

2017-18

K.L.E. Society's
LINGARAJ COLLEGE, BELGAUM
 (AUTONOMOUS)

B.A. - I Semester

Geography
 SYLLABUS

Paper: Physical Geography - I
 (w.e.f 2016-17 and onwards)

Teaching hours per week: 5 Hours

Maximum Marks : 100 Marks
 Semester End Examination : 70 Marks
 Internal Assessment : 30 Marks

At the end of this course students will be able to:

- CO1. Understand the basics of Geography
- CO2. Gain knowledge about earth's interior
- CO 3. Identification of different types of rock and minerals.
- CO4. Understand and Analyze the Endogenetic and Exogenetic forces acting on the Earth Surface.
- CO 5. Understand the processes of erosion, deposition and resulting landforms

Units	Syllabus	No of period
	Introduction	
I	a. Meaning and scope of Physical Geography	4
	b. Solar System, Planets, Satellites, and Eclipses	4
	c. Latitudes and Longitudes, Prime Meridian and International Date Line	4
	d. Interior of the earth and seismological evidences	3
	Lithosphere	
II	a. Crustal movements. Wagener's theory of continental drift, Isostasy and Plate tectonic theory.	5
	b. Classification of rocks on the bases of origin –Igneous, Sedimentary and Metamorphic rocks	5
	Diastrophic Movements	
III	a. Process of Folding and Faulting , Causes and Effects	5
	b. Causes, Effects and distribution of Earthquakes and Volcanoes	5
	Weathering	
IV	a. Meaning and types of weathering i) Physical, ii) chemical and iii) biological	8
	b. Methods of writing Assignments in Geography	
	Agents of erosion	
V	Landforms Associated with Erosion and Deposition of:	
	a. The Rivers	4



	b. The Wind	4
	c. The Glacier	4
	d. Sea Waves	
	Total	55
Internal : 30 marks		
	Two internal tests carrying 10 marks each. Field work/seminars/assignment/ class participation/ project work etc carry 10 marks	

Suggested Readings

: Text Books:

1. Barry. R.G. and Chorley P.J : Atmosphere, Weather and Climate, Routledge London and New York, 1998
2. Critchfield, J.H. : General Climatology, Prentice Hall, India, New Delhi, 1993.
3. Das, P.K. : Monsoons National Book Trust, New Delhi, 1987.
4. Goudar M B : Physical Geography(Kannada) Vidyanidhi Prakashan Gadag 2002
5. India Met. Dept. : Climatological Tables of Observations in India, Govt. of India, 1968.
Hangaragi S S : Climatology and Biogeography, Shree Sangamesha Prakashan Guledagudd 2006.
6. King, C.A.M. : Oceanography for Geographers 1962
7. Mallappa, P. : Physical Geography,(Kannada)Chethana Book house Mysore 2006
8. Mankhouse, F G. : Physical Geography, University of London, Press London 1962
9. Nanjannavar, S S. : Physical Geography, J M Publication Manjanathnagar Bangalore 2001
10. Ranganath. : Physical Geography,(Kannada) Vidyanidhi Prakashan Gadag 2006
11. Sparks, B.W. : Geomorphology, Longman, London, 1960.
12. Strahler, A.N : Physical geography, John Wiley, New York 1950
13. Siddhartha. K. : Basic Physical Geography. Kosalaya Publication Pvt.Ltd New Delhi 2014
14. Tikka, R N. : Physical Geography, Kedarnath Ramnath and Co Meerut 1997



Suggested Readings :-

1. Misra, R.P. and Ramesh. : A. Fundamentals of Cartography, McMillan Co., New Delhi, 1986.
2. M F Karennavar, and S S Nanjannavar : Practical Geography, Vijaya Book Depot and Prakashan Gadag, 1996
3. NCERT Text Book : Practical Work in Geography, NCERT Sri Aurobindo Marg, New Delhi, 2006
4. Pal, S.K. Statistics for Geoscientists – : Techniques and Applications, Concept, New Delhi, 1998
5. Robinson, A.H. et al : Elements of Cartography, John Wiley & Sons, U.S.A., 1995.
6. Sarkar A. :K Practical Geography : A Systematic Approach, Oriental Longman, Calcutta, 1997
7. Shaha. P. and Basu. P. : Advanced Practical Geography, Books and Allied (p) Ltd Kolcatta 2007
8. Singh, R.L. and Dutt, P.K. : Elements of Practical Geography, Kalyani Publishers, New Delhi, 1979.


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K.L.E. Society's
LINGARAJ COLLEGE, BELGAUM
(AUTONOMOUS)

B.A. - I Semester

Geography

PRACTICAL:

Scales and Representation of Statistical Data

(Syllabus w.e.f 2016-17 and onwards)

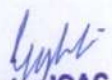
Teaching hours per week: 4 Hours

Maximum Marks : 100 Marks
Semester End Examination : 70 Marks
Internal Assessment : 30 Marks


At the end of this course students will be able to:

- CO 1. Understand types of Scales and their uses
- CO 2. Acquaint with the different types of Scales.
- CO 3. Represent the statistical data meaningfully through graphically and pictorially.
- CO 4. Learn to use of various meteorological instruments.

Sl No	Unit	Hours
I	Scales Definition and Types Scales	5
II	Conversion and Construction of scales 1. Conversion of Scales From R F to Verbal and Verbal to R F 2. Construction of scales a. Graphical scales b. Comparative scales c. Time scales d. Diagonal scales	25
III	Representation of climatic data a. Temperature b. Humidity c. Atmospheric pressure d. Rainfall	10
	Internal : 15 Marks One internal tests carrying 05 marks. Journal and Viva - Voce : 05 Marks	
	Total	40


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B.A. - I Semester
Geography
SYLLABUS

Paper: Physical Geography - I
(w.e.f 2019-20 and onwards)

Teaching hours per week: 5 Hours

Maximum Marks : 100 Marks
Semester End Examination : 70 Marks
Internal Assessment : 30 Marks

At the end of this course students will be able to:

- CO1. Understand the basic concepts of Geography
CO2. Gain knowledge about earth's interior
CO3. Identify of different types of rock and minerals.
CO4. Understand and Analyze the Endogenetic and Exogenetic forces acting on the Earth Surface.
CO 5. Understand the processes of erosion, deposition and resulting landforms.

Sl No	Sub-Unit	Period
	Introduction	
I	a. Meaning and scope of Physical Geography	4
	b. Solar System, Planets, Satellites, and Eclipses	4
	c. Latitudes and Longitudes, Prime Meridian and International Date Line	4
	Lithosphere	
II	a. Crustal movements. Wagener's theory of continental drift, Isostasy and Plate tectonic theory.	5
	b. Interior of the earth and seismological evidences	3
	c. Classification of rocks on the bases of origin: Igneous, Sedimentary and Metamorphic rocks.	5
	Earth Movements	
III	a. Process of Folding and Faulting , Causes and Effects	5
	b. Causes, Effects and distribution of Earthquakes and Volcanoes	5
	Weathering	
IV	a. Meaning and types of weathering i) physical, ii) chemical and iii) biological	8
	b. Methods of writing Assignments in Geography	
	Agents of erosion	
V	Landforms Associated with Erosion and Deposition of:	
	a. The Rivers	3
	b. The Wind	3
	c. The Glacier	3
	d. Sea Waves	3
	Total	55
	Internal : 30 marks	



Two internal tests carrying 10 marks each.
Field work/seminars/assignment/ class participation/ project work etc
carry 10 marks

Suggested Readings

: Text Books:

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2. Critchfield, J.H.: General Climatology, Prentice Hall, India, New Delhi, 1993.
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6. King, C.A.M. Oceanography for Geographers 1962
7. Mallappa, P.: Physical Geography,(Kannada)Chethana Book house Mysore 2006
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11. Sparks, B.W. Geomorphology, Longman, London, 1960.
12. Strahler, A.N : Physical geography, John Wiley, New York 1950
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(AUTONOMOUS)

B.A. - I Semester

Physical Geography

(With effect from 2020-21 and onwards)

(CBCS Syllabus- 2020-21)

Teaching hours per week: 4 Hours

Maximum Marks	: 100 Marks
Semester End Examination	: 70 Marks
Internal Assessment	: 30 Marks

At the end of this course students will be able to:

- CO1. Understand the basic concepts of Geography
- CO2. Gain knowledge about earth's interior
- CO 3. Understand the components of weather.
- CO4. Understand the wind system of the Earth.
- CO5. Understand the Oceans and their nature.

Sl. No	Units	Hours
I	<p style="text-align: center;">Introduction to Physical Geography</p> <ul style="list-style-type: none"> a. Definitions, Nature, Scope and content of Physical Geography b. Branches of Physical Geography. c. Future of Physical Geography. d. Theories of Origin of Earth; Nebular and Tidal Theories e. Distribution of land and water bodies: Wager's theory of continental drift and plate tectonic, 	12
II	<p style="text-align: center;">Lithosphere</p> <ul style="list-style-type: none"> a. Internal structure of the Earth Direct and Indirect Evidences b. Types of Rocks: Igneous, Sedimentary and Metamorphic rocks, c. Forces of Earth: Endogenic and Exogenic forces. d. River, Wind and Glacier as Geomorphic Agent 	12
III	<p style="text-align: center;">Atmospheric Temperature</p> <ul style="list-style-type: none"> a. Elements of Weather and Climate. b. Composition and structure of the Atmosphere. c. Factors Controlling the Atmospheric Temperature. Vertical and Horizontal distribution of atmospheric Temperature. d. Heat Budget of the Earth e. Case Study: Visit to the Green House and Submit the Report to the Department 	10
IV	<p style="text-align: center;">Atmospheric circulation</p> <ul style="list-style-type: none"> a. Atmospheric Pressure: Factors affecting the Atmospheric Pressure. Vertical and Horizontal Distribution. b. Wind System: Planetary, Seasonal and Local. c. Precipitation: Types of Humidity and Rainfall 	10
V	<p style="text-align: center;">Hydrosphere</p> <ul style="list-style-type: none"> a. Relief of the Ocean floor, Hypsographic Curve b. Tides and Ocean Currents: Indian, Pacific and Atlantic Oceans 	08



	c. Factors affecting the distribution of the Temperature, Salinity and Density of Ocean water.	
		Total Hours 52

Suggested Readings

: Text Books:

1. Barry. R.G. and Chorley P.J.; Atmosphere, Weather and Climate, Routledge London and New York, 1998
2. Critchfield, J.H.: General Climatology, Prentice Hall, India, New Delhi, 1993.
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10. Ranganath.: Physical Geography,(Kannada) Vidyanidhi Prakashan Gadag 2006
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12. Strahler, A.N : Physical geography, John Wiley, New York 1950
13. Siddhartha. K. Basic Physical Geography. Kisalaya Publication Pvt.Ltd New Delhi 2014
14. Tikka, R N.: Physical Geography, Kedarnath Ramnath and Co Meerut 1997
15. ಪ್ರೊ. ಡಿ. ಎ. ಕೊಲ್ಲಾಪುರೆ & ಪ್ರೊ. ಎಸ್.ಎಸ್.ನಂಜಣ್ಣನವರ: ವಾಯುಗುಣಶಾಸ್ತ್ರ ಮತ್ತು ಮಹಾಸಾಗರ ವಿಜ್ಞಾನ


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B.A. - I Semester
 Geography
PRACTICAL:

Scales and Representation of Statistical Data
 (w.e.f 2019 - 20 and onwards)

Teaching hours per week: 4 Hours

Maximum Marks : 50 Marks
 Semester End Examination : 35 Marks
 Internal Assessment : 15 Marks

At the end of this course students will be able to:

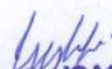
- CO 1. Understand types of Scales and their importance.
 CO 2. Convert the Scale from RF to VS and VS to RF
 CO 3. Represent the statistical data meaningfully through graphically and pictorially.
 CO 4. Learn to use of various meteorological instruments.

