BA 1[§] Year, Sem. I, Course I (Theory)

Programme/Class: Certificate/ BA	Year: First	Semester: First		
Subject: Geography				
Course Code: A110101T				

Course outcomes: Students will be able to understand

- The Earth geomorphic transition from beginning to present day.
- Plate tectonics and related movements

VI

VII

VIII

- Landforms carved by various agents of erosion
- Earth's climate and that factors that influence it

• Oce	ans system and biogeography o		
	Credits: 4	Core Compu	ulsory
	Max. Marks: 25+75	Min. Passing M	larks: 40
	Total No. of Lectures-Tutorials-Pra	actical (in hours per week):	L- 4/w
Unit	Topics		No. of Lectures
l	Nature and Scope of Physical Geography, Origin of Earth. Geological Time Scale (with special reference to evidences from India), Interior of the Earth.		8
II	Origin of Continents and Oceans: Isostasy, Continental Drift theory, Concept of Plate Tectonics. Earthquakes, Volcanoes, Geosynclines.		8
111	Rocks, Folding, Faulting, Weathering, Erosion, Drainage Pattern.		8
IV	Fluvial, Aeolian and Glacial Landforms, Cycle of Erosion(Davis and Penck).		8
V	Composition and Structure of		7

Anirollar

7

7

8

6

Atmospheric Pressure, Pressure Belts and Winds.

Humidity, Precipitation and Rainfall Types.

Reef and Atolls.

Regions of the World.

Air Masses and Fronts, Cyclones and Anti-cyclones,

Ocean Bottom Relief, Salinity, Horizontal and Vertical Distribution of Temperature, Circulation of Ocean Water-

Waves, Currents and Tides. Ocean Deposits, Corals

Biosphere, Biotic Succession, Biome, Zoo-geographical

Suggested Readings:

- Physical Geography (Eng./Hindi) Allahabad, India: Savindra (2018), PrayagPustak Singh,
- U.S.A.: Huggett, R.J. (2007): Fundamentals of Geomorphology. New York, Routledge.
 - 3. Khullar, D.R. (2012). Physical Geography. New Delhi. India: Kalyani Publishers.
- 4. Strahler, A. H. and Strahler, A N. (2001): Modern Physical Geography (4/E). New York, U.S.A.: John Wiley and Sons, Inc.
 - 5. Thornbury, W. D. (2004): *Principal of Geomorphology*. New York, U.S.A.: Wiley. 6. Bloom, A. L. (2003). Geomorphology: A Systematic Analysis of Late Cenc
- Systematic Analysis of Late Cenozoic 6. Bloom, A. L. (2003). Geomorphology: A Syste Landforms, New Delhi, India: Prentice-Hall of India.
- 7. Singh, K. N. (1999) Physical Geography, Gyanodaya Prakashan, ISBN: 81-7487 236-1, Gorakhpur.

This course can be opted as an elective by the students of following subjects: Open for all

Assignment / Test / Quiz(MCQ) / Seminar/ Presentations Suggested Continuous Evaluation Methods:

hs03/preview https://onlinecourses.swayam2.ac.in/nos20_sc25/preview courses:https://onlinecourses.swayam2.ac.in/cec21 Suggested equivalent online

List of all papers in all six semesters.

Semester-wise Titles of the Papers in BA (Geography)

Year	Sem.	Course	Paper Title	Theory/Practical	Credits
		Code			
1	ı	A110101T	Physical Geography	Theory	4
1	1	A110102P	Elements of Map and Surveying	Practical	2
1	11	A110201T	Human Geography	Theory	4
1	11	A110202P	Thematic Mapping and Surveying	Practical	2
2	III	A110301T	Environment, Disaster Management and Climate Change	Theory	4
2	III	A110302P	Statistical Techniques and Surveying	Practical	2
2	IV	A110401T	Economic Geography	Theory	4
2	IV	A110402P	Weather Maps, Geological Maps and Surveying	Practical	2
3	V	A110501T	Regional Geography and Planning Theory		4
3	V	A110502T	Basics of Remote Sensing and GIS	Theory	4
3	V	A110503R	Tour and Tour report	Practical	2
3	V	A110504R	Project Report-1	Practical	3
3	VI	A110601T	Geography of India	Theory	4
3	VI	A110602T	Evolution of Geographical Thought	Theory	4
3	VI	A110603P	Remote Sensing and GIS	Practical	2
3	VI	A110604R	Project Report-2	Practical	3

Springer

Note: In Final Examination Student shall be examined by external and internal examiners.

Marks Distribution: Written Exam, Viva, Practical File, Map Preparation, Topo sheet interpretation.

4

BA 1st Year, Sem. II Course I (Theory)

	am/Class: ficate/BA	Year: Fi	rst	Semes	ter: Second
		Subject:	Geography	/	
Course Co	ode:A110201T	C	ourse Title	: Human Geogr	aphy
On completion To und To und	derstand the Co	e, learners will be a ncept, Nature, Me tural and Cultural	eaning and	l Scope of Huma n and around the	ın Geography e Human Environs
	Credits: 4	1		Core Comp	ulsory
	Max. Marks: -2	25+75		Min. Passing N	Marks:40
	Total No. of Le	ctures-Tutorials-P	ractical (in	hours per week): L- 4/w
Unit				No. of Lectures	
I	Concept and Nature, Meaning and Scope of Human Geography. Development of Geographical Understanding in India With Special Reference to Puranas.		8		
II	Man and E Possibilism, a	nvironment Rela and Neo-determin	itionship- ism.	Determinism,	7
III	Population: Growth and Distribution, Migration: Causes and Consequences, Concept of Over Population and Under Population.		7		
IV	Human Settlements: Origin, Types and Pattern (Rural-			7	
V	Primary Activities- Gathering, Hunting, Pastoral Herding, Fishing, Lumbering and Primitive Agriculture.			8	
VI	Cultural Region	ons, Cultural Diffu	sion, Race	, Religion and	8

Admirante 8

7

World Tribes: Eskimos, Kirghiz, Bushman, Masai,

Indian Tribes: Bhotias, Gaddis, Tharus, Bhil, Gond,

VI

VII

VIII

Language.

Semang, Pygmies, Bedouin.

Santhal, Nagas, Jarawa.

