S.K,.Economic Geography – An appraisal of Resources,
3. Prof. Qazi S.A., Economic and Commercial Geography.

OUTCOMES:

Students will synthesis geographical knowledge of different resources of the world and also gain the resource conservation management practices.

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BHARATHI WOMEN'S COLLEGE (AUTONOMOUS), CHENNAI -600 108

B. Sc GEOGRAPHY

CORE PAPER – V HUMAN GEOGRAPHY

(For the students admitted from the year 2019 – 2020)

HOURS PER WEEK: 5 SEMESTER: V

CREDITS : 5 SUBJECT CODE: 19CFE

OBJECTIVES:

The objective is to acquaint the students with the nature of man-environment relationship and human capability to adopt and modify the environment.

UNIT - I

Nature and scope of human geography, Concepts of man and environment relationships, Determinism, Possibilism, Probabilism and Neo-determinism- Dichotomy in Physical and Human Geography.

UNIT - II

Human Races Caucasoid, Mongoloid Negroid - Human Habitats - Mode of life in Equatorial regions, Tropical deserts, Temperate grasslands and Tundra region- Culture and Identity.

UNIT - III

World's major religions: Origin and distribution - Hinduism- Buddhism- Christianity- Islam and Judaism - Language - Major world languages.

UNIT - IV

World Population distribution – History of Population growth – ancient, medieval and modern; influencing factors- Problems of over population and under population - Optimum population.

UNIT - V

Human Settlements: Rural and Urban settlements; Influencing factors – types - growth – Urban morphology – Urbanization -- Migration: types – internal and international, causes and consequences of migration.

BOOKS FOR STUDY

1. Majid Hussain, (2005), Human Geography, Rawat Publications, New Delhi.
2. GohCheng Leong, G. & Morgan, G.C. (1995) Human and Economic Geography, Oxford University Press, Oxford
3. Negi, B.S. (2002) Human Geography – An Ecological Approach, KedarNath Ram Nath, New Delhi.

BOOKS FOR REFERENCE

1. Rubenstein, J.H. (2013) The Cultural Landscape - An Introduction to Human Geography, 11th Edition, Prentice-Hall, New Jersey.
2. Rubenstein, J.H. (2013) Contemporary Human Geography, 2nd Edition, Prentice-Hall, New Jersey.
3. Knox, P. & Marston, S. (2013) Human Geography: Places and Regions in Global Context, 6th Edition, Pearson Education, New Delhi.

OUTCOMES:

Students will have a general understanding of various theoretical and methodological approaches and able to develop both quantity and qualitatively.

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BHARATHI WOMEN'S COLLEGE (AUTONOMOUS), CHENNAI -600 108

B. Sc GEOGRAPHY

CORE THEORY PAPER – VI - CARTOGRAPHY

(For the students admitted from the year 2019 – 2020)

HOURS PER WEEK : 5 SEMESTER : V

CREDITS : 5 SUBJECT CODE : 19CFF

OBJECTIVE

The course provides the basic concepts, techniques of cartography. After completion of course the students will understand the arts and science of map making.

UNIT -I

Cartography : Nature, Scope and Content, History and Development of Cartography, Earth as a cartographic problem, Geographic Coordinate system

Maps: Types and Uses

UNIT -II

Drawing Materials and Equipments : Lettering – Methods of Lettering – Manual and Computerized , Symbolization : Point, Line and Area Symbols

UNIT -III

Thematic Maps : Mapping the Terrain, Mapping the Weather and Climatic data, Mapping the Socio- Economic data

UNIT -IV

Map Compilation and Generalization, Map Design and Layout Components and Constraints in Map Design, Cartographic Reproduction : Planning, Duplicating and Printing processes.

UNIT -V

Sources of Data- Ground Surveying, Remote Sensing; Aerial Photos and Satellite Imageries, GPS, Census data, Digital Cartography.

BOOKS FOR STUDY :

1. Anji Reddy (2010) , Remote Sensing and GIS , B.S. Publications, Hydrabad.
2. Robinson, A.H. et al (1995) Elements of Cartography, John Wiley & Sons, U.S.A
3. Robinson. Advanced Cartography

BOOKS FOR REFERENCE :

1. Robinson, A.H. et al. (1995) Elements of Cartography, John Wiley & Sons, U.S.A.
2. Misra, R.P. and Ramesh, A. (1986) Fundamentals of Cartography, Concept Publishing Company, New Delhi.
3. Kraak M.J. (2010) Cartography: Visualization of Geospatial Data (3rd edition), Pearson Education Ltd., London.

OUTCOMES:

Students will be able to understand the map making processes and techniques in Cartography.