Sl No	Unit	Hours
	Scales	
I	Definition, Types and Significance of Scales	5
II	<p style="text-align: center;">Conversion and Construction of scales</p> <p>1. Conversion of Scales From R F to Verbal and Verbal to R F</p> <p>2. Construction of scales</p> <p>a. Graphical scales b. Comparative scales c. Time scales d. Diagonal scales</p>	20
III	<p style="text-align: center;">Representation of climatic and Statistical data</p> <p>a. Statistical Data Representation:</p> <p>i) Choropleth ii) Isopleth iii) Dot Map iv) Pictorial Diagrams</p> <p>b. Representation of Climatic Data by Graphs</p> <p>i) Temperature ii) Humidity iii) Atmospheric pressure iv) Rainfall</p>	15
	<p style="text-align: center;">Internal : 15 Marks</p> <p>One internal tests carrying 05 marks. Journal and Viva - Voce : 05 Marks</p>	
	Total	40



Suggested Readings :-

1. Misra, R.P. and Ramesh. : A. Fundamentals of Cartography, McMillan Co., New Delhi, 1986.
2. M F Karenavar, and S S Nanjannavar : Practical Geography, Vijaya Book Depot and Prakashan Gadag, 1996
3. NCERT Text Book : Practical Work in Geography, NCERT Sri Aurobindo Marg, New Delhi, 2006
4. Pal, S.K. Statistics for Geoscientists – : Techniques and Applications, Concept, New Delhi, 1998
5. Robinson, A.H. et al : Elements of Cartography, John Wiley & Sons, U.S.A., 1995.
6. Sarkar A.:K Practical Geography : A Systematic Approach, Oriental Longman, Calcutta, 1997
7. Shaha. P. and Basu. P. : Advanced Practical Geography, Books and Allied (p) Ltd Kolcatta 2007
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B.A. - I Semester

Practical Geography

Practical: Maps, Scales and Meteorological Instruments

(With effect from 2020-21 and onwards)

(CBCS Syllabus- 2020-21)

Teaching hours per week: 4 Hours

Maximum Marks : 100 Marks

Semester End Examination : 70 Marks

Internal Assessment : 30 Marks

At the end of this course students will be able to:

CO1. Understand importance of Latitudes and Longitudes

CO2. Convert the Scale from RF to VS and VS to RF

CO3. Develop an idea about different Scales and draw different types of Scale like Graphical, comparative, Time and diagonal.

CO4. Learn the basics of Spatial Technology.

Sl. No.	Units	Hours
I	Maps a. Latitudes and Longitudes b. Longitudes: Local Time, Standard time, Greenwich Mean Time, Time Zones and International Date Line. c. Maps: Definition, Types and importance of Maps	18
II	Scales a. Definition, types, Methods of representation and uses of Scales b. Conversion of Scales: Representative fraction (RF) to Verbal scale and verbal scale to Representative fraction (RF) c. Construction of Scales: Graphical, Comparative and Diagonal.	15
III	Components of GIS a. Computer System b. Software c. Data d. GPS	12
	Total Hours	45

Note: * Each practical batch consists of 15 students with one in-charge teacher. In case the student number is less than 10 is also considered as one batch with one teacher in-charge.

* Certification of journal by the in-charge teacher is must and submits the same in the Sem. End practical exam, failing that such candidate will lose journal marks i.e. 05 marks

Suggested Readings :-



1. Misra, R.P. and Ramesh. A. Fundamentals of Cartography, McMillan Co., New Delhi, 1986.
2. M F Karenavar, and S S Nanjannavar : Practical Geography, Vijaya Book Depot and Prakashan Gadag, 1996
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DEPARTMENT OF GEOGRAPHY

B. A. - II Semester

Paper: Physical Geography - II

(w.e.f. 2016-17 and onwards)

SYLLABUS

Teaching hours per week – 5 Hours

Maximum Marks : 100

Semester End Examination Marks : 70

Internal Assessment Marks : 30

At the end of this course students will be able to:

- CO1. Understand the basics of Atmosphere
- CO2. Understand the importance of the atmospheric pressure and winds.
- CO3. Understand how atmospheric moisture works
- CO4. They will be able to understand the importance of the ozone layer and bad effect of green- house gasses moreover will be eligible to apply this for the solution of environmental problem
- CO5. Develop an idea about concept of oceans, tides, currents and salinity of ocean water

Sl. No.	Unit	Hours
I.	Introduction to climatology a. Origin, Structure and Composition of Atmosphere b. Elements of Weather and Climate c. Methods of Writing Project Reports	7
II.	Insolation and Pressure a. Heat budget of the earth. b. Factors Controlling the Atmospheric Temperature c. Horizontal and Vertical distribution of temperature. d. Pressure Belts.	8
III	Atmospheric Circulation a. Types of Winds - Planetary, Seasonal, Local and Variable winds (Cyclone and Anti cyclone) b. Humidity – Absolute, Relative and Specific c. Forms of Condensation and Precipitation d. Air Masses and their types	15
IV	Surface configuration of Ocean floor a. Hypsographic Curve b. Relief features of the Ocean floor: i. Indian Ocean ii. Pacific Ocean and iii. Atlantic Ocean	10



	Properties and Movement of Ocean Water	
V	a. Factors affecting the distribution of Temperature, Salinity and density of ocean water b. Ocean Tides c. Mechanism and formation of Atlantic, Pacific and Indian Ocean currents.	15
	Internal : 30 Marks	
	Two internal tests carrying 10 marks each. Field work/seminars/assignment/class participation/ project work etc carry 10 marks.	
	Total	55

Suggested Readings:

1. Barry. R.G. and Chorley P.J.; Atmosphere, Weather and Climate, Routledge London and New York, 1998
2. Critchfield, J.H.: General Climatology, Prentice Hall, India, New Delhi, 1993.
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8. Mankhouse, F G.: Physical Geography, University of London, Press London 1962
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DEPARTMENT OF GEOGRAPHY

B. A. - II Semester

Practical: Maps and Representation of relief features

(Syllabus w.e.f. 2016-17 and onwards)

Teaching hours per week – 4 Hours

Maximum Marks : 50
 Semester End Examination Marks : 35
 Internal Assessment Marks : 15

At the end of this course students will be able to:

- CO1. Understand the types of maps and their uses
- CO2. Acquire the skills to change the map size and scales
- CO3. Able to draw the different types of landforms with the help of contour lines.

Sl. No	Units	Hours
I	Maps a. Maps: Meaning, Elements and types. b. Representation of Statistical Data i. Choroplath Map ii. Isoplath Map iii. Dot Map iv. Pictorial Map	10
II	Enlargement and Reduction of Maps a. Enlargement of maps 4 Exercises b. Reduction of maps 4 Exercises	10
III	Relief representation by contours a. Meaning and methods of relief representation. b. Representation of the following Relief features: 1. Hill and Slopes, 2. Plateau, 3. Spur, 4. Volcano with creator, 5. Saddle, 6. Pass, 7. V and U Shaped Valley. 8. Waterfall, 9. Rapids, 10. Cirque, 11. Cliff, 12. Escarpment, 13. Ox-bow- lake.	20
Total		40
Internal Marks-15 : One internal test carrying - 15 Marks		

Suggested Readings :-

1. Misra, R.P. and Ramesh. A. Fundamentals of Cartography, McMillan Co., New Delhi, 1986.
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DEPARTMENT OF GEOGRAPHY

B. A. - II Semester

Paper: Physical Geography - II

(w.e.f. 2019-20 and onwards)

SYLLABUS

Teaching hours per week – 5 Hours

Maximum Marks : 100
 Semester End Examination Marks : 70
 Internal Assessment Marks : 30

At the end of this course students will be able to:

- CO1. Understand the basic concepts of Geography
- CO2. Understand the importance of the atmospheric pressure and winds.
- CO3. Understand how atmospheric moisture works
- CO4. They will be able to understand the importance of the ozone layer and bad effect of green- house gasses moreover will be eligible to apply this for the solution of environmental problem
- CO5. Develop an idea about concept of oceans, tides, currents and salinity of ocean water

Sl. No.	Unit	Hours
I.	Introduction to Climatology	7
	a. Meaning Definition and Significance of Climatology	
	b. Weather and Climate	
	c. Climate Change	
	d. Structure and Composition of Atmosphere	
II.	Insolation and Pressure	8
	a. Factors Controlling the Atmospheric Temperature	
	b. Horizontal and Vertical distribution of temperature.	
	c. Heat budget of the earth.	
	d. Pressure Belts.	
III.	Atmospheric Circulation and Disturbances	15
	a. Types of Winds - Planetary, Seasonal and Local Winds	
	b. Cyclones and Anti cyclones	
	c. Humidity – Absolute, Relative and Specific	
	d. Forms of Condensation and Precipitation	
	e. Air Masses and their types	
IV.	Configuration of Ocean floor	10
	a. Hypsographic Curve	
	b. Relief features of the Ocean floor:	
	i. Indian Ocean	
	ii. Pacific Ocean and iii. Atlantic Ocean	
V.	Properties and Movement of Ocean Water	15
	a. Factors affecting the distribution of Temperature, Salinity and	



	density of ocean water b. Ocean Tides c. Mechanism and formation of Atlantic, Pacific and Indian Ocean currents.	
	Internal : 30 Marks Two internal tests carrying 10 marks each. Field work/seminars/assignment/class participation/ project work etc carry 10 marks. Methods of Writing Project Reports	
		Total 55

Suggested Readings:

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4. Goudar M B : Physical Geography(Kannada) Vidyanidhi Prakashan Gadag 2002
5. India Met. Dept.: Climatological Tables of Observations in India, Govt. of India, 1968.
6. Hangaragi S S: Climatology and Biogeography, Shree Sangamesha Prakashan Guledagudd 2006.
7. King, C.A.M. Oceanography for Geographers 1962
8. Mallappa, P.: Physical Geography,(Kannada)Chethana Book house Mysore 2006
9. Mankhouse, F G.: Physical Geography, University of London, Press London 1962
10. Nanjannavar, S S.: Physical Geography, J M Publication Manjanathnagar Bangalore 2001
11. Ranganath.: Physical Geography,(Kannada) Vidyanidhi Prakashan Gadag 2006
12. Sparks, B.W. Geomorphology, Longman, London, 1960.
13. Strahler, A.N : Physical geography, John Wiley, New York 1950
14. Siddhartha. K. Basic Physical Geography. Kisalaya Publication Pvt.Ltd New Delhi 2014
15. Tikka, R N.: Physical Geography, Kedarnath Ramnath and Co Meerut 1997

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DEPARTMENT OF GEOGRAPHY
B. A. - II Semester

Practical: Maps and Representation of relief features
 (Syllabus w.e.f. 2019-20 and onwards)

Teaching hours per week – 4 Hours

Maximum Marks : 50
 Semester End Examination Marks : 35
 Internal Assessment Marks : 15

At the end of this course students will be able to:

- CO1. Understand the types of maps and their uses
 CO2. Acquire the skills to change the map size and scales
 CO3. Able to draw the different types of landforms with the help of contour lines