Suggested Readings:

- 1. Chisholm, M. (1985): Human Geography, 2nd edition, Penguin Books, London.
- 2. B N Singh (2019) Manav Bhugol ka Swaroop, Pravalika Publication, Allahabad
- 3. de Blij, H.J.(1996): Human Geography: Culture, Society and Space,. 2nd edition. John Wiley and Sons, New York.
- 4. Haggett, P. (2004): Geography: A Modern Synthesis. 8th edition, Harper and Row, New York.
- 5. Hussain, M. (1994): Human Geography, Rawat Publications, Jaipur.
- 6. B N Singh (2021) Manav evam Arthik Bhugol, Pravalika Publication, Allahabad
- 7. Kaushik, S.D. and Sharma, A.K. (1996): Principles of Human Geography (in Hindi), Rastogi Publication, Meerut.
- 8. Norton, W. (2008): Human Geography, Oxford University Press, New York. 5th ed.
- 9. Singh, K. N. and Singh, J. (2001): Manav Bhugol. Gyanodaya Prakashan, Gorakhpur. 2nd edition.
- 10. Singh, L.R. (2005): Fundamentals of Human Geography, Sharda Pustak Bhawan, Allahabad
- 11. Singh, K. N. (2014) Human Geography, Gyanodaya Prakashan, Gorakhpur.
- 12. Stoddard, R.H., Wishart, D.J. and Blouet, B.W. (1986): Human Geography. Prentice-Hall, Englewood Cliffs, New Jersey.
- 13. B N Singh (2020) Samajik aur Sanskritik Bhugol, Pravalika Publication, Allahabad 14. Johnston, R. J., Gregory, D., Pratt, G. and Watts, M. (2009): The Dictionary of Human Geography.5th edition, Basil Blackwell Publishers, Oxford.
- 15. Ali, S. Muzafer (1966). Geography of the Puranas. New Delhi, People's Pub. House.
- 16. Smith, D. M.(1977): Human Geography- A Welfare Approach, Edward Arnold (Publishers) Ltd., London

Suggested Continuous Evaluation Methods:

Assignment / Test / Quiz(MCQ) / Seminar/ Presentations

Course prerequisites: 12th Standard Pass/Open to all

Suggested equivalent online courses:

Courses on Swayam / MOOCs

https://onlinecourses.swayam2.ac.in/nou20 hs18/preview

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BA 1stYear, Sem. II Course II (Practical)

Program/Class: Semester: Second Year: First Certificate/BA Subject: Geography Course Title: Thematic Mapping and Surveying Course Code:A110202P Course Learning Outcomes On completion of this course, learners will be able to: Understand the basic idea of Map, Scale and Topographic sheets Core Compulsory Credits: 2 Min. Passing Marks:40 Max. Marks: -25+75 Total No. of Lectures-Tutorials-Practical (in hours per week): P-2/w No. of Unit **Topics** Lectures Maps - Classification and Types, Principles of Map Design, Diagrammatic Data Presentation - Line, Bar ١ 8 and Circle. Thematic Mapping Techniques - Properties, Uses and 8 Data -- Choropleth, Areal Limitations: 11 Proportional Circles; Point Data – Isopleths. Concept of Point, Line and Areal Data. Thematic Maps 7 III - Preparation and Interpretation. Instrumental Survey: Prismatic Compass 7 IV

Suggested Readings:

- 1. Monkhouse, F. J. and Wilkinson, F.J. (1985): Maps and Diagrams. Methuen, London
- 2. Raisz, E. (1962): General Cartography. John Wiley and Sons, New York. 5th edition.
- 3. Sharma, J. P. (2001): Prayogik Bhugol., Rastogi Publication, Meerut 3rd. edition.
- 4. Singh, R.L. and Singh, Rana P.B. (1993): Elements of Practical Geography. (Hindi and English editions). Kalyani Publishers, New Delhi,.
- 5. Singh, L.R. (2006): Fundamentals of Practical Geography, Sharda Pustak Bhawan, Allahabad.
- 6. Sharma, JP. (2008): Prayogatmak Bhugol Ki Rooprekha, Rastogi Publications-Meerut.
- 7. Singh, K. N. (2005) Fundamentals of Practical Geography, Part-I Gyanodaya Publication, Gorakhpur.
- 8. Singh, K. N. (2006) Fundamentals of Practical Geography, Part-II Gyanodaya Prakashan, Gorakhpur.

Note: In Final Examination Student shall be examined by external and internal examiners. Marks Distribution: Written Exam, Viva, Practical File, Map Preparation. Homizonda

BA 2ndYear, Sem. III Course I

(Theory)

Programme/Class: Diploma/BA	Year: Second	Semester: Third		
Subject: Geography				
Course Code: A110301T	Course Title: Environment, Disaster Management and Climate Change			

Course outcomes: Students will be able to understand

Credits: 4

- The course aim is to give basic understanding of concept Environment, Climate Change and Disaster Management.
- Understanding of the concept of appraisal and conservation of Environment and Natural Resources.
- It will help in developing understanding about various Impacts of Climate Change.

Core Compulsory

- This course shall introduce the basic concepts related to disaster Management.
- This paper shall help in understanding Global effort in field of disaster management.

			,
	Max. Marks: 25+75	Min. Passing Ma	arks: 40
-	Total No. of Lectures-Tutorials-Pra	actical (in hours per week):	L- 4/w
Unit	Topics		No. of Lectures
I	Concepts & Components of Environment, Ecology and Ecosystem. Indian Traditional Knowledge in Environment and Disaster Management.		8
11	Bio-diversity and its Conservation, Sustainable Development.		8
111	Deforestation, Soil Erosion, Soil Exhaustion, Desertification, Air Pollution, Water Pollution, Disposal of Solid Waste.		8
IV	Institutional Initiatives: Ganga A Tehri Dam & Narmada Valley F		8
 Understanding Climate Change; Green House Gases and Global Warming. 			8
VI Global Climatic Assessment – IPCC, Impacts of Climate Change, National Action Plan on Climate Change.		7	
VII	Risk, Vulnerability, Hazards, Disasters, Type of Disasters, Disaster Management: Concept and Cycle.		7

VIII	Flood, Drought, Cyclone, Earthquake, Tsunami, Landslide, Chemical, Epidemiological Disaster and Nuclear Disaster Management. Do's and Don'ts During Disasters.	6
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Suggested Readings:

