

Shri Sangameshwar Education Society's
Sangameshwar College, Solapur
(Autonomous)
Faculty of Arts and Humanities

**PROPOSED FINAL
CURRICULUM
UNDER GRADUATE COURSES
CBCS W.E.F. 2022-23
Program: BA**



BA III-SPL Geography
Department of Geography

Sri Sangameshwar Education Society's

Sangameshwar College, Solapur (Autonomous)

Faculty of Arts and Humanities

B. A. Structure of CBCS w.e.f. 2022-23

B.A. III

| Semester V : Duration 6 Months | | | | | | | | | |
|---------------------------------------|-------------------------------|-----------------|-------------|-----------|--------------------------|------------|-------------|-----------|----------------------|
| Teaching Scheme | | | | | Evaluation Scheme | | | | |
| Sr. No. | Course | No. of Lectures | Hours | Credit | SEE | CA | Total Marks | Min Marks | Exam Duration (Hrs.) |
| 1 | AECC V | 4 | 3.2 | 4 | 35 | 15 | 50 | 14+06=20 | 2 |
| 2 | DSE H VII | 4 | 3.2 | 4 | 35 | 15 | 50 | 14+06=20 | 2 |
| Select any one | | | | | | | | | |
| 3 | DSE H VIII | 4 | 3.2 | 4 | 35 | 15 | 50 | 14+06=20 | 2 |
| | | 4 | 3.2 | 4 | 35 | 15 | 50 | 14+06=20 | 2 |
| Select any one | | | | | | | | | |
| 4 | DSE H IX | 4 | 3.2 | 4 | 35 | 15 | 50 | 14+06=20 | 2 |
| | | 4 | 3.2 | 4 | 35 | 15 | 50 | 14+06=20 | 2 |
| Annual | | | | | | | | | |
| 5 | DSE- H - X (Practical- I) | 4 | 3.2 | 4 | 35 | 15 | 50 | 14+06=20 | 2 |
| 6 | DSE- H- XI (Practical- II) | 4 | 3.2 | 4 | 35 | 15 | 50 | 14+06=20 | 2 |
| Select any one | | | | | | | | | |
| 7 | SEC III | 2 | 1.6 | 2 | 35 | 15 | 50 | 14+06=20 | 2 |
| | | 2 | 1.6 | 2 | 35 | 15 | 50 | 14+06=20 | 2 |
| | | 2 | 1.6 | 2 | 35 | 15 | 50 | 14+06=20 | 2 |
| Total | | 26 | 20.8 | 26 | 245 | 105 | 350 | 140 | |

| Semester VI : Duration 6 Months | | | | | | | | | |
|--|-----------|-----------------|-------|--------|--------------------------|----|-------------|-----------|----------------------|
| Teaching Scheme | | | | | Evaluation Scheme | | | | |
| Sr. No. | Course | No. of Lectures | Hours | Credit | SEE | CA | Total Marks | Min Marks | Exam Duration (Hrs.) |
| 1 | AECC VI | 4 | 3.2 | 4 | 35 | 15 | 50 | 14+06=20 | 2 |
| 2 | DSE H XII | 4 | 3.2 | 4 | 35 | 15 | 50 | 14+06=20 | 2 |

| Select any one | | | | | | | | | |
|-----------------------|-------------------------------|-----------|-------------|-----------|------------|------------|------------|----------|---|
| 3 | DSE H XIII | 4 | 3.2 | 4 | 35 | 15 | 50 | 14+06=20 | 2 |
| | | 4 | 3.2 | 4 | 35 | 15 | 50 | 14+06=20 | 2 |
| Select any one | | | | | | | | | |
| 4 | DSE H XIV | 4 | 3.2 | 4 | 35 | 15 | 50 | 14+06=20 | 2 |
| | | 4 | 3.2 | 4 | 35 | 15 | 50 | 14+06=20 | 2 |
| Annual | | | | | | | | | |
| 5 | DSE H XV (Practical –III) | 4 | 3.2 | 4 | 35 | 15 | 50 | 14+06=20 | 2 |
| 6 | DSE H - XVI (Practical-IV) | 4 | 3.2 | 4 | 35 | 15 | 50 | 14+06=20 | 2 |
| Total | | 24 | 19.2 | 24 | 210 | 90 | 300 | 120 | |
| Grand Total | | 50 | 40 | 50 | 455 | 195 | 650 | | |

Lectures: 48 Min. Total Credit for B. A. III: 50

Total Marks for B. A. III: 650

Student Contact Hrs. per week: 19.2 hrs.

AECC Ability Enhancement Core Course: (Compulsory Course)

DSE Discipline Specific Elective (Candidate can opt any two courses from DSC Course which was opted in Part II (Sem III & Sem IV))

H—Spl / Geography /

(A) SEC III Skill enhancement Course /Credit Self Study Course Semester V: 2 credit 30 hrs.

Practical Exam Will be held annually

Sangameshwar College, Solapur (Autonomous)**Faculty of Arts and Humanities****B. A. Structure of CBCS w.e.f. 2022-23****B.A. III**

| Semester V : Duration 6 Months | | | | | | | |
|---------------------------------------|------------------------------|---|------------|------------|-------------|------------|----------------------|
| Evaluation Scheme | | | | | | | |
| Sr. No. | Course | Paper Name | SEE | CA | Total Marks | Min Marks | Exam Duration (Hrs.) |
| 1 | AECC V | English for Communication-V | 35 | 15 | 50 | 14+06=20 | 2 |
| 2 | DSE H VII | Regional Planning and Development | 35 | 15 | 50 | 14+06=20 | 2 |
| Select any one | | | | | | | |
| 3 | DSE H VIII | Urban Geography | 35 | 15 | 50 | 14+06=20 | 2 |
| | | Agriculture Geography | 35 | 15 | 50 | 14+06=20 | 2 |
| Select any one | | | | | | | |
| 4 | DSE H IX | Population Geography | 35 | 15 | 50 | 14+06=20 | 2 |
| | | Resource Geography | 35 | 15 | 50 | 14+06=20 | 2 |
| Annual | | | | | | | |
| 5 | DSE- H - X (Practical- I) | Elements of Map work and Weather Reports | 35 | 15 | 50 | 14+06=20 | 2 |
| 6 | DSE-H- XI (Practical- II) | Techniques in Geography | 35 | 15 | 50 | 14+06=20 | 2 |
| Select any one | | | | | | | |
| 7 | SEC III | A Certificate Course In QGIS | 35 | 15 | 50 | 14+06=20 | 2 |
| | | A Certificate Course In Travel and Tourism | 35 | 15 | 50 | 14+06=20 | 2 |
| | | A Certificate Course in Land Survey | 35 | 15 | 50 | 14+06=20 | 2 |
| Total | | | 245 | 105 | 350 | 140 | |

| Semester VI : Duration 6 Months | | | | | | | |
|--|-------------------------------|---|------------|------------|-------------|------------|----------------------|
| Evaluation Scheme | | | | | | | |
| Sr. No. | Course | Paper Name | SEE | CA | Total Marks | Min Marks | Exam Duration (Hrs.) |
| 1 | AECC VI | English for Communication-VI | 35 | 15 | 50 | 14+06=20 | 2 |
| 2 | DSE H XII | Evolution of Geographical Thought | 35 | 15 | 50 | 14+06=20 | 2 |
| Select any one | | | | | | | |
| 3 | DSE H XIII | Political Geography | 35 | 15 | 50 | 14+06=20 | 2 |
| | | Geography of Health and Wellbeing | 35 | 15 | 50 | 14+06=20 | 2 |
| Select any one | | | | | | | |
| 4 | DSE H XIV | Social Geography | 35 | 15 | 50 | 14+06=20 | 2 |
| | | Hydrology and Oceanography | 35 | 15 | 50 | 14+06=20 | 2 |
| Annual | | | | | | | |
| 5 | DSE H XV (Practical –III) | Topographical Maps and Statistical Methods | 35 | 15 | 50 | 14+06=20 | 2 |
| 6 | DSE H - XVI (Practical-IV) | Surveying and Field Work | 35 | 15 | 50 | 14+06=20 | 2 |
| Total | | | 210 | 90 | 300 | 120 | |
| Grand Total | | | 455 | 195 | 650 | | |

BA III Geography – Syllabus

(To be implemented from 2022-2023)

Semester V

| Sr. No. | Course | Course Code | Paper |
|---------|------------|-------------|--|
| | AECC-V | 2211501 | English for Communication-V |
| 1 | DSE H VII | 2211551 | Regional Planning and Development |
| 2 | DSE H VIII | 2211552 | Urban Geography Agriculture Geography |
| 3 | DSE H IX | 2211553 | Population Geography Resource Geography |
| 4 | DSE H X | 2211554 | Elements of Map work and Weather Reports |

| | | | |
|---|----------|---------|---|
| 5 | DSE H XI | 2211555 | Techniques in Geography |
| 6 | SEC III | 2211556 | A Certificate Course In QGIS A Certificate Course In Travel and Tourism A Certificate Course in Land Survey |

Semester VI

| Sr. No. | Course | Course Code | Paper |
|---------|------------|-------------|---|
| | AECC-VI | 2211601 | English for Communication-VI |
| 1 | DSE H XII | 2211651 | Evolution of Geographical Thought |
| 2 | DSE H XIII | 2211652 | Political Geography Geography of Health and Wellbeing |
| 3 | DSE H XIV | 2211653 | Social Geography Hydrology and Oceanography |
| 4 | DSE H XV | 2211654 | Topographical Maps and Statistical Methods |
| 5 | DSE H XVI | 2211655 | Surveying and Field Work |

DEPARTMENT OF GEOGRAPHY

B. A. Geography Programme Specific Outcomes

After successfully completing B.A. Geography Programme students will be able to:

- Understand the fundamental concepts and principles in various fields of Geography.
- Understand the Structure, processes, stages, theories, models, in branches of Geography.
- Develop general view and importance of man and environment relationship
- Understand various past, present and future problems and overcome them through proper management, planning and sustainability.
- Find out solutions by applying Geographic knowledge to most pressing issues for modern society
- Provide career in education, commerce, industry, transport, tourism, Public and Private sectors.