Sl. No	Units	Hours
	Maps	
I.	a. Maps: Meaning, Elements and Importance of Maps.	10
	Enlargement and Reduction of Maps by Graphical Method	
II.	a. Enlargement of maps 2 Exercises b. Reduction of maps 2 Exercises	10
	Relief representation by contours	
III.	a. Meaning and methods of relief representation. b. Representation of the following Relief features: Hill and Slopes, Plateau, Spur, Volcano with creator, Saddle, Pass, V and U Shaped Valley. Waterfall, Rapids, Cirque, Cliff, Escarpment, Ox-bow- lake.	20
Internal Marks-15 One internal test carrying – 15 Marks		40

Suggested Readings :-

- Misra, R.P. and Ramesh. A. Fundamentals of Cartography, McMillan Co., New Delhi, 1986.
- M F Karennavar, and S S Nanjannavar : Practical Geography, Vijaya Book Depot and Prakashan Gadag, 1996
- NCERT Text Book : Practical Work in Geography, NCERT Sri Aurobindo Marg, New Delhi, 2006
- Pal, S.K. Statistics for Geoscientists – Techniques and Applications, Concept, New Delhi, 1998
- Robinson, A.H. et al : Elements of Cartography, John Wiley & Sons, U.S.A., 1995.
- Sarkar A.:K Practical Geography : A Systematic Approach, Oriental Longman, Calcutta, 1997
- Shaha. P. and Basu. P. : Advanced Practical Geography, Books and Allied (p) Ltd

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B.A. - II Semester

Geography

Paper: Regional Geography of Karnataka

(With effect from 2020-21 and onwards)

(CBCS Syllabus- 2020-21)

Teaching hours per week – 5 Hours

Maximum Marks : 100

Semester End Examination Marks : 70

Internal Assessment Marks : 30

At the end of this course students will be able to:

- CO1. Understand the Physiography of the State
CO2. Understand the importance of the Rivers and their nature in the State.
CO3. Understand the cultivation and distribution of major crops
CO4. Understand the distribution, production of the Minerals and Industries.
CO5. Understand the population dynamics of the State.

Sl. No.	Unit	No. of Periods/ Hours
1	Physical Aspects a. Location, Size, Extent b. Physiographic divisions. c. Climate, Rivers, Soils and Vegetation.	10
2	River Valley Projects a. River Valley Projects: Krishna, Malaprabha, Ghataprabha, Tungabhadra and Cauvery Rivers. b. River Water Dispute: Cauvery, Krishna and Mahadai.	12
3	Agriculture a. Irrigation: Sources and Types b. Types of Agriculture. c. Cultivation, Distribution and Production of major Crops: i) Food crops: Paddy, Jowar and Wheat. ii) Commercial Crops: Cotton, Sugar Cane. iii) Beverage Crops: Coffee and Tea.	10
4	Mineral and Industries a. Distribution and Production of Mineral Resources: Iron ore, Manganese, b. Bauxite and Gold. c. Distribution and Production of major industries: Iron and Steel, Sugar, Cotton textile and Cement Industries.	10
5	Population, Urbanization and Transportation a. Growth and distribution, Density, Sex-ratio and Literacy. b. Process of urbanization and trends. c. Patterns of Road and Railway, Ports and Harbours.	10
Total Hours		52

Suggested Readings:

1. Dr.Ranganath: Karnataka Pradeshika Bhogolasastra: Vidyanidhi Prakasana, Gadag, 2017.
2. Dr.Ranganath: Geography of Karnataka, Mysore Book House, Mysore, 2018.
3. Dr.Suryanath U.Kamath: A Concise History of Karnataka, Shyamraj Publishers, 2019.


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B.A. - II Semester

Practical Geography

Practical Paper: - Interpretation of IMD Weather maps

(With effect from 2020-21 and onwards)

(CBCS Syllabus- 2020-21)

Teaching hours per week – 4 Hours

Maximum Marks : 50

Semester End Examination Marks : 35

Internal Assessment Marks : 15

At the end of this course students will be able to:

CO1. Acquaint with the signs and symbols used in IMD Weather Charts.

CO2. Understand the interpretation of IMD Weather Charts

CO3. Able to the different types of landforms with the help of contour lines

No.	Units	Hours
1	Signs and Symbols Signs and Symbols used in the I.M.D Weather Maps.	15
2.	Weather instruments and their functions: a. Maximum and Minimum Thermometer b. Barometer. c. Wind Wane, Cup-Anemometer d. Rain Gauge.	15
3.	I.M.D. Weather Maps Interpretation a. South West Monsoon season - 2 Exercises b. North East monsoon season - 2 Exercises c. Winter season - 2 Exercises - 2 Exercises d. Summer season - 2 Exercises - 2 Exercises	22
Total		52

Suggested Readings :-

1. Misra, R.P. and Ramesh. A. Fundamentals of Cartography, McMillan Co., New Delhi, 1986.
2. Pal, S.K. Statistics for Geoscientists – Techniques and Applications, Concept, New Delhi, 1998
3. Robinson, A.H. et al : Elements of Cartography, John Wiley & Sons, U.S.A., 1995.
4. Sarkar A.:K Practical Geography : A Systematic Approach, Oriental Longman, Calcutta, 1997
5. Shaha. P. and Basu. P. : Advanced Practical Geography, Books and Allied (p) Ltd Kolcatta 2007


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B.A. - III Semester

Geography

SYLLABUS

Paper: - Regional Geography of India

(With effect from 2014 -15 and onwards)

Teaching hours per week: 5 Hours

Maximum Marks	: 100 Marks
Semester End Examination	: 70 Marks
Internal Assessment	: 30 Marks

At the end of this course students will be able to:

- CO1. Understand Significance of the Himalayas on the Climate of India.
- CO2. Know the Agriculture System of India.
- CO3. Understand the distribution of minerals and Industries.
- CO4. Know the role of Transportation in the national development.
- CO5. Understand the Demography of the Country.

S.No.	Units	hours
	Physiography	
I	a. Location and extent. b. Physiographic Divisions. c. Drainage system. d. Climate. e. Vegetation.	12
	Agriculture	
II	a. Significance of Agriculture. b. Factors influencing on agricultural activities. c. New trends in Agriculture: Organic farming and Zero cultivation. d. Distribution of: Rice, Wheat, Cotton, Sugarcane, Tea and Coffee	10
	Minerals and Manufacturing Industries	
III	a. Distribution of Iron ore, Bauxite and Coal b. Factors influencing location of industries c. Distribution and Production of Iron and Steel Aluminum and Cotton Textile industries	10
	Transportation	
IV	a. Modes of transportation. b. Significance of Transportation in regional development. c. Role of Golden Quadrilateral and Corridors in the Regional Development in India d. Networks of Road ways, Railways and Air ways.	10
	Population	
V	a. Demographic Characteristics. b. Distribution and Trends of population. c. Demographic transition theory.	10
	Total	52



Suggested Readings:


1. Deshpande.C.D. : India-A regional interpretation Orthen Book centre, New Delhi.1992
2. Farmer.B.H : An Introduction to south. Methuen, London, 1983
3. Govt. Of India : India -Reference Annual, 2001 Pub .Div, New 2001.
4. Govt. of India : National Atlas of India, NATMO Pub -location, Calcutta.
5. Govt. of India : The Gazetteer of India. Vol I and III Publication Division, New Delhi -1965
6. Mitra, A. : Levels o Regional Development India - Census of India, Vol I, Part I- A (i) and (ii) New Delhi, 1967
7. Prof.R.P.Mishra : Geography of Mysore State
8. Prof.N.B.Reddy & Murthy : Regional Geography of Karnataka
9. Prof.Ramachandra Rao : Geography of Karnataka

Kannada medium books:

1. M.B.Goudar : Regional Geography of India Vidhynidi prakashan station road, Gadag-582101.
2. M.B.Goudar : Regional Geography of Karnataka Vidhynidi prakashan Station road, Gadag-582101.
3. S.S.Nanjannavar : Regional Geography of India Vidhynidi Prakashan station road Gadag-582101,


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B.A. - III Semester

Geography

Practical Paper: - Interpretation of IMD Weather maps
(With effect from 2014 -15 and onwards)

Teaching hours per week: 4 Hours

Maximum Marks	: 50 Marks
Semester End Examination	: 35 Marks
Internal Assessment	: 15 Marks

At the end of this course students will be able to:

- CO1. Acquaint with the conventional signs and symbols used in the IMD Weather Charts.
CO2. Understand weather Instruments that are helpful to know the Weather and Climate.
CO3. Analyze the data collected from various sources.
CO4. Judge the Season of the Weather Chart based on the available data and map

No.	Units	Hours
I	Signs and Symbols Signs and Symbols used in the I.M.D Weather Maps.	15
II	I.M.D Weather Instruments Weather instruments and their functioning.	10
III	Weather Maps Interpretation a. South West Monsoon season - 2 Exercises b. North East monsoon season - 2 Exercises c. Winter season - 2 Exercises d. Summer season - 2 Exercises	20
Total		45

Suggested Books:

- | | |
|---|--|
| 1. R.L.Singh | : Element of practical Geography |
| 2. Gopal Sing | : Practical Geography |
| 3. Singh & Khanaujia | : practical Geography |
| 4. B.S.Negi | : Practical Geography |
| 5. M.F.Karenavar and
S.S.Nanjannavar | : Practical Geography (Kannada) |
| 6. K.R.Ramamurthy | : Interpretation of Topographical Maps |
| 7. Mohammad Aslam | : Statistical methods in studies |


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B.A. - III Semester

Geography

SYLLABUS

Paper: -Regional Geography of India

(w.e.f 2017-18 and onwards)

Teaching hours per week: 5 Hours

Maximum Marks : 100 Marks

Semester End Examination : 70 Marks

Internal Assessment : 30 Marks

At the end of this course students will be able to:

- CO1. Understand Significance of the Himalayas on the Climate of India.
- CO2. Know the relief features, Drainage pattern, climate and soil of India.
- CO3. Understand the distribution of Minerals and Industries.
- CO4. Understand the significance of transportation and how they are playing their role in minimizing the regional imbalance.
- CO5. Understand the demographic aspects of the country.

