DEGREE OF BACHELOR OF SCIENCE

CHOICE BASED CREDIT SYSTEM

SYLLABUS FOR

B.SC. GEOGRAPHY

(SEMESTER PATTERN)

(For Candidates admitted in the Colleges affiliated to Periyar University from 2017-2018 onwards)
1. CONDITION FOR ADMISSION

A candidate who has passed Higher Secondary Examination in academic or vocational stream with any subject under higher secondary board of examination, Tamil Nadu or an examination accepted as Equivalent there to by the syndicate subject to such conditions as may be prescribed thereto are permitted to appear and qualify for the B.Sc. degree examination of this university after a course of study of three academic years.

2. DURATION OF THE COURSE

The course for the degree of Bachelor of Science shall consist of three academic years divided into six semesters. Each Semester consists of 90 working days. Practical examinations will be conducted at the end of even semesters.

3. FEATURES OF CBCS

Under Choice Based Credit System (CBCS), a set of papers consisting of Core papers, Elective papers, Skill based elective papers and Non-major elective papers are offered. Beside the Core Papers, which are totally related to the major subject, the students have the advantage of studying supportive papers and non-major papers. This provides enough opportunity to the students to learn not only the major subject but also interdisciplinary and application oriented subjects.

4. CREDITS

In CBCS, each paper is assigned with a certain number of Credits depending upon the workload of the students. The total Credits to be earned by a student to qualify for the degree is 140. The credit of the paper is fixed by giving due weightage to the syllabus content and contact hours per week.

5. Passing Minimum

THEORY

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<th>University Examination (EA)</th>
<th>Internal Assessment (CIA)</th>
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Classification of Internal Assessment Structure

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<td>Assignment</td>
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<td>Total Marks</td>
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</table>
B.Sc. GEOGRAPHY

Passing Minimum (CIA) 40% : 10 Marks
Passing Minimum (EA) 40% : 30 Marks
Total Passing Minimum : 40 Marks

PRACTICAL

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Classification of Internal Assessment Structure

Marks

- Submission : 10 Marks
- Test : 10 Marks
- Attendance : 10 Marks
- Continuous Assessment in Practical Class : 10 Marks

Total Marks : 40 Marks

- Passing Minimum (CIA) 40% : 16 Marks
- Passing Minimum (EA) 40% : 24 Marks
- Attendance : 05 Marks

Total Passing Minimum : 40 Marks

- For the theory paper, the candidates shall be declared to have passed the examination if he/she secures not less than 30 marks out of 75 marks in the University examination in each theory paper and 10 marks out of 25 marks in the Internal Assessment and in total not less than 40 marks.

- For the practical paper, the candidates should get 24 marks (including the marks of record notebook) out of 60 marks in the University examination, 16 marks out of 40 marks in the Internal Assessment and in total not less than 40 marks to get passed the examination. There is no passing minimum for the record notebook. However submission of a record notebook is essential.

6. CLASSIFICATION OF SUCCESSFUL CANDIDATES

- Candidates who secure not less than 60% of the aggregate marks in the whole Examination shall be declared to have passed the examination in First class.

- All other successful candidates shall be declared to have passed in the Second class.

- Candidates who obtain 75% of the marks in the aggregate shall be deemed to have passed the
examination in First Class with Distinction provided they pass all the examinations prescribed for the course at the first appearance.

- Other successful candidates who secure below 50% shall be declared to have passed the examination in Third class.

- Candidates who pass all the examinations prescribed for the course in the first instance and within a period of two academic years from the year of admission to the course only are eligible for University Ranking.

7. MAXIMUM DURATION FOR THE COMPLETION OF THE UG PROGRAMME

The maximum duration for completion of the UG Programme shall not exceed twelve semesters.

8. COMMENCEMENT OF THIS REGULATION

These regulations shall take effect from the academic year 2017-18, i.e., for students who are to be admitted to the first year of the course during the academic year 2017-2018 and thereafter.

