SIDDHARTH UNIVERSITY, KAPILVASTU, SIDDHARTH NAGAR (U.P.)

B.A/ B.Sc.
GEOGRAPHY
FACULTY OF ARTS



NATIONAL EDUCATION POLICY 2020

Syllabus as per the guidelines of

State Higher Education Council

(Partially modified: Board of Studies meeting on 11th July 2023)

KAPILVAS



Siddhartha University, Kapilvastu,

Siddhartha Nagar, U.P B.A/ B.SC Syllabus Structure CBCS (NEP) 2023-24

Subject: Geography

Year	Course Code	Paper Title	Theory/Practical	Credits			
		Semester 1					
	A110101T	Physical Geography	Theory $(25 + 50)$	4			
First	A110102P	Elements of Map and Surveying	Practical (25)	2			
		Semester 2					
	A110201T	Human Geography	Theory $(25 + 50)$	4			
	A110202P	Thematic Mapping and Surveying	Practical (25)	2			
		Semester 3					
	A110301T	Environment, Disaster Management and Climate Change	Theory $(25 + 50)$	4			
	A110302P	Statistical Techniques and Surveying	Practical (25)	2			
	Semester 4						
Second	A110401T	Economic Geography	Theory $(25 + 50)$	4			
	A110402P	Weather Maps, Geological Maps and Surveying	Practical (25)	2			
	Semester 5						
	A110501T	Regional Geography	Theory $(25+50)$	4			
	A110502T	Basics of Remote Sensing and GIS	Theory $(25 + 50)$	4			
	A110503P	Regional Practical	Practical (25)	2			
Third	A110504P	Tour and Tour report	Practical (25)	2			
	Semester 6						
	A110601T	Geography of India	Theory $(25 + 50)$	4			
	A110602T	Evolution of Geographical Thoughts	Theory $(25+50)$	4			
	A110603P	Geographical Information System Practical (GIS)	Practical (25)	2			
	A110604P	Remote Sensing (Practical)	Practical (25)	2			

Marks Distribution out of 100:

25 Marks for Internal Assessment,

+ 25 Marks for Practical Examination

+ 50 Marks for Theory Paper

B.A/B.Sc. in Geography

Program Specific Outcomes (PSOs) Program Outcomes (After 3 Years of Study)

- This course provides the basic ideas and concepts of the Physical and human aspects of Geography.
- This course intends to orient the learner with the approaches to the broader discipline of Geography.
- It will help in developing analytical and critical thinking based on the themes and issues of geography.
- It eventually prepares the students to understand the development of the subject and delve around issues suited to the needs of the contemporary world.
- It will help in exhaustive understanding of the basic concepts of Geography and an awareness of the emerging areas of the field.
- Acquisition of in-depth understanding of the applied aspects of Geography as well as interdisciplinary subjects in everyday life.
- Improvement of critical thinking and skills facilitating.
- The application of knowledge gained in the field of Geography in the classroom to the practical solving of societal problems.
- The program orients students with tradition geographical knowledge along with advance contemporary skills like remote sensing and GIS.

Internal & External Assessment							
Internal Assessment	Marks	Practical / External Assessment	Marks				
Mid Semester Test	10	Viva Voce on Practical	5				
Class Attendance	05	Lab / field work	3X5=15				
Assignments	10	Practical Record File	5				
Total	25	TOTAL	25				

B.A /B.Sc. 1st Year, Semester I, Course I (Theory)

Pr	ogram /Class: Certificate/ BA	Year: First	Semester: First	
		Subject: Geography		
	Course Code: A110101T	Cours	se Title: Physical Geography	
	es - Students will be able to grasp Ens, climate dynamics, and global oc			ed
1	Credits: 4		Core Compulsory	
1	Max. Marks: 25+50	Min	. Passing Marks: As per Rule	
100	Total No. of Lectures	-Tutorials-Practical (in h	ours per week): L- 4/w	
Unit	Topics			
	Origin of Earth and related theories. Geological Time Scale, Interior of the Earth			
I	Origin of continents and oceans, Isostasy, Earthquakes, and Volcanoes, Geosynclines, Plate Tectonics Theory.			
II	Rocks, Fold, Fault, Weathering,	Cycle of Erosion by Dav	vis and Penck,	8
V	Fluvial, Aeolian, Karst, and Gla	icial, Landf <mark>orms</mark>		8
V	Composition and Structure of atmosphere: Insolation, Heat Budget, Atmospheric pressure and winds.			8
VI	Air masses and Fronts, cyclones and Anti-cyclones, Precipitation & and its types.			7
/II	Ocean Bottoms, temperature, and salinity, Ocean Currents and Tides, and Ocean deposits- Coral and Atolls			7
VIII	Biosphere, Biotic Succession, a	nd Riome		6

- 1. Singh, Savindra (2018), Physical Geography (Eng./Hindi) Allahabad, India: Prayag Pustak
- 2. Khullar, D.R. (2012). *Physical Geography*. New Delhi. India: Kalyani Publishers.
- 3. Thornbury, W. D. (2004): Principal of Geomorphology. New York, U.S.A.: Wiley.