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BHARATHI WOMEN'S COLLEGE (AUTONOMOUS), CHENNAI -600 108

B. Sc GEOGRAPHY

CORE THEORY PAPER – VII GEOGRAPHY OF TAMIL NADU

(For the students admitted from the year 2019 – 2020)

HOURS PER WEEK : 5 SEMESTER : V

CREDITS : 5 SUBJECT CODE : 19CFG

OBJECTIVES:

The course is aimed at presenting a comprehensive, integrated and empirically based profile of Tamil Nadu. Further the course enable the student community to understand the resource distribution of Tamil Nadu

UNIT -I

Location -Physiographic Divisions -Drainage -Climate-Soil -Natural vegetation.

UNIT -II

Irrigation - Types - Multipurpose Projects - Agriculture: Major Food crops, cash crops, plantation, pulses and oil seeds.

UNIT –III

Distribution of metallic and non-metallic minerals - Power resources: hydel, coal, petroleum, nuclear, solar and wind.

UNIT -IV

Industries: iron and steel, cement, paper, cotton, chemical, engineering & electronics, automobile and software industries – major industrial regions.

UNIT -V

Population growth and distribution - Transport: surface (Road & Rail), air, water and pipelines – Major ports and harbours - Trade: types – principal imports and export items.

BOOKS FOR STUDY :

1. Prof.V. Kumaraswamy, Geography of Tamil Nadu, Sakthi Abirmi Publications, Kumbakonam, Tamil Nadu. (2014).
2. Dr. A. Ramesh and P.S. Diwari, Basic Resource Atlas of Tamil Nadu, Department of Geography, University of Madras, Chennai.
3. Gopalaswamy. N, (1994), Agricultural Meteorology, Rawat Publications, Jaipur.

BOOKS FOR REFERENCE :

1.Prof.V. Kumaraswamy, Geography of Tamil Nadu, Sakthi Abirmi Publications, Kumbakonam, Tamil Nadu. (2014).
2. Dr. A. Ramesh and P.S. Diwari, Basic Resource Atlas of Tamil Nadu, Department of Geography, University of Madras, Chennai.
3. Sharma T.C. (1980) Economic & Commercial Geography of India, Vikas Publication.

OUTCOMES :

Through this paper students will be benefited by studying and analyzing the distribution of natural resources and physical aspects.

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BHARATHI WOMEN'S COLLEGE (AUTONOMOUS), CHENNAI -600 108

B. Sc GEOGRAPHY

CORE THEORY PAPER – VIII - FUNDAMENTALS OF REMOTE SENSING

(For the students admitted from the year 2019 – 2020)

HOURS PER WEEK : 4 SEMESTER : VI

CREDITS : 4 SUBJECT CODE : 19CFH

OBJECTIVES:

The course is aimed at presenting Aerial Remote sensing and Satellite Remote sensing techniques functions and classifications of maps in Geography and different applications.

UNIT -I

Remote Sensing: Definition and Types : Aerial, Satellite and Radar, Development of Space Programs – History and Organization Associated with Remote Sensing in India and in other Countries.

UNIT -II

Remote Sensing Processes: Sources of Energy, Electromagnetic Radiations (EME), Electromagnetic Spectrum, Atmospheric Windows, Energy Interaction with Atmosphere and Earth.

UNIT -III

Platforms, types of platforms and its characteristics, Active and Passive, Optical-mechanical scanners and push-broom scanners – Thermal remote sensing – Ideal Remote Sensing Systems.

UNIT -IV

Fundamentals of Aerial Remote Sensing: Components of Aerial Camera, Types of Aerial Photographs, Aerial photographs, Marginal Information of Aerial Photographs, Elements of Photo Interpretation.

UNIT -V

Fundamentals of Satellite Remote Sensing: Types of Satellites: Geostationary and Sun-synchronous Satellites, Resolution: Spatial, Spectral, Radiometric and Temporal, Types of Data Products Marginal Information of Satellite Images.

BOOKS FOR STUDY :

1. Anji Reddy, M(2001): Remote Sensing and Geographical Information System, B.S. Publishers, Hyderabad.
2. Lillesand & Kiefer, Remote Sensing and image interpretation, John Wiley & Sons, New York (1979).
3. Sabins Jr. Remote Sensing – Principles and interpretation, Freeman & Co. Sanfranciscoi (1978).

BOOKS FOR REFERENCE :

1. Curran .P.J. Principles of Remote Sensing, English Language books Society Longmans (1985).
2. Lueder, D. R (1959). Aerial Photographic Interpretation – Principles and applications, McGraw Hill book co, New York.
3. Lillesand & Kiefer, Remote Sensing and image interpretation, John Wiley & Sons, New York (1979).

OUTCOMES :

Students will be able to understand the Remote Sensing Processes, Platform characteristics and fundamental principles.

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BHARATHI WOMEN'S COLLEGE (AUTONOMOUS), CHENNAI – 600108.

B.SC. – GEOGRAPHY

CORE ELECTIVE- I – GEOGRAPHY OF TOURISM

For the students admitted from the year 2019-20

HOURS PER WEEK : 5 SEMESTER : V

CREDITS : 5 SUBJECT CODE: 19EFA

OBJECTIVES:

The objective of the course is to familiarize the students with various aspects of tourism and to orient the students to the logistics of tourism industry.