9. TRANSITORY PROVISION

Candidates who were admitted to the UG course of study before 2017-18 shall be permitted to appear for the examinations under those regulations for a period of three years i.e., up to and inclusive of the examination of April/May 2021. Thereafter, they will be permitted to appear for the examination only under the regulations then in force.
# B.Sc. GEOGRAPHY

## LIST OF CORE COURSES - THEORY AND PRACTICALS

<table>
<thead>
<tr>
<th>SL. NO.</th>
<th>NAME OF THE COURSE</th>
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<td>Oceanography</td>
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<td>Geomorphology</td>
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### LIST OF SKILL BASED ELECTIVE COURSE (SBEC)

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<td>Fundamentals of Physical Geography</td>
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### LIST OF ELECTIVE COURSE (EC)

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### LIST OF NON MAJOR ELECTIVE COURSE (NMEC)

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### COMMON COURSES

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### COMPULSORY COURSE

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# COURSE OF STUDY AND SCHEME OF EXAMINATION

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### B.Sc. GEOGRAPHY

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<td>SBEC VI - An Introduction to Social Geography</td>
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<td>III</td>
<td>Elective III - Economic Geography of India</td>
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<td>IV</td>
<td>Extension Activities</td>
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QUESTION PAPER PATTERN
CORE, SKILL, BASED, ELECTIVE AND NON-MAJOR ELECTIVE AND ALLIED COURSES

Max Marks = 75
Internal Marks = 25
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Total = 100
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PART-A (10X2=20 MARKS)
Two questions from each section
Answer ALL the Questions
Answer should not exceed 50 words

PART-B (5X5=25 MARKS)
Two questions from each section with internal (a) or (b) choice
Answer ALL the questions
Answer should not exceed 300 words

PART-C (3X10=30 MARKS)
One question from each section
Answer ANY THREE questions out of FIVE questions
Answer should not exceed 1200 words

QUESTION PATTERN MAJOR COURSE PRACTICALS

Internal Marks = 40
University Examination + Record = 60

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Total = 100
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One Question from each section
Each question carries 10 Marks (5X10=50 Marks)
For Record Submission = 10 Marks
Total Marks (50+10) = 60
B.Sc. GEOGRAPHY

SEMESTER I

CORE I - CLIMATOLOGY

UNIT I:
Definition and Significances of Climatology - Rotation and Revolution of the Earth, Solstice, Equinox and Seasons, Elements of Weather and Climate, Composition and Structure of the Atmosphere, Insolation: factors affecting Insolation, Global energy budget, Horizontal and Vertical Distribution Inversion of Temperature and factors affecting them.

UNIT II:

UNIT III:
Atmospheric moisture and Precipitation: Humidity types - Condensation – Cloud types – Precipitation and Rainfall: Types and measurements.

UNIT IV:
Air Masses and Fronts: types, classification and properties – Atmospheric Disturbances: Tropical, Temperate Cyclones, Thunderstorms and Tornadoes – Origin, Development and associated weather conditions.

UNIT V:

REFERENCE BOOKS:
UNIT I:
Oceanography: Scope, Content, Significance, Distribution of Land and Sea – Hypsometric Curve, Surface Configuration of the Ocean Floor: Continental Shelf, Continental Slope, Deep Sea Plain, Oceanic Deeps and Submarine Canyons.

UNIT II:
Relief Features of the Major Oceans: Atlantic, Pacific and Indian Ocean – Horizontal and Vertical Distribution of Seawater Temperature, Salinity: Factors Affecting Salinity and Distribution.

UNIT III:

UNIT IV:
Marine Deposits: Classification and Distribution – Coral Reefs types - Conditions for the Growth.

UNIT V:
Marine Resources: Types – Distribution and Uses – Tidal Energy - Role of National Institute of Oceanography in India

REFERENCE BOOKS:
UNIT I:

UNIT II:

UNIT III:

UNIT IV:

UNIT V:
Land forms produced due to erosion and deposition with reference to: a) Glaciers, b) Winds, and c) Waves.

REFERENCE BOOKS:
UNIT I:
Location and Extent: Administrative units – Major relief features – Major rivers – Climate: temperature, Seasonal and Annual rainfall – distribution, Soil: types and their distribution.

UNIT II:
Forest, Livestock and Fisheries: Types and distribution, forest products, Livestock: cattle, sheep, dairying and fisheries- inland and deep-sea fishing.

UNIT III:
Irrigation and Agriculture Resources: types and distribution – canal, tank and well irrigation, Agriculture: distribution and production of rice, cotton, sugarcane, and rain fed crops, oil seeds, tea and coffee.

UNIT IV:

UNIT V:
Transport: Development and distribution of roads, railways, air and sea transportation - Important ports, Population – growth and distribution of rural and urban population.

