1. **Eligibility for Admission to the Course**

Candidate for admission to the first year of the B. Sc Geography degree course shall be required to have passed the higher secondary examination (Academic or Vocational) conducted by the Govt. of Tamil Nadu in the relevant subjects or other examination accepter as equivalent there to by the Syndicate, subject to such other conditions as may be prescribed therefore.

2. **Duration of the Course**

The course shall extend over a period of three years comprising of six semesters with two semesters in one academic year. There shall not be less than 90 working days for each semester. Examination shall be conducted at the end of every semester for the respective subjects.

3. **Course of Study**

The course of study for the UG degree course shall consist of the following:

4. **Course of Study**

The course of study for the UG degree course shall consist of the following:

a) **Part - I**

Tamil or any one of the following modern/classical languages i.e. Telugu, Kannada, Malayalam, Hindi, Sanskrit, French, German, Arabic & Urdu. It shall be offered during the first four semesters with one examination at the end of each semester.

b) **Part – II : English**

The subject shall be offered during the first four semesters with one examination at the end of each semester. During third semester Part II English will be offered as communication skills.

c) **Foundation Course**

The Foundation course shall comprise of two stages as follows:

Foundation Course A : General Awareness (I & II semesters)
Foundation Course B : Environmental Studies (III & IV semesters)

The syllabus and scheme of examination for the foundation course A, General awareness shall be apportioned as follows.

From the printed material supplied by the University - 75%
Current affairs & who is who? - 25%

The current affairs cover current developments in all aspects of general knowledge which are not covered in the printed material on this subject issued by the University.
The Foundation course B shall comprise of only one paper which shall have Environmental Studies.

d) Part – III

**Group A**: Core subject – As prescribed in the scheme of examination. Examination will be conducted in the core subjects at the end of every semester

**Group B**: allied subjects -2 subjects-4 papers
Examination shall be conducted in the allied subjects at the end of first four semesters.

**Group C**: application oriented subjects: 2 subjects – 4 papers
The application-oriented subjects shall be offered during the last two semesters of study viz., V and VI semesters. Examination shall be conducted in the subjects at the end of V & VI semesters.

**Group D**: field work/institutional training
Every student shall be required to undergo field work/institutional training, related to the application-oriented subject for a period of not less than 2 weeks, conveniently arranged during the course of 3rd year. The principal of the college and the head of the department shall issue a certificate to the effect that the student had satisfactorily undergone the field work/institutional training for the prescribed period.

**Diploma Programme**:
All the UG programmes shall offer compulsory diploma subjects and it shall be offered in four papers spread over each paper at the end of III, IV, V, & VI semesters.

e) **Co-Curricular activities: NSS/NCC/Physical education**
Every student shall participate compulsorily for period of not less than two years (4 semesters) in any one of the above programmes.

The above activities shall be conducted outside the regular working hours of the college. The principal shall furnish a certificate regarding the student’s performance in the respective field and shall grade the student in the five point scale as follows

- A-Exemplary
- B-very good
- C-good
- D-fair
- E-Satisfactory

This grading shall be incorporated in the mark sheet to be issued at the end of the appropriate semester (4th or 5th or 6th semester).
(Handicapped students who are unable to participate in any of the above activities shall be required to take a test in the theoretical aspects of any one of the above 3 field and be graded and certified accordingly).

5. **Requirement to appear for the examinations**
   
a) A candidate will be permitted to appear for the university examinations for any semester if
   
i) He/she secures not less than 75% of attendance in the number of working days during the semester.
   
ii) He/she earns a progress certificate from the head of the institution, of having satisfactorily completed the course of study prescribed in the subjects as required by these regulations, and
   
iii) His/her conduct has been satisfactory.

