SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

Faculty of Humanities

Syllabus

(As Per National Education Policy-NEP-2020)

Three Years-Six Semesters Bachelor's Degree Programme

Degree of Bachelor Arts

B.A. Semester-III & IV Level – 5.0

Department Specific Core (DSC)/Subject-Major/Minor- Geography

(DSC-Code- 622)

Board of Study – Geography

(Effective from Academic Year-2025-26)

Sant Gadge Baba Amravati University Amravati

Three Years Six Semesters Programme:Bachelor of Arts with Major : Geography and Minor : Geography (NEP)

Faculty: Humanities Year-Second Semester-III Semester Level: 5.0 DSC- Geography (Code-622)

Sr. No.	Vertical No.	NEP Vertical Type	Course Code	Course	Teaching Scheme Hours			Learning		Teaching Work Load Hours	Marks		
					L	T	P	Total Hour	Credit offered		External	Internal	Total
1	a	Major DSC- Geography	**622206**	Major- III (Theory) **Climatology**	2	--	--	2	2	2	30	20	50
			622207	Major- III (Practical) **Interpretation of IMD Weather Map**	--	--	4	4	2	4 x No. of batches	25	25	50
2			**622208**	**Major- IV(Theory) Fundamental of Physical Geography**	3	--	--	3	3	3	60	40	100
		Major- IKS DSC- Geography	**622271**	**Major - IKS - Development of Indian Geographical Knowledge**	1	--	--	1	1	1	15	10	25
3	b	Minor DSC- Geography	**622251**	**Minor- III (Theory) Human Geography**	2	--	--	2	2	2	30	20	50
			622252	**Minor -III (Practical) Statistical Method**	-	--	4	4	2	4 x No. of batches	25	25	50
4	e	Value Education Course (VEC)	**751201**	**VEC- I (A)** - Understanding India	1	--	-	1	1	1	-	25	25
			751202	**VEC- I (B)** - Environmental Education-I	1	-	-	1	1	1	--	25	25
5	d	Skill Enhancement Course(SEC)	**751203**	**SEC- Life skills -III (A) - Universal Human Value** (love, and Compassion, Truth, Non-Violeance, Righteousness, Pease, Service, Renunciation (Sacrifice) Tyag)	1	--	-	1	1	1	--	25	25
6			**751204**	**SEC- Life skills -III (B) Leadership & Managerial skills** (Leadership skills, Managerial skills Entrepreneurship, Innovative Leadership and Design Thinking, Ethics and Integrity)	1	--	-	1	1	1	--	25	25
7	c	Generic/Open Elective(OE)	**622281**	**OE- 5 Human Geography (Geography)**	2	--	--	2	2	2	30	20	50
			622282	**OE- 6 Physical Geography (Geography)**	2	--	--	2	2	2	30	20	50
8	f	Co-Curricular Courses(Activities)		NSS/UBA/Cultural/Sports/Yogaetc.	-	-----	04	04	02	04			
				TOTAL					**22**				

L: Lecture, T:Tutorial,P:Practical/Practicum Total Credits offered:22(Max),Total credits to be earned:20(Min) / Batch Size (16)

Sant Gadge Baba Amravati University Amravati

Three Years Six Semesters Programme: Bachelor of Arts with Major: Geography and Minor: Geography (NEP)

Faculty: Humanities Year-Second Semester-IV Semester Level: 5.0 DSC- Geography (Code-622)