REFERENCE BOOKS:
UNIT I:

UNIT II:
Race: Major Races – Caucasoid, Mongoloid and Negroid; Distribution, Racial Conflicts and Racial Prejudice.

UNIT III:

UNIT IV:
Languages: Major World Languages and their Distribution – Geographical Factors – Significances.

UNIT V:

REFERENCE BOOKS:
B.SC. GEOGRAPHY

SEMESTER V

CORE VI - NATURAL REGIONS OF THE WORLD

UNIT I:
Definition – Natural Regions of the World – Equatorial Region: Situation and extent, Climate, Natural
Vegetation, Animal life, Human life and Economic Development.

UNIT II:
Tropical Region: Tropical Monsoon Region – Tropical Savanna – Climate – Soil – Vegetation – Life in
Tropics – Economic Activity.

UNIT III:
Arid Region: World Deserts – Hot Deserts – Cold Deserts – Climate – Soil – Vegetation – Life in Deserts
– Economic Activity.

UNIT IV:

UNIT V:
Tundra Region: Arctic Region – Climate – Vegetation – Life in Tundra Region - Economic Activity.

REFERENCE BOOKS:
New Delhi.
Rinehart and Winston, New York.
UNIT I:

UNIT II:

UNIT III:
Settlements: Definition, Site and situations of Rural Settlements, Factors Influencing Settlement Patterns, Classification of Settlements: Rural and Urban.

UNIT IV:
Urban and Urbanization: Meaning – Classification of Towns and Cities – Site, Situation and Functions – Urban Hierarchy and Hinterland – Pattern of Urbanizations in India.

UNIT V:

REFERENCE BOOKS:
UNIT I:

Resources: Meaning – Nature and Significance in Resources – Classification and Types – Need for Conservation and Sustainable Development.

UNIT II:


UNIT III:


UNIT IV:


UNIT V:

Transportation and Trade – Different Modes of Transport – Trade – Types, Factors affecting Trade – Multilateral and Bilateral – Agreements of Trade – WTO – GATT.

REFERENCE BOOKS:


UNIT I:
Significance of Geographical Location Physiography – Climate – Drainage systems.

UNIT II:
Soil Types and Classification – Agricultural Production – Rice and Wheat – Rubber, Tea and coffee, Sugar cane and Jute.

UNIT III:
Mineral and Energy Resources – Iron ore, Manganese, Tin, Bauxite, Coal, Petroleum and Natural Gas.

UNIT IV:
Industrial Production and Distribution – Iron and Steel, Cotton textiles, Sugarcane and Automobile.

UNIT V:
Population - Transport and Trade.

REFERENCE BOOKS:
UNIT I:
Map: Definition and types–Geo-coordinate System: Latitude and Longitude. Time Zone and International date line.

UNIT II:
Scales: Meaning and types -Construction of Linear, Comparative and Diagonal Scales – Conversion of Scales.

UNIT III:

UNIT IV:
Representation of Relief features – Interpolation of Contours – Contour diagrams with Cross-section.

UNIT V:
Representation of Climatic Data: Climatic Graphs, Climograph, Hythergraph and Ergograph – Wind-rose diagram.

REFERENCE BOOKS:
UNIT I:
Meteorological Signs and Symbols – Station Models – Study and Interpretation of Weather Reports of India (January, July, May and November only).

UNIT II:
Indian Topographical Maps: Conventional Signs and Symbol – Interpretation of Indian Topographical maps: Physical features (Plain, Plateaus, Hills and Mountains) and Cultural features (Transportation and Settlement).

UNIT III:
Representation of Economic Data: One Dimensional Diagrams – Bars: Two Dimensional Diagrams: Rectangular, Squares and Circles – Three Dimensional Diagrams: Cubes and Spheres.

UNIT IV:

UNIT V:
Methods of Representing Distribution of Data – Drawing of Isopleths, Choropleths, Chorochromatic and Choroschematic Maps.

REFERENCE BOOKS:
UNIT I:
Map Projections: Definition, Significance and Classification – Construction and Classification – Construction of Zenithal Projections: Equidistant, Equal Area, Gnomonic and Orthographic (or) Stereographic Projections.

UNIT II:

UNIT III:
Surveying: Chain Survey: Triangulation, Open and Closed Traverse – Prismatic Campus: Open and Closed Traverse.

UNIT IV:
Plane Table Survey: Open and Closed Traverse - Correction of Closing Errors - Bowditch Method - Finding of Resection Points: Trial and Error Methods and Tracing Paper methods (Three Points only).