- 1. Casper J.K. (2010). Changing Ecosystems: Effects of Global Warming. New York, USA: Infobase Pub.
- 2. Hudson, T. (2011). Living with Earth: An Introduction to Environmental Geology. Delhi, India: PHI Learning Private Limited.
- 3. Miller, G.T. (2007). *Living in the Environment: Principal, Connections, and Solutions*. Belmont, Australia: Brooks/ Cole Cengage Learning.
- 4. Singh, R.B. (1993) Environmental Geography. Delhi, India: Heritage Publishers.
- 5. UNEP. (2007). Global Environment Outlook: GEO4: Environment For Development, United Nations Environment Programme. UK: University Press, Cambridge.
- 6. Government of India. (2011). Disaster Management in India. Delhi, India: Ministry of Home Affairs.
- 7. Singh, Savendra (2019) Pryavaran Bhugol, Pravalika Publication, Allahabad
- 8. Kapur, A. (2010). *Vulnerable India: A Geographical Study of Disasters*. Delhi, India: Sage Publication.
- 9. Singh, Savendra (2019) Apada Prabandhan, Pravalika Publication, Allahabad.
- 10. Ramkumar, M. (2009). Geological Hazards: Causes, Consequences and Methods of Containment. New Delhi, India: New India Publishing Agency.
- 11. Climate Change: Understanding Climate Change; Green House Gases and Global Warming; Global Climatic Assessment- IPCC
- 12. Climate Change and Vulnerability: Physical Vulnerability; Economic Vulnerability; Social Vulnerability.
- 13. Impact of Climate Change: Agriculture and Water; Flora and Fauna; Human Health
- 14. Adaptation and Mitigation: Global Initiatives with Particular Reference to South Asia.
- 15. The Climate Change Policy Framework: Global Initiatives UNFCCC and COPs; National and Local Action Plan on Climate Change.
- 16. Government of India. (2008). *Vulnerability Atlas of India*. New Delhi, India: Building Materials & Technology Promotion Council, Ministry of Urban Development, Government of India
- 17. Modh, S. (2010). *Managing Natural Disaster: Hydrological, Marine and Geological Disasters*. Delhi, India: Macmillan.
- 18. Bansal SC,(2020) Jalvayu vigyan evam Samudra Vigyan, Meenakshi Publication, Meerut.
- 19. Bansal SC,(2019) Prayavarn ek adhyan, Meenakshi Publication, Meerut.
- 20. Pandey, R.K.(2020) "Disaster Management in India", Sage Text, Delhi.
- 21. Gupta, Abhik, (2021) "Environmental Studies Principles and Practices", Sage Text, Delhi,
- 22. छोकर, किरण, (2018) "पर्यावरण बोध", Sage Publication, Delhi,

This course can be opted as an elective by the students of following subjects: Open for all

Suggested Continuous Evaluation Methods:

Assignment / test / Quiz(MCQ) / Seminar/ Presentations

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Suggested equivalent online courses:

https://onlinecourses.swayam2.ac.in/aic19_ge05/preview https://onlinecourses.swayam2.ac.in/nou21_bt03/preview

Amaranta

BA 2nd Year, Sem. III Course II (Practical)

Programme/Class: Diploma/BA	Year: Second	Semester: Third
	Subject: Geography	
Course Code: A110302P	Course Title: Statistica	Techniques and Surveying

Course outcomes: Students will be able to understand

- To differentiate between qualitative and quantitative information.
- To understand the nature of various data.
- To understand sampling methods for data collection.
- To present data through graphical and diagrammatic formats.
- To use the concept of probability mainly the normal distribution.

Credits: 2		Core Compulsory	
Max. Marks: 25+75		Min. Passing Ma	arks: 40
Т	otal No. of Lectures-Tutorials-Pra	actical (in hours per week):	P- 2/w
Unit	Topics		No. of Lectures
ı	Use of Data in Geography: Significance of Statistical Methods in Geography; Sources of Data, Scales of Measurement (Nominal, Ordinal, Interval, Ratio)		8
II	Tabulation and Descriptive Statistics: Frequency Distribution Table, Cross Tabulation, Graphical Presentation of Data (Bar Diagram, Histograms, Frequency Curve and Cumulative Frequency Curves), Measurement of Central Tendencies (Mean, Median and Mode), Measurement of Partitions (Deciles, Quartiles and Percentiles), Dispersion (Standard Deviation, Variance and Coefficient of Variation).		8
Sampling: Probability and Non-probability Sampling. Correlation: Rank Correlation and Product Moment Correlation.		7	
IV	Instrumental Survey: Indian C	linometer	7

Suggested Readings:

- 1. Berry B. J. L. and Marble D. F. (eds.): Spatial Analysis A Reader in Geography.
- 2. Ebdon D., 1977: Statistics in Geography: A Practical Approach.

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- 3. Davis, R.E. and Foote, F.S. (1953): Surveying, 4th edition, McGraw Hill Publication, New York
- 4. Sharma, JP (2001) Prayogik Bhugol, Rastogi Publication, Meerut
- 5. Hammond P. and McCullagh P. S., 1978: Quantitative Techniques in Geography: An Introduction, Oxford University Press.
- 6. Sharma, PM, (2009) Bhugol Me sankhkiya Vidhyan, Rajasthan Granth Accademy, Jaipur
- 7. Bansal SC,(2020) Shodh vidhitantra va sankhikiya Vishyan, RK Books Publication, New Delhi.
- 8. King L. S., 1969: Statistical Analysis in Geography, Prentice-Hall.
- 9. Mahmood A., 1977: Statistical Methods in Geographical Studies, Concept.
- 10. Pal S. K., 1998: Statistics for Geoscientists, Tata McGraw Hill, New Delhi.
- 11. Sarkar, A. (2013) Quantitative geography: techniques and presentations. Orient Black Swan Private Ltd., New Delhi
- 12. Silk J., 1979: Statistical Concepts in Geography, Allen and Unwin, London.
- 13. Spiegel M. R.: Statistics, Schaum's Outline Series.
- 14. Yeats M., 1974: An Introduction to Quantitative Analysis in Human Geography, McGraw Hill, New York.
- 15. Narayana, D., Ranjan, Sharad, (2021) "Basic Computational Techniques For Data Analysis", Sage Text, Delhi.
- 16. Singh, K. N. (2005) Fundamentals of Practical Geography, Part-I Gyanodaya Publication, Gorakhpur.
- 17. Singh, K. N. (2006) Fundamentals of Practical Geography, Part-II Gyanodaya Prakashan, Gorakhpur.

This course can be opted as an elective by the students of following subjects: Open for all

Note: In Final Examination Student shall be examined by external and internal examiners. Marks Distribution: Written Exam, Viva, Practical File, Instrumental Surveys.