Sl. No.	Unit	Hours
I	Physiography a. Location and extent. b. Physiographic Divisions. c. Drainage system. d. Climate. e. Vegetation. f. Soils	10
II	Agriculture a. Types of Irrigation- Canal ,Well, Tank , Sprinkler, Drip irrigation b. Multipurpose Projects: Bhakra Nangal, Damodar Valley project c. Significance of Agriculture. d. Types of Agriculture:Shifting , Intensive Subsistence, Commercial, Organic and Zero cultivation e. Geographical factors required for cultivation, distribution and production of: i. Food crops: Rice and Wheat, ii. Commercial crops: Cotton and Sugarcane and iii. Plantation crop: Tea and Coffee	15
III	Minerals and Manufacturing Industries a. Distribution and Production of Iron ore, Bauxite and Coal b. Factors influencing location of industries c. Distribution and Production of Iron and Steel Sugarcane and	10



	Cotton Textile industries	
	Transportation	
IV	a. Significance of Transportation in regional development: Spatial interaction, Areal specialization, Extension of markets, Optimization of Production units, Division of Labor b. Role of Golden Quadrilateral and Corridors in the Regional Development in India. c. Networks of Road ways, Railways and Air ways.	10
	Population	
V	a. Growth and Trend of Population b. Growth, Distribution and Density of population.. c. Demographic transition theory.	10
	Total	55

Suggested Readings:

1. Deshpande.C.D.: India-A regional interpretation Orthen Book centre, New Delhi.1992
2. Farmer.B.H: An Introduction to south. Methuen, London, 1983
3. Govt. Of India: India -Reference Annual, 2001 Pub .Div, New 2001.
4. Govt. of India: National Atlas of India, NATMO Pub -location, Calcutta.
5. Govt. of India: The Gazetteer of India. Vol I and III Publication Division, New Delhi -1965
6. Mitra, A.: Levels o Regional Development India - Census of India, Vol I, Part I- A (i) and (ii) New Delhi, 1967
7. Prof.R.P.Mishra: Geography of Mysore State
8. Prof.N.B.Reddy & Murty: Regional Geography of Karnataka
9. Prof.Ramachandra Rao: Geography of Karnataka

Kannada medium books:

1. M.B.Goudar: Regional Geography of India Vidhynidi prakashan station road, Gadag-582101
2. M.B.Goudar: Regional Geography of Karnataka Vidhynidi prakashan Station road, Gadag-582101
3. S.S.Nanjannanavar: Regional Geography of India Vidhynidi Prakashan station road Gadag-582101


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B.A. - III Semester

Geography

Practical Paper: - Interpretation of IMD Weather maps
(w.e.f 2017-18 and onwards)

Teaching hours per week: 4 Hours

Maximum Marks : 50 Marks
Semester End Examination : 35 Marks
Internal Assessment : 15 Marks

At the end of this course students will be able to:

- CO1. Know the conventional signs and symbols used in the IMD Weather Charts.
CO2. Understand weather Instruments that are helpful to decide Weather and Climate.
CO3. Analyze the data collected from various sources.
CO4. Judge the Season of the Weather Chart based on the available data and map.

Sl.No	Units	Hours
I	Signs and Symbols Signs and Symbols used in the I.M.D Weather Maps.	15
II.	I.M.D Weather Instruments Weather instruments and their functioning.	10
III.	Weather Maps Interpretation a. South West Monsoon season - 2 Exercises b. North East monsoon season - 2 Exercises c. Winter season - 2 Exercises d. Summer season - 2 Exercises	20
Total		45

Suggested Books:

1. R.L.Singh : Element of practical Geography
2. Gopal Sing : Practical Geography
3. Singh & Khanaujia : practical Geography
4. B.S.Negi : Practical Geography
5. R.P.Mishra & A.Ramesh : Fundamentals of Cartography
6. M.F.Karenavarand
S.S.Nanjannavar : Practical Geography (Kannada)
7. K.R.Ramamurthy : Interpretation of Topographical Maps
8. Mohammad Aslam : Statistical methods in studies


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B.A. - III Semester

Geography

SYLLABUS

Paper: -Regional Geography of India

(w.e.f 2020-21 and onwards)

Teaching hours per week: 5 Hours

Maximum Marks : 100 Marks

Semester End Examination : 70 Marks

Internal Assessment : 30 Marks

At the end of this course students will be able to:

CO1. Understand Significance of the Himalayas on the Climate of India.

CO2. Know the relief features, Drainage pattern, climate and soil of India.

CO3. Understand the distribution of Minerals and Industries.

CO4. Understand the significance of transportation and how they are playing their role in minimizing the regional imbalance.

CO5. Understand the demographic aspects of the country.

Sl.No.	Units	Hours
I	Physical Features a. Location and extent. b. Physiographic Divisions. c. Drainage system. d. Climate. e. Vegetation. f. Soils	10
II	Agriculture a. Multipurpose Projects: Bhakra Nangal and Damodar Valley project. b. Significance of Agriculture. c. Types of Agriculture: Shifting , Intensive Subsistence , Commercial , Organic and Zero cultivation d. Geographical factors required for cultivation distribution and production of Food crops : Rice and Wheat, Commercial crops : Cotton and Sugarcane And Plantation crop : Tea and Coffee	15
III	Minerals and Manufacturing Industries a. Distribution and Production : Iron ore, Bauxite and Coal b. Factors influencing location of industries c. Distribution and Production : Iron and Steel, Sugarcane and Cotton Textile industries	10
IV	Transportation a. Significance of Transportation in regional development.-Spatial interaction ,Areal specialization and Optimization of Production units b. Role of Golden Quadrilateral and Corridors in the Regional Development in India c. Road, Rail and Air transportation.	7
V	Population a. Growth and Trend of Population b. Growth, Distribution and Density of population. c. Demographic transition theory.	10
Total Teaching Hours		52



Suggested Readings:

1. Deshpande.C.D.: India-A regional interpretation Orthen Book centre, New Delhi.1992
2. Farmer.B.H: An Introduction to south. Methuen, London, 1983
3. Govt. Of India: India -Reference Annual, 2001 Pub .Div, New 2001.
4. Govt. of India: National Atlas of India, NATMO Pub -location, Calcutta.
5. Govt. of India: The Gazetteer of India. Vol I and III Publication Division, New Delhi -1965
6. Mitra, A.: Levels o Regional Development India - Census of India, Vol I, Part I- A (i) and (ii) New Delhi, 1967
7. Prof.R.P.Mishra: Geography of Mysore State
8. Prof.N.B.Reddy & Murty: Regional Geography of Karnataka
9. Prof.Ramachandra Rao: Geography of Karnataka

Kannada medium books:

1. M.B.Goudar: Regional Geography of India Vidhynidi prakashan station road, Gadag-582101
2. M.B.Goudar: Regional Geography of Karnataka Vidhynidi prakashan Station road, Gadag-582101
3. S.S.Nanjannavar: Regional Geography of India Vidhynidi Prakashan station road Gadag-582101


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B.A. - III Semester

Geography

Practical Paper:- Interpretation of IMD Weather maps
(w.e.f 2020-21 and onwards)

Teaching hours per week:4 Hours

Maximum Marks : 50 Marks
Semester End Examination : 35 Marks
Internal Assessment : 15 Marks

At the end of this course students will be able to:

- CO1. Know the conventional signs and symbols used in the IMD Weather Charts.
CO2. Understand weather Instruments that are helpful to decide Weather and Climate.
CO3. Analyze the data collected from various sources.
CO4. Judge the Season of the Weather Chart based on the available data and map.


Sl.No	Units	Hours
I	Signs and Symbols Signs and Symbols used in the I.M.D Weather Maps.	15
II	Signs and Symbols Weather instruments and their functions: a. Maximum and Minimum Thermometer b. Barometer. c. Wind Wane, Cup-Anemometer d. Rain Gauge.	15
III	Weather Maps Interpretation a. South West Monsoon season - 2 Exercises b. North East monsoon season - 2 Exercises c. Winter season - 2 Exercises d. Summer season - 2 Exercises	15
Total Teaching Hours		45

Suggested Books:

1. R.L.Singh : Element of practical Geography
2. Gopal Sing : Practical Geography
3. Singh &Khanaujia : practical Geography
4. B.S.Negi : Practical Geography
5. R.P.Mishra&A.Ramesh : Fundamentals of Cortography
6. M.F.Karenavar and S.S.Nanjannavar : Practical Geography (Kannada)
7. K.R.Ramamurthy : Interpretation of Topographical Maps
8. Mohammad Aslam : Statistical methods in studies


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B.A. - IV Semester

Geography

Paper: - Economic and Commercial Geography of World

(W.e.f. 2014-15 and onwards)

Teaching hours per week: 5 Hours

Maximum Marks	: 100 Marks
Semester End Examination	: 70 Marks
Internal Assessment	: 30 Marks

At the end of this course students will be able to:

- CO1. Understand the concept of economic activity, and factors affecting location of economic activity.
- CO2. Understand the important Agricultural products that are produced in different parts of the World.
- CO3. Know the distribution and production of Industries in the World.
- CO4. Examine efficiency and effectiveness of different types of Transportation in different parts of the World.
- CO5. Understand the importance of International Trade for the development of the countries.

S.No.	Units	Hours
I	Introduction	8
	a. Definition, Nature and Scope of Economic Geography b. Economic Regions of the World	
II	Agriculture	15
	a. Importance of Agriculture	
	b. Systems of agriculture -Shifting, Subsistence, Commercial and Plantation	
	c. Measurement of Agricultural Productivity and efficiency d. Distribution of Rice, Wheat, Sugarcane Cotton, Tea and Coffee Cultivation.	
III	Manufacturing Industries	15
	a. Factors influencing location of industries b. Distribution and production of - Iron and Steel, Aluminum, Cotton textile, Paper, Ship building and Automobile industries.	
IV	Transportation	10
	a. Significance of Transportation.	
	b. Major land transportation: Roadways and Railways	
	c. Ocean Transportation d. Airways: domestic and International.	
V	Trade	8
	a. International trade – Flow of commodities, b. Trends of international trade	
	Total	55



Suggested Readings:

1. A.Dasgupta/ A.Mukarjee : Economic and commercial Geography, A.Mukarjee Company, Culcutta – 73.
2. Cole.J : A Geography of the World' major regions, Routledg, London, 1996
3. Cole.J.P -Latin-America-Economic and Social Geography
4. Jones and Darkenwald : Economic Geography, Surjeet Publication, New Delhi-110007.
5. Khanna and Gupta : Economic & Commercial Geography, Sulthan Chand & Sons, New Delhi
5. M.R.Choudhary : Economic and Commercial Geography
6. Phanideka/Ambani Bagabati : Geography of Economic and Regional, H.S.Poplai for wiley eastern Ltd,New Delhi – 110002.
7. R.Knowles and J.Waring : Economic and Social Geography, Rupa Publication, New Delhi, India 110002.
8. S.K.Sadhukhan : Economic Geography, S.Chand & Com, Ltd,New Delhi – 110055.
9. T.A.Harsharn and J.W.Alexander : Economic Geography, Printice Hall Of India Pvt.Ltd, New Delhi-110001.2000.

Kannada Medium Books:

1. S.S.Nanjannavar -World Economic & Commercial Geography
2. P.Mallappa - World Economic & Commercial Geography Chetan Book HouseAnjanadri-Renukachary Temple Road, Back side of the temple Mysore-5700024


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B.A. - IV Semester

Geography

Practical Paper:-Interpretation of Topographical Maps

(With effect from 2014 -15 and onwards)

Teaching hours per week: 4 Hours

Maximum Marks	: 100 Marks
Semester End Examination	: 70 Marks
Internal Assessment	: 30 Marks

At the end of this course students will be able to:

- CO1. Understand the fundamentals of SOI Topographical Maps.
 CO2. Develop the skills of understanding the marginal information of the SOI Topographical Maps.
 CO3. Interpret the different topographies depicted in the SOI Topographical Maps.
 CO4. Understand and analyze land use pattern given in the SOI Topographical Maps.
 CO5. Acquire the skills to drawing the cross sections of any given Relief Feature in the SOI Topographical Maps.