UNIT V:
Survey with Indian Clinometers and Abney Level: Accessible and Inaccessible Methods - Dumpy Level - Collimation Method, Calculation of Heights.

REFERENCE BOOKS:
UNIT I:

UNIT II:

UNIT III:
Aerial Photo Interpretation: Tracing and Interpreting the Aerial Photographs.

UNIT IV:
Satellite Image Interpretation: Tracing and Interpreting the Satellite Data.

UNIT V:
Comparative Study of Map Information:
1) Air Photos with Topographic Maps
2) Air Photos with Satellite Images.
3) Satellite Images with Topographic maps.

REFERENCE BOOKS:
SBEC 1 - FUNDAMENTALS OF PHYSICAL GEOGRAPHY

Unit I:


Unit II:

Landforms: Major Relief features, Earth's External and Internal forces and agents of Denudation – Features formed by them, Normal Cycle of Erosion.

Unit III:


Unit IV:

Oceanography: Land and Sea distribution – Bottom Topography of Oceans – Temperature, Salinity, Current, Tide, Coral reefs, Ocean deposits and Resources.

Unit V:

Biogeography: Elements of biogeography –Environment, Habitat, Plant and animals – Distribution Groupings – Distribution of forests and major communities.

Reference Books:

B.Sc.GEOGRAPHY

B.SC. GEOGRAPHY
SEMESTER III

SKILL BASED ELECTIVE COURSES

SBEC II - GEOGRAPHY OF TRAVEL AND TOURISM

Unit I:

Tourism: Scope and Content – Basic components of tourism: Attraction, Accessibility and Accommodation – Factors affecting tourism activities – Types of tourism.

Unit II:


Unit III:

Accommodation: Significance and role in tourism industry – Hotel types, Motels, Choutries, Guest Houses, Youth Hostels, Tour operators.

Unit IV:


Unit V:

Major Tourist Centers of India – Selected Centres only (Jaipur, Agra, Shimla, Ajanta and Ellora) – A Geographical study of tourist centres: Udgamandalam, Kodaikanal, Yercaud, Bengaluru and Mysuru.

Reference Books:

Unit I:
Introduction – Location – Structure and Relief – Physiographic Divisions.

Unit II:
Climate of India- Factors Determining – Mechanism of Indian Monsoon – The Rhythm of Seasons – Distribution of Rainfall – Climatic Region of India.

Unit III:
Drainage Systems of India – Himalayan System – Peninsular System.

Unit IV:
Soils of India – Major types and distribution – Soil degradation - Soil Conservation - Natural calamities.

Unit V:
Natural Vegetation – Forest types and Distribution – Forest covers in India – Wildlife and Biosphere reserves of India – Conservation of Wildlife.

Reference Books:
UNIT I:

UNIT II:

UNIT III:
Symbolization: Types of Cartographic symbols – Point, Line, and Area symbols – Qualitative and Quantitative data generalization.

UNIT IV:
Map Design and Layout: General design problems – Principles of Cartographic design and design of map symbols – Lettering – Lettering methods, Positioning of letters – Geographical names.

UNIT V:

REFERENCE BOOKS
B.SC. GEOGRAPHY

SEMESTER VI

SKILL BASED ELECTIVE COURSES

SBEC V - PRINCIPLES OF SURVEYING

Unit I:

Surveying – Definition – Scope and content – types of surveying – Area measurement – Height determination – Advantages of survey.

Unit II:


Unit III:


Unit IV:


Unit V:

Height measurement – Determination of height – Dumpy level : – Parts and Methods of dumpy level survey – Height measurement : Indian Clinometer and Abney level.

Reference Books:

B.Sc. GEOGRAPHY

B.Sc. GEOGRAPHY
SEMESTER VI
SKILL BASED ELECTIVE COURSES

SBEC VI - AN INTRODUCTION TO SOCIAL GEOGRAPHY

UNIT I:

UNIT II:

UNIT III:

UNIT IV:

UNIT V:
Geography of India: Location, Relief, Climate, Soil, Population, and Transport.

REFERENCE BOOKS:
UNIT I:


UNIT II:


UNIT III:


UNIT IV:


UNIT V:


REFERENCE BOOKS:

UNIT I:

UNIT II:

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

UNIT IV:

UNIT V:

REFERENCE BOOKS:
UNIT I:
India and its Neighbouring Countries – Political Division – Political Boundaries with Neighbouring Countries- Indian Agriculture: Importance – Suitable conditions for cultivation of major food crops.