Provided that it shall be open to the syndicate, or any authority delegated with such powers by the syndicate, to grant exemption to a candidate who has failed to earn 75% of the attendance prescribed, for valid reasons, subject to usual conditions.

b) A candidate who has secured less than 65% but 55% and above attendance in any semester has to compensate the shortage in attendance in the subsequent semester besides, earning the required percentage of attendance in that semester and appear for both semester papers together at the end of the latter semester.

c) A candidate who has secured less than 55% of attendance in any semester will not be permitted to appear for the regular examinations and to continue the study in the subsequent semester. He/she has to rejoin the semester in which the attendance is less than 55%

d) A candidate who has secured less than 65% of attendance in the final semester has to compensate his/her attendance shortage in a manner as decided by the concerned head of the department after rejoining the same course.

6. **Restrictions to appear for the examinations**

a) Any candidate having arrear paper(s) shall have the option to appear in any arrear paper along with the regular semester papers.

b) “Candidates who fail in any of the papers in Part I, II & III of UG degree examinations shall complete the paper concerned within 5 years from the date of admission to the said course, and should they fail to do so, they shall take the examination in the texts/ revised syllabus prescribed for the immediate next batch of candidates. If there is no change in the texts/syllabus they shall appear for the examination in that paper with the syllabus in vogue until there is a change in the texts or syllabus. In the event of removal of that paper consequent to change of regulation and / or curriculum after 5 year period, the candidates shall have to take up an equivalent paper in the revised syllabus as suggested by the chairman and fulfill the requirements as per regulation/ curriculum for the award of the degree.
7. **Medium of Instruction and examinations**
   The medium of instruction and examinations for the papers of Part I and II shall be the language concerned. For part III subjects other than modern languages, the medium of instruction shall be either Tamil or English and the medium of examinations is in English/Tamil irrespective of the medium of instructions. For modern languages, the medium of instruction and examination will be in the languages concerned.

8. **Submission of Record Note Books for practical examinations**
   Candidates appearing for practical examinations should submit bonafide Record Note Books prescribed for practical examinations, otherwise the candidates will not be permitted to appear for the practical examinations. However, in genuine cases where the students, who could not submit the record note books, they may be permitted to appear for the practical examinations, provided the concerned Head of the department from the institution of the candidate certified that the candidate has performed the experiments prescribed for the course. For such candidates who do not submit Record Books, zero (0) marks will be awarded for record note books.

9. **Passing Minimum**
   a) A candidate who secures not less than 40% of the total marks in any subject including the Diploma and Foundation courses (theory or Practical) in the University examination shall be declared to have passed the examination in the subject (theory or Practical).
   b) A candidate who passes the examination in all the subjects of Part I, II and III (including the Diploma and Foundation courses) shall be declared to have passed the whole examination.

10. **Improvement of Marks in the subjects already passed**
    Candidates desirous of improving the marks awarded in a passed subject in their first attempt shall reappear once within a period of subsequent two semesters. The improved marks shall be considered for classification but not for ranking. When there is no improvement, there shall not be any change in the original marks already awarded.

11. **Classification of Successful candidates**
    a) A candidate who passes all the Part III examinations in the First attempt within a period of three years securing 75% and above in the aggregate of Part III marks shall be declared to have passed B.A/ B.Sc./B.Com./B.B.M. degree examination in **First Class with Distinctions**
    b) (i) A candidate who passes all the examinations in Part I or Part II or Part III or Diploma securing not less than 60 per cent of total marks for concerned part shall be declared to have passed that part in **First Class**
    (ii) A candidate who passed all the examinations in Part I or Part II or Part III or Diploma securing not less than 50 per cent but below 60 per cent of total marks for concerned part shall be declared to have passed that part in **Second Class**
    (iii) All other successful candidates shall be declared to have passed the Part I or Part II or Part III or Diploma examination in **Third Class**

12. **Conferment of the Degree**
    No candidate shall be eligible for conferment of the Degree unless he / she,
i. has undergone the prescribed course of study for a period of not less than six semesters in an institution approved by/affiliated to the University or has been exempted from the manner prescribed and has passed the examinations as have been prescribed therefor.

ii. Has satisfactory participates in either NSS or NCC or Physical Education as evidenced by a certificate issued by the Principal of the institution.

iii. Has successfully completed the prescribed Field Work/ Institutional Training as evidenced by certificate issued by the Principal of the College.