UNIT - I

Basics of Tourism: Growth and development – Factors influencing tourism: historical, natural, socio-cultural and economic - Modern tourism - Tourism as an industry.

UNIT - II

Tourism Motivation: Physical, cultural, social and economic - Types of tourism – Leisure – Recreation – Hospitality -Tourist centers: Classification.

UNIT - III

Infrastructure and Support System: Accommodation and supplementary accommodation - Other facilities and amenities - Indian hotel industry - Passport and Visa: Types.

UNIT - IV

Tourism Organization: International, national, regional and local - Public and Private – Role of travel agency – Guide services – Role of soft skill in visitor's service.

UNIT - V

Tourism Promotion: Advertisement – Public Relations – Tourist publicity – Mass communication – Information and communication technology - Importance of Tourism in Indian Economy.

BOOKS FOR STUDY:

1. Bhatia A.K. (1999) Tourism Development Principles & Practices, Sterling publishers, New Delhi.
2. Maneet K. (1992) Tourism Today, Kanishka Publishing House, Delhi.
3. Rosemary B. (1995) Travel Geography, Pitman Publishing, London.

BOOKS FOR REFERENCE :

1. Bhatia A.K. (1999) Tourism Development Principles & Practices, Sterling publishers, New Delhi.
2. Maneet K. (1992) Tourism Today, Kanishka Publishing House, Delhi.
3. Rosemary B. (1995) Travel Geography, Pitman Publishing, London.
4. Vinod N. (2010) Tourism and Hotel Industry, Cyber Tech Publications, New Delhi.
5. Robinson, H. A. (1996) Geography of Tourism, Macdonald and Evans, London.

OUTCOMES :

Students able to understand the fundamentals of culturalpatterns of tourism at various historical as well as geographical patterns.

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BHARATHI WOMEN'S COLLEGE (AUTONOMOUS), CHENNAI – 600108.

B.SC. – GEOGRAPHY

CORE ELECTIVE PAPER I – TOURISM RESOURCES

For the students admitted from the year 2019-20

HOURS PER WEEK	:	5	SEMESTER	: V
CREDITS	:	5	SUBJECT CODE	:19EFB

OBJECTIVES:

The objective of the course is to familiarize the students with various aspects of tourism and to orient the students to the logistics of tourism industry.

UNIT - I

Tourism Resources – Definition and differentiation – Economic, Sociological and Environmental implications of Tourism.

UNIT - II

Historical resources – Art and Architecture, Sculpture painting, Historical monuments; museum, Art Galleries Libraries – Religious and spiritual centres.

UNIT - III

Socio Cultural Resources – Fairs, festivals, folk, music and dance, handicrafts, Hindu customs – Handicrafts, costumes & dresses, food and drinks, ancient and Indian literature.

UNIT - IV

Natural Tourist Resources – Diversity in landforms & Landscapes – outstanding Geographic Features – Climate, Water features – Flora and Fauna

UNIT - V

Popular religions of India – Hinduism, Jainism, Islam Sikhism, Christianity; Places of Tourist Importance – Tamil Nadu.

BOOKS FOR STUDY:

1. Bhatia A.K. (1999) Tourism Development Principles & Practices, Sterling publishers, New Delhi.
2. Maneet K. (1992) Tourism Today, Kanishka Publishing House, Delhi.
3. Rosemary B. (1995) Travel Geography, Pitman Publishing, London.

BOOKS FOR REFERENCE :

1. Bhatia A.K. (1999) Tourism Development Principles & Practices, Sterling publishers, New Delhi.
2. Maneet K. (1992) Tourism Today, Kanishka Publishing House, Delhi.
3. Rosemary B. (1995) Travel Geography, Pitman Publishing, London.
4. Vinod N. (2010) Tourism and Hotel Industry, Cyber Tech Publications, New Delhi.
5. Robinson, H. A. (1996) Geography of Tourism, Macdonald and Evans, London.

OUTCOMES:

At the end of the course the student will be able to understand tourism as a resource and also the various types of tourism by regional level and to orient the students to the logistics of tourism industry.

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BHARATHI WOMEN'S COLLEGE (AUTONOMOUS), CHENNAI – 600108.

B.SC. – GEOGRAPHY

CORE ELECTIVE PAPER I – TRAVEL AND TOURISM

For the students admitted from the year 2019-20

HOURS PER WEEK	: 5	SEMESTER	: V
CREDITS	: 5	SUBJECT CODE	:19EFC

OBJECTIVES:

The objective of the course is to familiarize the students with various aspects of tourism and to orient the students to the logistics of tourism industry.

UNIT - I

Organisation of Travel and Tourism – Factors influencing type of Travel Organization – Travel and Tourist organization in India – World Travel Tourism Organization.