BA 2ndYear, Sem. IV Course I (Theory)

Program/Class: Diploma /BA	Year: Second	Semester: Fourth	
Subject: Geography			
Course Code: A110401T	Course Title: Economic Geography		

Course Learning Outcomes

VII

VIII

On completion of this course, learners will be able to:

- Define Meaning, concepts and approaches of Economic Geography
- Understand the nature of Economic activities. Resource Distribution

 Understand the Effect of globalization on developing countries. 				
	Credits: 4	Core Compu	ulsory	
	Max. Marks: 25+75	Min. Passing N	Marks:40	
	Total No. of Lectures-Tutorials-P	ractical (in hours per week)	: L- 4/w	
Unit	Topics		No. of Lectures	
ı	Meaning, Concepts and Approaches of Economic Geography;		6	
II	Resource: Meaning, Concept, Classification and Conservation. Spatial Organization of Economic Activities.		9	
III	Economic Organization of Spa Mining Activities.	8		
IV	Agricultural Typologies, Agric (J.H. Von Thunen), Agricultu (Derwent Whittlesey).	9		
V	Types of Industries; Factors Iron and Steel Industry, Cot Theory of Industrial Location (A	9		
VI	World Transportation: Sea R continental Railways.	Routes and Major Trans-	8	

WTO and International Trade: Patterns and Trends, With

Effect of Globalization on Developing Countries. With

Special Reference to India

Special Reference to India

Suggested Readings:

- 1. B N Singh (2021) Manav Evam Arthik Bhugol, Pravalika Publication, Allahabad
- 2. Bryson, J., Henry, N., Keeble, D. and Martin, R. (eds.) (1999): The Economic Geography Reader: Producing and Consuming Global Capitalism. John Wiley and Sons, Inc, New York.
- 3. Clark, G. L., Gertler, M. S. and Feldman, M. P. (eds.) (2000): The Oxford Handbook of Economic Geography. Oxford University Press, USA.
- 4. Coe, N. (2007): Economic Geography: A Contemporary Introduction. Blackwell Publishers, Inc., Massachusetts.
- 5. Gautam, A. (2006): Aarthik Bhugol Ke Mool Tattava, Sharda Pustak Bhawan, Allahabad.
- 6. Singh, K. N. (2013) Arthik Bhoogol ke Mool Tatva, Gyanodaya Prakashan, Gorakhpur.
- 7. RC Tiwari & BN Singh (2021) Krishi Bhugol, Pravalika Publication, Allahabad.
- 8. Hartshorne, T. A. and Alexander, J. W. (1988): Economic Geography (3rd revised edition) Englewood Cliff, New Jersey, Prentice Hall
- 9. Hudson, R. (2005): Economic Geographies: Circuits, Flows and Spaces. Sage Publications, London.
- 10. Knowles, R, Wareing, J. (2000): Economic and Social Geography Made Simple, Rupa and Company, New Delhi.
- 11. Sokal, Martin 2011. Economic Geographics of Globalisation: A short Introduction. Cheltenham, UK: Edward Elgar.
- 12. Alexander, J. W. (1988): Economic Geography. Prentice-Hall, New Delhi,
- 13. Guha, J. S. and Chattoraj, P.R. (2002): A New Approach to Economic Geography: A Study of Resources. The World Press Private Limited, Kolkata.
- 14. Hanink, D. M. (1997): Principles and Applications of Economic Geography: Economy, Policy, Environment. John Wiley and Sons, Inc, New York.

Suggested Continuous Evaluation Methods:

Assignment / test / Quiz(MCQ) / Seminar/Presentations

Suggested equivalent online courses:

Courses on Swayam / MOOCs

https://onlinecourses.nptel.ac.in/noc21 hs50/preview

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BA 2nd Year, Sem. IV Course II (Practical)

Course Code:A110402P	Course Title: Weather Maps, Geological Maps and Surveying	
	Subject: Geography	
Program/Class: Diploma /BA	Year: Second	Semester: Fourth

Course Learning Outcomes

On completion of this course, learners will be able to:

- Identify the various Survey Operations and Survey Instruments
- To understand the idea of Basic and applied Instrumental surveying

Credits: 2	Core Compulsory
Max. Marks: 25+75	Min. Passing Marks:40
T	

Total No. of Lectures-Tutorials-Practical (in hours per week): P-2/w

Unit	Topics	No. of Lectures
1	Weather Maps, Study and Interpretation of Weather Map, Weather Forecasting.	7
11	Geological Maps: Types, Signs, Bed and Bedding Plane, Rock Outcrop, Dip, Strike etc. Construction of Geological Sections.	10
Ш	Instrumental Survey: Sextant	5
IV	Instrumental Survey: Dumpy Level	8

Suggested Readings:

- 1. Sharma, JP (2001) Prayogik Bhugol, Rastogi Publication, Meerut
- 2. Jones, P.A.(1968): Fieldwork in Geography, Longmans, Green and Company Ltd., First Publication, London
- 3. Kanetker, T.P. and Kulkarni, S.V.(1967): Surveying and Levelling, Vol I and II V.G. Prakashan, Poona.
- 4. Natrajan, V. (1976): Advanced Surveying, B.I. Publications., Mumbai.
- 5. Pugh, J.C. (1975): Surveying for Field Scientists, Methuen and Company Ltd., London, First Publication.
- 6. Punmia, B.C.(1994): Surveying, Vol I, Laxmi Publications Private Ltd, New Delhi.
- 7. Shephard, F.A. (1968): Surveying Problems and Solutions, Edward Arnold (Publishers) Ltd, London
- 8. Singh, R.L. and Singh, Rana P.B. (1993): Elements of Practical Geography. (Hindi and English editions), Kalyani Publishers, Ludhiana and New Delhi.
- 9. Venkatramaiah, C. (1997): A Text Book of Surveying, Universities Press, Hyderabad.
- 10. Davis, R.E. and Foote, F.S. (1953): Surveying, 4th edition, McGraw Hill Publication, New York.
- 11. Singh, K. N. (2005) Fundamentals of Practical Geography, Part-I Gyanodaya Jonnand.

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Publication, Gorakhpur.

12. Singh, K. N. (2006) Fundamentals of Practical Geography, Part-II Gyanodaya Prakashan, Gorakhpur.

Note: In Final Examination Student shall be examined by external and internal examiners. Marks Distribution: Written Exam, Viva, Practical File, Instrumental Surveys.

Jani-anda

16

BA 3rd Year, Sem. V Course I (Theory)

	Programme/Class:		
	Degree/BA	Year: Third	Semester: Fifth
		Subject: Geography	
	Course Code: A110501T	Course Title: Regional Geogr	aphy and Planning
- 1		1	•

Course outcomes: Students will be able to understand

- To understand the concept of Region and Regional Planning.
- To familiarize the students with Theories and Models for Regional Planning.
- To develop understanding about concept of Development, Sustainable Development and Multi level planning.