Sr. No.	Vertical No.	NEP Vertical Type	Course Code	Course	Teaching Scheme Hours			Learning		Teaching Workload Hours	Marks		
					L	T	P	Total Hour	Credit offered		External	Internal	Total
1	a	Major - DSC- Geography	**622209**	Major -V (Theory) Principal of Oceanography	2	--	--	2	2	2	30	20	50
			622210	Major -V(Practical) Topographical Map & Surveying	--	--	4	4	2	4xNo.of batches	25	25	50
2			**622211**	Major -VI (Theory) Economic Geography	5	--	--	5	5	5	60	40	100
		Major - IKS- DSC- Geography	**622272**	**Major- IKS -Ancient Indian Geographical Thought**	1	--	--	1	1	1	15	10	25
3	b	Minor DSC- Geography	**622253**	Minor- IV (Theory) **Agriculture Geography of India**	2	--	--	2	2	2	30	20	50
			622254	**Minor- IV (Practical)** Cartographic Method	--	--	4	4	2	4xNo.of batches	25	25	50
4		Minor Elective-V (A) (Theory) OR Minor Elective V (B) (Theory) (Student can Select any one)	**622255**	**Minor- V (A) (Theory)** Political Geography	4	--	--	4	4	4	60	40	100
			622256	**Minor -V (B) (Theory)** Population Geography									
5	e	Value Education Course (VEC)	**751205**	**VEC-II-(A)- Digital Technological solutions**	1	-	-	1	1	1	---	25	25
6			**751206**	**VEC-II-(B)-Environmental Education-II**	1	-	-	1	1	1	---	25	25
7	f	Co-Curricular Courses (Activities)		NSS/UBA/Cultural/Sports/Yogaetc.	-	-----	4	4	2	4			
				TOTAL					**22**				

L:Lecture, T: Tutorial ,P: Practical/Practicum Total Credits offered:22(Max), Total credits to beearned:20(Min) / Batch Size (16)

Sant Gadge Baba Amravati University Amravati

Three Years Six Semesters Programme:Bachelor of Arts with Major : Geography and Minor: Geography (NEP)

Faculty: Humanities B.A. II Year, Semester-III & IV Level: 5.0

Class	Vertical Type	Course Code	Credit Offered	Marks			Exam Duration
				External	Internal	Total	
Sem -3	**Major III (Theory)** Climatology	622206	2	30	20	50	2 Hour
	Major III (Practical) Interpretation of IMD Weather Map	622207	2	25	25	50	2 Hour
	Major IV (Theory) Fundamental of Physical Geography	622208	3	60	40	100	3 Hour
	IKS (T) Paper I -(Major Discipline related) Development of Indian Geographical Knowledge	622271	1	15	10	25	1 Hour
	Minor III (Theory) Human Geography	622251	2	30	20	50	2 Hour
	Minor III (Practical)) Statistical Method	622252	2	25	25	50	2 Hour
	OE- 5 Human Geography, Other than faculty of Humanities	622281	2	30	20	50	2 Hour
	OE- 6 Physical Geography, Other than faculty of Humanities	622282	2	30	20	50	2 Hour
Sem -4	**Major V (Theory)** Principal of Oceanography	622209	2	30	20	50	2 Hour
	Major V (Practical) Topographical Map & Surveying	622210	2	25	25	50	2 Hour
	Major VI (Theory)) Economic Geography	622211	5	60	40	100	3 Hour
	IKS (T) Paper II (Major Discipline related) – Ancient Indian Geographical Thought	622272	1	15	10	25	1 Hour
	Minor IV (Theory) Agriculture Geography of India	622253	2	30	20	50	2 Hour
	Minor IV (Practical) Cartographic Method	622254	2	25	25	50	2 Hour
	Minor V Elective (Theory) (A) Political Geography	622255	4	60	40	100	3 Hour
	Minor V Elective (Theory) (B) Population Geography	622256					

Sant Gadge Baba Amravati University, Amravati

FACULTY: HUMANITY

Degree of Bachelor of Arts with the Major:

Subject - Geography

New Education Policy 2020

Examination Scheme

(External, Internal and Practical)

Marks Distributions For Theory and Practical Paper	Total -100 **Theory (50 Marks)** — External 30 Marks (2 Hours), Internal 20 Marks **Practical (50 Marks)** — External 25 Marks (2 Hours), Internal 25 Marks
Pattern For Theory and Practical Paper	**Theory External 30** Marks 1. Long answers on any Two Units out of the Four Units. (Long answers Types questions should internal choice based. ie. Solve any one question out of two questions.) 2. Short answers on any Two Units out of the Four Units. (Short answers Types questions should internal choice based. ie. Solve any Two questions out of four questions.)
Marks Distributions For Only Theory Paper	Total -100 **Theory External (60 Marks)** (3 Hours) **Theory Internal (40 Marks)**
Pattern For Only Theory	**Theory External (60 Marks)** 1) Long answers on any Two Units out of the six Units. (Each question having 10 Marks) (Long answers Types questions should internal choice based. ie. Solve any one question out of two questions.) 2) Short answers on any Four Units out of the six Units. (Each question having 05 Marks) (Short answers Types questions should internal choice based. ie. Solve any Two questions out of four questions.)
Internal Assessment for Theory and Practical	Internal assessment shall be carried out by the respective course teacher by choosing variety of assessment tools/ methods such as class test, record book, seminar, case study, field work, mini project, work quiz or any innovative method, which may be deemed to be appropriate for assessing the relevant course outcome.