UNIT - II

Role of Travel Agency in Tourism – Functions of Travel Agency – Travel information Itinerary preparation – Planning and costing tours – Ticketing – Foreign currencies - Insurance.

UNIT - III

Organization Travel – Individual or ordinary trips – Group or organized Tour – Travel Organisation in India - IRTC

UNIT - IV

Role of Transportation in Tourism – types: Road, Railways, Air – its importance in travel and tourism.

UNIT - V

Procedures for a Travel Agent and Tour Operators in India – Travel Agents in India - Travel Agency Management - Travel documents – Issues and challenge in Travel time.

BOOKS FOR STUDY:

1. Bhatia A.K. (1999) Tourism Development Principles & Practices, Sterling publishers, New Delhi.
2. Maneet K. (1992) Tourism Today, Kanishka Publishing House, Delhi.
3. Rosemary B. (1995) Travel Geography, Pitman Publishing, London.

BOOKS FOR REFERENCE :

6. Bhatia A.K. (1999) Tourism Development Principles & Practices, Sterling publishers, New Delhi.
7. Maneet K. (1992) Tourism Today, Kanishka Publishing House, Delhi.
8. Rosemary B. (1995) Travel Geography, Pitman Publishing, London.
9. Vinod N. (2010) Tourism and Hotel Industry, Cyber Tech Publications, New Delhi.
10. Robinson, H. A. (1996) Geography of Tourism, Macdonald and Evans, London.

OUTCOMES :

At the end of the course the student will be able to understand the role and functions of travel agency, able to organize the travel, various aspects of tourism and to orient the students to the logistics of tourism industry.

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BHARATHI WOMEN'S COLLEGE (AUTONOMOUS), CHENNAI -600 108

B. Sc GEOGRAPHY

CORE THEORY PAPER –IX FUNDAMENTALS OF GIS AND GNSS

(For the students admitted from the year 2019 – 2020)

HOURS PER WEEK : 6 SEMESTER : VI

CREDITS : 5 SUBJECT CODE :19CFJ

OBJECTIVES:

The basic concept of this course is aimed to latest geographical techniques of GIS a and fundamental functions and applications different fields.

UNIT -I

Basic concepts : Definition and History of GIS – Component of GIS – Data Structure and formats – Spatial data models : Raster and Vector – Database design – Linking spatial and non-spatial data – Data inputting in GIS.

UNIT -II

Raster and Vector and data Analysis : Integration of raster and vector data, Raster data – types, data structure, data compression, data files, data conversions .

UNIT -III

Slope, Aspects, overlay operations and statistical analysis. Vector data – topological non-topological vector data, map scale, spatial resolution, spatial data accuracy, vector data sources. Comparison between raster and vector data.

UNIT -IV

Introduction – Historical development – GPS system overview – Space Segment – Control Segment – User segment – Recent trends; Working principles of GPS: Satellite ranging – resection; error sources atmospheric – Ionosphere errors – multipath, Selective availability – anti-spoofing error rectification

UNIT -V

GNSS and GIS Integration : Integration techniques – Data focused integration, p osition focused and technology focused integration; Technology convergence for data use; Hardware and Software plantforms; GPS, GIS.

BOOKS FOR STUDY :

1. Anji Reddy, M(2001): Remote Sensing and Geographical Information System, B.S. Publishers, Hyderabad.
2. Burrough, P A Mc Donnell, (2000). Principles of Geographical Information Systems, OXFORD University Press, LONDON.
3. Agarwar, N K (2006). Essentials of GPS, Geodesy and GPS publications, Hydrabad.

BOOKS FOR REFERENCE :

1. Curran .P.J. Principles of Remote Sensing, English Language books Society Longmans (1985).
2. Burrough, P A Mc Donnell, (2000). Principles of Geographical Information Systems, OXFORD University Press, LONDON.
3. Lillesand & Kiefer, Remote Sensing and image interpretation, John Wiley & Sons, New York (1979).

OUTCOMES :

This paper demonstrate the ability to communicate the results of GIS analysis through appropriate maps and documents. This paper will explore GIS carrier opportunity in specific fields.

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BHARATHI WOMEN'S COLLEGE (AUTONOMOUS), CHENNAI – 600108.

B.Sc. – GEOGRAPHY

CORE PAPER X – SETTLEMENT GEOGRAPHY

For the students admitted from the year 2019-20

HOURS PER WEEK : 6 SEMESTER : VI

CREDITS : 5 SUBJECT CODE: 19CFk

OBJECTIVES:

This core paper is intended to explain the importance, reasons for the formation settlements and its related aspects to the students. This will help the students to develop a keen interest in the subject and pursue it for higher studies.

UNIT – I

Geography of Settlements: Meaning, Nature and Scope- Settlement: Types. Fundamental Concepts in Settlement Geography.

UNIT – II

Rural settlements: Concept, Characteristics and Factors – Types and Patterns. Regional Characteristics – Morphology –Rural problem and planning.