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/cec21_hs03/preview https://onlinecourses.swayam2.ac.in/nos20_sc25/preview

B.A/B.Sc. 1st Year, Semester. I Course II (Practical)

Program/Cl	ass: Certificate/BA/ B.Sc.		Year: First	Semester: Fi	rst	
		Subject: (Geography	100		
	rse Code: A110102P	Name of Street	The second second	nents of Map and S		
	ing Outcomes: On completion and Topographic sheets	of this cou	rse, learners will	be able to Understan	nd the basic idea	
Credits: 2 Core Compulsory						
Max. Marks: -25 Min. Passing Marks: As per rule						
	Total No. of Lectures-	-Tutorials-P	ractical (in hours	per week): P-2/w		
Unit	Topics				No. of Lectures	
I	Scales-Concept and application; Graphical Construction of Plain, Comparative, and Diagonal Scales.				7	
II	Map Projections: Classif Construction of Polar Zenit Projections.	7				
Ш	Topographical Map: Coverage, Scale and Topo Symbol, Interpretation Survey of India Topo sheets. Representation of landforms by Contours.					
IV	Construction of Profile- Serial, Projected, Superimposed and Composite and slope analysis – (Wentworth method).					
2. Singh, R editions)	eadings: J. P. (2001): Prayogik Bhugol. L. and Singh, Rana P.B. (199 J. Kalyani Publishers, New Del R. (2006): Fundamentals of P	3): El <mark>em</mark> ent lhi.	ts of Practical Geo	ography <mark>. (Hi</mark> ndi <mark>and</mark>		
	can be opted as an elective by			•		
	Examination Student shall be oution: Written Exam, Viva, Pr		•		etation.	

B.A /B.Sc. 1st Year, Semester. II Course I (Theory)

Program/Class: Certificate/BA Year: First Semester: Second						
		Subject: Geography				
	Course Code: A110201T	Course Title: Hun	na <mark>n Geo</mark> grap <mark>hy</mark>			
also un	nes: Student will understand the C derstand the natural and Cultural C ationship.	The second secon		and		
2.00	Credits: 4	Core Cor	mpulsory	74		
	Max. Marks: -25+50	Min. Pas	sing Marks: As per rule			
	Total No. of Lectu	res-Tutorials-Practical (in	hours per week): L- 4/w	8.4		
Unit	Topics	Store III	1007	No. of Lectures		
I	Meaning, Scope and approaches of Human Geography.					
II	Man and Environment relationsl	nip - <mark>De</mark> termini <mark>sm, P</mark> ossibi	lism and Neo-determinism	7		
III	Distribution of population and world pattern, concept of over population and under population.					
IV	Human Settlements: Origin, types (Rural-Urban) characteristics, House types and their distribution with special reference to India.					
V	Primitive Economics-Food gather primitive agriculture.	ering, Hunting, Pastoral he	erding, Fishing, and	8		
VI	Cultural Regions, Race, Religion	n and Language.	121	8		
VII	World Tribes: Eskimos, Kirghiz	z, B <mark>ushman, Masai, S</mark> emar	g, Pygmies.	8		
VIII	Indian Tribes: Bhotias, Gaddis,	Tharus, Bhil, Gond, Santh	al,	8		
1. 1 2. 1 3. 1 4. 3	ed Readings: B N Singh (2019) Manay Bhugol kangel Hussain, M. (1994): Human Geogra Kaushik, S.D. and Sharma, A.K. (1994): Publication, Meerut. Singh, K. N. and Singh, J. (2001): Note that the state of the state	aphy, Rawat Publications, 996): Principles of Human	Jaipur. Geography (in Hindi), Rastogi Prakashan, Gorakhpur. 2nd edit	tion.		
Sugges	ted Continuous Evaluation Method	s: Assignment / Test / Qui	z(MCQ) / Seminar/ Pres <mark>entation</mark>	ıs		
Course	prerequisites: 12th Standard Pass/C	Open to all	TO THE PARTY OF			
	ed equivalent online courses: Cours nlinecourses.swayam2.ac.in/nou20					