S.No.	Units	Hours
I	<p style="text-align: center;">S.O.I. Topographical Maps</p> a. Indexing of S.O.I Topographical maps. b. Scales and colour convention used in S.O.I Topographical maps. c. Conventional Signs and Symbols used to represent physical and cultural features.	15
II	<p style="text-align: center;">Marginal information</p> a. Meaning and description of marginal information: Toposheet number, Area Covered, Year of Survey, Latitude and Longitudes, Magnetic Variation, Scale, Contour Interval, Index Map, Publication etc.	5
III	<p style="text-align: center;">Map Interpretation</p> a. Interpretation of S.O.I. Topographical Maps a) Overall interpretation – 1 Exercises b) Relief and Drainage - 2 Exercises c) Relief and Transport d) Transport and Settlements -2 Exercises e) Land-Use – 1 Exercises	20
IV	<p style="text-align: center;">Profiles</p> Drawing of Cross Sections and Calculation of vertical Exaggeration.	5
Total		45

Suggested Books:



1. R. L. Singh : Element of practical Geography
2. Gopal Sing : Practical Geography
3. Singh & Khanaujia : practical Geography
4. B. S. Negi : Practical Geography
5. R. P. Mishra & A. Ramesh : Fundamentals of Cartography
6. M. F. Karenavar & S. S. Nanjannavar : Practical Geography (Kannada)
7. K. R. Ramamurthy : Interpretation of Topographical Maps


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B.A. - IV Semester

Geography

Paper: -Economic and Commercial Geography of World
(w.e.f. 2017-18 and onwards)

Teaching hours per week: 5 Hours

Maximum Marks : 100 Marks
Semester End Examination : 70 Marks
Internal Assessment : 30 Marks

At the end of this course students will be able to:

- CO1. Understand the concept of economic activity, and factors affecting location of economic activity.
- CO2. Understand the important Agricultural products that are produced in different parts of the World.
- CO3. Understand the distribution and production of important industries in the World.
- CO4. Examine efficiency and effectiveness of different types of Transportation in different parts of the World.
- CO5. Understand the importance of International Trade for the development of the countries.

Sl.No.	Units	Hours
I	Introduction a. Definition, Nature and Scope of Economic Geography b. Approaches to Economic Geography c. Economic Regions of the World	8
II	Agriculture a. Systems of Agriculture: Shifting, Subsistence, Commercial and Plantation b. Concept of Agricultural Productivity and efficiency c. Cultivation, Distribution and Production of Rice, Wheat, Sugarcane Cotton, Tea and Coffee.	14
III	Manufacturing Industries a. Distribution and Production of Minerals; Iron ore , Manganese and Coal b. Distribution and production of: Iron and Steel, Aluminum, Cotton textile, Paper, Ship building and Automobile industries.	15
IV	Transportation a. Land transportation: Roadways and Railways b. Ocean Transportation and Inland Waterways c. Airways: domestic and International.	10
V	Trade a. International trade: Flow of commodities, b. Trends of international trade	8
	Total	55



Suggested Readings:

1. M.R.Choudhary : Economic and Commercial Geography.
2. Jones and Darkenwald : Economic Geography.
3. T.A.H. Harsharnand J.W.Alexander : Economic Geography.
4. Khanna and Gupta : Economic & Commercial Geography
5. Cole.J : 'A Geography of the World' major regions,
Routledg, London, 1996
6. Cole.J.P : Latin-America-Economic and Social
Geography

Kannada Medium Books:

1. S.S.Nanjannavar : World Economic and Commercial
Geography
2. P.Mallappa : World Economic and Commercial
Geography Chetan Book House. Mysore.


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B.A. - IV Semester
Geography

Practical Paper: -Interpretation of Topographical Maps

(w.e.f 2017-18 and onwards)

Teaching hours per week: 4 Hours

Maximum Marks	: 100 Marks
Semester End Examination	: 70 Marks
Internal Assessment	: 30 Marks

At the end of this course students will be able to:

CO1. Understand the fundamentals of SOI Topographical Maps.

CO2. Develop the skills of understanding the marginal information of the SOI Topographical Maps.

CO3. Interpret the different topographies depicted in the SOI Topographical Maps.

CO4. Understand and analyze land use pattern given in the SOI Topographical Maps.

CO5. Acquire the skills of drawing the cross sections of any given Relief Feature in the SOI Topographical Maps.

Sl.No.	Units	Hours
I	S.O.I. Topographical Maps a. Indexing of S.O.I Topographical maps. b. Scales and colour convention used in S.O.I Topographical maps. c. Conventional Signs and Symbols used to represent physical and cultural features.	15
II	Marginal information a. Meaning and description of marginal information: Toposheet number, Area Covered, Year of Survey, Latitude and Longitudes, Magnetic Variation, Scale, Contour Interval, Index Map, Publication etc.	5
III	Map Interpretation Interpretation of S.O.I. Topographical Maps a. Overall interpretation – 1 Exercise b. Relief and Drainage - 2 Exercises c. Relief and Transport- 1 Exercise d. Transport and Settlements -2 Exercises e. Land-Use – 1 Exercises	20
IV	Profiles Drawing of Cross Sections and Calculation of vertical Exaggeration.	4
	Total	45



Suggested Books:

- | | |
|--|--|
| 1. R. L. Singh | : Element of practical Geography |
| 2. Gopal Sing | : Practical Geography |
| 3. Singh & Khanaujia | : practical Geography |
| 4. B. S. Negi | : Practical Geography |
| 5. R. P. Mishra & A. Ramesh | : Fundamentals of Cartography |
| 6. M. F. Karenavar & S. S. Nanjannavar | : Practical Geography (Kannada) |
| 7. K. R. Ramamurthy | : Interpretation of Topographical Maps |


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B.A. - IV Semester

Geography

Paper: -Economic and Commercial Geography of World

(w.e.f. 2020-21 and onwards)

Teaching hours per week: 5 Hours

Maximum Marks	: 100 Marks
Semester End Examination	: 70 Marks
Internal Assessment	: 30 Marks

At the end of this course students will be able to:

- CO1. Understand the concept of economic activity, and factors affecting location of economic activity.
- CO2. Understand the important Agricultural products that are produced in different parts of the World.
- CO3. Understand the distribution and production of important industries in the World.
- CO4. Examine efficiency and effectiveness of different types of Transportation in the World.
- CO5. Understand the importance of International Trade for the development of the countries.

Sl. No.	Units	Hours
	Introduction	
I	a. Definition, Nature and Scope of Economic Geography b. Approaches to Economic Geography c. Natural Regions of the World	8
	Agriculture	
II	a. Systems of Agriculture : Shifting, Subsistence, Commercial and Plantation b. Cultivation, Distribution and Production of Rice, Wheat, Sugarcane Cotton, Tea and Coffee.	14
	Manufacturing Industries	
III	a. Distribution and Production Minerals : Iron ore , Manganese and Coal b. Distribution and production: Iron and Steel, Aluminium, Cotton textile, Paper, Ship building and Automobile industries.	12
	Transportation	
IV	a. Land transportation: Roadways and Railways b. Ocean Transportation and Inland Waterways c. Airways: domestic and International.	10
	Trade	
V	a. International trade : Flow of commodities b. Trends of international trade	8
Total Teaching Hours		52



Suggested Readings:

1. M.R.Choudhary : Economic and Commercial Geography.
2. Jones and Darkenwald : Economic Geography.
3. T.A.HHarsharn and J.W.Alexander : Economic Geography.
4. Khanna and Gupta : Economic & Commercial Geography
5. Cole.J : 'A Geography of the World' major regions,
Routledg, London, 1996
6. Cole.J.P : Latin-America-Economic and Social Geography

Kannada Medium Books:

7. S.S.Nanjannavar : World Economic & Commercial Geography
8. P.Mallappa : World Economic & Commercial Geography
Chetan Book House Anjanadri-Renukachary Temple
Road Back side of the temple Mysore-5700024.


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B.A. - IV Semester
Geography

Practical Paper:-Interpretation of Topographical Maps

(With effect from 2020-21 and onwards)

Teaching hours per week: 4 Hours

Maximum Marks : 100 Marks
Semester End Examination : 70 Marks
Internal Assessment : 30 Marks

At the end of this course students will be able to:

- CO1. Understand the fundamentals of SOI Topographical Maps.
- CO2. Develop the skills of understanding the marginal information of the SOI Topographical Maps.
- CO3. Interpret the different topographies depicted in the SOI Topographical Maps.
- CO4. Understand and analyse land use pattern given in the SOI Topographical Maps.
- CO5. Acquire the skills of drawing the cross sections of any given Relief Feature.

Sl.No.	Units	Hours
I	Marginal information of S.O.I. Topographical Maps a. Indexing of S.O.I Topographical maps. b. Meaning and description of marginal information: Toposheet number, Area Covered, Year of Survey, Latitude and Longitudes, Magnetic Variation, Scale, Contour Interval, Index Map, Publication etc. c. Scales and colour convention used in S.O.I Topographical maps. d. Conventional Signs and Symbols used to represent physical and cultural features.	24
II	Map Interpretation Interpretation of S.O.I. Topographical Maps: a. Overall interpretation: 1 Exercise b. Relief and Drainage: 2 Exercises c. Relief and Transport: 1 Exercise d. Transport and Settlements: 2 Exercises e. Land-Use: 1 Exercises	24
III	Profiles Drawing of Cross Sections and Calculation of vertical Exaggeration.	4
Total Teaching Hours		52

Suggested Books:

1. R. L. Singh : Element of practical Geography
2. Gopal Sing : Practical Geography
3. Singh & Khanaujia : practical Geography
4. B. S. Negi : Practical Geography
5. R. P. Mishra & A. Ramesh : Fundamentals of Cortography
6. M. F. Karenavar & : Practical Geography (Kannada)
S. S. Nanjannavar
7. K. R. Ramamurthy : Interpretation of Topographical Maps


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 (AUTONOMOUS)
 B.A. - IV Semester
 Geography
 Subject: Environmental Studies
 Syllabus

(w. e. f. 2020-21 and onwards)

Teaching hours per week : 02
 Credits: 02

Maximum Marks : 50 Marks
 Semester End Examination : 35 Marks
 Duration : 3 Hours
 Internal Assessment : 15 Marks

Sl.No.	Units	Hours
I	Introduction	4
	a. Definition, Nature and scope of Environment Studies	
	b. Importance of Environment Studies c. Environmental Education	
II	Ecosystem	8
	a. Concept of an Ecosystem	
	b. Structure and functions of an Ecosystem	
	c. Producers, Consumers, and Decomposers	
	d. Energy flow in the Ecosystem	
	e. Ecological Succession f. Food chains, Food webs and Ecological Pyramids	
III	Biodiversity	8
	a. Introduction-Definition: Generic, Species.	
	b. Ecosystem Diversity	
	c. Consumptive and Productive use d. India as a Mega Diversity Nation	
IV	Environmental Pollution	4
	a. Definition, Causes, Effects and control measures of Air Pollution, Water pollution, Soil Pollution b. Solid waste Management: Causes, Effects, and control Measures of Urban and Industrial Waste.	
V	Report Writing	2
	a. Introduction of Field Work	
	b. Identification of Problems	
	c. Objectives and Methodology Findings	
	d. Visit to a local area to document Environmental Assets: Rivers/Forest/Industrial study. Visit to a local polluted site: Urban/Rural/Industrial study of common plants, insects, and birds. Study of simple ecosystems: Ponds, River, Hill slopes	
Total		26



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References:

1. Savindra Singh : Environmental Geography Allahabad-2005
2. Agarawal K.C: Environmental Biology, Nidhi Pub. Bikaner, 2001.
3. Chausasia B.P: Environmental Pollution, Consequences and Measures.
4. Mathur H.S: Environmental Resources, The Crises of Development.
5. Odum E.P: Fundamentals of Ecology, WBSaunders Co. London, 1971.
6. Saxena H.M: Environmental Geography, Rawat Pub. Jaipur, 1999.
7. Sharma P.D: Ecology and Environment: Rastogi Pub. New Delhi, 1999.
8. Strahler and Strahler: Geography and Mans Environment, John Wiley New York,
9. Heywood V.H. & Warson R.T: Global Bio-Diversity Assessment, CUP, 1995.
10. Darsh M.C: Fundamentals of Ecology, Tata McGrow Hills New Delhi, 2002.
11. ಡಾ. ಎಲ್.ಟಿ.ನಾಯಕ: ಪರಿಸರ ಭೂಗೋಳಶಾಸ್ತ್ರ


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(AUTONOMOUS)

B.A. - V Semester

Geography

(w.e.f 2015-16 and onwards)

SYLLABUS

Paper I: - Environmental Geography

Teaching hours per week: 5 Hours

Maximum Marks : 100 Marks

Semester End Examination : 70 Marks

Internal Assessment : 30 Marks

At the end of this course students will be able to:

CO1. Understand the concept of environment and components of environment.