UNIT – III

Urban settlements: Concept and Characteristics. Urbanization: Factors-urbanization in India and World – Functional classification of urban centers. .

UNIT – IV

CBD: Functions and Characteristics – Urban Morphology: Classical models- Burgess, Homer Hoyt, Harris and Ullman-Rural-Urban-Fringe.

UNIT – V

Hierarchy of urban centers-Rank-size-rule-Central place theory-Urban Problems-Slums- Urban Planning.

BOOKS FOR REFERENCE :

1.Bala,Raj (1986), Urbanisation in India, Rawat Publications, Jaipur
2.Kundu,A (1992),Urban Development and Urban Research in India, Khanna publication, New Delhi.
3. Majid Hussain (1999), Human Geography, Rawat Publications,Jaipur.
4. Nath V.(2007), Urbanisation, Urban Development and Metropolitan Cities in India, Concept Publishing Co. New Delhi.
5. Pacione, Michel(2001), Urban Geography- A Global perspective, Routedge, London.
6. Perpillou,(1967), Human Geography,A.V.H.G.Longman,London.

OUTCOMES : Students will be understand the concepts and characteristics,functions and theories of Rural and Urban settlements

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BHARATHI WOMEN'S COLLEGE (AUTONOMOUS), CHENNAI -600 108
B. Sc GEOGRAPHY
CORE PRACTICAL – PAPER- III – DATA ANALYSIS AND MAPPING
(For the students admitted from the year 2019 – 2020)

HOURS PER WEEK : 3 SEMESTER : V&VI
CREDITS : 5 SUBJECT CODE : 19CF3

OBJECTIVE

The practical course is to provide practical skills in map interpretation and various techniques in Aerial photos and satellite imageries and different kinds of socio economic map techniques to the students.

UNIT -I

Aerial photo identification - use of stereo pairs – methods of identification of various factors in photos – interpretation of Aerial Photos

UNIT –II

Satellite Imageries Interpretation – Visual – Physical landscape and Cultural features.

UNIT -III

Mapping of Economic Data: Distribution Maps - dot maps –Located bar and Circle - Isopleths Choropleth – choroschematic and chorochromatic maps.

UNIT -IV

Mapping Climatic Data: Weather and Climatic Diagrams: Climograph, Hyther Graph, Ergograph , Wind Rose, Rainfall Dispersion Diagrams.

UNIT -V

Computer Assisted Cartography: Diagrammatic representation of Economic data using computer – line diagram - Simple and multiple, Bar diagram –vertical, horizontal, Multiple and compound, Pie diagram, Pictorial diagram and Flow chart.

BOOKS FOR STUDY :

1. Singh. R.L.; practical Geography, Kalyani Publishers , New Delhi, (1991).
2. Fundamentals of Cartography : R.P.Misra and Ramesh, Concept Publishing company, New Delhi (2009)
3. Elements of Cartography : Robinson A. Ramadallsal and Jaol Horrison, John Willey and Sons, New York

BOOKS FOR REFERENCE :

1. Singh. R.L.; practical Geography, Kalyani Publishers , New Delhi, (1991).
2. Fundamentals of Cartography : R.P.Misra and Ramesh, Concept Publishing company, New Delhi (2009)
3. Elements of Cartography : Robinson A. Ramadallsal and Jaol Horrison, John Willey and Sons, New York
4. Cartographic Methods : Lawerence G.R.P, Methunen and Co ltd, London.

OUTCOMES :

Students will be able to analysis the Aeiral Photo and Satellite Imageries individually. Some of the geographical diagrams will give understanding of climate and socio-economic status.

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BHARATHI WOMEN'S COLLEGE (AUTONOMOUS), CHENNAI – 600108.

B.SC. – GEOGRAPHY

CORE PRACTICAL- IV – SURVEY TECHNIQUES

For the students admitted from the year 2019-20

HOURS PER WEEK : 3
CREDITS : 5
SEMESTER : V & VI
SUBJECT CODE : 19CF4

OBJECTIVES:

The objective of this practical course is to introduce some basic survey techniques to the students towards analyzing the geographical problems.

FIELD SURVEY AND MAPPING:

UNIT - I

Survey – Preparation of Plans: Chain: Open and Closed Survey.

UNIT - II

Prismatic Compass: Open Survey - Clinometer: Accessible – Abney level

UNIT - III

Plane Table: Locating Points by Open Method — Dumpy Level.

SOCIO - ECONOMIC SURVEY AND MAPPING:

UNIT – IV

Data collection and mapping of Socio – Economic data – Point, Line and Area.

MODERN SURVEY AND MAPPING:

UNIT - V

GPS Data Collection and Mapping - Field study of not less than a week or short field trip for a day or two will be conducted.

BOOKS FOR STUDY:

4. Ishitiaque. M A text Book of Practical Geography, Heritage Publishers (1989).
5. Kilalway, George. P : Map Projection, Methuen and Co., London (1970).
6. Misra. R.P and Ramesh : Fundementals of Cartography, Concept, New Delhi (1984).