13. **Ranking**
   
   A candidate who qualifies for the UG degree course passing all the examinations in the first attempt, within the minimum period prescribed for the course of study from the date of admission to the course and secures I or II class shall be eligible for ranking and such ranking will be confined to 10 % of the total number of candidates qualified in that particular branch of study, subject to a maximum of 10 ranks.
   
   The improved marks will not be taken into consideration for ranking.

14. **Additional Degree**
   
   Any candidate who wishes to obtain an additional UG degree not involving any practical shall be permitted to do so and such candidate shall join a college in the III year of the course and he/she will be permitted to appear for par III alone by granting exemption form appearing Part I, Part II and common allied subjects (if any), already passed by the candidate. And a candidate desirous to obtain an additional UG degree involving practical shall be permitted to do so and such candidate shall join a college in the II year of the course and he/she be permitted to appear for Part III alone by granting exemption form appearing for Part I, Part II and the common allied subjects. If any, already passed. Such candidates should obtain exemption from the university by paying a fee of Rs.500/-.

15. **Evening College**
   
   The above regulations shall be applicable for candidates undergoing the respective courses in Evening Colleges also.

16. **Syllabus**
   
   The syllabus for various subjects shall be clearly demarcated into five viable units in each paper/subject.

17. **Revision of Regulations and Curriculum**
   
   The above Regulation and Scheme of Examinations will be in vogue without any change for a minimum period of three years from the date of approval of the Regulations. The University may revise/amend/ change the Regulations and Scheme of Examinations, if found necessary.

18. **Transitory Provision**
   
   Candidates who have undergone the Course of Study prior to the Academic Year 2007-2008 will be permitted to take the Examinations under those Regulations for a period of four years i.e. up to and inclusive of the Examination of April 2012 thereafter they will be permitted to take the Examination only under the Regulations in force at that time.
## Scheme of Examination

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SEMESTER – I  
CORE PAPER – I  
FUNDAMENTALS OF GEOMORPHOLOGY-I

UNIT I


UNIT II


UNIT III

Earthquakes and Volcanoes – Definition, Causes, types – Distribution and effects.

UNIT IV


UNIT V


BOOKS FOR REFERENCE:

SEMESTER – I
CORE PAPER-II

GEOGRAPHY OF INDIA

UNIT I
Location – Physiography – Drainage – Climate – Major Soil Types – Natural Vegetation.

UNIT II

UNIT III

UNIT IV

UNIT V

BOOKS FOR REFERENCE
4. Dubey R.N. & Negi Economic Geography of India.
5. Sigh R.L.(1987), India a Regional Geography, UBS Publishers & Distributors Ltd.,
SEMESTER-II

CORE PAPER-II

FUNDAMENTALS OF GEOMORPHOLOGY-II

UNIT I


UNIT II


UNIT III

Glaciers – Types – Erosional & Depositional Landforms.

UNIT IV

Wind – Aeolian Landforms – Wave – Coastal Landforms.

UNIT V

Concept of Normal Cycle of Erosion by Davis – Applied Geomorphology with reference to engineering and hydrological studies.

BOOKS FOR REFERENCE

SEMESTER – II
PAPER IV CORE PRACTICAL-I

BASICS OF MAPMAKING

UNIT I

Maps – importance and role in Geography – Types and uses of Maps – Types of Scales: Linear and comparative Scales.

UNIT II

Enlargement, Reduction and Combination of Maps – Measurement of area and distance – Bearing and Directions.

UNIT III

Representation of Relief – different methods – Interpolation of contours – Cross section of selected features.

UNIT IV

Profiles: Serial, Superimposed, Projected, Composite profiles – River profile – Longitudinal and transverse.

UNIT V

RECORD.

BOOKS FOR REFERENCE

1. Ragunandan Singh & Kanuja, Map work and Practical Geography, Centrl Books depot Allahabad.
SEMESTER III

GROUP A       PAPER V

CLIMATOLOGY

UNIT I

Atmosphere – Structure – Composition – Green house effect
Insolation – Heat balance.
Inversion of temperature
Factors affecting the horizontal distribution of temperature – Horizontal distribution of temperature.