B.A /B.Sc. 1st Year, Sem. II Course II (Practical)

Program/Class: Certificate/BA/B.Sc		Year: First	Semester: Second			
		Subject: Geography	The second second			
Course Code	:A110202P	Course Title: Tl	hem <mark>atic Mapping and Surv</mark>	eying		
	Outcomes: On completion of this course, learners will be able to understand the basic idea of Map, Scale and Topographic sheets					
- A ()	Credits: 2 Core Compulsory					
	Max. Marks: -25	लय, कापल	Min. Passing Marks: As po	er rules		
E .	Total No. of Lecture	es-Tutorials-Practical (in h	nours per week): P-2/w			
Unit	100	Topics	10.37	No. of Lectures		
I	Maps – Classification an	d Types, Principles of Ma	p	7		
0.5539	Design. Diagrammatic Data Presentation – Line, Bar and Circle.					
II Thematic Mapping Techniques – Properties, Uses and Limitations; Areal Data Choropleth, Dot, Proportional Circles; Point Data – Isopleths.				7		
ш	Cartographic Overlays – Point, Line and Areal Data. Thematic Maps – Preparation and Interpretation.					
IV	Instrumental Survey: Pris	smatic Compass		8		

Suggested Readings:

- 1. Sharma, J. P. (2001): Prayogik Bhugol. Rastogi Publication, Meerut 3rd. edition.
- 2. Singh, R.L. and Singh, Rana P.B. (1993): Elements of Practical Geography. (Hindi and English editions). Kalyani Publishers, New Delhi,
- 3. Singh, L.R. (2006): Fundamentals of Practical Geography, Sharda Pustak Bhawan, Allahabad.
- 4. Sharma, JP. (2008): Prayogatmak Bhugol Ki Rooprekha, Rastogi Publications- Meerut.

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

B.A /B.Sc. 2nd Year, Semester. III Course I (Theory)

Program	Programme/Class: Diploma/B.A/B.Sc		3.A/B.Sc Year: Second Semester: Third			
		Subject: C	Geography			
Course Co	ode: A110301T	Enviror	nment, Dis	saster Management and Cl	imate Change	
	s: Students will be able to understandes appraisal, conservation, impact					
	Credits: 4 Core Compulsory					
	Max. Marks: 25+50 Min. Passing Marks: As pe					
1	Total No. of Lectures-	-Tutorials-Pra	actical (in	hours per week): L- 4/w		
Unit	Sagne	ary /	No. of Lectures			
I	Concepts & components of Environment, Ecology and ecosystem. Indian traditional Knowledge in Environment and disaster Management.				8	
II	Bio-diversity and its conservation	on, sustainabl	e developi	ment.	8	
III	Deforestation, soil erosion, soil pollution Disposal of solid waste		Desertifica	ation, Air pollution, water	8	
IV	Ganga Action Plan, Tiger project	ct, <mark>Te</mark> hri dam	& Narma	da Valley project.	8	
V	Science of Climate Change: Understanding Climate Change; Green House Gases and Global Warming.					
VI	Global Climatic Assessment – IPCC, Impacts of Climate Change, National Action Plan on Climate Change.				7	
VII	Disasters, Hazards, Risk, Vulner Disaster management cycle	ers, Disaster Management	7			
VIII	Flood, Drought, Cyclone, Earthq Disasters. Do's and Don'ts Durin			de, Chemical and Nuclear	6	

Suggested Readings:

- 1. Singh, R.B. (1993) Environmental Geography. Delhi, India: Heritage Publishers.
- 2. Government of India. (2011). Disaster Management in India. Delhi, India: Ministry of Home Affairs.
- 3. Singh, Savendra (2019) Pryavaran Bhugol, Pravalika Publication, Allahabad
- 4. Kapur, A. (2010). Vulnerable India: A Geographical Study of Disasters. Delhi, India: Sage Publication.
- 5. Singh, Savendra (2019) Apada Prabandhan, Pravalika Publication, Allahabad.
- 6. Ramkumar, M. (2009). Geological Hazards: Causes, Consequences and Methods of Containment. New Delhi, India: New India Publishing Agency.
- 7. Climate Change: Agriculture and Water; Flora and Fauna; Human Health
- 8. Adaptation and Mitigation: Global Initiatives with Particular Reference to South Asia.