Credits: 4	Coro Compulación
	Core Compulsory
Max. Marks: 25+75	Min. Passing Marks: 40

Total No. of Lectures-Tutorials-Practical (in hours per week): L- 4/w

Unit	Topics		
I	Regions: Concept and Classification , Basis and Approaches of Regionalisation. Evolution and Objectives of Regional Planning. Planning Practices in Ancient India.		
II	Types of Region, Formal and Functional, Planning Regions. Macro, Meso and Micro Regions.	8	
III	Approaches to Regional Geography of Middle Ganga Plain, Chota Nagpur Plateau, Rajasthan Desert and Ladakh.	8	
IV	Concept of Development and Underdevelopment. Sustainable Development,	8	
V	Concept, Theories and Models for Regional Planning: Perroux; Myrdal, Rostow.	8	
VI	Indicators of Development and Regional Disparity (Economic, Social and Environmental).	7	
VII	Efficiency-Equity Debate: Definition, Components and Sustainability for Development.	7	
VIII	Regional Planning in India: Experiences Through Five Year Plans, Multi Level Planning, Participatory Planning, Role of Panchayati Raj Institutions and Urban Local Bodies.	6	

Suggested Readings:

- 1. Agyeman, Julian, Robert, D. Bullard and Bob, Evans. (Eds.) (2003). Just Sustainabilities: Development in an Unequal World. London: Earthscan. (Introduction and conclusion.).
- 2. Pattanaik, B.K., (2020) "Introduction to Urban Development and Planning", Sage
- 3.
- 4. Anand, Subhash.,(2011). Ecodevelopment: Glocal Perspectives. New Delhi, India: Research India Press.
- 5. Misra, R. P., Sundaram, K.V., and Rao, V.L.S. (1974). Regional Development planning in India. Delhi, India: Vikas Publishing House.
- 6. Singh, M B, () Pradeshik Vikas Niyogan, Tara Book Agency, Varanasi.
- 7. Peet, R. (1999). Theories of Development. New York, USA: The Guilford Press.
- 8. Berry, BJ.L. and Horton, F.F. (1970): Geographic Perspectives on Urban Systems. Prentice Hall, New Jersey.
- 9. Bhat L.S. (1972): Regional Planning In India, Statistical Publishing Society
- 10. Blij H. J. De, 1971: Geography: Regions and Concepts, John Wiley and Sons.
- 11. Kulshetra ,S.K,(2012): Urban and Regional Planning in India: A hand book for Professional Practioners , Sage Publication , New Delhi
- 12. Kundu, A. (1992): Urban Development Urban Research in India, Khanna Publ. New Delhi.
- 13. Misra , R.P, Sundaram K.V, Prakash Rao , VLS(1974): Regional Development Planning in India, Vikas Publication, New Delhi.
- 14. Misra, R.P (1992): Regional Planning: Concepts, techniques, Policies and Case Studies, Concept, New Delhi
- 15. Friedmann, J. and Alonso W. (1975). Regional Policy Readings in Theory and Applications. Massachusetts, USA: MIT Press.

This course can be opted as an elective by the students of following subjects: Open for all

Suggested Continuous Evaluation Methods:

Assignment / test / Quiz(MCQ) / Seminar/ Presentations

Suggested equivalent online courses:

https://onlinecourses.swayam2.ac.in/aic19 ge05/preview

Monrander

BA 3rdYear,Sem. V Course II (Theory)

Program/Class: Degree /BA	Year: Third	Semester: Fifth
	Subject: Geography	1.016
Course Code:A110502T	Course Title: Basics	of Remote Sensing and GIS
Caused Learning Outcomes		

Course Learning Outcomes

On completion of this course, learners will be able to:

 Understand the Basic idea and application of Remote sensing Techniques and Geographical Information System

Credits: 4	Core Compulsory
Max, Marks: 25+75	Min. Passing Marks:40
Max. Marks. 20 170	

Total No. of Lectures-Tutorials-Practical (in hours per week): L- 4/w			
	Total No. of Lectures-Tutorials-Practical (in riodic political)	No. of	
Unit	Unit Topics		
ı	Remote Sensing: Definition, Type, Scope and Historical Development. Types of Satellites.	7	
II	Electro-magnetic Radiation: Characteristics, Spectral Regions and Bands. Stages or Process of Remote	7	
III	Remote Sensing Satellites: Platform and Sensors. Resolution: Spatial, Spectral, Temporal, Radiometric	8	
IV	Remote Sensing Data Processing and Applications: Visual and Digital Image Processing Techniques.	8	
V	Remote Sensing Applications in Urban Planning, Agriculture, Forestry, Land Use/Land Cover Mapping, Oceanic Studies and Disaster Management.	6	
VI	Introduction to GIS: Definition, Concept and	8	
VII	Computer Fundamentals for GIS, GIS Packages like ARC GIS, ERDAS, QGIS etc.	8	
VIII	Coordinate System, Datum, Raster and Vector data.	8	

Suggested Readings:

- 1. Choniyal, D D, (2016) Sudur Samvaden evam Bhogolic Suchna Pranali ke sighant, Sharda Pustak Bhavan, Allahabad.
- 2. Lillesand, T.M. and Kiefer, R.W. (2000): Remote Sensing and Image Interpretation. 4th edition. John Wiley and Sons, New York
- 3. Campbell, J.B. (2002): Introduction to Remote Sensing. 5th edition, Taylor and Francis,
- 4. Bhatta, B. (2010): Remote Sensing and GIS, Oxford University Press, New Delhi.
- 5. Nag Prithvish and Kudrat M. (1998): Digital Remote Sensing, Concept Publishing Company, New Delhi
- 6. Curran, P.J. (1985): Principles of Remote Sensing, Longman, London.

Suggested Continuous Evaluation Methods: Assignment / test / Quiz(MCQ) / Seminar/Presentations

Suggested equivalent online courses:Courses on Swayam / MOOCs https://onlinecourses.swayam2.ac.in/aic20 ge05/preview

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BA 3rd Year, Sem. V, Course III (Practical)

Programme/Class: Degree/BA	Year: Third	Semester: Fifth
	Subject: Geography	
Course Code: A110503R	Course Title: Geographica	I Excursion and Tour report

Course outcomes: Students will be able to understand

- The variation among geographical locations.
- Interaction with people with different natural and cultural settings.
- Study physical and human geography of area being visited.