UNIT II

Atmospheric pressure – Vertical and Horizontal distribution – Thermal and dynamic
origins – pressure gradient.
Wind – General circulation – planetary winds – Seasonal winds – Local winds Seasonal
changes in circulation – El Nino.

UNIT III

Air masses – lapse rates – forms of condensation.
Fronts – Temperate cyclones – Origin and Development.
Tornadoes and Tropical Cyclones – Origin and Development.

UNIT IV

Koppen’s Climatic Classification.
Extreme Weather – Case studies.

BOOKS FOR REFERENCE:
2. Critchfield – Climatology Prentice Hall of India.
3. Lake P – Physical Geography.
SEMESTER III  
GROUP A  
PAPER VI  

POPULATION AND SETTLEMENT

UNIT I


UNIT II


UNIT III


UNIT IV


UNIT V


REFERENCE BOOKS:
3. Mayor HN & Kohn. CF Reading in Urban Geography.
SEMESTER III
GROUP B ALLIED

ELEMENTS OF CARTOGRAPHY

Unit I
Maps: Definition, types, uses – scope and content cartography – branches of cartography – development of cartography from ancient to recent period.

Unit II
Geographic coordinates – types of north – problems of transforming spherical surface – Map projections – classification including UTM – properties, limitations.

Unit III

Unit IV

Unit V
Map compilation and generalization – base map compilation, generalization and finalization.

BOOKS FOR REFERENCE:
B.Sc. GEOGRAPHY
(Diploma Course)
Paper :Basics in Computers

1) Introduction
   • History of Computers
   • Meaning of Computers
   • Advantage of Computers

2) Uses of Computers
   • In Business
   • Industry
   • At Home
   • At Play
   • In Education
   • In Training
   • In Entertainment
   • In Arts
   • In Science
   • In Engineering
   • In Mathematics

3) Types of Computers
   • According to purpose
     ○ General Purpose
     ○ Special Purpose
   • According to type
     ○ Analog Computer
     ○ Thermometer
     ○ Speedometer
     ○ Digital Computer
     ○ Hybrid Computer
   • Super Computer
     ○ Main Frame
     ○ Mini Computer
     ○ Micro Computer

4) Computer of a Computer
   • Input Devices
     ○ Key Boards
     ○ Mouse, Joystick
     ○ Optical Scanner
     ○ Light Pen
     ○ Touch Screen
     ○ Voice Data
     ○ Swart Cards
   • The Central Processing Unit
     ○ Main Memory
5) **Computer Hardware and Software**

- Meaning of Hardware
- Meaning of Software
- Classification of Software
  - Systems Software
  - Application Software

**References:**
4) Rajaraman. V”Fundamentals of Computers”
5) Ram.B,”Computer Fundamentals”

Unit -IV

Waves & Tides – Movement of the ocean – speed of waves – Breaking of waves – Tides – Tide producing forces – types of tide – theories regarding origin of tides - The equilibrium theory, progressive wave theory, stationary wave theory.

Unit -V


Books for reference:

SEMESTER IV PAPE R VIII
PRACTICAL GEOGRAPHY – II

MAP INTERPRETATION AND CLIMATIC DIAGRAMS
100 Marks.

UNIT I
Survey of India – inception – Maps produced by survey of India – Topographic maps – conventional signs and symbols – Cartographic appreciation – Interpretation of Topographic maps of the scale of 1:63360, 1:50000 and 1:250000.

UNIT II
Department of Meteorology – Weather forecasting and Tsunami warning centres – Indian daily weather report – Signs and Symbols – Interpretation of daily weather report maps – Station model – Cyclonic track.
UNIT III
Climatic diagrams – Simple climatic graphs – Climographs – Taylor’s climograph, Hythergraph and Ergo graph.

UNIT IV

UNIT V
RECORDS – 20 MARKS.

BOOKS FOR STUDY
R.L. Singh; Elements of Practical Geography.
John Boygott; Map work and Practical Geography
Ragunandan Singh & K. ananjia – Map work and Practical Geography.
William Bayley Lipton – Landforms and Topographic maps.
Vaidyanathan .R – Index to the study of Topographic maps.