CO2. Know the nature of environment and recognize the ecosystem.

CO3. Appreciate the concept of Biomes and identify the major Terrestrial and aquatic Biomes of the world.

CO4. Understand changing relationship of man and environmental.

CO5. Evaluate the major environmental issues caused by man's activities and their threat to the living beings.

S.No.	Sub unit	Hours
1.	Introduction a. Definition, Scope, Nature and content of Environmental Geography. b. Man and Environmental relationships	12
2.	Elements of Environment a. Biotic and A biotic Elements if Ecosystem b. Structure & Functions of Ecosystem c. Energy flow in the Ecosystem	12
3.	Biodiversity a. Major Biomes of the World (Equatorial Tundra – Tundra, Temperate and Tropical) b. Types of Biodiversity c. Endangered and Endemic Species of India.	11
4.	Environmental Degradation a. Impacts of Mans activities on environment b. Land, Water and Air Pollution c. Deforestation and Consequences	10
5.	Environmental Conservation a. Conservation of Soil, Water and Air b. A forestation c. Environmental Education and Policies	10
	Total	55




Suggested Readings:

1. Agarwal K.C : Environmental Biology, Nidhi publishers Ltd, 2001, Bikaner
2. A.Dhinakaran & B.Sankaran : A Text Book of Environment Studies
3. Dr. L. T. Nayak (Kannada) : Environmental Geography
4. Dr. J. P. Sharma : Environmental Studies
5. M. B. Goudar (Kannada) : Parisar Bhogal Shastra
6. R.N. Thirivedi : Envionmental Studies (Anmol
7. Savindra Singh : Environmental Geography
8. Saxena H. M. : Environmental Geogrophy
9. Smith R. L. : Man and THe Environment
Publication PVT LTD New Delhi)

1. Agarwal K.C : Environmental Biology, Nidhi publishers Ltd, 2001, Bikaner
2. A.Dhinakaran & B.Sankaran: A Text Book of Environment Studies, Himalaya Publishing House, Bangalore.
3. Dr. L. T. Nayak (Kannada): Environmental Geography: Anuraga Prakashana, Dharwad.
4. Dr. J. P. Sharma: Environmental Studies:Laxmi Publications, New Delhi, 2009
5. Dr.Y. K Sharma: Environmental geography: Lakshmi Narayan Agarwal Educational publisher, Agra UP.
6. M. B. Goudar (Kannada): Parisar Bhogal Shastri: Vidyanidhi Prakashan, Gadag.
7. R.N. Trivedi : A text Book of environmental Studies, Anmol Publication PVT.LTD New Dehli
8. Savindra Singh: Environmental Geography: Pravalika Publication, Allahabad, UP-211002.
9. Saxena H. M.: Environmental Geography II Edition, Rawat Publication Hyderabad
10. Smith R. L.: Man and The Environment: Pearson Education, India, New Delhi.


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(AUTONOMOUS)

B.A. - V Semester

Geography

(w.e.f 2015-16 and Onwards)

SYLLABUS

Paper II: - Geography of Settlements

Teaching hours per week: 5 Hours

Maximum Marks	: 100 Marks
Semester End Examination	: 70 Marks
Internal Assessment	: 30 Marks

At the end of this course students will be able to:

- CO1. Understand urban and rural settlements.
- CO2. Gain the knowledge of nature of Urban Settlements
- CO3. Understand the Migration pattern of the Country and reasons behind the Migration
- CO4. Understand the process of Urbanization.
- CO5. Understand the characteristics of Slums and need for their clearance.

Sl.No.	Units	Hours
1.	Introduction a. Nature and Scope of Rural and Urban Geography b. Factors influencing the Settlement pattern and its types	11
2.	Hierarchy of Settlements a. Hierarchy of Settlements b. Functional classification of Towns by Nelson c. Primate city and Rank size Rule.	12
3.	Migration a. Types of Migration. b. Impact of rural migration c. Government Policies and Programs to control the rural migration.	12
4.	Urbanization a. Process of Urbanization. b. Trend of Urbanization Karnataka and India	10
5.	Urban Issues a. Characteristic of Slums, Problems Clearance b. Solid waste disposal and management. c. Traffic problems in urban areas.	10
	Total	55



Suggested Readings:

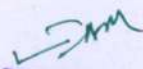
- | | |
|-----------------------------------|---|
| 1) Dickinson R. E | : City and Region |
| 2) H. D. Clout | : Rural Geography – An Introductory Survey |
| 3) H. Carter | : The Study of Urban Geography |
| 4) Johnson S. H. | : Urban geography – An Introduction analysis |
| 5) Prof, S S Nanjannavar(Kannada) | : Settlement Geography. |
| 6) R. L. Singh | : Rural Settlements in Monsoon Asia |
| 7) R. B. Mandal | : Introduction to Rural settlements (Ashok kumar Mittal New Delhi |
| 8) R. B. Mandal | : Urban Geography |

Suggested Readings:

1. Dickinson R. E: City and Region. Rout ledge and K Paul any book limited Lincoln ,(UK) - 1967,
2. H. D. Clout: Rural Geography – An Introductory Survey, Pergamon Oxford Geographies,
3. H. Carter: The Study of Urban Geography, Hugar : Vashathi Bhogolashstra (kannada): National Book stall Hubballi,
4. Johnson S. H: Urban geography – An Introduction analysis II Edition Pergamon Oxford Geographies,
5. R. B. Mandal: Introduction to Rural settlements :Ashok kumar Mittal New Delhi, 110059
6. R. B. Mandal: Urban Geography concept Publishing Company First Edition ,New Delhi ,
7. R. L. Singh: Rural Settlements in Monsoon Asia, The National Geographic Society of India Varanasi -4
8. R.Y. Sing : Geography of Settlement :Rawat Publication Hyderabad
9. Prof, S S Nanjannavar(Kannada): Settlement Geography.


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B.A. - V Semester

Geography

SYLLABUS

Practical Paper- I Map Projections

(w.e.f 2015-16 and Onwards)

Teaching hours per week: 4 Hours

Maximum Marks	: 50 Marks
Semester End Examination	: 35 Marks
Internal Assessment	: 15 Marks

At the end of this course students will be able to:

- CO1. Understand how projection helps to transfer the spherical shape of Earth on plane surface
- CO2. Gain the basic ideas and characteristics of cylindrical projection
- CO3. Understand the importance of Zenithal Projection and its importance in the projection of Polar areas.
- CO4. Understand the different types of Conical Projections and their level of accuracy on different parts of the Earth.

Sl. No	Units	Hours
I	1. Cylindrical Projection a. Simple Cylindrical projection. b. Cylindrical equal area projection c. Mercators projection.	15
II	2. Zenithal Projections a. Polar zenithal gnomonic projection. b. Polar zenithal stereographic projection. c. Polar zenithal orthographic projection.	15
III	3. conical Projection a. Conical with one std. parallel. b. Conical with two std. parallel. c. Bonne's projections.	15
	Journal and Viva voce Internal Assessment (Test)	
	Total	45

Books for Reference

- | | |
|------------------------------------|---------------------|
| 1. Practical Geography | : B. S. Negi. |
| 2. Practical geography | : Gopal Singh |
| 3. Elements of practical geography | : R. L. Singh. |
| 4. Practical Geography | : Singh and Kaniyia |

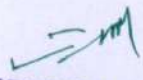


Books for Reference

1. A.M Bagulia : Practical Geography Anmol Publication New Delhi
2. Ashis Sarkar : Practical Geography A systematic Approach, Orient Logmen LTD Kolkata 700072
3. B. S. Negi.: Practical Geography ,Kedar Nath Ram Nath,Meerut -04
4. Dr.Raman : Prayogika Bhogolshastra ,Vidya Nidhi Publication Gadag
5. Gopal Singh: Practical geography Vikas Publising House Pvt Ltd New Delhi, 110044
6. George P.Kellaway : Map Projection ,Methuen & co.LTD London ,
7. Pijushkanti saha; Practical Geography Books & Allied (PVT. LTD) Kolkata
8. R. L. Singh.: Elements of practical geography,Kalyani Publication Ludihyana .
9. Singh and Kaniyia: Practical Geography ?


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Geography
SYLLABUS

Practical Paper: II Aerial Photography and Remote Sensing
(w.e.f 2015-16 and onwards)

Teaching hours per week: 4 Hours

Maximum Marks : 50 Marks
Semester End Examination : 35 Marks
Internal Assessment : 15 Marks

At the end of this course students will be able to:

- CO1. Understand different land forms, forest, and transportation and land-use forms.
CO2. Understand climatical conditions, vegetation, and drainage.
CO3. Develop the skills to handle Pocket and Mirror stereoscopes
CO4. Able to interpret the different types of aerial Photographs.

S.No.	Units	Hours
I	a. Determination of Aerial Photo Scale. b. Element of Photo / Images Interpretation c. Types of Aerial Photo Graphs	10
II	a. Calculation scale of Photographs (Scale and Height focal length) Each Two Exercise	06
III	a. Use of Pocket stereoscope, mirror stereoscope two Exercise.	15
IV	a. Interpretation of vertical Aerial photographs and satellite Imageries Two exercise	14
V	a. Journal and Viva- Voce	
Total		45

Books for Reference

1. Agarwal C S and Garg P K (2000) : "Remote Sensing" A H Wheeler and Co Ltd New Delhi.
2. C.D Kathuria : Remote Sensing & Geographical Information System
3. Dr..M.A Siddiqui : Geographical Information System,
4. George Joseph : Fundamental of Remote sensing
5. Ian Haywood , Sarah Corelinus : Geographical Information System



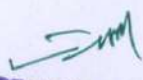
6. Kang Tsung Chang, : Introduction to Geographic Information System.
7. Lillisand T M and Keifer R W (1990) : "Remote sensing and Image interpretation" Jhone Willey and Sons. New York
8. Michael N Demers : Fundamental of Geography Information Systems.
9. Panda B C : Remote Sensing Principals and Application Viva Books private Ltd New Delhi (2005).

Books for Reference

1. Agarwal C S and Garg P K (2000) : "Remote Sensing" AN H Wheeler and Co Ltd New Delhi.
2. C.D.Kathuria : Remote sensing & GIS, Centrum Press New Delhi 11002
3. George Joseph : Fundamental of Remote Sensing , University press PVT.LTD Hyderabad
4. J.R.Jensen : Remote Sensing of the Environment ,Person Education Singapore PVT,LTD New Delhi
5. Kang Tsung Chang : Introduction to Geographic Information System. TATA Mc Graw Hill Education Private Ltd .In New Delhi 110008
6. Lillisand T M and Keifer R W (1990) : "Remote sensing and Image interpretation" Jhone Willey and Sons. New York
7. Michael N Demers : Fundamental of Geography Information Systems.
8. Panda B C : Remote Sensing Principals and Application Viva Books private Ltd New Delhi (2005).