- Acquire maps and diagram making, use of Geographic equipment, field work, Social communication, report writing, data presentation skills.
- Learn to prepare advanced maps based on GIS by using the remote sensing and GPS technique and application of computer.

CBCS Structure Syllabus w.e.f. June 2022

B. A. III Semester V

Structure of the Course
CBCS BA PART III SEMESTER V

AECC V GROUP- --

PAPER **AECC- V** English for Communication-V (2211501)

SEE 35 +CA 15= 50 Marks

COURSE CREDIT 3L 1T/H- 4

COURSE CONTACT HOUR- 48L+ 12T/H- 60

| SR. NO | MODULE | MODULE CREDIT | MODULE CONTACT HOURS |
|--------|----------------------|---------------|----------------------|
| 1 | Prose | 1 | 15 |
| 2 | Poetry | 1 | 15 |
| 3 | Pronunciation Skills | 1 | 15 |
| 4 | Soft Skills | 1 | 15 |
| TOTAL | | 04 | 60 |

Sangameshwar College, Solapur

AUTONOMOUS

Faculty of Arts and Humanities

Programme B. A. III

CBCS Structure Syllabus w.e.f. June 2022

B. A. III Semester VI

Structure of the Course
CBCS BA PART III SEMESTER- VI

AECC- VI GROUP- ---

PAPER AECC- VI English for Communication-V (2211601)

SEE 35 +CA 15= 50 Marks

COURSE CREDIT- 3L 1T/H- 4

COURSE CONTACT HOUR- 48L+ 12T/H- 60

| SR. NO | MODULE | MODULE CREDIT | MODULE CONTACT HOURS |
|--------|-------------|---------------|----------------------|
| 1 | Prose | 1 | 15 |
| 2 | Poetry | 1 | 15 |
| 3 | Grammar | 1 | 15 |
| 4 | Soft Skills | 1 | 15 |
| TOTAL | | 04 | 60 |

B.A.III Semester V
(CBCS Structure Syllabus w.e.f. June 2022)

Structure of the Course
CBCS BA PART III **SEMESTER - V**

DSE- VII (GROUP - H)

PAPER -VII Regional Planning and Development (2211551)

(SEE 35 +CA 15 = 50 Marks)

COURSE CREDIT:-3L + 1T/H=4

COURSE CONTACT HOUR:- 48 L+ 12T/H= 60

| SR. NO | MODULE | MODULE CREDIT | MODULE CONTACT HOURS |
|--------|---|---------------|----------------------|
| 1. | Region and Regional Planning | 1 | 15 |
| 2. | Delineation of Planning Region | 1 | 15 |
| 3. | Theories and Models for Regional Planning | 1 | 15 |
| 4 | Measuring of Development | 1 | 15 |
| TOTAL | | 04 | 60 |

Structure of the Course
CBCS BA PART III **SEMESTER - V**

DSE- VIII (GROUP - H)

PAPER –VIII Urban Geography (2211552)

(SEE 35 +CA15 = 50 Marks)

COURSE CREDIT:-3L + 1T/H=4

COURSE CONTACT HOUR:- 48 L+ 12T/H=60

| SR. NO | MODULE | MODULE CREDIT | MODULE CONTACT HOURS |
|--------|---------------------------------|---------------|----------------------|
| 1. | Introduction to Urban Geography | 1 | 15 |
| 2. | Patterns of Urbanization | 1 | 15 |

| | | | |
|-------|---|----|----|
| 3. | Function, Structure and Morphology of Urban centres | 1 | 15 |
| 4. | Urban Issue and Case studies | 1 | 15 |
| TOTAL | | 04 | 60 |

CBCS BA PART III **SEMESTER - V**
DSE- VIII (GROUP - H)
PAPER –VIII Agriculture Geography (2211552)

(SEE 35 +CA15 = 50 Marks)

COURSE CREDIT:-3L + 1T/H=4 COURSE CONTACT HOUR:- 48 L+ 12T/H=60

| SR. NO | MODULE | MODULE CREDIT | MODULE CONTACT HOURS |
|--------|---------------------------------------|---------------|----------------------|
| 1. | Introduction to agriculture Geography | 1 | 15 |
| 2. | Determination of Agriculture | 1 | 15 |
| 3. | Agriculture Regions of India | 1 | 15 |
| 4 | Agricultural Land use theory | 1 | 15 |
| TOTAL | | 04 | 60 |

CBCS BA PART III **SEMESTER - V**
DSE- IX (GROUP - H)
PAPER – IX Population Geography (2211553)
(SEE 35 +CA15 = 50 Marks)

COURSE CREDIT:-3L + 1T/H=4 COURSE CONTACT HOUR :- 48 L+ 12T/H=60

| SR. NO | MODULE | MODULE CREDIT | MODULE CONTACT HOURS |
|--------|--|---------------|----------------------|
| 1. | Introduction to Population Geography | 1 | 15 |
| 2. | Population Growth and Distribution | 1 | 15 |
| 3. | Population Dynamics | 1 | 15 |
| 4 | Population Composition and Characteristics | 1 | 15 |
| TOTAL | | 04 | 60 |

CBCS BA PART III **SEMESTER - V**
DSE- IX (GROUP - H)
PAPER –IX Resource Geography (2211553)
(SEE 35 +CA15 = 50 Marks)

COURSE CREDIT:-3L + 1T/H=4

COURSE CONTACT HOUR :- 48 L+ 12T/H=60

| SR. NO | MODULE | MODULE CREDIT | MODULE CONTACT HOURS |
|--------|------------------------------------|---------------|----------------------|
| 1. | Introduction to Resource Geography | 1 | 15 |
| 2. | Natural Resource | 1 | 15 |
| 3. | Energy Resource | 1 | 15 |
| 4 | Sustainable Resource development | 1 | 15 |
| TOTAL | | 04 | 60 |

CBCS BA PART III **SEMESTER - V**

DSE- X (Practical –I) (GROUP - H)

PAPER – X Elements of Map work and Weather Reports (2211554)

(SEE 35 +CA15 = 50 Marks)

COURSE CREDIT:-3L + 1T/H=4

COURSE CONTACT HOUR :- 48 L+ 12T/H=60

| SR. NO | MODULE | MODULE CREDIT | MODULE CONTACT HOURS |
|--------|--|---------------|----------------------|
| 1. | Introduction to Map and Map Scales | 1 | 15 |
| 2. | Map Projection | 1 | 15 |
| 3. | Weather Instruments | 1 | 15 |
| 4 | A) Study of Weather Reports B) Journal & Viva | 1 | 15 |
| TOTAL | | 04 | 60 |

CBCS BA PART III **SEMESTER - V**

DSE- XI(Practical –II) (GROUP - H)

PAPER –XI Techniques in Geography (2211555)

(SEE 35 +CA15 = 50 Marks)

COURSE CREDIT:-3L + 1T/H=4

COURSE CONTACT HOUR :- 48 L+ 12T/H=60

| SR. NO | MODULE | MODULE CREDIT | MODULE CONTACT HOURS |
|--------|---|---------------|----------------------|
| 1. | Representation of Statistical Data | 1 | 15 |
| 2. | Introduction to Remote Sensing | 1 | 15 |
| 3. | Introduction to Computer | 1 | 15 |
| 4 | A) Introduction to GIS and GPS B) Journal & Viva | 1 | 15 |
| TOTAL | | 04 | 60 |

CBCS BA PART III **SEMESTER - V**
SEC III
PAPER – A CERTIFICATE COURSE IN QGIS (2211556)

(SEE 35 +CA15 = 50 Marks)

COURSE CREDIT:-1L + 1T/H=2 COURSE CONTACT HOUR :- 24 L+ 6T/H=30

| SR. NO | MODULE | MODULE CREDIT | MODULE CONTACT HOURS |
|--------|--|---------------|----------------------|
| 1. | Introduction of QGIS, Geo referencing and Digitization | 0.5 | 10 |
| 2. | Types of data and Analysis | 0.5 | 06 |
| 3. | Layout and map composition | 0.5 | 06 |
| 4. | Application in Urban Planning | 0.5 | 08 |
| TOTAL | | 02 | 30 |

CBCS BA PART III **SEMESTER - V**
SEC III
PAPER – A Certificate Course Travel and Tourism (2211556)

(SEE 35 +CA15 = 50 Marks)

COURSE CREDIT:-1L + 1T/H=2 COURSE CONTACT HOUR :- 24 L+ 6T/H=30

| SR. NO | MODULE | MODULE CREDIT | MODULE CONTACT HOURS |
|--------|------------------------------------|---------------|----------------------|
| 1. | Introduction to Tourism | 0.4 | 06 |
| 2. | Economics of Tourism Industries | 0.4 | 06 |
| 3. | Components and Forms of Tourism | 0.4 | 06 |
| 4. | Major tourist attractions in India | 0.4 | 06 |
| 5. | Tourism Marketing | 0.4 | 06 |
| TOTAL | | 02 | 30 |

CBCS BA PART III **SEMESTER - V**
SEC III
PAPER – A Certificate Course in Land Survey (2211556)

SEE 35 +CA15 = 50 Marks

COURSE CREDIT:-1L + 1T/H=2 COURSE CONTACT HOUR :- 24 L+ 6T/H=30

| SR. NO | MODULE | MODULE CREDIT | MODULE CONTACT HOURS |
|--------|--------|---------------|----------------------|
|--------|--------|---------------|----------------------|

| | | | |
|-------|----------------------------------|-----|----|
| 1. | Scale and Area Measurement | 0.4 | 06 |
| 2. | Modern Land Surveying Techniques | 0.4 | 06 |
| 3. | Field trip | 0.4 | 06 |
| 4. | Project work | 0.4 | 06 |
| 5. | Viva – voce | 0.4 | 06 |
| TOTAL | | 02 | 30 |