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

B.A /B.Sc. 2nd Year, Sem. III Course II (Practical)

Prog	gramme/Class: Diploma/BA/B.Sc.	Year: Second	Semester: Third	d		
	S	ubject: Geography				
	Course Code: A110302P	Course Title: Sta	tistical Techniques and	Surveying		
	es: Students will be able to understand e, method of sampling and its graphica		qualitative and quantitat	ive data and		
	Credits: 2		Core Compulsory	· .		
	Max. Marks: 25 Min. Passing Marks: As p					
100	Total No. of Lectures-Tut	orials-Practical (in hour	rs per week): P- 2/w			
Unit	Topics					
I	Use of Data in Geography: Signi Sources of Data, Scales of Measure	Methods in Geography;	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		
III	Sampling: Probability sampling Non-probability sampling. Correlation: Rank Correlation and Product Moment Correlation.					
IV	Instrumental Survey: Sextant		A6	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.
- 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. Bansal SC,(2020) Shodh vidhitantra va sankhikiya Vishyan, RK Books Publication, New Delhi.
- 6. Mahmood A., 1977: Statistical Methods in Geographical Studies, Concept.
- 7. Pal S. K., 1998: Statistics for Geoscientists, Tata McGraw Hill, New Delhi.
- 8. Sarkar, A. (2013) Quantitative geography: techniques and presentations. Orient Black Swan Private Ltd., New Delhi

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

B.A /B.Sc. 2nd Year, Semester. IV Course I (Theory)

Progra	m/Class: Diploma /B.A/B.Sc	Year: Second	Semester: Fourth	Semester: Fourth		
		Subject: Geography				
Course	Code: A110401T	Course Tit	tle: Economic Geography			
	nes: Students will be able to une es, and the effects of globalizat			economic		
Credits: 4 Core Compulsory						
	Max. Marks: 25+50 Min. Passing Marks: As p					
	Total No. of Lectu	ures-Tutorials-Practical (in h	ours per week): L- 4/w			
Unit	Topics					
I	Meaning, concepts and approaches of Economic Geography.					
II	Resource: meaning, concept and classification. Spatial organization of economic activities.					
III	Economic organization of sp	ace, Forestry, fishing and mi	ining activities.	7		
IV	Agricultural region of the world (Derwent Whittlesey), Agricultural typologies, agricultural land use model (J.H. Von Thunen)					
V	Types of industries; Factors of location of industries; iron and steel industry, cotton textiles and sugar; Theory of industrial location (Alfred Weber).			8		
VI	World transportation: Sea routes and major trans- continental railways.			8		
VII	WTO and International trade: Patterns and trends			7		
VIII	Effect of globalization on developing countries.					

Suggested Readings:

- 1. B N Singh (2021) Manay evam Arthik Bhugol, Pravalika Publication, Allahabad
- 2. Gautam, A. (2006): Aarthik Bhugol Ke Mool Tattava, Sharda Pustak Bhawan, Allahabad.
- 3. Guha, J. S. and Chattoraj, P.R. (2002): A New Approach to Economic Geography: A Study of Resources. The World Press Private Limited, Kolkata.
- 4. Hartshorne, T. A. and Alexander, J. W. (1988): Economic Geography (3rd revised edition) Englewood Cliff, New Jersey, Prentice Hall
- 5. Alexander, J. W. (1988): Economic Geography. Prentice-Hall, New Delhi,

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

B.A /B.Sc. 2nd Year, Semester. IV Course II (Practical)

Program	n/Class: Diploma /B.A/B.Sc	Year: Second	Semester: Fourtl	h		
		Subject: Geography	7			
Course	Course Code: A110402P Course Title: Weather Maps, Geological Maps and Surveying					
Learning	Learning Outcomes: On completion of this course, learners will be able to:					
• Id	lentify the various Survey Ope	rations and Survey Instru	ments			
• To	o understand the idea of Basic	and applied Instrumental	surveying			
	Credits: 2	A STATE OF THE PARTY OF THE PAR	Core Compulsory	140		
	Max. Marks: 25	ALSE MA	Min. Passing Marks: As p	er rule		
46	Total No. of Lectu	ires-Tutorials-Practical (i	n hours per week): P-2/w			
Unit	Unit Topics			No. of Lectures		
I	Weather Maps, Study and Interpretation of Weather Map, Weather Forecasting.					
II	Geological Maps: Types, Signs, Bed and Bedding plane, Rock Outcrop, Dip, Strike etc. Construction of Geological Sections.					
III	Instrumental Survey: Ind	ian Clinometer.	150	8		