Learn to prepare tour report.

Learn to prepare tour report.	Compulsory
Credits: 2	Core Compulsory
	Min. Passing Marks: 40
Max. Marks: 100	7/1/1. P. 2/w

Total No. of Lectures-Tutorials-Practical (in hours per week): P- 2/w

Total No. of Lectures-Tutorials Trusties (No. of
11:4	Topics	Lectures
Unit	Significance of Geographical Excursion, Planning for Excursion, Preparation of Surveying in Field Trip. Preparation of Field Book, steps and methods for preparing Tour report, Methodology for Research in Field Trip, Various aspects of study in Field Trip, (30 lectures shall be taken before and during field trip)	30

Suggested Readings:

This course can be opted as an elective by the students of following subjects: Open

Suggested Continuous Evaluation Methods:

The following shall be the guidelines and structure of Educational tour;

Geographical Excursion Committee

- 1. All faculty members shall organize geographical excursion as 'tour in-charge' in rotation according to departmental seniority list.
- 2. There shall be Geographical Excursion Committee headed by HOD in University and Principal in colleges. Tour in-charge shall act as convener of committee and shall convene a meeting at the beginning of session or semester. All other teachers of department shall be member of committee. Four/Five meritorious students based on last available examination result shall be invited by the tour in-charge to participate in meeting as members of committee.
- 3. Committee shall:
 - a) Review the tour plan.

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- b) Confirm that all arrangements shall be made in advance before tour departure.
- c) Listen to the opinion of students and give recommendations to tour in-charge accordingly.
- d) Review academic nature of tour and evaluate day wise tour plan and academic activity as submitted by Tour in-charge.

Structure of the tour party

- 1. For 20 or less than 20 students one faculty member with one non teaching staff shall accompany the Tour party. For 21 to 50 students two faculty members with one non teaching staff shall accompany the Tour party. If two faculty members are required for tour, second faculty member shall be selected on the recommendation of tour incharge. If students are more than 50 then a separate tour batch shall be constituted in same manner.
- 2. If female students are also participating in tour and tour in-charge, accompany other faculty member or Non teaching staff none are female then one female attended (Female faculty member from Geography or any other departments/female non teaching staff) shall accompany with tour party.

Responsibility of tour in-charge

- 1. Tour shall at least of 6 days stay at location with inter region variation (Mountain, Plain, Plateau or Dissert).
- 2. Tour in-charge shall submit tentative day wise activity report in advance to HOD in University and Principal in colleges.
- 3. Tour in-charge shall coordinate with Institutes/Colleges/ Universities/Research institutes etc in location where tour is being planned for following activities like;
 - a) Interaction of students.
 - b) Lectures on various local physical and cultural attributes of the area by the
 - c) Local visit with faculty members having academic understanding of the area.
- 4. Lectures by tour in-charge on physical and human characteristics of area being visited for educational tour.
- 5. Survey with students with at least one instrument like Dumpy Level, Sextant, Theodolite, GPS etc.
- 6. Questionnaire survey on various socio-cultural or any other aspects. Questionnaire must be prepared in advance and shall be shared during Geographical Excursion Committee meeting.
- 7. Tour in-charge shall collect undertaking from all students which shall be counter signed by their guardian.
- 8. Tour in-charge will prepare list of students accompanying the tour with their information like mobile number, address, guardian contact information and one recent color photo. One copy will also be submitted to the head in universities and Principal in colleges.
- 9. Teacher shall always try to minimize tour expenditure of students by;

- a) Using concession train reservation and avoiding buses if possible.
- b) Making stay arrangements of students in advance in youth hostels/lodges/guest house etc.
- c) Try to visit few important locations only with objective of spot study and avoiding unnecessary travel for sightseeing.
- 10. After the completion of tour there shall be presentation by students regarding learning outcomes and experiences under the supervision of tour in-charge. Presentation shall be attended by Geographical Excursion Committee members along with other faculty members, staff, students etc.
- 11. All students shall submit tour report under supervision of Tour in-charge for evaluation. Tour report shall portray all activities conducted and places visited for the purposes of study.
- 12. In case of any incident/injury where one or more than one student can't join tour party in return journey. One teaching/non teaching staff member shall stay with student until student's guardian arrives or alternative arrangement is not made by the college. In case tour in-charge stays the other teacher/staff member shall act as tour in-charge for remaining tour period according to seniority.

Exemption of Students from Tour

 Tour can be exempted in very special circumstances on recommendation of tour incharge and head (in University) or Principal (in Colleges). Exempted students will prepare local tour report based on his/her own local tour visits. Report shall be prepared under supervision of tour in-charge.

TA, DA and other expenses

1. The TA, DA and other expenses of teachers and attendants shall be met out by college as admissible to their cadre as per government rules.

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Suggested equivalent online courses

BA 3rd Year, Sem. V, Course III (Practical)

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9	Programme/Class: Year: Third Semester: Fifth		ster: Fifth		
ung gegetet, ser er in der det er in en		Subject: Ge	eography	and the second section of the section of the second section of the	a. proceditions and commercials — sometic handlessentials are product subsensitive about the
Course A11050		Co	ourse Title:	Project Repor	t-1
Course outco • In-depth	mes: Studei knowledge	nts will be able to of research meth	understan odology.	d	
Learn to	prepare Pro Credits:			Core Compu	Isory
	Max. Marks:			Min. Passing Ma	arks: 40
per completion of the completi	tal No. of Le	stures-Tutorials-Pra	ictical (in h	ours per week):	P- 2/w
	Total No. of Lectures-Tutorials-Practical (in hours per week): Topics		No. of Lectures		
Meaning, types and significance of Research, Literature review and formulation of research design, research problem, objectives, hypothesis, Research materials and methods, Sampling etc. Techniques of writing scientific reports: Preparing notes, references, bibliography, abstract and keywords etc. Note: 1. Each faculty member shall teach these topics of research to his/her Group of students independently. 2. Student shall be allotted according to research interest and specialisation of Faculty member.			30		
Suggested Readings:					
This course can be opted as an elective by the students of following subjects: Open for all					
Suggested Continuous Evaluation Methods: Seminar, Presentations, VIVA					
Suggested equivalent online courses					

BA3rd Year, Sem. VI, Course I Amrantan >

(Theory)

Program/Class: Degree /BA	Year: Third	Semester: Sixth
	Subject: Geography	
Course Code:A110601T	Course Title: Geography of India	
Course Learning Outcomes		
On completion of this course. In	earners will be able to:	

n completion of this course, learners will be able to:
Understand the importance of "Ek Bharat Shrestha Bharat"
Understand the wider aspects of Geography of India