CBCS BA PART III **SEMESTER - VI**

DSE- XII (GROUP - H)

PAPER –XII Evolution of Geographical Thought (2211651)

(SEE 35 +CA15 = 50 Marks)

COURSE CREDIT:-3L + 1T/H=4

COURSE CONTACT HOUR: - 48 L+ 12T/H=60

| SR. NO | MODULE | MODULE CREDIT | MODULE CONTACT HOURS |
|--------|---|---------------|----------------------|
| 1. | History of Geographical Idea | 1 | 15 |
| 2. | Schools of Geography | 1 | 15 |
| 3. | Dichotomy in Geography | 1 | 15 |
| 4 | Development of Geography after World War II | 1 | 15 |
| TOTAL | | 04 | 60 |

CBCS BA PART III **SEMESTER - VI**

DSE- XIII (GROUP - H)

PAPER –XIII Political Geography (2211652)

(SEE 35 +CA15 = 50 Marks)

COURSE CREDIT:-3L + 1T/H=4

COURSE CONTACT HOUR :- 48 L+ 12T/H=60

| SR. NO | MODULE | MODULE CREDIT | MODULE CONTACT HOURS |
|--------|---|---------------|----------------------|
| 1. | Introduction of Political Geography | 1 | 15 |
| 2. | Concepts in Political Geography | 1 | 15 |
| 3. | Theories in Political Geography | 1 | 15 |
| 4 | Resource Conflicts and Politics of Displacement | 1 | 15 |
| TOTAL | | 04 | 60 |

CBCS BA PART III **SEMESTER - VI**

DSE- XIII (GROUP - H)

PAPER-XIII Geography of Health and Wellbeing (2211652)

(SEE 35 +CA15 = 50 Marks)

COURSE CREDIT:-3L + 1T/H=4

COURSE CONTACT HOUR :- 48 L+ 12T/H=60

| SR. NO | MODULE | MODULE CREDIT | MODULE CONTACT HOURS |
|--------|--|---------------|----------------------|
| 1. | Perspectives on Health: | 1 | 15 |
| 2. | Pressure on Environmental Quality and Health | 1 | 15 |
| 3. | Exposure and Health Risks | 1 | 15 |
| 4 | Climate Change, Health and Disease Patterns | 1 | 15 |
| TOTAL | | 04 | 60 |

CBCS BA PART III SEMESTER - VI

DSE- XIV (GROUP - H)

PAPER-XIV Social Geography (2211653)

(SEE 35 +CA15 = 50 Marks)

COURSE CREDIT:-3L + 1T/H=4

COURSE CONTACT HOUR :- 48 L+ 12T/H=60

| SR. NO | MODULE | MODULE CREDIT | MODULE CONTACT HOURS |
|--------|--|---------------|----------------------|
| 1. | Introduction of Social Geography | 1 | 15 |
| 2. | Peopling Process of India | 1 | 15 |
| 3. | Social Welfare, Wellbeing and Social Problems in India | 1 | 15 |
| 4 | Social Categories and Socio-religious Thoughts of Solapur district | 1 | 15 |
| TOTAL | | 04 | 60 |

CBCS BA PART III **SEMESTER - VI**

DSE- XIV (GROUP - H)

PAPER:XIV Hydrology and Oceanography(2211653)

(SEE 35 +CA15 = 50 Marks)

COURSE CREDIT:-3L + 1T/H=4

COURSE CONTACT HOUR :- 48 L+ 12T/H=60

| SR. NO | MODULE | MODULE CREDIT | MODULE CONTACT HOURS |
|--------|---|---------------|----------------------|
| 1. | Hydrological Cycle | 1 | 15 |
| 2. | River Basin and Problems of Regional Hydrology | 1 | 15 |
| 3. | Ocean Floor Topography ,Ocean Properties and Circulations | 1 | 15 |
| 4 | Coral Reefs and Marine Deposits | 1 | 15 |
| TOTAL | | 04 | 60 |

CBCS BA PART III SEMESTER - VI
DSE- XV (Practical – III) (GROUP - H)

PAPER –XV Topographical Maps and Statistical Methods (2211654)

(SEE 35 +CA15 = 50 Marks)

COURSE CREDIT:-3L + 1T/H=4

COURSE CONTACT HOUR :- 48 L+ 12T/H=60

| SR. NO | MODULE | MODULE CREDIT | MODULE CONTACT HOURS |
|--------|---|---------------|----------------------|
| 1. | Methods of Representation of Relief | 1 | 15 |
| 2. | Study of Topographical Map | 1 | 15 |
| 3. | Statistical methods and techniques | 1 | 15 |
| 4 | A) Introduction and Exercise of Geographical websites: (SOI, Bhuvan) B) Journal & Viva | 1 | 15 |
| TOTAL | | 04 | 60 |

CBCS BA PART III SEMESTER - VI
DSE- XVI (Practical – IV) GROUP - H

PAPER –XVI Surveying and Field Work (2211655)

(SEE 35 + CA15 = 50 Marks)

COURSE CREDIT:-3L + 1T/H=4

COURSE CONTACT HOUR :- 48 L+ 12T/H=60

| SR. NO | MODULE | MODULE CREDIT | MODULE CONTACT HOURS |
|--------|---|---------------|----------------------|
| 1. | Surveying | 1 | 15 |
| 2. | Project work based on field work | 1 | 15 |
| 3. | Study Tour to Important Geographical Places | 1 | 15 |
| 4 | A) Field work with GPS B) Journal & Viva | 1 | 15 |
| TOTAL | | 04 | 60 |

Detailed Syllabus

CBCS BA PART III SEMESTER V

Academic Council 5(5.2)
15th June, 2022

AECC- V GROUP- ---

ENGLISH FOR COMMUNICATION (2211501)

SEE- 35 + CA- 15 = 50

COURSE CREDITS 03L+01T=04

COURSE

CONTACT HOUR 60

Course Objectives:

- To make the students comprehend English language in general
- To enhance the quest for knowledge and correct pronunciations
- To strengthen oral and written communication skills with grammar accuracy
- To galvanize soft skills

Course Outcomes:

By the end of the course the students will be able to:

- Use oral and written English effectively and fluently
- Demonstrate their knowledge of correct pronunciations
- Apply English language skills and grammar accuracy in clearing competitive examinations
- Apply their knowledge of Soft Skills to succeed in career as well as in practical life.

Module No and Title:

Module I: Prose

1. *The Gift of the Magi*: O' Henry
2. *The Homecoming*: Rabindranath Tagore
3. *The California's Tale*: Mark Twain

Module II: Poetry

1. *The Solitary Reaper*: William Wordsworth
2. *The Queen's Rival*: Sarojini Naidu
3. *Oh! How I faint When I
of You Do Write (Sonnet No 80)*: William Shakespeare
4. *The Road Not Taken*: Robert Frost

Module. III: Pronunciation Skills

- 1) Basic Sounds in English
- 2) IPA Symbols
- 3) Phonetic Transcription
- 4) Stress and Intonation

Module. IV: Soft Skills

1. Types of 21st Century Skills
2. Learning Skills (4Cs)

3. Preparation for Employment

Reference Books:

BA/BSC Part III Compulsory English Literary Mindscapes-I PAH Solapur University,
Solapur (With 20% new additions & changes)

Detailed Syllabus CBCS BA PART III SEMESTER VI

Academic Council 5(5.2)
15th June, 2022

AECC- VI GROUP- H ENGLISH FOR COMMUNICATION-VI (2211601)

SEE- 35 + CA- 15 = 50

COURSE CREDITS 03L+01T=04
CONTACT HOUR 60

COURSE

Course Objectives:

- To make the students comprehend English language in general
- To enhance the quest for knowledge and correct pronunciations
- To strengthen oral and written communication skills with grammar accuracy
- To galvanize soft skills

Course Outcomes:

By the end of the course the students will be able to:

- Use oral and written English effectively and fluently
- Demonstrate their knowledge of correct pronunciations
- Apply English language skills and grammar accuracy in clearing competitive examinations
- Apply their knowledge of Soft Skills to succeed in career as well as in practical life.

Module No and Title:

Module. I: Prose

- | | |
|--|----------------|
| 1. <i>Growing Up</i> : | Joyce Cary |
| 2. <i>God See the Truth, but Waits</i> : | Leo Tolstoy |
| 3. <i>On the Rule of The Road</i> : | A. G. Gardiner |

Module. II: Poetry

- | | |
|---|-----------------|
| 1. <i>Sita</i> : | Toru Dutt |
| 2. <i>My Last Duchess</i> : | Robert Browning |
| 3. <i>Ode to Beauty</i> : | John Keats |
| 4. <i>Song: Go and Catch a Falling Star</i> : | John Donne |

Module. III: Grammar

1. Simple and Multiple Sentences
2. Direct and Indirect Speech

Module. IV: Soft Skills

1. Literacy Skills
2. Life Skills
3. Employability Skills

Reference Books:

BA/BSC Part III Compulsory English Literary Mindscapes-I PAH Solapur University
Solapur (With 20% new additions & changes)

Detail Syllabus

CBCS BA PART III **SEMESTER V**

Academic Council 5(5.2)

15th June, 2022

DSE- VII (GROUP-H)

TITLE OF THE PAPER / COURSE: **Regional Planning and Development (2211551)**

SEE-35 + CA- 15 = 50

COURSE CREDITS 03 L+01T= 04

COURSE CONTACT HOUR 60

Objectives:

- To familiarize the student with the types of region and types of Regional Planning.
- To develop design delineation of planning region among students .
- To analyze the theory and models of regional planning to the student
- To understand indicators of measurement of development.