BOOKS FOR REFERENCE :

1. Misra. R.P and Ramesh : Fundementals of Cartography, Concept, New Delhi (1984).
2. Raghunandhan Singh – Map Work and Practical Geography.
3. Singh. R.L. : Practical Geography, Kalyani Publishers, New Delhi (1991).

OUTCOMES :

Students will be able to analyze and evaluate the land surfaces both vertically and horizontally by using instruments. Students able to understand the spatial locations.

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BHARATHI WOMEN'S COLLEGE (AUTONOMOUS), CHENNAI -600 108

B. Sc GEOGRAPHY

CORE ELECTIVE PAPER - II– WORLD REGIONAL GEOGRAPHY

(For the students admitted from the year 2019 – 2020)

HOURS PER WEEK : 6 SEMESTER : VI

CREDITS : 5 SUBJECT CODE : 19EFD

OBJECTIVES

The objectives of this course are to give an overview of the land, people and economy of the different regions of the world, so that the students are aware of world resources

UNIT -I

Meaning of Natural Regions – Concept of Region – Types of region -Formal and Functional regions - Regional Hierarchy.

UNIT -II

Equatorial Regions: Location and extent – Physiography – Climate – Soil - Mineral resources - Economic activities - Population.

UNIT -III

Tropical Regions: Location and extent – Physiography – Climate – Soil - Mineral resources - Economic activities - Population.

UNIT -IV

Temperate & Mediterranean Regions: Location and extent – Physiography – Climate – Soil - Mineral resources - Economic activities - Population.

UNIT -V

Polar Temperate Regions: Location and extent – Physiography – Climate - Soil - Mineral resources - Economic activities - Population.

BOOKS FOR STUDY :

1. 1. Majid Husian (2012) World Geography, 4th Edition.Rawat Publications, New Delhi.
2. Cole, J (1996) A Geography of the World's Major Regions, Routledge, London
3. Sir Dudley Stump , World Regional Geography, orient Longman.

BOOKS FOR REFERENCE :

1. Trewartha & Robinson (1967) Physical Elements of Geography, McGraw-Hill Book Company, New York.
2. Sadhukhan S.K. (1994), Economic Geography, S.Chand & Company Ltd, New Delhi.
3. Jackson. R.H. & Hudman. L.E. (1991). World Regional Geography: Issues for Today, John Wiley, New York.

OUTCOMES :

Students able to understand the concepts of regions and classifications of formal and functional regions.

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BHARATHI WOMEN'S COLLEGE (AUTONOMOUS), CHENNAI -600 108

B. Sc GEOGRAPHY

CORE ELECTIVE PAPER – II ECONOMIC GEOGRAPHY

(For the students admitted from the year 2019 – 2020)

HOURS PER WEEK : 6 SEMESTER : IV

CREDITS : 5 SUBJECT CODE : 19EFE

19EFE

OBJECTIVES:

The main objective of Economic Geography is, as expounded, to examine man's economic achievement in terms of production and consumption in the light of his environment. To assess the relative importance of the study of this branch of geography, we have to evaluate the purposes that it serves.

UNIT - I

Scope and content of Economic Ggeography – basic concepts – nature of resources.

UNIT - II

Factors influence agriculture – Production and Distribution of Rice, Wheat, Sugarcane, Coffee, Tea, Cotton, Jute – Forest – Fishing.

UNIT - III

Distribution of minerals – Iron ore, Coal, Aluminum – Hydel Power – Thermal Atomic – Nuclear Energy.

UNIT - IV

Industries – Locations of Industries – Study of selected industries – iron and steel Textiles chemical – ship building, automobile industries

UNIT - V

Transport systems – roads, rail, air, and waterways – inland and ocean routes – characteristics and development.

UNIT – VI

Ports and trades – Major ports –International trade - pattern – volume composition and trends.

BOOKS FOR STUDY

1. Khanna and Gupta – 1992 Economic and Commercial Geography, Sulcon chand and son
2. Prithuish Kumar Roy 1992- Economic geography new control sook company calcutta

BOOKS FOR REFERENCE

1. M.Balbir Singh Kegi 1979 geography of Resoures ,Kodarnath Remnath, Publishers, Meerut.
2. K. Badhukhan 1990 Economic geography S. chand and company – New Delhi.

OUTCOMES Students able to understand the distribution and mobility of human populations including settlement and economic activities and networks,.

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BHARATHI WOMEN'S COLLEGE (AUTONOMOUS), CHENNAI -600 108
B. Sc GEOGRAPHY
CORE ELECTIVE PAPER – II SOCIAL GEOGRAPHY
(For the students admitted from the year 2019 – 2020)
HOURS PER WEEK: 6 SEMESTER: IV
CREDITS : 5 SUBJECT CODE : 19EFF

OBJECTIVES:

The main objective of the Social Geography is to study the social activities of the human. To assess the social and communal conflicts we have to evaluate Social geography.