SEMESTER IV GROUP B
CARTOGRAPHY PRACTICAL

UNIT I
Map Setting
Map Reading.

UNIT II
Projections – Cylindrical & Conical. 
Construction, Uses & Properties.

**UNIT III**

Projections – Zenithal & Conventional. 
Construction, Uses & Conventional.

**UNIT IV**

Mapping of socio economic data.

**UNIT V**

Record.

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**SEMESTER IV**

**DIPLOMA PAPER II**

**BASICS OF GIS AND GPS**

**UNIT I**

GIS: Development – Scope – Components of GIS

**UNIT II**

Types of data: Spatial and attribute data – Raster and Vector data Models – their characteristics.

**UNIT III**

Methods of data input – Storage – Data quality – Data output.

**UNIT IV**

Data analysis – Application of GIS in various fields.
UNIT V


Reference:


SEMESTER V PAPER IX COREPAPER GROUP A

GEOGRAPHY OF NATURAL REGIONS OF THE WORLD

UNIT I

Region – definition – Methods of delineation of regions – formal and functional regions.
Natural components of regions – Landforms: Types and Distribution
Climate: Types and Distribution.

UNIT II

Soils: Types and Distribution
Natural Vegetation: Types and Distribution.
Basis of Regionalization.

UNIT III

Equatorial region – Lowland and Highland
Tropical region – Monsoon, grassland and deserts

UNIT IV

Warm Temperate region – Mediterranean, Temperate grasslands and China Type.

Cool Temperate region – West coast Marine, Lawrentian type.

UNIT V

Siberian region

Polar region: Highland of icecap, Lowland or Tundra.

REFERENCE:

SEMESTER V

PAPER X

GEOGRAPHY OF TAMILNADU

UNIT I


UNIT II

UNIT III


UNIT IV


UNIT V


BOOKS FOR REFERENCE

1. India and Pakistan – Spate OHK & Learmonth.
2. Field Crops of India – Sathya Narayanan.
4. Tamilnadu – An Economic Appraisal.

SEMESTER V

GROUP A
PAPER XI

GEOGRAPHY OF RESOURCES-I

UNIT I

Scope and Content – Nature and Classification of resources – Characteristics and their distribution – Utilization and conservation of resources.
UNIT II


UNIT III


UNIT IV

Marine resources – World’s fisheries – Major fishing grounds of the world – Fisheries of Atlantic, Pacific and Indian Oceans – Important fishing harbours of the world, Oceans as the future store house of the world.

UNIT V


BOOKS FOR STUDY
1. Economic Geography – An appraisal of Resources Sadhukhan S.K.
2. Economic and Commercial Geography Negi. B.S.
3. Economic and Commercial Geography – Prof. Qazi S.A.
5. Economic Geography – Alexander J.W.
SEMESTER V

PAPER: AOS I

REMOTE SENSING AND GIS

UNIT I


UNIT II

Aerial Remote sensing – Air Photo – Axis – Lens, Film – Scale types – Uses – Stereo Scopic vision – Elements of Air photo interpretation.

UNIT III


UNIT IV


UNIT V


REFERENCE BOOKS:
SEMESTER V
PAPER: AOS II

URBAN GEOGRAPHY

UNIT I


UNIT II


UNIT III


UNIT IV


UNIT V


BOOKS FOR REFERENCE:

2. Cartes H. The study of Urban Geography, Edward Arnold London.
SEMESTER V

DIPLOMA IN COMPUTER APPLICATIONS IN GEOGRAPHY

Computer Applications in Geography


3. Computer applications in physical geography: geomorphological, hydrological, atmospheric and oceanographic applications – merits and limitations.


5. Role of computers in the development of remote sensing and geographical Information system – their applications in geography – Internet and its uses – world wide web.

REFERENCES:


SEMESTER VI        PAPER XII        GROUP A

**POLITICAL GEOGRAPHY**

UNIT -1
Scope & content of political Geography, Geopolitics. State:- Powers and functions of the State- Categories of the State-Nations and Nationalism.