Outcomes:

- Understand the importance of regional planning.
- Remember the concepts of region, regionalization, regional planning and development and detailed knowledge of region.
- Analyze indicators of measurement of development.
- Describe Growth Pole Model, Center place Theory and Growth Foci.
- Apply Model and Model of Economic Growth in Indian context.

Module No and Title:

Module I: Region and Regional Planning

- 1.1. Concept and Types of region.
- 1.2. Concept and Need of Regional Planning
- 1.3 Types of Regional Planning
- 1.4 Approaches of Regional Planning

Module II: Delineation of Planning Region

- 2.1 Choice of Region for Planning
- 2.2 Characteristics of Ideal Planning Region

2.3 Delineation of Planning Region

2.4 Planning Regions of India

Module III: Theories and Models for Regional Planning

3.1 Growth Pole Model of Perroux

3.2 Centre Place Theory of Walter Christaller.

3.3 Model of Economic Growth of Rostow

Module IV: Measuring of Development.

4.1 Indicators of Economic

4.2 Indicators of Social Development

4.3 Indicators of Environmental Development

4.4 Human Development index

List of Reference Books-

- Blij H.J. (Dec.1971): Geography: Regional and Concept, Johan Wiley and Sons.
- Cloud P.I. (1998), An Introduction to Regional Geography, BlackWell Publication,Oxford and Massachusettes.
- Friedemann J.&Alonson W.(1964): Regional Development and Planning, MIT Press, Cambridge.
- Gore C.G. (1984): Regions in Question: Space Development Theory and Regional Policy, Methuen London.
- Peet R. (1999): Theories of Development, Guilford Press, New York.Alden J. & Morgan (1974) :Regional Planning A Comprehensive view, Leonard Hill Books.
- Chand M. & Puri V. (1983): Regional Planning in India, Allied Publisher Ltd., New Delhi.
- Chandana R.C. (2000): Regional Planning & Development, Kalyani Publishers, Ludhiyana
- Cook P. (1983): Theories of Planning & Spatial Development, Hutchinson & Com. Ltd. London.
- Glasson, John (1974): An Introduction to Regional Planning, Hutchinson Educational London.
- Misra R.P., Sundaram K.V. & Rao, etd.(1974): Regional Development Planning in India.
- Misra R.P (1992): Regional Planning, Concept Publishing Com. New Delhi.
- मस्के शिवाजी व राऊत बापू: प्रादेशिक नियोजन व विकास, निराली प्रकाशन पुणे (२०२२)
- डॉ. शैलेश वाघ व सिद्धार्थ सोनवणे: प्रादेशिक नियोजन आणि विकास, प्रशांत प्रकाशन जळगाव (२०१९)
- दंडे व्ही. सी. व राऊत एस. एस. : प्रादेशिक नियोजन व विकास, विद्याज्योती प्रकाशन लातूर (२०२२)

Detail Syllabus

CBCS BA PART III **SEMESTER V**

Academic Council 5(5.2)
15th June, 2022

DSE- VIII (GROUP-H)

TITLE OF THE PAPER / COURSE: **Urban Geography (2211552)**

SEE-35 + CA- 15 = 50
COURSE CREDITS 03 L+01T= 04 COURSE CONTACT HOUR 60

Objectives:

- To describe the basics of urban Geography.
- To understand type of urban Settlements, site and situations.
- To get an ideas of relationship between human activities and urban development.
- To create the students capable for handling the present problematic situation in urban development.
- To make students as a good urban planner and environmental conservator.

Outcomes:

- Understand the importance of urban settlements through urban geography.
- Recognize the types of urban Settlements, Site and situations.
- Correlate human activities and urban development.
- Understand present urban problems and capable to handle of present problematic situations in urban areas.
- Develop as a good urban planner and environmental conservator.

Module No and Title:

Module I: Introduction to Urban Geography

- 1.1 Meaning and definition of Urban Geography
- 1.2 Nature and scope of Urban Geography
- 1.3 Approaches of Urban Geography
- 1.4 Significance of Urban Geography

Module II: Patterns of Urbanization

- 2.1 Meaning of urban settlement
- 2.2 Concept of Urbanization
- 2.3 factors of urbanization
- 2.4 Patterns of Urbanization in developed and developing countries

Module III: Function, Structure and Morphology of Urban centers

- 3.1 Functional classification of town and cities
- 3.2 Structure and morphology of urban centers
- 3.3 City Regions and C.B.D.
- 3.4 Models of urban Morphology- The Concentric Zone Theory, The Sector Theory and the Multi-Nuclei Theory

Module IV: Urban Issue and Case studies

4.1 Problems in urban centers

4.2 Solution of urban problems

4.3 Problem of slums in Solapur city

4.4 Solapur smart city

List of Reference Books-

- Fyfe N. R. and Kenny J. T., 2005: The Urban Geography Reader, Routledge.
- Graham S. and Marvin S., 2001: Splintering Urbanism: Networked Infrastructures, Technological Mobilities and the Urban Condition, Routledge.
- Hall T., 2006: Urban Geography, Taylor and Francis.
- Kaplan D. H., Wheeler J. O. and Holloway S. R., 2008: Urban Geography, John Wiley
- Knox P. L. and McCarthy L., 2005: Urbanization: An Introduction to Urban Geography, Pearson Prentice Hall New York.
- Knox P. L. and Pinch S., 2006: Urban Social Geography: An Introduction, Prentice-Hall.
- Pacione M., 2009: Urban Geography: A Global Perspective, Taylor and Francis.
- Sassen S., 2001: The Global City: New York, London and Tokyo, Princeton University Press.
- Ramachandran R (1989): Urbanisation and Urban Systems of India, Oxford University Press, New Delhi
- Ramachandran, R., 1992: The Study of Urbanisation, Oxford University Press, Delhi
- Singh, R.B. (Ed.) (2015) Urban development, challenges, risks and resilience in Asian.
- मस्के शिवाजी व राऊत बापू: नागरी भूगोल, निराली प्रकाशन पुणे (२०२२)
- प्रकाश सावंत : नागरी भूगोल, फडके प्रकाशन कोल्हापूर
- खतीब : नागरी भूगोल, संजोग प्रकाशन कोल्हापूर

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CBCS BA PART III **SEMESTER V**

Academic Council 5(5.2)

15th June, 2022

DSE- VIII (GROUP-H)

TITLE OF THE PAPER / COURSE: **Agriculture Geography (2211552)**

SEE-35 + CA- 15 = 50

COURSE CREDITS 03 L+01T= 04

COURSE CONTACT HOUR 60

Objectives:

- To help students to know the approaches to study agriculture geography.

- To study the methods of regionalization of agriculture.
- To provide in depth knowledge about agriculture geography.

Outcomes:

- The students were known the importance and modern techniques of Agricultural geography.
- The students understood the factors affecting on agriculture.
- The students were familiar agriculture theories, green revolution and problems associated with agriculture

Module No and Title:

Module I: Introduction to agriculture Geography

1.1 Definition, Nature and Scope of Agriculture Geography

1.2 Importance of Agriculture

1.3 Modern Techniques in Agriculture

Module II. Determination of Agriculture

2.1 Physical

2.2 Economical

2.3 Social

2.4 Cultural

Module III. Agriculture Regions of India

3.1 Agro-Climatic regions

3.2 Agro-Ecological regions

3.3 Crop-Combination

3.4 Crop-Diversification

Module IV. Agricultural Land use theory

4.1 Von Thunen Theory of Agricultural land use

4.2 Green and white revaluation in India

4.3 Agricultural problem and prospects in India - Physical and non-Physical

List of Reference Books-

- Bayliss Smith, T.P.: The Ecology of Agricultural Systems. Cambridge University Press, London. 1987.
- Gregor, H.P.: Geography of Agriculture. Prentice Hall, New York, 1970.
- Grigg, D.B.: The Agricultural Systems of the World, Cambridge University Press, New York. 1974.
- Fulle S.J.: KrushiBhugol; VidhyabhartiPrakashanLatur, 2000.
- Bhatt, M.S. (ed.) 2004: Poverty and Food Security in India Problems and Policies. Akkar Books, New Delhi.
- Morgan W.B. & Muton R.C.(1971): Agricultural Geography, Mathuen, London.
- Singh Jasbir& Dhillon S.S. (2004): Agricultural Geography, Tata Mc-Graw Hill Education, New Delhi.
- Bhatia B.M. (1977): Socio-Economic Growth, Vikas New Delhi.
- Hussain, M. (1999): Systematic Agricultural Geography, Rawat publications, Jaipur. (India)
- Shafi M. (1983): Agricultural Productivity and Regional Imbalances a Study of Uttar Pradesh, Concept, New Delhi.
- Symon, L. (1968): Agricultural geography, London.

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CBCS BA PART III **SEMESTER V**

Academic Council 5(5.2)
15th June, 2022

DSE- IX (GROUP-H)

TITLE OF THE PAPER / COURSE: **Population Geography (2211553)**

SEE-35 + CA- 15 = 50

COURSE CREDITS 03 L+01T= 04

COURSE CONTACT HOUR 60

Objectives:

- To understand the basics of population geography.
- To familiarize the population growth trends and its distribution.
- To analyze the population dynamics and various theories of population.
- To study the population compositions and its characteristics.

Outcomes:

- Understand signification of population geography along with source of demographic data.
- Compare the growth and distribution of world population.
- Analyze the dynamics of population.
- Understand the implications of population composition in different regions of the world.