UNIT - I

Social Geography: Nature, Scope and development - Relationship with social sciences. Nature and problem of data.

UNIT - II

Geographic basis of social region formation with reference to India - The role of caste, ethnicity, religion and language in the evolution of social regions.

UNIT - III

Unity versus diversity in India. Social transformation, Sanskritization and Role of rural – urban interaction.

UNIT - IV

Space and Society, contribution of social geography to social theory, power relations and space. Geographies of Inclusion and Exclusion, Slums, Gated Communities, Communal Conflicts and Crime.

UNIT - V

Social well being – Concept of social well being, quality of life, Measurement of human development with reference to social and economic indicators.

BOOKS FOR STUDY

1. Ahmed A., 1999: Social Geography, Rawat Publications.
2. Casino V. J. D., Jr., 2009) Social Geography: A Critical Introduction, Wiley Blackwell.
3. Cater J. and Jones T., 2000: Social Geography: An Introduction to Contemporary Issues, Hodder Arnold.

BOOKS FOR REFERENCE

1. Panelli R., 2004: Social Geographies: From Difference to Action, Sage.
2. Rachel P., Burke M., Fuller D., Gough J., Macfarlane R. and Mowl G., 2001: Introducing Social Geographies, Oxford University Press.
3. Smith D. M., 1977: Human geography: A Welfare Approach, Edward Arnold, London.
4. Smith D. M., 1994: Geography and Social Justice, Blackwell, Oxford. 9. Smith S. J., Pain R.,

OUTCOMES : To get the knowledge of **Geographic** Principles. Students will demonstrate a proficiency in knowledge of essential concepts of physical and human **geography** including: Ethical and **Social** Responsibility.

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BHARATHI WOMEN'S COLLEGE (AUTONOMOUS), CHENNAI -600 108

B. Sc GEOGRAPHY

CORE ELECTIVE PAPER – III POLITICAL GEOGRAPHY

(For the students admitted from the year 2019 – 2020)

HOURS PER WEEK : 6 SEMESTER : VI

CREDITS : 5 SUBJECT CODE : 19EFG

OBJECTIVES:

The course provides an outline of Political Categories of the nation. The course content gives a lead to the identification of frontiers and boundaries with special reference to geography.

UNIT - I

Definition, Nature, Scope and Content, Political Territory – Territoriality, History and development, Regional and Systematic Political Geography.

UNIT - II

Mackinder's Heart land Theory and Sykman's Rim land Theory – Man and Territory Boundaries and Frontiers.

UNIT - III

Classification of International Boundaries and Related Problems – Genetic or Functional : Antecedent – Subsequent – Super imposed – Relict Boundaries.

UNIT – IV

Morphological: Physiographic – Geometric – Anthropogeographic - Economic Barrier – Barrier to information Flow.

UNIT - V

Political Geography of India - Integration of Indian states - Integration of Sikkim -, India's border relationship with China-Pakistan- Bangladesh and Srilanka - Indian's Foreign Policy, Election commission.

BOOKS FOR STUDY

1. Ramesh Dutta Dikshit : Political Geography – A Contemporary Perspective, Tata MCGraw – Hill Publishing Company ltd, New Delhi, 1992
2. Pounds. J.G. Political Geography - McGraw Hill book Co. *t* 3. Muin, R. Modern Political Geography. Macmillan.London.1981.
3. Dr.Dudeepta Adhikari, (2011), Shardha Pustak Bhawan, Allahabad, 2011 Edition.

BOOKS FOR REFERENCE

1. Presscott, J.R.V. Political Geography, Methuen. London, 1972.
2. Robert E.Norris and L.Lyold haring, Political Geography, Charles E.Meril Publishing Co., A Bell and Howell Company, Colombous. 1980.
3. Norman S.G.Pounds, Political Geography, Tata MCGraw – Hill Publishing Company ltd, New Delhi, 1992

OUTCOMES:

Students will able to understand the political concepts, theory and classifications of political boundaries.

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BHARATHI WOMEN'S COLLEGE (AUTONOMOUS),CHENNAI-600 108
B.Sc., GEOGRAPHY
CORE ELECTIVE PAPER – III -CULTURAL GEOGRAPHY
(For the students admitted from the year 2019-2020)

HOURS PER WEEK : 6
CREDITS : 5
SEMESTER : VI
SUBJECT CODE :19EFH

Objectives:

The objective of this paper is to study about the Cultural Geography Concepts,Identity and Processes Space and Time Functional Concepts Understanding the theoretical intersects in briefly.

Unit 1: Definition: Concepts and ApproachesEvolution of Cultural GeographyComponents and structure of Culture – Civilizations – and Cultural Regions of the World- Growth pattern and Development of Culture- Inter Regional Cultural Development.

Unit 2: Cultural Identity and Processes -Cultural Hearths and Realms of the World: contemporary scenario: impacts of technology and mobility popular cultures, Folk culture and its revival Processes of Diffusion and Acculturation India and its multicultural identity.