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B.A. - V Semester

Geography

(w.e.f 2018-19 and Onwards)

SYLLABUS

Paper I: - Environmental Geography

Teaching hours per week: 5 Hours

Maximum Marks : 100 Marks
Semester End Examination : 70 Marks
Internal Assessment : 30 Marks

At the end of this course students will be able to:

- CO1. Understand the concept of environment and components of environment.
CO2. Know the nature of environment and recognize the ecosystem.
CO3. Appreciate the concept of Biomes and identify the major Terrestrial and aquatic Biomes of the world.
CO4. Understand changing relationship of man and environmental.
CO5. Evaluate the major environmental issues caused by man's activities and their threat to the living beings.

Units	Sub unit	Hours
1.	Introduction a. Definition, Scope, Nature and content of Environmental Geography. b. Man and Environmental Interactions	12
2.	Elements of Environment a. Biotic and A biotic Elements of Ecosystem b. Structure & Functions of Ecosystem c. Energy flow in the Ecosystem	12
3.	Biodiversity a. Biodiversity: Importance, Levels and Hotspots b. Endangered and Endemic Species of India c. Major Biomes of the World (Equatorial Tundra, Temperate and Tropical)	11
4.	Environmental Degradation a. Impact of Man's activities on environment b. Land, Water and Air Pollution c. Deforestation and its Consequences	10
5.	Environmental Conservation a. Conservation of Soil, Water and Forest b. Environmental Education c. Environmental Laws and Policies in India with reference to Soil, Water and Forest.	10
	Total	55



Suggested Readings:

1. Asha B. N: Environment Studies
2. Dr. L. T. Nayak (Kannada): Environmental Geography
3. Dr. J. P. Sharma: Environmental Studies
4. Dr.Y K Sharma : Environmental geography , Lakshmi Narayan Agarwal
5. M. B. Goudar (Kannada): Parisar Bhogal Shastri
6. R.N. Trivedi : A text Book of environmental Studies, Anmol Publication PVT.LTD New Dehli
7. Savindra Singh: Environmental Geography
8. Saxena H. M.: Environmental Geography II Edition, Rawat Publication Hyderabad
9. Smith R. L.: Man and The Environment


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B.A. - V Semester

Geography

(w.e.f 2018-19 and Onwards)

SYLLABUS

Paper II : - Geography of Settlements

(w.e.f 2018-19 and Onwards)

Teaching hours per week: 5 Hours

Maximum Marks	: 100 Marks
Semester End Examination	: 70 Marks
Internal Assessment	: 30 Marks

At the end of this course students will be able to:

- CO1. Understand urban and rural settlements.
CO2. Gain the knowledge of Urban Land use models and their applicability to our Urban Centers
CO3. Understand the Migration pattern of the Country and reasons behind the Migration
CO4. Understand the importance of appropriate government programs and policies to be implemented timely to control the Migration at national level.
CO5. Understand the characteristics of Slums and need for their clearance.

Sl.No	Units	Hours
1.	Introduction	11
	a. Nature and Scope of Rural and Urban Geography b. Factors influencing settlement patterns and its types	
2.	Hierarchy of Settlements	12
	a. Hierarchy of Settlements b. Urban Land use Models: Sector, Multiple nuclei and Concentric.	
3.	Migration	12
	a. Migration and its types.	
	b. Impact of rural migration on Agriculture c. Government Policies and Programs to control the rural migration.	
4.	Urbanization	10
	a. Process of Urbanization and its Stages b. Trend of Urbanization Karnataka and India	
5.	Urban Issues	10
	a. Characteristic of Slums, Problems and its Clearance	
	b. Case study of Slums in Belagavi City. c. Solid waste disposal and management	
	Total	55



Suggested Readings:

1. Dickinson R. E: City and Region
2. H. D. Clout: Rural Geography – An Introductory Survey
3. H. Carter: The Study of Urban Geography
4. Hugar : Vashathi Bhogolashstra (kannada): National Book stall Hubballi
5. Johnson S. H: Urban geography – An Introduction analysis
6. R. B. Mandal: Introduction to Rural settlements :Ashok kumar Mittal New Delhi 110059
7. R. B. Mandal: Urban Geography
8. R. L. Singh: Rural Settlements in Monsoon Asia
9. R.Y. Sing : Geography of Settlement :Rawat Publication Hyderabad
10. Prof, S S Nanjannavar(Kannada): Settlement Geography.


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(AUTONOMOUS)

B.A. - V Semester

Geography

SYLLABUS

Practical

Paper - I: Map Projections

(w.e.f 2018-19 and Onwards)

Teaching hours per week: 4 Hours

Maximum Marks : 50 Marks

Semester End Examination : 35 Marks

Internal Assessment : 15 Marks

At the end of this course students will be able to:

CO1. Understand how projection helps to transfer the spherical shape of Earth on plane surface

CO2. Gain the basic ideas and characteristics of cylindrical projection

CO3. Understand the importance of Zenithal Projection and its importance in the projection of Polar areas.

CO4. Understand the different types of Conical Projections and their level of accuracy on different parts of the Earth.

Unit	Map projections properties and uses of the following projections	Hours
I	1. Cylindrical Projection a. Simple Cylindrical Projection. b. Cylindrical Equal Area Projection c. Mercator's Projection.	12
II	2. Zenithal Projections a. Polar Zenithal Gnomonic Projection. b. Polar Zenithal Stereographic Projection. c. Polar Zenithal Orthographic Projection.	14
III	3. Conical Projection a. Conical Projection with one std. parallel. b. Conical Projection with two std. parallel. c. Bonne's Projection projection.	14
	Journal and Viva voce Internal Assessment (Test)	
	Total	45



Books for Reference

1. A.M Bagulia : Practical Geography Anmol Publication New Dehli
2. Ashis Sarkar : Practical Geography A systematic Approach, Orient Logmen LTD Kolkatta 700072
3. B. S. Negui.: Practical Geography
4. Dr.Raman : Prayogika Bhogolshastra ,Vidya Nidhi Publication Gadag
5. Gopal Singh: Practical geography
6. George P.Kellaway : Map Projection ,Methuen & co.LTD London ,
7. Pijushkanti saha; Practical Geography Books & Allied (PVT. LTD) Kolkata
8. R. L. Singh.: Elements of practical geography,Kalyani Publication Ludihyana .
9. Singh and Kaniyia: Practical Geography


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Geography

SYLLABUS

(w.e.f 2018-19 and Onwards)

Practical Paper: II Aerial Photography and Remote Sensing

Teaching hours per week: 4 Hours

Maximum Marks	: 50 Marks
Semester End Examination	: 35 Marks
Internal Assessment	: 15 Marks

At the end of this course students will be able to:

- CO1. Understand different land forms, forest, and transportation and land-use forms.
- CO2. Understand climatical conditions, vegetation, and drainage.
- CO3. Develop the skills to handle Pocket and Mirror stereoscopes
- CO4. Able to interpret the different types of aerial Photographs.


Units	Sub unit	Hours
I	a. Introduction: History of Aerial Photography.	10
	b. Types of Areal Photo Graphs	
	c. Element of Photo / Images Interpretation	
II	a. Calculation scale of Photographs (Scale and Height focal length) Each Two Exercise	06
	b. Determination of Aerial Photo Scale.	
III	a. Use of Pocket stereoscope, mirror stereoscope each two Exercise.	15
IV	a. Interpretation of vertical Areal photographs and satellite Imageries Two exercise	14
	Journal and Viva- Voce	
Total		45

Books for Reference

1. Agarwal C S and Garg P K (2000) : "Remote Sensing" A H Wheeler and Co Ltd New Delhi.
2. C.D.Kathuria : Remote sensing & GIS, Centrum Press New Delhi 11002
3. George Joseph : Fundamental of Remote Sensing , University press PVT.LTD Hyderabad
4. J.R.Jensen : Remote Sensing of the Environment ,Person Education Singapore PVT,LTD New Delhi
5. Kang Tsung Chang : Introduction to Geographic Information System.


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B.A. - VI Semester

Geography

SYLLABUS

(w.e.f 2015-16 and onwards)

Paper I: -Geography of Resources

Teaching hours per week: 5 Hours

Maximum Marks	: 100 Marks
Semester End Examination	: 70 Marks
Internal Assessment	: 30 Marks

At the end of this course students will be able to:

- CO1. Gain the knowledge about Resources and their importance in the development of the Nations
- CO2. Understand the importance of the Rain Water Harvesting.
- CO3. Understand the problems of the Soils and their significance in Agriculture.
- CO4. Understand the distribution and consumption of mineral and Power resources in the Country.
- CO5. Understand the importance of Human Resource in the development of all other Resources.

Sl.No.	Units	Hours
I	Resources a. Meaning and definition of Resources. b. Classification of Resources. c. Significance of Resources. d. Conservation of Natural Resources.	12
II	Water Resources a. Importance of water Resource b. Scarcity of water Resource and its conservation methods. c. Rain water harvesting and it's uses.	11
III	Soil and Forest Resources a. Degradation of soil. b. Conservation of soil. c. Deforestation. d. Conservation of forest resource.	12
IV	Mineral Resources Distribution and production of Resources a. Mineral Resources – Iron ore, manganese ore. Bauxite and Copper Ore, b. Power Resources – Coal and Petroleum.	10
V	Human Resources a. Human Resource Development b. Human Resource Development indicators c. Sustainable development / Human Resource	10
	Total	55



Suggested Readings:

1. Cole. J : A Geography of the world major regions, Routledg London 1996
2. Cole. J. P : Latin-America-Economic and Social Geography
3. Jones and Darkenwald : Economic Geography, Published by The Macmillan Company, New York, 1960.
4. Khanna & Gupta : Economic & Commercial Geography, Chand Publication, New Delhi, 1973
5. M. R. Choudary : Economic & Commercial Geography
6. P. Mallappa. : World Economic & Commercial Geography
7. Rajashekar. Shetty : Resource Geography of World. Chetan Book House, Mysore – 570024
8. S N Mulimani : Resource Geography (Kannada)
9. S. S. Nanjannavar. : World Economic & Commercial Geography
10. T. A. H. Harshan & J. W. Alexander : Economic Geography


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B.A. - VI Semester

Geography

SYLLABUS

(w.e.f 2015-16 and onwards)

Paper II: - Principles of Regional Planning and Development.

Teaching hours per week: 5 Hours

Maximum Marks	: 100 Marks
Semester End Examination	: 70 Marks
Internal Assessment	: 30 Marks

At the end of this course students will be able to:

- CO1. Understand the concept of planning region and identify the main characteristic features of a planning.
- CO2. Understand the concept of regional imbalances.
- CO3. Understand the needs of balanced regional development
- CO4. Understand Levels of planning.
- CO5. Understand the programs and policies initiated by the Government to improve the backward area.