Suggested Readings:

1. Sharma, JP (2001) Prayogik Bhugol, Rastogi Publication, Meerut

Instrumental Survey: Dumpy Level

- 2. Kanetker, T.P. and Kulkarni, S.V.(1967): Surveying and Levelling, Vol I and II V.G. Prakashan, Poona.
- 3. Natrajan, V. (1976): Advanced Surveying, B.I. Publications., Mumbai.
- 4. Pugh, J.C. (1975): Surveying for Field Scientists, Methuen and Company Ltd., London, First Publication.
- 5. Punmia, B.C.(1994): Surveying, Vol I, Laxmi Publications Private Ltd, New Delhi.
- 6. Singh, R.L. and Singh, Rana P.B. (1993): Elements of Practical Geography. (Hindi and English editions), Kalyani Publishers, Ludhiana and New Delhi.
- 7. Venkatramaiah, C. (1997): A Text Book of Surveying, Universities Press, Hyderabad...

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

B.A /B.Sc. 3rd Year, Semester. V Course I (Theory)

Pro	ograme/Class: Degree/B.A/ B.Sc	Year:	Third	Semester: Fifth	
	S	ubject: (Geography		
	Course Code: A110501T			Regional Geography	
with Th	nes: Students will be able to understand neories and Models for Regional Planni pment and Multi level planning.				
	Credits: 4 Core Compulsory				
	Max. Marks: 25+50 Min. Passing Marks: As p				
60	Total No. of Lectures-Tut	orials-Pr	actical (in h	ours per week): L- 4/w	14
Unit	1/60	Topics		3.0	No. of Lectures
I	Definition of Region, Evolution	tion, and	object	ives of Regional planning.	8
II	Types of Regional Planning, Formal	, Functio	onal, and Pla	nning Regions.	8
III	Delimitations of Region and Regions	al Planni	ing.	100	8
IV	Theories and Models for Regional Planning: Growth Pole Model of Perroux; Myrdal, Rostow, and Friedmann.			e Model of Perroux;	8
V	Sustainable Development, Concept of Development and Underdevelopment.			Underdevelopment.	8
VI	Efficiency-Equity Debate: Definition, Components and Sustainability for Development.			7	
VII	Developmental Indicators (Economi				7
VIII	Need for regional planning in India, level planning in India, Niti Aayog.	Five Yea	ar Plans and	Regional Planning, multi-	6

Suggested Readings:

- 1. Anand, Subhash., (2011). Eco-development: Glocal Perspectives. New Delhi, India: Research India.
- 2. Mishra, R. P., Sundaram, K.V., and Rao, V.L.S. (1974). Regional Development planning in India. Delhi, India: Vikas Publishing House.
- 3. Singh, MB, () Pradeshik Vikas Niyogan, Tara Book Agency, Varanasi.
- 4. Bhat L.S. (1972): Regional Planning In India, Statistical Publishing Society
- 5. Kundu, A. (1992): Urban Development Urban Research in India, Khanna Publ. New Delhi.
- 6. Misra, R.P., Sundaram K.V., PrakashRao, VLS(1974): Regional Development Planning in India, Vikas Publication, New Delhi.
- 7. Misra, R.P (1992): Regional Planning: Concepts, techniques, Policies and Case Studies, Concept, New Delhi

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

B.A /B.Sc. 3rd Year, Semester. V Course II (Theory)

Program/C	Class: Degree /BA	Year: Third	Semester: Fifth		
		Subject: Geography	Service .		
Course	Code:A110502T	Course Title: Bas	ics of Remote Sensing and (GIS	
_	Outcomes: On completion of to of Remote sensing Technique			idea and	
	Credits: 4		Core Compulsory		
	Max. Marks: 25+50	all and a second	Min. Passing Marks: As pe	r rules	
	Total No. of Lectur	es-Tutorials-Practical (in h	ours per week): L- 4/w		
Unit	Topics				
I	Remote Sensing: Definition, Type, Scope and Historical Development (World and India).				
II	Electromagnetic radiation: Characteristics, spectral regions, and bands. Interaction with earth surface features and atmosphere, spectral signature				
III	Remote sensing satellites: Platform and sensors. Resolution: Spatial, Spectral, Temporal, Radiometric Resolution.				
IV	Remote Sensing data processing and applications: Visual and digital image processing techniques.				
V	Remote Sensing Applications in resource mapping and environmental monitoring			6	
VI	Aerial Photos: Types and characteristics;				
VII	Determination of Photo scale, identification, and interpretation of geomorphic features.				
VIII	Land use/land cover map to	from stereogram and satelli	te images	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, London
- 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