- Apply the contemporary issues in the field of population studies

Module I: Introduction to Population Geography

- 1.1 Definition of population Geography
- 1.2 Nature and Scope of population Geography
- 1.3 Significance of population Geography
- 1.4 Sources of population data (Census, Statistical abstract, NSS)

Module II: Population Growth and Distribution

- 2.1 Growth of World population
- 2.2 Factors affecting the distribution of population
- 2.3 Population distribution in the world
- 2.4 Theories of population Growth: Malthus Theory and Demographic Transition Theory

Module III: Population Dynamics

- 3.1 Concept of population Dynamics
- 3.2 Fertility: Measures, Causes and Effects
- 3.3 Mortality: Measures, Causes and Effects
- 3.4 Migration: Types, causes and effects

Module IV: Population Composition and Characteristics

- 4.1 Age and Sex Composition
- 4.2 Rural and Urban Composition
- 4.3 Contemporary Issues: AIDS / HIV and Covid 19
- 4.4 Solapur district – Growth and distribution of population

List of Reference Books-

- Barrett H. R., 1995: Population Geography, Oliver and Boyd.
- Bhende A. and Kanitkar T., 2000: Principles of Population Studies, Himalaya Publishing House.
- Chandna R. C. and Sidhu M. S., 1980: An Introduction to Population Geography, Kalyani Publishers.
- Clarke J. I., 1965: Population Geography, Pergamon Press, Oxford.
- Jones, H. R., 2000: Population Geography, 3rd ed. Paul Chapman, London.
- Pacione M., 1986: Population Geography: Progress and Prospect, Taylor and Francis.
- Panda B P (1988): Janasankya Bhugol, M P Hindi GranthAcademy,Bhopal
- Maurya S D (2009) Jansankya Bhugol, Sharda Putak Bhawan, Allahabad
- Chandna, R C (2006), Jansankhya Bhugol, Kalyani Publishers, Delhi

- Trewartha, G T (1969), A Geography of Population: world patterns, John Wiley, New York.
- मस्के शिवाजी आणि व राऊत बापू: नागरी भूगोल, निराली प्रकाशन पुणे (२०२२)

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CBCS BA PART III SEMESTER V

Academic Council 5(5.2)
15th June, 2022

DSE: IX (Group: H)

TITLE OF THE PAPER / COURSE: **Resource Geography (2211553)**

SEE-35 + CA- 15 = 50

COURSE CREDITS 03L+01T=04

COURSE CONTACT HOUR 60

Objectives:

- To understand the concept and classification of Resources.
- To examine the major resources (water, forest, energy and human) with their distribution, utilization and problems.
- To study the sustainable resource development.

Outcomes:

- After the completion of course, the students will have ability to:
- The students were known the importance of Resources.
- The students were familiar with distribution, utilization and problems of resources like water, forest, energy and human.
- Detail understanding the sustainability of natural resource development.

Module I: Introduction to Resource Geography

1.1 Definition, Nature, and Scope of Resource Geography.

1.2 Concept and Classification of Resource.

1.3 Importance of Resource.

Module II: Natural Resource

2.1 Soil Resource – Distribution, Utilization, Problems and Conservation.

2.2 Water Resources-Distribution, Utilization, Problems and Conservation.

2.3 Forest Resource-Distribution, Production, Problems and Conservation.

Module III: Energy Resource

3.1 Conventional Resource-Distribution, Utilization, Problems and Conservation.

3.2 Non-Conventional Resource-Distribution, Utilization, Problems and Conservation.

Module IV: Sustainable Resource development

4.1 Concept of sustainable Resource Development.

4.2 Sustainable Natural Resource Development- Land, Water, Forest, Energy.

4.3 Human Resource Development

List of Reference Books:

- Cutter S. N., Renwich H. L. and Renwick W., 1991: Exploitation, Conservation, Preservation: A Geographical Perspective on Natural Resources Use, John Wiley and Sons, New York.
- Gadgil M. and Guha R., 2005: The Use and Abuse of Nature: Incorporating This Fissured Land: An Ecological History of India and Ecology and Equity, Oxford University Press. USA.
- Holechek J. L. C., Richard A., Fisher J. T. and Valdez R., 2003: Natural Resources: Ecology, Economics and Policy, Prentice Hall, New Jersey.
- Jones G. and Hollier G., 1997: Resources, Society and Environmental Management, Paul Chapman, London.
- Klee G., 1991: Conservation of Natural Resources, Prentice Hall, Englewood.
- Mather A. S. and Chapman K., 1995: Environmental Resources, John Wiley and Sons, New York.
- Mitchell B., 1997: Resource and Environmental Management, Longman Harlow, England.
- Owen S. and Owen P. L., 1991: Environment, Resources and Conservation, Cambridge University Press, New York.

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CBCS BA PART III SEMESTER V

Academic Council 5(5.2)
15th June, 2022

DSE: X (Group: H)

Practical Paper I

TITLE OF THE PAPER / COURSE: **Elements of Map Work And Weather Reports
(2211554)**

SEE-35 + CA- 15 = 50

COURSE CREDITS 03L+01T=04

COURSE CONTACT HOUR 60

Objectives:

- To introduce the students about Map and Map Scales
- To acquaint the student with Map Projection
- To familiar the students with Weather Instruments
- To study of Weather Reports

Outcomes:

- Understand importance of map and map scale in Geography
- Understand the statistical application and interpretation
- Acquire knowledge about different types Projection
- Apply the contemporary issues in weather maps

Module I: Introduction to Map and Map Scales **15**

1.1 Map – Definition, Elements and Classification of Maps.

1.2 Map Scale: Definition, Methods of Representation of scale

1.3 Conversion of Scale

1.4 Construction of Graphical Scale – i) Simple (Plane) Scale ii) Time and Distance Scale
iii) Diagonal Scale

Module II: Map Projection **15**

2.1 Definition of Projections:

2.2 Classification of Projections:

2.3 Graphical Construction of the following Projections with Properties and Use:

i) Zenithal Polar Gnomonic Projection

ii) Zenithal Polar Equal Area Projection

iii) Simple Conical Projection with one standard Parallel

iv) Simple Conical Projection with two standard Parallel

v) Cylindrical equal area projection

vi) Mercator's Projection and Reference to Universal Transverse Mercator (UTM) Projection

Module III: Study of Weather Reports **15**

3.1 Sign and Symbols used in Indian Daily Weather Maps.

3.2 Isobaric Patterns: Cyclone, Anticyclone, Col, Wedge, Trough and Secondary Depression.

3.3 Interpretation of Indian Daily Weather Maps (Rainy, Winter and Summer) Marginal Information, Atmospheric Pressure, Winds, Clouds, Rainfall, other weather phenomena's, Sea Condition, Temperature departure from normal.

Module: IV A) Weather Instruments **15**

4.1 Study of weather Instruments with reference to Principle, Mechanism, and Function

i) Thermograph ii) Barograph iii) Dry and Wet Bulb Thermometer iv) Wind vane v) Cup Anemometer vi) Rain Gauge.

B) Journal and Viva

References:

- Bygoot, J: An Introduction to Mapwork and Practical Geography, University Tutorial, London 1964.
- Khan MD. Zulfequar Ahmad : Text Book of Practical Geography, Concept Publishing Company, New Delhi, 1998
- Mishra, R.P. and Ramesh A. : Fundamentals of Cartography, Concept Publishing Company, New Delhi, 2000
- Monkhouse F.J. and Wilkison, H.R.: Maps and Diagrams, Mathuen. London, 1971.
- Steers j. A.: An Introduction to the study of Map Projection, 1965.
- अर्जुन कुंभार : प्रात्यक्षिक भूगोल, सुमेरू प्रकाशन, डोंबवली 1994
- डॉ. एस. बी. शिंदे : प्रात्यक्षिक भूगोल,
- डॉ. पेंडणेकर व इतर : प्रात्यक्षिक भूगोल, मुंबई विद्यापीठ

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CBCS BA PART III SEMESTER V

Academic Council 5(5.2)

15th June, 2022

DSE- XI GROUP-H

Practical Paper II

TITLE OF THE PAPER / COURSE: **Techniques in Geography (2211555)**

SEE-35 + CA- 15 = 50

COURSE CREDITS 03L+01T=04

COURSE CONTACT HOUR 60

Objectives:

- To describe the students Statistical Data by Graph and Diagram
- To introduce the student with computer
- To study of Remote Sensing GIS and GPS

Outcomes:

- Understand importance of Statistical Data by Graph and Diagram
- Understand the application of computer in Geography
- Acquire knowledge about Remote Sensing GIS and GPS

Module I: Representation of Statistical Data by Graph and Diagram **15**

1.1 Diagrammatic Data Presentation: i) Climograph ii) Hythergraph iii) Ergograph (Crop Calendar)

1.2 Thematic Mapping Techniques: i) Proportional Circle ii) Choropleth Map iii) Dot Map iv) Isopleth v) Star Diagram

Module II: Introduction to Remote Sensing **15**

2.1 Definition, Components and Development of Remote Sensing.

2.2 Principles of Remote Sensing: EMR, Sensors and Platforms.

2.3 Application of Remote Sensing in Geography.

2.4 Aerial photographs and Satellite imagery: Definition, types and Identification of Physical and cultural features from Aerial Photographs or Satellite Imagery

Module III: Introduction to Computer

3.1 Computer Fundamentals: Definition, Characteristics, Hardware & Software.

3.2 Application of computer in Geography

3.3 Construction of Line Graph, Bar Graph, Pie Diagram and Scatter Diagram.

3.4 Significance and application of Internet in Geographical Studies.

Module IV: A) Introduction to GIS and GPS Geographical Information System

Introduction to GIS (Geographical Information System)

4.1 Definition and components, GIS Data Structure: Types (spatial and non-spatial), Raster and Vector data, Geo-referencing, Digitization, Map Layout Preparation

4.2 Application of GIS in Geography: Land use or Land Cover, Urban Sprawl Analysis, Forests Monitoring

Global Navigation Satellite System (Global Positioning System)

4.3 Definition and components, Application of GPS in Geography

4.4 Field work through GPS: Determining latitude, longitude and altitude, Exercise with Google earth Program.

B) Journal and Viva

Referenes:

- Negi., Dr. Balbir Singh : Practical Geography, KedarNath Ram Nath, Meerut, Delhi.
- Raisz, E.: Principals of Cartography, McGraw Hill Book Com., Inc, New York, 1962.
- Robinson, A.H. and Sale, S.D.: Elements of Cartography, John Witey and Sons, Inc, New York, 1969.
- Saha, Pijushkanti and BasuPartha : Advanced Practical Geography – A Laboratory
- अर्जुन कुंभार : प्रात्यक्षिक भूगोल, सुमेरु प्रकाशन, डोंबवली 1994

- एस. बी. शिंदे : प्रात्यक्षिक भूगोल,
- कनकुरे व मानकरी : प्रात्यक्षिक भूगोल,
- डॉ श्रीकांत कार्लेकर : सुदूर संवेदन व भौगोलिक माहिती प्रणाली, डायमंड प्रकाशन पुणे.
- डॉ श्रीकांत कार्लेकर : भौगोलिक माहिती प्रणाली, डायमंड प्रकाशन पुणे, २००६
- परमेश्वर पौळ व बालाजी आव्हाड : भौगोलिक माहिती प्रणाली

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CBCS BA PART III SEMESTER V

Academic Council 5(5.2)
15th June, 2022

SEC - III GROUP-H

TITLE OF THE PAPER / COURSE: **A CERTIFICATE COURSE IN QGIS**
(2211556)

SEE-35 + CA- 15 = 50

COURSE CREDITS 01L+01T=02

COURSE CONTACT HOUR: 30

Objectives:

- To introduce the Georeferencing, Digitization, data analysis in QGIS
- To understand the application of QGIS in Urban Planning

Outcomes:

- Learn the concepts of open-source software
- Understand the interface of QGIS and its plug-ins
- Learn to fetch data into QGIS and work with table attributes
- Create maps using QGIS followed by its printing process

Module I: Introduction of QGIS, Georeferencing and Digitization

1.1 Objectives, working with projection

1.2 Installation of software and plugins

1.3 Toposheet Registration.

1.4 Digitization of Toposheet - point, Line and polygon

Module II: Types of data and Analysis

2.1 Vector data

2.2 Raster data

2.3 Dissolving and Merging

2.4 Clipping and Union Buffering techniques

Module III: Layout and map composition

3.1 Map Preparation

3.2 Map composition

3.3 Symbology in of QGIS

3.4 Working with Tables (Join Tables)

Module IV: Application in Urban Planning

4.1 Mapping urban landuse

4.2 Transportation network

4.3 Utility-Facility mapping

References:

- A comprehensive introduction to Quantum GIS – RudigerThiede and others
- Introduction to QGIS – Scott Madry
- Learn QGIS – Andrew Cutts, Anita Graser
- www.qgis.org
- डॉ श्रीकांत कार्लेकर : सुदूर संवेदन व भौगोलिक माहिती प्रणाली, डायमंड प्रकाशन पुणे.
- परमेश्वर पौळ व बालाजी आव्हाड : भौगोलिक माहिती प्रणाली

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CBCS BA PART III SEMESTER V

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SEC - III GROUP-H

TITLE OF THE PAPER / COURSE: **A CERTIFICATE COURSE IN TRAVEL AND TOURISM (2211556)**

SEE-35 + CA- 15 = 50

COURSE CREDITS 01L+01T=02

COURSE CONTACT HOUR: 30

Objectives: i.To introduce the fundamental concept of Travel and Tourism.

ii.To familiarize with the significance and emerging trends in tourism.

| Unit No | Topic | Subtopic | No. of Periods |
|---------|-------------------------|---|----------------|
| 1 | Introduction to Tourism | 1.1 Meaning & definitions of tourism, traveler, excursionist, 1.2 tourists - Objectives, nature & Classification of tourism & tourists. 1.3 Tourism recreation & leisure inter-relationship. 1.4 Growth and development of Tourism through the ages. | 10 |

| | | | |
|---|------------------------------------|--|----|
| 2 | Economics of Tourism Industries | 2.1 Emergence of Thomas Cook – Emergence of Travel Intermediaries- Definition - The travel Market: Business Travel - Corporate Travel - Commercial Group Travel - Institutional Travel - Leisure Travel - Family Travel - Single Resort Travel - Special Interest Travel. 2.2 Types of travel agency and tour operations - Inter- relationship between Travel agency and tour operation. 2.3 Indian travel agencies and tour operators - an overview. | 10 |
| 3 | Components and Forms of Tourism | 3.1 Components of tourism 3.2 Forms of Tourism: religious, Medical Tourism, historical, social, adventure, health, business, conferences, conventions, incentives, sports Agro and adventure tourism | 10 |
| 4 | Major tourist attractions in India | 4.1 physical and political attractions of Indian subcontinents. 4.2 Tourism attractions in different states and territories of India. | 10 |
| 5 | Tourism Marketing | 5.1 Marketing for Hospitality and Tourism – Definition – Core Marketing Concepts – Marketing Philosophies – Selling Vs Marketing, Differences between Products and Services – Technology and Marketing – 5.2 Specific features of Tourism Marketing. | 10 |
| 6 | Field Work Case Studies | Planning and Organization of tour on famous routes for 2 to 15 days. | 40 |

References:

- Dennis L & Foseter – Glencoe (2003), an Introduction to Travel & Tourism, McGrawHill
- Ghosh Bishwanth (2000), Tourism & Travel Management, Second Revised Edition Vikas Publishing House Pvt Ltd, New Delhi.
- Kaul R.N (1991), Dynamics of Tourism, Sterling Publishers Pvt Ltd, Volume 1,2 & 3 New Delhi,
- Pran Nath Seth (1997), Successful Tourism Management, Sterling Publishers Pvt Ltd, New Delhi,
- Praveen Sethi (1999), Tourism for the Next Millennium, Rajat Publication New Delhi.
- Singh Anand (2005), Tourism in Ancient India, Serials Publications, New Delhi.
- Sinha R.K (2003), Growth and Development of Modern Tourism, Dominant Publishers, New Delhi

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SEC - III GROUP-H

TITLE OF THE PAPER / COURSE: **A CERTIFICATE COURSE IN LAND SURVEY (2211556)**

SEE-35 + CA- 15 = 50

COURSE CREDITS 01L+01T=02

COURSE CONTACT HOUR: 30

Objectives:

- To introduce the students a new technology of Land Surveying.
- To acquaint the students with reading obtained with Total Station/GPS forming a database for surveying and mapping.
- To offer practical training in land surveying to the students and make them surveying experts.

- To generate job opportunities in the corporate and government sector.

Paper I Theory

| Unit No. | Topic | Subtopic | No. of Periods |
|-----------------|--|---|-----------------------|
| 1. | Introduction to Surveying | 1.1 Meaning and definition of surveying 1.2 History of survey, 1.3 Types of surveying, 1.4 Concept of Surveying, 1.5 Uses of surveying | 05 |
| 2. | Scale and Contours | 2.1 Definition and meaning, 2.2 Characteristics and properties, 2.3 Methods of contour, 2.4 Definition and Methods of expression of Scale, Measurement units | 05 |
| 3. | Introduction to S.O.I. Toposheets | 3.1 Indexing, 3.2 Conventional Signs, Symbols 3.3 Interpretation of SOI topographical map | 05 |
| 4. | Surveying | 4.1 Introduction to chain and tape, plane table 4.2 Prismatic compass survey 4.3 Survey instruments and its use, merits and demerits | 05 |
| 5. | Dumpy level Survey | 5.1 Definition and Principles, 5.2 Instruments and its use, Merits and demerits | 05 |
| 6. | Theodolite Survey | 6.1 Definition and Principles, 6.2 Horizontal & Vertical angles, 6.3 Instrument and its use, Merits and demerits | 05 |
| 7. | Computer Cartography | 7.1 Principles of Computer Cartography, 7.2 Hardware and Software, 7.3 Application of Computer Cartography, Advantages and Limitation | 10 |
| 8. | Total Station Surveying | 8.1 Basic Terms used in Total Station Surveying, 8.2 Total Station instrument components, 8.3 Phases of Total Stations Survey, 8.4 Sources of error for total stations, 8.5 Electronic Notebook, Advantage and disadvantage | 10 |

REFERENCES:

- Rangwala S.C. 2011. Surveying and Leveling, Charotar Publishing House Pvt. Ltd. Anand,(GJ)

- Mishra, R.P. (1973): Elements of Cartography. Prasaranga, University of Mysore.
- S. K. Roy (2004) Fundamentals Of Surveying, PHI Learning Pvt. Ltd.
- Robinson, A.H & Sale R.D.: Elements of Cartography. Johns House & Sons, London.
- Sing R. L. (1996) : Map Work & Practical Geography, Central Book Dept. Allahabad.
- Ahmed, E-I. Rabbany 2006) :Introduction to GPS: The Global Positioning System, Artech House, Boston
- Nel, S . (2008):Global Positioning, John Wiley and Sons, Hoboken

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Paper – II (Practical) Field Work and Laboratory Work

| Unit No | Topic | Subtopic | No. of Periods |
|---------|----------------------------------|--|----------------|
| i. | Scale and Area Measurement | 1. Conversion of units 2. Conversion and Construction of scale 3. Exercises on area measurement. 4. Interpolation of contour lines | 15 |
| ii. | Modern Land Surveying Techniques | <ul style="list-style-type: none"> ● Total Station- Vertical and horizontal angle measurement, topographical survey (plain table and contour survey), Stake out / Demarcation/ Survey of Building Layouts / Plot Layouts / Roads / Alignments, Establish Benchmarks, Measurement of remote distance and elevation using special function of TS, Solution of trigonometric problems using COGO function on the field / Site, Calculate 2D, 3D area on the field / Site, Calculation of surface volume on the field / Site, Survey work estimation factors, procedure for download and upload data to TS, TS data formats, Preparation simple survey map using Software. | 25 |
| iii. | Field trip | Organization of field trip for Total Station | 05 |
| iv. | Project work | (Application of Total Station in specific domain area) Total Station data acquisition, Processing and Presentation Project Report : Final Reporting | 20 |
| v. | Viva – voce | Based on Project Work | 05 |

REFERENCE:

- Satheesh Gopi, (2007), Advanced Surveying: Total Station, GIS and Remote Sensing Pearson Education India,
- Charles D. Ghilani, Paul Richard Wolf (2008): Elementary Surveying: An Introduction to Geomatics, Prentice Hall,
- N. N. Basak (1994): Surveying and Leveling, Tata McGraw Hill Publishing Company LTD., New Delhi.