Unit 3: Space and Time: Cultural Evolution – Time Chart – Hierarchy of Cultural Worlds – Divergence and Convergence Culture – Cultural Variations - WorldExplorations.

Unit 4: Functional Concepts – Linkages and Relations in Cultural Geography, Complex Culture, Realms of Cultural Process, Movement of Culture.

Unit 5: Under Standing the theoretical intersects in brief: Historical Materialism, Feminism, Post Structuralism dominance dependence.

Book for Study:

Anderson, K., Domosh, M., Pile, S. and Thrift, N. (2003): Handbook of Cultural Geography, SAGE Publications, London
Jordon, G. (1995): Cultural Politics, Blackwell, Oxford
Mike, C. (1998): Cultural Geography, Routledge, London

Web References

1.http://www. en.m.wikipedia.org- Cultural Geography
2.http://www. thoughtco.com- Cultural Geography
3.http://www.slideshare.net- Cultural Geography
4.http://www.researchgate.net- Cultural Geography
5.http://www.sciencedirect.com – Cultural Geography

OUT COMES: Students will know about the Cultural Geography Concepts and Approaches in trends of way.

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BHARATHI WOMEN'S COLLEGE (AUTONOMOUS),CHENNAI-600 108
B.Sc., GEOGRAPHY
CORE ELECTIVE PAPER – III - GEOGRAPHY OF ASIA
(For the students admitted from the year 2019-2020)

HOURS PER WEEK : 6 SEMESTER : VI
CREDITS : 5 SUBJECT CODE :19EFJ

Objectives:
The objective of this paper is to study about the Asia Physical landscape, soil types and characteristics, Agriculture regions and problems,Mineral issues and Industries Problems, Transport types routes,Imports and Exports, Finally the Asia Population, Urbanization and Recent Issues.

Unit-1:PhysicalLandscape: SetingandsituationofAsia-Strategicimportanceofitslocation-Asiaisacontinentofcontrast-Geo –politics-Physiographic divisions-Drainage-Climate:majorclimaticregions – Naturalvegetation: floraandfauna.

Unit-2:SoilandAgriculture: Soil:types,characteristicsandproblems-Agricultural determinants–Majorcrops and distribution –Agriculturalregions - Agriculturalproblemsandsustainableagriculture.

Unit-3:MineralsandIndustries: Minerals:location,distributionandissues-Powerresources-Industries:majorindustriesandtheirlocation-problemsand future.

Unit-4:TransportandTrade: Transport:typesandmajorroutes-Majorportsandharbors-Tourism-Trade:majorimportsandexports.

Unit-5:Population,Urbanization and RecentIssues: Population:distribution, Populationpyramids,problemsandpolicieswithcasestudies-Languages-Urbanization:currentstatusandurbanproblems-NaturalandHuman Hazards-Asiainfuture.

Book for Study:

1.Douglas.L.J.,(2009)WorldRegionalGeography,10thEdition,PearsonEducation,Inc.,NewJersey.
2.HussainM.(2015)WorldGeography,5thEdition,Rawatpublications, Jaipur.

WebReferences

1.http://www.mapsopensource.com/asia-political-map.html(Politicalfactsof Asia)
2.http://www.mapsofworld.com/physical-map/asia.htm(PhysicalofAsia)
3.http://www.asiafastfacts.com/asiaclimate.html(ClimateofAsia)
4.http://www.Biologydiscussion.com/soil/what-are-the-main-causes-of-soil-degradation/7276(SoilofAsia)
5.http://www.conserve-energy-future.com/causes-effects-solutions-of-desertification.php(NaturalVegetationofAsia)

OUT COME:

Students will know about the Geography of Asia and all details about the Physical features and Recent Issues.

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QUESTION PAPER PATTERN FOR UG

(For UG students admitted from the academic year 2019-20)

Time: 3 Hrs Marks: 75

SECTION – A

Answer ALL the questions. (10x2=20)

(Without omitting any unit)

1.
2.
3.
4.
5.
6.
7.
8.
9.
10.

SECTION – B

Answer any FIVE questions out of seven. (5x5=25)

(Atleast one question from each unit)

11.
12.
13.
14.
15.
16.
17.

SECTION – C

Answer any THREE questions out of five. (3x10=30)

(Without omitting any unit)

18.
19.
20.
21.
22.

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QUESTION PAPER PATTERN FOR UG - EVS, VBE, SBE AND NME

(For UG students admitted from the academic year 2019-20)

Time: 3 Hrs Marks: 75

SECTION – A

Answer any **FIVE** questions out of seven. (5x5=25)

(Atleast one question from each unit)

1.
2.
3.
4.
5.
6.
7.

SECTION – B

Answer any **FIVE** questions out of seven. (5x10=50)

(Atleast one question from each unit)

8.
9.
10.
11.
12.
13.
14.

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