B.A /B.Sc. 3rd Year, Semester. V Course III (Practical)

Pro	ogramme/Class: Degree/BA	Year: Third	Semester: Fifth		
	Subject: Geography				
Course	Course Code: A110503P Course Title: Regional Planning Practical				
	dents will be able to understa lan of local areas.	and the concept of integra	ted planning and how to prepare		
36	Credits: 2	य, कापल	Core Compulsory		
77	Max. Marks: 25	N	Iin. Passing Marks: As per Rule		
J	Total No. of Lectures-T	utorials-Practical (in hour	s per week): P- 2/w		
Unit	5/	Topics	No. of Lectures		
1	Study of river valley proje	ct areas and integrated pla	nnning exercise 7		
II	Planning of Infrastructural	Elements.	8		
III	Preparation of Development Plans to Local Levels.		7		
IV	Metropolitan of Regional Planning.		8		
1. Freeman	Suggested Readings: 1. Freeman, W. – Geography and Planning.				
2. Alonso and Friedman - Regional Development and Planning.					
3. Mishra, R.P Regional Development Planning.					
4. Issard, W. – Methods of Regional Analysis.					
5. Singh, J	. – Central Places and Spatia	I Organization in a Backy	vard Economy.		
This course car	be opted as an elective by t	he students of the followi	ng subjects: Open for all		

TERSITY, KAPILVASTU, SIDD

B.A /B.Sc. 3rd Year, Sem. V, Course III (Practical)

Programme/Clas	ss: Degree/BA/B.Sc	Year: Third	Semeste	er: Fifth
		Subject: Geography		
Course	Code: A110504P	Course	Title: Tour and To	ur report
Interaction with	es: Students will be able to under the people with different natural sited and Learn to prepare to	al and cultural settings,		
300	Credits: 2		Core Compulso	ory
100	Max. Marks: 25	य कापल	Min. Passing Mark	ks: As per rule
N.	Total No. of Lectures-Tu	torials-Practical (in hou	rs per week): P- 2/v	W
Unit	100	Topics	10.3	No. of Lectures
- 1/	How to prepare Field Boo report, Methodology for R study in Field Trip, Prepar	esearch in Field Trip, V	arious aspects of	3
-11	(30 lectures shall be taken		_	0

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

Geographical Excursion

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.
 - b. Confirm that all arrangements shall be made in advance before tour departure.
- 4. Listen to the opinion of students and give recommendations to tour in-charge accordingly.
- 5. 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

6. 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 in-charge. If students are more than 50 then a separate tour batch shall be constituted in same manner.

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

- 7. Tour shall at least of 6 days stay at location with inter region variation.
- 8. Tour in-charge shall submit tentative day wise activity report in advance to HOD in University and Principal in colleges.
- 9. 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 experts.
 - c. Local visit with faculty members having academic understanding of the area.
- 10. Lectures by tour in-charge on physical and human characteristics of area being visited for educational tour.
- 11. Survey with students with at least one instrument like Dumpy Level, Sextant, Theodolite, GPS etc.
- 12. 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.
- 13. Tour in-charge shall collect undertaking from all students which shall be counter signed by their guardian.
- 14. 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.
- 15. 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.
- 16. 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.
- 17. 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.
- 18. 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

1. Tour can be exempted in very special circumstances on recommendation of tour in- charge and head (in University) or In charge in Department (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.

B.A /B.Sc. 3rd Year, Semester VI, Course I (Theory)