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CBCS BA PART III SEMESTER VI

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DSE-XII GROUP-H

TITLE OF THE PAPER / COURSE: **Evolution of Geographical Thought (2211651)**

SEE- 35 + CA- 15 = 50

COURSE CREDITS 03L+01T= 04

COURSE CONTACT HOUR 60

Objectives:

- To understand the evolution of geographic thought.
- To remember the contemporary trends in geographical studies.
- To understand the debates in the geographical studies.
- To analyze the recent trends in geography

Outcomes:

- Analyze the basic theme, ideas and approaches of geographic knowledge with relation to historical juncture, varying schools and era of their emergence.
- Understand about the debates in the geographical studies.
- Remember of recent trends in Geography.

Module No and Title:

Module I: History of Geographical Idea

- 1.1 Contribution of Greek
- 1.2 Contribution of Roman
- 1.3 Contribution of Indian Geographers
- 1.4 Contribution of Arab Geographers

Module II: Schools of Geography

- 2.1 German School of Geography – Humboldt, Ritter
- 2.2 French School of Geography – Vidal -de-la- Blache
- 2.3 American School of Geography – Ellen Semple

Module III: Dichotomy in Geography

- 3.1 Concept of Dichotomy
- 3.2 Environmental Determinism Vs Possibilism

3.3 Physical Vs Human Geography

3.4 Systematic Vs Regional Geography

Module IV: Development of Geography after World War II

4.1 Quantitative revolution in Geography

4.2 Behaviouralism and Humanism

4.3 System Approach

4.4 Radicalism

List of Reference Books:

- Hartshorne Richard (1959) - Perspective on the nature of Geography Rand McNally & Co., New York
- Dixit R.D. - Geography Thought: A contextual history of Idea
- Dickinson R.E. - Makers of Modern Geography
- Taylor Griffith - Geography of 20th Century
- Sudipta Adhikari: History of Geographical Thought
- Harvey David (1980) - Explanation in Geography Edward - Arnold London
- Husain Majid (1984) - Evolution of Geographical Thought, Rawat Publication, Jaipur
- खतीब : भूविज्ञान विकास, संजोग प्रकाशन, कोल्हापूर
- प्रकाश सावंत : भूविज्ञान विकास, फडके प्रकाशन, कोल्हापूर
- विठ्ठल धारपुरे : भूविज्ञान विकास, पिंपळापुरे प्रकाशन, नागपूर

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DSE-XIII GROUP-H

TITLE OF THE PAPER / COURSE: **Political Geography (2211652)**

SEE-35 + CA- 15 = 50

COURSE CREDITS 03L+01T=04

COURSE CONTACT HOUR 60

Objectives:

- To understand the basic concepts of political geography.
- To familiarize the students with the geographical factors which have a bearing on the geopolitical/ administrative organization of space.
- To enhance awareness of multidimensional nature of geo-political space

Outcomes:

- Understand the history and development of political geography.
- Compare about evaluation of state and nation.
- Analyze Geo-political theories.
- Explain problems and disputes of India with the most current research topics in political geography.

Module No and Title:

Module I: Introduction of Political Geography

- 1.1 Definition of Political Geography
- 1.2 Nature and Scope of Political Geography
- 1.3 Historical Development of Political Geography
- 1.4 Significance of Political Geography

Module II: Concepts in Political Geography

- 2.1 Concept of State and Nation
- 2.2 Frontiers and Boundaries
- 2.3 Elements of State
- 2.4 Concept of Geopolitics

Module III: Theories in Political Geography

- 3.1 Sea power Theory of A. T. Mahan
- 3.2 The Heartland Theory of H. J. Mackinder
- 3.3 Rimland Theory of N. J. Spykman

Module IV: Resource Conflicts and Politics of Displacement

4.1 Ganga Water Conflict (International)

4.2 Krishna Water Conflict (Inter State)

4.3 Boundary dispute- India and China

4.4 Issues of Relief, Compensation and Rehabilitation: Ujani Projects

List of Reference Books:

- Agnew J., 2002: Making Political Geography, Arnold.
- Agnew J., Mitchell K. and Toal G., 2003: A Companion to Political Geography, Blackwell.
- Cox K. R., Low M. and Robinson J., 2008: The Sage Handbook of Political Geography, Sage Publications.
- Cox K., 2002: Political Geography: Territory, State and Society, Wiley-Blackwell
- Gallaher C., et al, 2009: Key Concepts in Political Geography, Sage Publications.
- Glassner M., 1993: Political Geography, Wiley.
- Jones M., 2004: An Introduction to Political Geography: Space, Place and Politics, Routledge.
- Mathur H M and M M Cernea (eds.) Development, Displacement and Resettlement – Focus on Asian Experience, Vikas, Delhi
- Painter J. and Jeffrey A., 2009: Political Geography, Sage Publications.
- Taylor P. and Flint C., 2000: Political Geography, Pearson Education.
- Verma M K (2004): Development, Displacement and Resettlement, Rawat Publications, Delhi
- Hodder Dick, Sarah J Lloyd and Keith S McLachlan (1998), Land Locked States of Africa and Asia (vo.2), Frank Cass
- विठ्ठल धारपुरे : राजकीय भूगोल, पिंपळापुरे प्रकाशन, नागपूर
- ढाके व पाटील : राजकीय भूगोल, प्रशांत प्रकाशन, नागपूर
- खतीब : राजकीय भूगोल, संजोग प्रकाशन, कोल्हापूर
- शैलेश वाघ व सोनवणे : राजकीय भूगोल, अथर्व प्रकाशन, जळगाव

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DSE-XIII GROUP-H

TITLE OF THE PAPER / COURSE: **Geography of Health and Wellbeing (2211652)**

SEE-35 + CA- 15 = 50

COURSE CREDITS 03L+01T=04

COURSE CONTACT HOUR 60

Objectives:

- To study the awareness about the health and wellbeing.
- To evaluating the contemporary trends in geographical studies.
- To understands the debates in the geographical studies.
- To understands the curiosity about disease and health.

Outcomes:

- Understand various geographical perspectives related to human health.
- Create awareness of human health and environment.
- The students are familiar with geographical background of diseases and their regional pattern.
- Detail understanding of pressure on environmental quality and human health.
- The students are familiar with the process of health care planning in India.
- The students are aware about impact of climate change on human health.

Module I: Perspectives on Health

1.1 Definition and scope

1.2 Linkages with environment and development

1.3 Health and Environmental trends: Population dynamics, urbanization, poverty and inequality

Module II: Pressure on Environmental Quality and Health

2.1 Human activities and its pressure on environment and Health

2.2 Land use and agricultural development

2.3 Industrialization

2.4 Transport

Module III: Exposure and Health Risks

3.1 Air pollution

3.2 Water Pollution

3.3 Household wastes

3.4 Housing

3.5 Workplace

Module IV: Climate Change, Health and Disease Patterns (In Environmental Context with special reference to India)

4.1 Communicable diseases and their regional pattern – AIDS and Covid 19

4.2 Lifestyle related diseases and their regional pattern – Cancer and Diabetes

4.3 Climate change and human health

4.4 Nutrition and human health

References:

- Akhtar Rais (Ed.), 1990: Environment and Health Themes in Medical Geography, Ashish Publishing House, New Delhi.
- Avon Joan L. and Jonathan A Patzed., 2001: Ecosystem Changes and Public Health, Baltimin, John Hopling Unit Press(ed).
- Bradley, D., 1977: Water, Wastes and Health in Hot Climates, John Wiley Chichesten.
- Brown T., S. Mc Lafferty, and G. Moon. 2009. A companion to health and medical geography. Chichester, UK: Wiley-Blackwell. DOI:
- Christaler George and HristopolesDionissios, 1998: SpatioTemporal Environment Health Modelling, Boston Kluwer Academic Press.
- Cliff, A.D. and Peter, H., 1988: Atlas of Disease Distributions, Blackwell Publishers, Oxford.
- Emch, M., Root, E.D., Carrel, M., 2017, Health and Medical Geography, Fourth Edition Guilford Publications
- Gatrell, A., and Loytonen, 1998: GIS and Health, Taylor and Francis Ltd, London.
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- Gesler, W., and W. Kearns. 2002. Culture place and health. Critical Geographies. London: Routledge.
- Hardham T. and Tannav M., (eds): Urban Health in Developing Countries; Progress, Projects, Earthgoan, London.
- Moeller Dadewed., 1993: Environmental Health, Cambridge, Harvard University Press.
- Shelar, S.K., 2012: Introduction to Medical Geography, Chandralok Pub., Kanpur.
- Tromp, S., 1980: Biometeorology: The Impact of Weather and Climate on Humans and their Environment, Heydon and Son.