Credits: 4	1	Core Compulsory	
Max. Marks: 2	5+75	Min. Passing Marks: 40	
Total No. of Le	ctures-Tutorials-P	ractical (in hours per week): I	4/w
	T!		No. of

Unit	Topics	No. of Lectures
1	Space Relationship of India with Neighbouring Countries; Structure and Relief; Drainage System; Physiographic Regions; Ek Bharat Shrestha Bharat: A Geographical Perspective.	8
II	Mechanism of Indian Monsoons and Rainfall Patterns, Tropical Cyclones, and Western Disturbances; Climatic Regions; Natural Vegetation; Soil Types and Their Distributions.	8
Ш	Land, Water (Surface and Groundwater), Energy, Minerals, Biotic and Marine Resources; ; Energy Crisis.	7
IV	Factors Influencing Agriculture: Major Crops (Wheet, Rice, Cotton, Sugarcane), Cropping Pattern and Intensity, Agricultural Regions, Agro and Social-forestry; Green Revolution and its Socio-economic and Ecological Implications.	7
V	Industry: Locational Factors of Industries With Special Reference to Iron and Steel, Textiles, Cement and Automobile Industrial Regions and Industrial Complexes; New Industrial Policies; Special Economic Zones.	8
VI	Cultural Setting: Historical Perspective of Indian Society; Racial, linguistic and Ethnic Diversities; Unity in Diversity, Cultural Regions.	8
VII	Population: Growth, Distribution, and Density Demographic Attributes: Sex-ratio, Age Structure, Literacy and Occupational Structure. Migration (Interregional, Intraregional and International) and Associated Problems; Population Problems and Policies;	6
	25	Adrivant

Planning; Problems of Urbanization and Remedies. Smart Cities and Inclusive Cities.	VIII	Settlements: Types, Patterns, and Morphology of Rural Settlements; Trends and Pattern of Urbanisation; Urban Sprawl; Slums and Associated Problems; Town Planning; Problems of Urbanization and Remedies. Smart Cities and Inclusive Cities
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Suggested Readings:

- 1. Chauhan, P.R. and Prasad, M. (2003): Bharat Ka Vrihad Bhugol, Vasundhara Prakashan, Gorakhpur.
- 2. Farmer, B.H. (1983): An Introduction to South Asia. Methuen, London
- 3. Gautam, A. (2006): Advanced Geography of India, Sharda PustakBhawan, Allahabad
- 4. Johnson, B.L.C. (1963): Development in South Asia. Penguin Books, Harmondsworth
- 5. Krishnan, M.S. (1982): Geology of India and Burma, CAS Publishers and Distributors, Delhi.
- 6. Bansal SC,(2018) Bharat Ka Bhugol, Meenakshi Publication, New Delhi, Meerut.
- 7. Nag, P. and Gupta, S. S. (1992): Geography of India, Concept Publishing Company, New Delhi.
- 8. Singh, K. N. (2008) The Geography of India, Gyanodaya Prakashan, Gorakhpur.
- 9. Sharma, T.C. and Coutinho, O. (2003): Economic and Commercial Geography of India, VikasPublishing House Private Ltd. New Delhi.
- 10. Singh , J. (2003): India: A Comprehensive Systematic Geography. Gyanodaya Prakashan,Gorakhpur
- 11. Singh, J. (2001): Bharat: Bhougolik Aadhar Avam Ayam, Gyanodaya Prakashan, Gorakhpur.(Hindi)
- 12. Singh, R.L. (ed.) (1971): India: A Regional Geography. National Geographical Society of India, Varanasi.
- 13. Spate, O.H. K., Learmonth A. T. A. and Farmer, B. H. (1996): India, Pakistan and Sri Lanka.Methuen, London, 7th edition.
- 14. Sukhwal, B.L. (1987): India: Economic Resource Base and Contemporary Political Patterns. Sterling Publication, New Delhi
- 15. Tiwari, R.C. (2007): Geography of India, Prayag Pustak Bhawan, Allahabad.
- 16. Wadia, D. N. (1959): Geology of India. Mac-Millan and Company, London and student edition, Madras.
- 17. Khullar, D.R. (2007): India: A Comprehensive Geography, Kalyani Publishers, New Delhi
- 18. Rao, B.P. (2007): Bharat kee Bhaugolik Sameeksha, Vasundhara Prakashan, Gorakhpur.

Suggested Continuous Evaluation Methods:

Assignment / test / Quiz(MCQ) / Seminar/ Presentations

Suggested equivalent online courses:Courses on Swayam / MOOCs https://onlinecourses.swayam2.ac.in/nou20_ag10/preview

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BA 3rdYear, Sem. VI, Course II (Theory)

_	Program/Class: Year: Third Se		mester: Sixth		
		Subject:	Geography		
Course Code:A110602T Course Title: Evolution of Geogra			phical Thought		
On comple	retand the contri	se, learners will be bution of Indian ept of evolution of	and other re	al mought.	
	Credits: 4			Core Com	
	Max. Marks: 2			Min. Passing	
	Total No. of Led	ctures-Tutorials-P	ractical (in h	ours per weel	(): L- 4/W
Unit		Topics			No. of Lectures
I	Nature and scope of Geography, Main Concepts of Geography, Early Origins of Geographical Thinking, Concepts of Distributions; Relationships, Interactions, Areal Differentiation and Spatial Organization in		9		
Dualisms in Geography; Systematic Vs Regional Geography, Physical Vs Human Geography, The Myth and Reality about Dualisms Unity of Nature in Geography.		8			
III	and the state of t			5	
IV Contribution of Greek & Roman Geographers in Ancient World.		7			
V	Contribution of Arab Geographers in Middle Ages, Renaissance Period in Europe. Renowned Travelers and Their Geographical Discoveries.		8		
VI	German School of Thought - Kant, Humboldt, Ritter, Richthofen, Ratzel, Hettner; French School of Thought - Contribution of Blache & Brunhes.		8		
VII	Soviet Geographers, American School - Contribution of Semple, Huntington & Carl Sauer. British School - Contribution of Mackinder, Herbertson & L.D. Stamp.			7	
VIII	Paradigms in Geography, Thomas Kuhn Theory about the Growth and Development of Science. Application of Kuhn Model in Geography.			8	

suggested Readings:

- 1. Ali, S.M. (1960): Arab Geography, Institute of Islamic Studies, Aligarh Muslim University, Aligarh, First Edition.
 - 2. Daniel, P., Bradshaw, M., Shaw, D. and Sidaway, J. (2000): Human Geography. Issues for the 21stCentury. Prentice Hall, London.
 - 3. Diddee, J. (ed.) (1990): Indian Geography, Institute of Indian Geographers, Pune, first edition.
 - 4. Dikshit, R. D. (2003): Geographical Thought. A Critical History of Ideas. Prentice-Hall of India, New Delhi. (in English and Hindi).
 - 5. Dube, B. (1967): Geographical Concepts in Ancient India, National Geographical Society of India, Varanasi
 - 6. Getice, A., Getis, J. and Fellman, J. D. (2007): Introduction to Geography. 10th edition. McGrawHill, New York.
 - 7. Hartshorne, R. (1959): Perspective on the Nature of Geography, John Murray, London
 - 8. Harvey, D. (1969): Explanations in Geography. Arnold, London.
 - 9. Holt-Jensen, A. (1980): Geography: Its History and Concepts. Harper and Row
 - 10. Husain, Majid. (2002): Evolution of Geographical Thought, Rawat Publications,
 - 11. Johnston, R., Gregory, D., Pratt, G., Watts, M. and Whatmore, S. (2003): The Dictionary of HumanGeography. Blackwell Publishers, Oxford. 5th edition.
 - 12. Johnston, R. and Sidaway, J.D. (2004): Geography and Geographers: Anglo-
 - American HumanGeography Since 1945, Arnold Publishers, London. 13. Rawling, E. and Daugherty, R. (eds.) (2005): Geography into the Twenty-first Century.
 - 2nd edition. John Wiley and Sons, Chichester. 14. Taylor, G. (ed.) (1953): Geography in the Twentieth Century. Methuen and Company, London.

Suggested Continuous Evaluation Methods:

Assignment / test / Quiz(MCQ) / Seminar/ Presentation

Suggested equivalent online courses:

Courses on Swayam / MOOCs

https://onlinecourses.swayam2.ac.in/cec21_lg06/preview

BA 3rd Year, Sem. VI, Course III (Practical)

Program/Class: Degree/BA	Year: Third	Semester: Sixth
	Subject: Geography	
Course Code: A110603P	Course Title: Rer	note Sensing and GIS

Course Learning Outcomes

On completion of this course, learners will be able to:

- Understand and Conceptualize Remote Sensing and GIS Technique
- Understand the use of various image processing Software
- Basic idea of Geographical Information System

Dasic luea of Ocographical information		
Credits: 2	Core Compulsory	
Orcano. 2	Marks:40	
Max. Marks: 25+75	Min. Passing Marks:40	
	1) D 0/11	

Total No. of Lectures-Tutorials-Practical (in hours per week): P-2/w No. of **Topics** Lectures Unit Overview of Image Processing & GIS Packages (Including open source Software's): ARC GIS, ERDAS, MAP INFO, ILWIS, GEOMEDIÁ, IDRISI, GRASS, 3 ı SAGA, QGIS etc. Geo-Referencing of Maps, Coordinate System and Projections in GIS Software's, Creation of Point, Line and Polygon Files and Features. Preparation of Maps 10 with Legend, Scale, North Arrow etc and Export of Map 11 in Various Formats Creation of Shape File in GIS Software's. GIS Data Structures: Types (Spatial and Non-spatial), 7 III Raster and Vector Data Structure.. Downloading of Remote Sensing Images from Various Online Platforms (like Bhuvan, USGS, ASF, Copernicus etc). Land use Classification (Supervised and Un-10 IV supervised) Using Downloaded Images.

Suggested Readings:

- 1. Curran, P.J. (1985): Principles of Remote Sensing, Longman, London
- 2. Chaunial, D. D. (2004): Remote Sensing and Geographical Information System (in Hindi), ShardaPustak Bhawan, Allahabad
- 3. Cracknell, A. and Ladson, H. (1990): Remote Sensing Year Book. Taylor and Francis. London.
- 4. Curran, P.J. (1985): Principles of Remote Sensing. Longman, London.
- 5. Deekshatulu, B.L. and Rajan, Y.S. (ed.) (1984): Remote Sensing. Indian Academy of Science, Bangalore.
- 6. Floyd, F. and Sabins, Jr. (1986): Remote Sensing: Principles and Interpretation. W.H. Anixard Freeman.New York.

7. Gautam, N.C. and Raghavswamy, V. (2004). Land Use/ Land Cover and Management Practices inIndia. B.S. Publication., Hyderabad.

8. Jensen, J.R. (2004): Remote Sensing of the Environment: An Earth Resource Perspective. PrenticeHall, Englewood Cliffs, New Jersey. Indian reprint available.

9. Lillesand, T.M. and Kiefer, R.W. (2000): Remote Sensing and Image Interpretation. John Wileyand Sons, New York.

10. Nag, P. (ed.) (1992): Thematic Cartography and Remote Sensing. Concept

Publishing Company, New Delhi.

11. Rampal, K.K. (1999): Handbook of Aerial Photography and Interpretation. Concept Publishing.Company, New Delhi.

12. Campell, J. B. (2003): Introduction to Remote Sensing. 4th edition. Taylor and

Francis, London.

Note: In Final Examination Student shall be examined by external and internal examiners. Marks

Mirah Distribution: Written Exam, Viva, Practical File, Map Preparation using open source GIS,

Image processing Software Use.

BA 3rd Year, Sem. VI, Course III (Practical)

	am/Class: gree/BA	Year: Ti	nird Ser	mester: Sixth
		Subject:	Geography	
A1	Course Code: Course Title: Project Report-			ort-2
 In-dep 	comes: Studer oth knowledge to prepare Proj	its will be able to and application o ect Report.	understand of RS and GIS technolog	gy in research.
	Credits: 3	3	Core Com	npulsory
Max. Marks: 25+75 Min. Passing I		Marks:40		
	Total No. of Le	ctures-Tutorials-P	ractical (in hours per wee	ek): P-2/w
Unit		Topics		No. of Lectures
I	Project report shall be on any topic of interest of students. It must include Remote sensing and GIS technology directly or indirectly. Like project can be based on investigation of any issue using above technology or these technology must be used in data analysis or representation. Note: 1. Each faculty member shall teach and guide to his/her Group of students independently. 2. Student shall be allotted according to research interest and specialisation of Faculty member.		30	
	l Readings:			
This course for all		as an elective by	the students of followin	g subjects: Oper
Suggested Seminar, Pre	Continuous Esentations, VIV	valuation Metho	ods:	
	equivalent onlin			

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