Pro	gram/Class: Degree /BA/BSc	Year: Third	Semester: Sixth	
	Subj	ect: Geography	to.	
Course	Code:A110601T		Course Title: Geography of Inc	lia
Outcome	. On completion of this course learner		understand different sees work:	a a 1
aspects of	s: On completion of this course, learner	rs will be able to t	inderstand different geographi	cai
uspects of	Credits: 4		Core Compulsory	<u> </u>
- 2	Max. Marks: 25+50		Min. Passing Marks: As per	rulos
	Wiax. Walks. 25+30	ADIA'S	Will. Fassing Marks. As per l	luies
1917	Total No. of Lectures-Tutoria	als-Practical (in ho	ours per week): L- 4/w	
Unit		Topics	1000	No. of
	1182	100	1 10	Lectures
I	Location, Structure and relief; Drain	age system; Physi	ographic re <mark>gions</mark>	8
II	Mechanism of Indian monsoons, Clir their distributions.	natic regions; Nat	ural vegetation; Soil types and	8
III	Resources: Land, Water resource, end Manganese, Bauxite, Energy crisis, I			7
IV	Industry: Locational factors of industries; Industrial region; New Industrial policies; 7 Special Economic Zones; 7			7
V	Cultural Setting: Society; Racial, linguistic and ethnic diversities; Major tribes, tribal areas, and their problems.			8
VI	Population: Growth, distribution, and density of population; Demographic attributes: 8 sex-ratio, age structure, literacy rate, work-force, dependency ratio, Population problems and policies.			8
VII	Agriculture: Irrigation,; Crop- Ric productivity, agricultural intensity, or economic and ecological implications	op combination, C		6
VIII	Settlements: Types, patterns, and mo Indian cities; Functional classificati associated problems.			8
	Readings:		M. Call	
1.	Chauhan, P.R. and Prasad, M. (2003) Gorakhpur.			
2.	Gautam, A. (2006): Advanced Geogr			d
3. 4.	Bansal SC,(2018) Bharat Ka Bhugol, Singh, J. (2003): India: A Comprehe			han
7.	Gorakhpur	noive by stelliance	Soography. Gyanodaya i iakas	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
5.	Singh, R.L. (ed.) (1971): India: A Re India, Varanasi.	gional Geog <mark>ra</mark> phy	. National Geographical Societ	ty of
6.	Tiwari, R.C. (2007): Geography of Ir	• •		
7.	Wadia, D. N. (1959): Geology of Indedition, Madras.	ia. Mac-Millan an	d Company, London and stude	ent
8.	Khullar, D.R. (2007): India: A Comp	prehensive Geogra	aphy, Kalyani Publishers, New Delhi.	

B.A /B.Sc. 3rd Year, Sem. VI, Course II (Theory)

I	Program/Class: Degree /BA	Year: Third	Semester: Sixth	
		Subject: Geography		
Cours	e Code:A110602T	Course Title: Evolutio	on of <mark>Geogra</mark> phical Thought	
	•	course, learners will be able to ding the concept of evolution of	understand the contribution of Information of Infor	ndian and
36	Credits: 4	जातिया काप	Core Compulsory	
T'L	Max. Marks: 25+	50	Min. Passing Marks: As pe	r Rules
	Total No. of	Lectures-Tutorials-Practical (in	hours per week): L- 4/w	- 1
Unit	18/	Topics	187	No. of Lectures
I	Contribution of Indian	Geographers in Ancient India.	(Ved and puranas)	6
II	Contribution of Greek	& Roman geographers in ancie	nt world.	7
III		geograph <mark>ers</mark> in Middle <mark>ages, F</mark> id their ge <mark>ogra</mark> phical discoveries		8
IV	German school of thou	ight - Ka <mark>nt, Hum</mark> boldt, R <mark>itter, R</mark>	tichthofen, Ratzel, Hett <mark>ner</mark> .	8
V	The second secon	ght - Contribution of Blache & e, Hunthington & Carl Sauer. En & L.D. Stamp.,		8
VI		ny; systematic & Regional go and reality about dualisms.	eography, physical & human	8
VII	in geography	nd spatial organization in Geogr	1 2 1	7
VIII	science. Application of	hy, Thomas Kuhn theory about Kuhn Model in Geography.	the growth and development of	8
2. II 3. II 4. H 5. M 6. T	ndia,New Delhi. (in Engli Dube, B. (1967): Geograph ndia,Varanasi Hartshorne, R. (1959): Per Majid. (2002): Evolution of Taylor, G. (ed.) (1953): Ge	sh and Hindi). hical Concepts in Ancient India spective on the Nature of Geog of Geographical Thought, Rawat cography in the Twentieth Cent		ondon.
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B.A /B.Sc. 3rd Year, Sem. VI, Course III (Practical)