UNIT II:

UNIT III:

UNIT IV:
Industries: Iron and Steel, Cotton textile- Petro-chemical, Automobile : Production and their distribution – Major Industrial Region of India – Transport – Road, Railway , Water way and Air ways – Major Trade in India.

UNIT V:

REFERENCE BOOKS:
B.Sc. GEOGRAPHY

B.SC. GEOGRAPHY
SEMESTER III
NON MAJOR ELECTIVE COURSES
NMEC I - GEOGRAPHY OF INDIA

UNIT I:
General Aspect: Location and Extent – Neighbouring Countries -Administrative Units – Major Physiographic Division.

UNIT II:
Climate: Seasons and Monsoon – Major River system – Irrigation :– Type and Distribution – Major Multipurpose Projects.

UNIT III:

UNIT IV:
Mineral Resources and their Distribution :– Iron ore, Manganese, Bauxite, Power Resources and their Distribution – Hydel, Atomic, thermal and Wind energy.

UNIT V:

REFERENCE BOOKS:
B.SC. GEOGRAPHY
SEMESTER IV
NON MAJOR ELECTIVE COURSES
NMEC II - GEOGRAPHY OF TAMILNADU

UNIT I:
Location and Extent: Administrative units – Major relief features - Major rivers – Climate: temperature, Seasonal and Annual rainfall distribution, Soil: types and their distribution.

UNIT II:
Forest, Livestock and Fisheries: Types and distribution, forest products, Livestock: cattle, sheep, dairying and fisheries- inland and deep-sea fishing.

UNIT III:
Irrigation and Agriculture Resources: types and distribution – canal, tank and well irrigation, Agriculture: distribution and production of rice, cotton, sugarcane, and rain fed crops, oil seeds, tea and coffee.

UNIT IV:

UNIT V:
Transport: Development and distribution of roads, railways, air and sea transportation - Important ports, Population – growth and distribution of rural and urban population.

REFERENCE BOOKS:
1. Draw a zenithal equal area projection for the reduced earth of 2 inches for northern hemisphere. The latitude and longitudinal interval is 15°.

2. Measure and plot the distance between C1, C2, and C3 points of the given building with the use of chain survey.

3. Find the height of the given building through inaccessible method by using the Indian Clinometer.

4. By using the Dumpy level find out the elevation difference of given three points of A, B and C.

5. Write a short note on: rpWFwpG vOJf.
   a) Bowditch method of correction
   b) Alidade
   c) Abney Level.
   d) Properties of Lambert Projection.
THEORY MODEL QUESTION PAPER

PERIYAR UNIVERSITY

B.Sc., DEGREE EXAMINATION
(For the candidates admitted from the year 2017-18 onwards)

MAJOR SUBJECT: GEOGRAPHY

REGIONAL GEOGRAPHY OF TAMIL NADU

Time: 3 Hours

Maximum Marks: 75

Section - A (10 x 2 = 20 Marks)

Answer all questions

1. Location of Tamil Nadu.
2. Seasons of Tamil Nadu.
5. Primary professions.
6. Detroit of South Asia.
7. Rural and Urban population of Tamil Nadu.
8. Literacy rate of Tamil Nadu.
10. Major ports of Tamil Nadu.

Section - B (5 x 5 = 25 Marks)

Answer all the questions choosing either (a) or (b)

11. a) Give a brief account on the hilly regions of Tamil Nadu.
    (or)

b) Briefly explain the rainy seasons of the state.
12. a) Write a note on the irrigation methods in Tamil Nadu.

b) Give a note on the distribution of cement industries in Tamil Nadu.

13. a) Explain the factors determining the location of industries in Tamil Nadu.

b) Briefly describe the sugar industries.

14. a) Write a short notes on the factors influencing the distribution of population.

b) Give an account population of Tamil Nadu.

15. a) Explain types of road transportation.

b) List out the airports of Tamil Nadu.

Section - C (3 x 10 = 30 Marks)

Answer any THREE questions.

16. Explain about the types of forests in Tamil Nadu.

17. Elucidate about the importance of agriculture.

18. Describe the power resources.

19. Explain the density of population in Tamil Nadu.

20. Detailed explain about the different types of transportation.