UNIT-11

UNIT-111
Boundaries and Frontiers: Definition, Boundary classification: Genetic or I functional. Morphological classification (Buffer zone - Land locked countries) -Border disputes.

UNIT - IV
Electoral geography: Geography of elections - Geography of campaigning, voting pattern, voters participation - Gerry mandering - Election Commission.

UNIT-V
Political Geography of India - Integration of Indian status - integration of Sikkim -, India’s border relationship with China-Pakistan- Bangladesh and Srilanka - Indian's I Foreign policy.

**Books for Study**


SEMESTER VI  PAPER XIII  GROUP A

**REGIONAL GEOGRAPHY OF SOUTH EAST ASIA**

UNIT I
UNIT II

UNIT III

UNIT IV

UNIT V

BOOKS FOR STUDY:
2. George B.Cressey – Asia’s lands and people.
5. Dudley Stamp. L. India, Pakistan, Ceylon and Burma.
10. இந்தோனேசியா அரசியல் தொகுப்பு விளக்கம்.

SEMESTER VI   PAPER XIV   GROUP A

SURVEY & INTERPRETATION OF AERIAL PHOTOS AND SATELLITE IMAGES

Marks: 80+20(RECORD)

UNIT I
Land Surveying: Chain Surveying:-Open and closed Traverses, Prismatic Compass:- Open and closed Traverse, Plane table Surveying.

UNIT II
Height Measurement & Leveling : Indian Clinometers : Accessible and Inaccessible bases, Abney level base : Accessible and Inaccessible, Dumpy level; Level difference and height measurement.
UNIT III

Air photo interpretation: Types of air photo – Stereoscopic vision and interpretation of air photos.

UNIT IV

Satellite image interpretation: Interpretation of Single band and Multiband data, True Colour and False Colour composites.

UNIT V

RECORD

BOOKS FOR STUDY

Regunandan Singh & Kamujia – Map work and practical Geography – Central book Debot – Allahabad.
Bygott, Map work and practical Geography – University Tutorial press – London.

SEMESTER VI  PAPER AOS I
ENVIRONMENTAL STUDIES AND MANAGEMENT

UNIT I
Environment – Meaning – Components – Geography and Environmental Fundamental concepts in environmental Geography.

UNIT II
Ecosystems – Meaning – Types – Components.
Transformation of energy in the ecosystem – Food chains, Food Webs.

UNIT III
Natural hazards
Environmental degradation – Meaning and types.
Human impact on the environment – deforestation, soil erosion and degradation, Landslides, Salinisation, Desertification.
Population growth and food supply.
Global climatic change – Global warming.
UNIT IV
Man induced Hazards – Air pollution, Water pollution, Land pollution.
Case studies from the world and India.
Waste management – the problem of toxic wastes.

UNIT V
Environmental impact assessment – Meaning and concept.
Case study of Sardar Sarovar Project and Tehri Dam.
The role of environmental movements in protecting the environment – case studies – world and national level.

SEMESTER VI PAPER AOS II

GEOGRAPHY OF RESOURCES II

UNIT I

UNIT II

UNIT III
Minerals and power resources – Types, Significance, Distribution and production of Iron ore, Bauxite, Copper, Manganese, Tin, Zinc, Lead, Mica and Gypsum – Coal, Petroleum, Natural gas and Atomic power.

UNIT IV
Industrial resources: Localization factors and distribution of Iron and Steel industry – Ship building – Aircraft – Automobile – Cement - Chemical and Textile industries of the world.

UNIT V
Transport and Trade: Major transport systems of the world – Road, Rail and Air transport – Inland water ways and Ocean transport, Composition of International trade – Pattern of trade – Balance of Trade – Recent trends and trade organizations.
SEMESTER VI
DIPLOMA PRACTICAL

COMPUTER APPLICATIONS IN GEOGRAPHY PRACTICAL

1. Basic Computer operations – Use of MS WORD and MS ACCESS.
2. Drawing of diagrams and graphs using Computers.
3. Elementary Image Processing techniques.
4. Raster and Vector data: Digitization and Scanning – Creation of data files.