Program/Class: Degree/BA	Year: Third	Semester: Sixt	h
	Sub <mark>je</mark> ct: <mark>Ge</mark> ogr <mark>a</mark> phy		
Course Code: A110603P	Course Title:	Geographical Information Sy	/stem
es :On completion of this course, and GIS Technique	learners will be able to	understand and Conceptualiz	ze Remote
Credits: 2		Core Compulsory	
Max. Marks: 25	100 - Silv	Min. Passing Marks: As J	per rules
Total No. of Lectures	s-Tutorials-Practical (in	hours per week): P-2/w	. 8
12/ 4	Topics	130	No. of Lectures
Overview of image prosource Software's). QGIS.	ocessing & GIS	Packages (Including open	5
			10
			10
	course Code: A110603P es: On completion of this course, and GIS Technique Credits: 2 Max. Marks: 25 Total No. of Lecture Overview of image pr source Software's). QGIS. Creation of Shape File in GIS GIS Software's. GIS Data Struvector Data Structure. Geo-Referencing of Maps. Cree Preparation of Maps with Leger	Subject: Geography Course Code: A110603P Course Title: es :On completion of this course, learners will be able to and GIS Technique Credits: 2 Max. Marks: 25 Total No. of Lectures-Tutorials-Practical (in Topics Overview of image processing & GIS source Software's). QGIS. Creation of Shape File in GIS Software's. Coordinate GIS Software's. GIS Data Structures: Types (spatial a Vector Data Structure. Geo-Referencing of Maps. Creation of Point, Line and Preparation of Maps with Legend, Scale, North Arrow	Subject: Geography Course Code: A110603P Course Title: Geographical Information System and GIS Technique Credits: 2 Core Compulsory Max. Marks: 25 Min. Passing Marks: As Total No. of Lectures-Tutorials-Practical (in hours per week): P-2/w Topics Overview of image processing & GIS Packages (Including open source Software's). QGIS. Creation of Shape File in GIS Software's. Coordinate system and projections in GIS Software's. GIS Data Structures: Types (spatial and Non-spatial), Raster and Vector Data Structure. Geo-Referencing of Maps. Creation of Point, Line and Polygon Files and features. Preparation of Maps with Legend, Scale, North Arrow etc and Export of Map in

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), Sharda Pustak Bhawan, Allahabad
- 3. Cracknell, A. and Ladson, H. (1990): Remote Sensing Year Book. Taylor and Francis, London.
- 4. Deekshatulu, B.L. and Rajan, Y.S. (ed.) (1984): Remote Sensing. Indian Academy of Science, Bangalore.
- 5. Lillesand, T.M. and Kiefer, R.W. (2000): Remote Sensing and Image Interpretation. John Wiley and Sons, New York.
- 6. Rampal, K.K. (1999): Handbook of Aerial Photography and Interpretation. Concept Publishing. Company, New Delhi.

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

Distribution: Written Exam, Viva, Practical File, Map Preparation using open source GIS, Image processing Software

Use.

B.A /B.Sc. 3rd Year, Sem. VI, Course III (Practical)

]	Program/Class: Degree/BA	Year: Third	Semester: Sixtl	1
		Subject: Geography	100	
	Course Code: A110604P Course Title: Remote Sensing			
	nes :On completion of this course and GIS Technique	, learners will be able to und	derstand and Conceptualiz	e Remote
	Credits: 2 Core Compulsory			
Max. Marks: 25 Min. Passing Marks: As p			per rules	
	Total No. of Lecture	es-Tutorials-Practical (in ho	urs per week): P-2/w	
Unit	Topics		No. of Lectures	
I	Measure of photo scale	11/1	1 1	5
II	Construction Mosaic and triplet Downloading of Remote Sensing Images from various online platforms (like Bhuvan,			10
Ш	Land use Classification (Super	vised and Un-supervised) u	using downloaded images	10
Suggest	ed Readings:		CC	

- 1. Curran, P.J. (1985): Principles of Remote Sensing, Longman, London
- 2. Chaunial, D. D. (2004): Remote Sensing and Geographical Information System(in Hindi), Sharda Pustak Bhawan, Allahabad
- 3. Cracknell, A. and Ladson, H. (1990): Remote Sensing Year Book. Taylor and Francis, London.
- 4. Deekshatulu, B.L. and Rajan, Y.S. (ed.) (1984): Remote Sensing. Indian Academy of Science,
- 5. Lillesand, T.M. and Kiefer, R.W. (2000): Remote Sensing and Image Interpretation. John Wiley and Sons, New York.
- 6. Rampal, K.K. (1999): Handbook of Aerial Photography and Interpretation. Concept Publishing. Company, New Delhi.

Note: In the Final Examination, Students shall be examined by external and internal examiners. Marks Distribution: Written Exam, Viva, Practical File, Map Preparation using open source GIS, Image processing Software Use.