Sl.No.	Units	Hours
I	Introduction a. Definition, Content and Scope, Goals & objectives of Regional Planning. b. Need for Regional Planning. c. Authorities Government and Non-Government agencies.	12
II	Region a. Definition and Concept of Region b. Types of regions Formal Region, Functional Region and Planning Region.	11
III	Planning a. Physical and Economic Planning. b. Central & Decentralized Planning. c. Agricultural Industrial & Urban Planning.	10
IV	Hierarchy of Planning a. Step involved in planning b. Micro, Meso and Macro Planning.	10
V	Regional Imbalance and Inequalities in India a. Regional problems. b. Problematic regions planning for backward areas with suitable examples	12
	Internal: 30 Marks • Two internal tests carrying 10 marks each. • Field work/seminars/assignment/class participation/ project work etc. carry 10 marks.	
	Total	55



Suggested Readings:

- | | |
|----------------------------|--|
| 1. KSOU Mysore | : Regional Planning in India Study Material |
| 2. Dr. L T Nayak | : Regional Planning in India |
| 3. Mahesh Chand and Puri | : Regional Planning in India Allied Publishes Ltd, New Delhi |
| 4. M B Goudar | : Regional Planning in India |
| 5. Minshull. H | : Regional Geography. |
| 6. Prakash Rao & Sundaram. | : Regional Planning in India |
| 7. R. P. Mishra | : Regional Planning |
| 8. Sundaram. K. V | : Urban and Regional Planning in India. |
| 9. Urs and Nataraj | : Regional Planning |


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B.A. - VI Semester

Practical Paper: I-Geographical information system and GPS

(w.e.f 2015-16 and onwards)

Teaching hours per week: 4 Hours

Maximum Marks : 50 Marks

Semester End Examination : 35 Marks

Internal Assessment : 15 Marks

At the end of this course students will be able to:

- CO1. Understand the components of GIS and different types of data
- CO2. Understand the characteristics of Vector and Raster data, their use for the different purpose
- CO3. Acquire the skills of scanning the Toposheet and creating different layers
- CO4. Understand the spatial, Non-Spatial and Continuous data and their utility for the different purposes
- CO5. Gain the skills of using GPS and acquisition of data by GPS


Units	Sub Unit	No. Of Hours
I	Components of GIS: Hardware, Software, Data, People and Organizational Institutions. Characteristics of spatial data – Spatial Entries – spatial data structure: Raster and Vector.	06
II	Toposheet Quadrangle Scanning	08
III	Creating Layers, (theme): Water body, Vegetation, Roads and Settlements.	10
IV	Spatial, Non-Spatial and Continuous data. Exercise: Spatial data creation.	08
V	Acquisition of GPS Data.	08
	Total Hours	40
	Journal and Viva-Voce	

Reference Books:

- 1 AnjiReddy-(2001) - Remote sensing and Geographical Information System
1. Burrough.P.A.-(1986)- Principles of Geographical Information system for Land Resources, Clarendon Press, Oxford.
2. Chrisman N.R-(1997)- Exploring Geographic Information systems, Willy,NewYork.
3. Dutt.P.K - Elements of Practical Geography, Kalyni publishers, New-Delhi-1979
4. Sarkar.A.K - Practical Geography: A systematic Approach, Oriental Langman, Kolkata-1997
5. Singh.R.L and


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B.A. - VI Semester

Geography

SYLLABUS

(w.e.f 2015-16 and Onwards)

Practical: II Field Work and Dissertation

Teaching hours per week: 4 Hours

Maximum Marks	: 50 Marks
Semester End Examination	: 35 Marks
Internal Assessment	: 15 Marks

At the end of this course students will be able to:

- CO1. Learn the significance of field work in geographical studies.
CO2. Understand the meaning of field and identifying the problem.
CO3. Know about different types of field techniques and suitable technique to apply for the selected study.
CO4. Develop an central idea about research problems.
CO5. Learn to arrive to the conclusion and summarize the entire study meaningfully

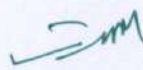
Sl. No	Units	Hours
I	Selection of the Case Study	08
II	Preparation of Questionnaire	06
III	Data Collection	06
IV	Analysis of the Data	10
V	Report Writing	10
	Viva – Voce	
	Total	40

Suggested Readings

1. Advanced Practical Geography : Pijushkanti Saha
2. B. N. Ghosh : Research Methodology.
3. Hunmond & M C Culla : Statistical methods in Geography
4. Kothari R. C. : Research Methods
5. Mohammad & Sanullah : Quantities Techniques in Geography.
6. R. P. Mishra. : Research Methodology in Geography.


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SYLLABUS
 (w.e.f 2018-19 and onwards)

Paper I: -Geography of Resources

Teaching hours per week: 5 Hours

Maximum Marks : 100 Marks
 Semester End Examination : 70 Marks
 Internal Assessment : 30 Marks

At the end of this course students will be able to:

- CO1. Gain the knowledge about Resources and their importance in the development of the Nations
- CO2. Understand the importance of the Rain Water Harvesting.
- CO3. Understand the problems of the Soils and their significance in Agriculture.
- CO4. Understand the distribution and consumption of mineral and Power resources in the Country.
- CO5. Understand the importance of Human Resource in the development of all other Resources

Sl. No	Units	Hours
	Resources	
I	a. Meaning and Definition of Resources. b. Significance of Resources. c. Classification of Resources. d. Conservation of Natural Resources.	15
	Water Resources	
II	a. Importance of water Resource b. Water Resource Potentialities and its Conservation Methods. c. Rain water harvesting and it's Methods.	10
	Soil Resources	
III	a. Soil and its Properties. b. Significance of Soil c. Problems Associated with Soil d. Conservation of soil.	10
	Mineral Resources	
IV	a. Distribution and production of Resources b. Mineral Resources – Iron ore, manganese ore. Bauxite and Copper Ore, c. Power Resources – Coal and Petroleum.	10
	Human Resources	
V	a. Introduction and Concept of Human Resource Development b. Human Resource Development indicators	10
	Internal : 30 Marks	
	Two internal tests carrying 10 marks each. Field work/seminars/assignment/class participation/ project work etc carry 10 marks.	
	Total	55



Reference Books:

1. Cole. J : A Geography of the world major regions, Routledg London 1996
2. Cole. J. P : Latin-America-Economic and Social Geography
3. Jones and Darkenwald : Economic Geography
4. Khanna & Gupta : Economic & Commercial Geography.
5. M. R. Choudary : Economic & Commercial Geography.
6. Rajashekar. Shetty : Resource Geography of World.
7. T. A. H. Harshan & J. W. Alexander : Economic Geography

Kannada medium Books

1. P. Mallappa. : World Economic & Commercial Geography
Chetan Book House, Mysore – 570024.
2. S N Mulimani : Resource Geography (Kannada)
3. S. S. Nanjannavar. : World Economic & Commercial Geography.


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B.A. - VI Semester

Geography

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(W.e.f 2018-19 and Onwards)

Paper II: - Principles of Regional Planning and Development.

Teaching hours per week: 5 Hours

Maximum Marks : 100 Marks
Semester End Examination : 70 Marks
Internal Assessment : 30 Marks

At the end of this course students will be able to:

- CO1. Understand the concept of planning region and identify the main characteristic features of a planning.
- CO2. Understand the concept of regional imbalances.
- CO3. Understand the needs of balanced regional development
- CO4. Understand social and environmental dimension of planning.
- CO5. Understand the programs and policies initiated by the Government to improve the backward area.

Sl.No	Units	Hours
I	Introduction	15
	a. Definition, Content and Scope, Goals and objectives of Regional Planning.	
	b. Need for Regional Planning. c. Authorities- Government and Non-Government agencies.	
II	Region	10
	a. Definition and Concept of Region b. Types of regions- Formal Region, Functional Region and Planning Region.	
III	Planning	10
	a. Physical and Economic Planning.	
	b. Central & Decentralized Planning. c. Agricultural Industrial and Urban Planning.	
IV	Hierarchy of Planning	10
	a. Step involved in planning b. Micro, Meso and Macro Planning.	
V	Regional Disparities	10
	a. Regional Disparities in India	
	b. Regional problems. c. Planning for backward areas with suitable examples	
	Internal: 30 Marks	
	<ul style="list-style-type: none">• Two internal tests carrying 10 marks each.• Field work/seminars/assignment/class participation/ project work etc carry 10 marks.	
	Total	55



Suggested Readings:

1. KSOU Mysore : Regional Planning in India Study Material
2. Minshull. H : Regional Geography.
3. Mahesh Chand and Puri : Regional Planning in India Allied Publishes Ltd, New Delhi
4. Prakash Rao & Sundaram : Regional Planning in India.
5. R. P. Mishra : Regional Planning.
6. Sundaram. K. V : Urban and Regional Planning in India.
7. Urs and Nataraj : Regional Planning

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8. Dr. L T Nayak : Regional Planning in India
9. M B Goudar : Regional Planning in India


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B.A. - VI Semester

Practical Paper: I-Geographical Information System and GPS

(w.e.f 2018-19 and Onwards)

Teaching hours per week: 4 Hours

Maximum Marks : 50 Marks
Semester End Examination : 35 Marks
Internal Assessment : 15 Marks

At the end of this course students will be able to:

- CO1. Understand the components of GIS and different types of data
- CO2. Understand the characteristics of Vector and Raster data, their use for the different purpose
- CO3. Acquire the skills of scanning the Toposheet and creating different layers
- CO4. Understand the spatial, Non-Spatial and Continuous data and their utility for the different purposes
- CO5. Gain the skills of using GPS and acquisition of data by GPS

Units	Sub Unit	No. Of Hours
I	Components of GIS: Hardware, Software, Data, People and Organizational Institutions. Characteristics of spatial data – Spatial Entries – spatial data structure: Raster and Vector.	06
II	Toposheet Quadrangle Scanning	08
III	Creating Layers, (theme): Water body, Vegetation, Roads and Settlements.	10
IV	Spatial, Non-Spatial and Continuous data. Exercise: Spatial data creation.	08
V	Acquisition of GPS Data.	08
	Total Hours	40
	Journal and Viva-Voce	

Reference Books:

- 1 AnjiReddy-(2001) - Remote sensing and Geographical Information System
2. Burrough.P.A.-(1986)- Principles of Geographical Information system for Land Resources, Clarendon Press, Oxford.
3. Chrisman N.R-(1997)- Exploring Geographic Information systems, Willy, New York.
4. Dutt.P.K - Elements of Practical Geography, Kalyni publishers, New Delhi-1979
5. Sarkar.A.K - Practical Geography: A systematic Approach, Oriental Langman, Kolkata-1997
6. Singh.R.L and


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Geography
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(w.e.f 2018-19 and Onwards)

Practical: II Field Work and Dissertation

Teaching hours per week: 4 Hours

Maximum Marks	: 50 Marks
Semester End Examination	: 35 Marks
Internal Assessment	: 15 Marks

At the end of this course students will be able to:

- CO1. Learn the significance of field work in geographical studies.
CO2. Understand the meaning of field and identifying the problem.
CO3. Know about different types of field techniques and suitable technique to apply for the selected study.
CO4. Develop a central idea about research problems.
CO5. Learn to arrive to the conclusion and summarize the entire study meaningfully

Sl. No	Units	Hours
I	Identification of the Problem and Study Area	08
II	Preparation of Questionnaire	06
III	Data Collection	06
IV	Analysis of the Data	10
V	Report Writing	10
	Viva – Voce	
	Total	40

Reference Books:

- | | |
|------------------------|---------------------------------------|
| 1) B. N. Ghosh | : Research Methodology. |
| 2) Hunmond & M C Culla | : Statistical methods in Geography. |
| 3) Kothari R. C. | : Research Methods. |
| 4) Pijushkanti Saha | : Advanced Practical Geography. |
| 5) Mohammad & Sanullah | : Quantities Techniques in Geography. |
| 6) R. P. Mishra. | : Research Methodology in Geography. |


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