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DSE-XIV GROUP-H

TITLE OF THE PAPER / COURSE: **Social Geography (2211553)**

SEE-35 + CA- 15 = 50

COURSE CREDITS 03L+01T=04

COURSE CONTACT HOUR 60

Objective:

- To understand the concept, nature and scope of social geography.
- To study the technological, occupational and migration changes of peoples in India.
- To analyze different social categories and their spatial distribution.
- To define the concept of social welfare, wellbeing and social problem

Outcomes:

- Understand the problems and prospects of society in India.
- Describe technological, occupational and migration changes of peoples in India.
- Recognize the social categories and their spatial distribution.
- Understand of social welfare wellbeing and solve social problem in India

Module No and Title:

Module I: Introduction of Social Geography

- 1.1 Definition of Social Geography
- 1.2 Nature and Scope of Social Geography
- 1.3 Branches of Social Geography
- 1.4 Approaches and Importance of Social Geography

Module II: Peopling Process of India

- 2.1 Concept of peopling process
- 2.2 Technological Changes
- 2.3 Occupational Changes
- 2.4 Migration

Module III: Social Welfare, Wellbeing and Social Problems in India

- 3.1 Concept of Social Welfare and Wellbeing

3.2 Components of Social Welfare and Wellbeing – Healthcare, Housing and Education

3.3 Social Welfare through Five Year Plans in India

3.4 Social Problems in India - Slums, Communal Conflicts and Crime

Module IV: Social Categories and Socio-religious Thoughts of Solapur district

4.1 Religion

4.2 Language

4.3 Literacy

4.4 Socio-religious Thoughts of the Siddeshwara

References:

- Ahmed A., 1999: Social Geography, Rawat Publications.
- Casino V. J. D., Jr., 2009) Social Geography: A Critical Introduction, Wiley Blackwell
- Cater J. and Jones T., 2000: Social Geography: An Introduction to Contemporary Issues, Hodder Arnold.
- Panelli R., 2004: Social Geographies: From Difference to Action, Sage.
- Rachel P., Burke M., Fuller D., Gough J., Macfarlane R. and Mowl G., 2001: Introducing Social Geographies, Oxford University Press.
- Smith D. M., 1977: Human geography: A Welfare Approach, Edward Arnold, London.
- Smith D. M., 1994: Geography and Social Justice, Blackwell, Oxford.
- Valentine G., 2001: Social Geographies: Space and Society, Prentice Hall.
- विठ्ठल धारपुरे : सामाजिक भूगोल, पिंपळापुरे प्रकाशन, नागपूर

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DSE-XIV GROUP-H

TITLE OF THE PAPER / COURSE: Hydrology and Oceanography (2211654)

SEE-35 + CA- 15 = 50

COURSE CREDITS 03L+01T=04

COURSE CONTACT HOUR 60

Objective:

- To study the basic knowledge of hydrological cycle on the globe.
- To study the importance of oceans and seas related to precipitation on the earth surface and its impact on agriculture.
- To understand the riverine basin and its impact on human settlement
- To study the marine importance and its necessity to over population in future

Outcomes:

- Students were able to visualize the basic theme, ideas and approaches of geographic knowledge about hydrological cycle related to formation of precipitation, infiltration, ground water recharge.
- Understanding of human interference on hydrological cycle and its impact on globally drought region, flooded area.

Module I: Hydrological Cycle

1.1 Systems approach in hydrology,

1.2 Hydrological Cycle, human impact on the hydrological cycle;

1.3 Precipitation, interception, evaporation, evapo-transpiration, infiltration, ground- water, run off and over land flow; Hydrological input and output.

1.4 Water budget on globe.

Module II: River Basin and Problems of Regional Hydrology

2.1 Characteristics of river drainage basins,

2.2 Basin surface run-off,

2.3 Measurement of river discharge

2.4 Floods and droughts.

Module III: Ocean Floor Topography ,Ocean Properties and Circulations

3.1 Ocean Floor Topography,

3.2 Ocean Waves, Currents and Tides.

3.3 Ocean Salinity and Temperature –Distribution and Determinants.

Module IV: Coral Reefs and Marine Deposits

4.1 Types and Theories of Origin of Coral formation;

4.2 Biotic and Mineral wealth in seas and oceans

References:

- Andrew. D. ward and Stanley, Trimble (2004): Environmental Hydrology, 2nd edition, Lewis Publishers, CRC Press.
- Karanth, K.R., 1988 : Ground Water: Exploration, Assessment and Development, Tata- McGraw Hill, New Delhi.
- Ramaswamy, C. (1985): Review of floods in India during the past 75 years: A Perspective. Indian National Science Academy, New Delhi.
- Rao, K.L., 1982 : India's Water Wealth 2nd edition, Orient Longman, Delhi,.
- Singh, Vijay P. (1995): Environmental Hydrology. Kluwar Academic Publications, The Netherlands.
- 6.Anikouchine W. A. and Sternberg R. W., 1973: The World Oceans: An Introduction to Oceanography, Prentice-Hall.
- 7.Garrison T., 1998: Oceanography, Wordsworth Company, Belmont.
- Kershaw S., 2000: Oceanography: An Earth Science Perspective, Stanley Thornes, UK
- Pinet P. R., 2008: Invitation to Oceanography (Fifth Edition), Jones and Barlett Publishers, USA, UK and Canada.
- Sharma R. C. and Vatal M., 1980: Oceanography for Geographers, Chaitanya Publishing House, Allahabad.
- Sverdrup K. A. and Armbrust, E. V., 2008: An Introduction to the World Ocean, McGraw Hill, Boston.
- Singh, M., Singh, R.B. and Hassan, M.I. (Eds.) (2014) Landscape ecology and water management. Proceedings of IGU Rohtak Conference, Volume 2. Advances in Geographical and Environmental Studies, Springer
- Raghunath, H.M. (2006): Hydrology: Principles, analysis and Design (2nd Ed.), New age International, New Delhi.
- Cech, T.V. (2009): Principles of Water Resources: History, Development, Management, and Policy (3rd Ed.), Wiley, Hoboken, New Jersey.

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DSE-XV GROUP-H
Practical Paper III

TITLE OF THE PAPER / COURSE: **Topographical Maps and Statistical Methods**
(2211655)

SEE-35 + CA- 15 = 50

COURSE CREDITS 03L+01T=04

COURSE CONTACT HOUR 60

Objectives:

- To introduce the students Methods of Representation of Relief
- To acquaint the student with Topographical Map
- To understand the Statistical methods and techniques

Outcomes:

- Understand Methods of Representation of Relief
- Describe Topographical Map
- Apply knowledge about Statistical methods and techniques

Unit I: Methods of Representation of Relief

1.1 Methods of Relief

Spot Heights, Hachures, Hill shading, Layer Tint, Form lines, Contours

1.2 Types of Slope: Gentle, Steep, Even, Uneven, Convex, Concave, Terraced.

1.3 Representation of Relief by Contours: Hill, Plateau, Ridge, Cliff, Col or Pass, Gorge 'V' Shaped Valley, Waterfall, Sea cliff.

1.4 Expression of Slopes: a) Gradient b) Degree c) Per Cent d) Mills

Unit II: Study of Topographical Map

2.1 Development of Survey of India

2.2 Indexing of S.O.I. Topographical Maps

2.3 Signs and Symbols used in SOI Toposheets

2.4 Interpretation of S.O.I.'s Topographical Map (Mountain, Plateau and Plain) a) Marginal Information b) Physical environment: Relief, Drainage and Vegetation c) Cultural environment: Settlements, Transportation and Communication, Irrigation. d) Land Use

Unit III: Statistical methods and techniques

3.1 Geographical Data / information:

Spatial and Temporal

Individual, Discrete and Continuous Data

3.2 Analysis of data by the following statistical techniques

Measures of Central Tendency: Mean, Median and Mode

Dispersion: Mean deviation, Standard deviation and Quartile Deviation.

3.3 Correlation: Karl Pearson's Method

3.4 Analysis of Time Series: Semi-average Method and Moving average method

Unit IV: A) Introduction and Exercise of Geographical websites: (SOI, Bhuvan)

B) Journal and Viva

References:

- *Sarkar, Ashis : Practical Geography: A systematic Approach, Orient Longman limited, Calcutta, 1997.*
- *Singh, Gopal : Map work and Practical Geography Vikas Publishing House Pvt. Ltd. New Delhi, 1996.*
- *Singh, R and Kanaujia, L.R.S.: Map Work and Practical Geography, Central Book Depot, Allahabad.*
- *Singh, R. L. and Rana P.B. : Elements of Practical Geography, Kalyani Publishers, New Delhi – Ludhiana, 1998.*

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DSE-XVI GROUP-H
Practical Paper IV

TITLE OF THE PAPER / COURSE: Surveying and Field Work (2211655)

SEE-35 + CA- 15 = 50

COURSE CREDITS 03L+01T=04

COURSE CONTACT HOUR 60

Objectives:

- To introduce the students about field techniques and tools.
- To introduce the students to design the field report
- To acquaint the student with writing of tour report

Outcome:

- Understand proper field work for the collection of primary data to bring out grassroots realities
- Use of proper tools and surveying methods for measurement in context of collection and processing of data
- Know to prepare a project report based on data

Unit I: Surveying

Survey: Meaning and types

Preparation of plans of the given area with the following survey method (Any one method among them)

A) Dumpy Level survey

B) Plane Table survey (Radial, Intersection, open and closed Traverse method)

C) Abony Level Survey

D) Preparation of plans by Prismatic compass survey (Radical, Intersection, open and closed Traverse method)

Correction of bearing

E) Preparation of plans by Chain and Tape survey (Triangulation, open and closed Traverse method)

F) Cross staff surveying

Unit II: Project work based on field work

Resource, Population, Agricultural, Settlement, Environmental, Industrial, Health issues, any other issues related to local area.

(Project Report must be content of following points: Introduction – Aims – Objectives - Review of the literature - Data collection – Methodology - Data Analysis – Interpretation - Findings – Suggestions – Bibliography)

Unit III: Study Tour

Maximum 15 days at Geographical Interest in India and preparation of Excursion report.

Unit IV: A) Field work with GPS

B) Journal & Viva

References:

- Aher A. B., Chodhari A. P. & Bharambe S. N. Techniques of Spatial Analysis Prashant Publication Jalgaon 2015
- P. Saha and P. Basu (2006): Advanced Practical Geography, Books and Allied Publication, Kolkata, India.
- Khullar, Essentials of Practical Geography, New Academic Publishing Co, India.
- Singh L R (2011): Fundamentals of Practical Geography
- Robinson Rep. (2010): Elements of Cartography

**Chairman
BOS in Geography**