Sant Gadge Baba Amravati University

FACULTY: HUMANITY

Syllabus
B. A. Semester- III (NEP) Level- 5.0
Major- DSC- Geography

Course Code - 622206
Course Title - Major -III (Theory) - Climatology

Level	Semester	Course Code	Course Name	Credits	Teaching Hours (Per Week)	Total Teaching Hours	Exam. Duration	Max. Marks
5.0	III	622206	Major- III (Theory)- **Climatology**	2	**2**	**30**	**2 Hrs**	Total-50 External-30 Internal-20

Course Objectives:	1) Explain the meaning, importance, and multidisciplinary scope of climatology in understanding atmospheric processes. 2) Analyze the key differences between weather and climate, and their significance in geographical and environmental studies. 3) Explore the layers, components, and functions of the Earth's atmosphere in relation to climatic phenomena. 4)Analyze the vertical, horizontal, and seasonal variations in atmospheric pressure and their implications for weather patterns. 5)Study the origin, characteristics, and classification of winds, including planetary, periodic, and local winds.
Course Outcomes:	1) To know the definition and significance of Climatology. 2) The students should be able to differential between weather and climate. 3) The students are able to interpret structure and composition of atmosphere. 4) Learn the interaction between the atmosphere and the earth's surface. Understand the importance of the atmospheric pressure and winds.

Unit System	Contents	Workload Allotted	Weightage of Marks Allotted	Incorporation of Pedagogies
Unit I	Definition, Nature and scope of Climatology. Significance of Climatology, Weather and Climate, Elements of Weather and Climate.	8 Hrs.	8 Marks	• Incorporate PowerPoint presentations, diagrams, flowcharts, and infographics to visualize atmospheric layers, heat balance, temperature distribution, pressure belts, and wind systems.. • Utilize climatic maps, temperature and pressure charts, wind maps, and globes to demonstrate the spatial distribution of temperature, pressure, and wind systems. • Show simulations and animations (through software or videos) depicting atmospheric circulation, insolation processes, temperature inversion, and wind patterns.
Unit II	Composition and structure of the atmosphere, Insolation, Heat Budget of Earth.	7 Hrs.	7 Marks	
Unit III	Temperature: distribution of temperature, factors effecting temperature Inversion of temperature, Range of temperature	8 Hrs.	8 Marks	
Unit IV	Atmospherics pressure: Vertical, horizontal and Seasonal distribution of pressure, winds: Planetary, periodic and local winds	7 Hrs	7 Marks	
References :	**Books Recommended :** 1) **A**hirraoW. R., Alizad S. S. &Dhapte C. S. : Climatology and Oceanography , Nirali Publication, Pune 1997 2) Barry R.G. &Chorly R.J. : Atmosphere, Weather and Climate. Routledge. 1998 3) Critchfield. H. : General Climatology, Printice- Hall, New York. 1975 4) Das, P.K.. : The Monsoons, National Book Trust, New Delhi. 1968 5) Mather, J.R. : Climatology, McGraw- New York. 1974 6) Stringer, E.T. : Foundation of Climatology, Surect Publication, Delhi.1982 7) Trewartha, G.T. : An Introduction to Climate, International Students edition, McGraw- New York. 1980 8)चतुर्भुज मामोदिया: भूविज्ञान, साहित्य भवन पब्लिकेशन, मेरठ 9) डॉ.माजिद हुसेन: भौतिक भूगोल, रावत पब्लिकेशन, जयपुर 10)डी.पी.उपाध्याय: जलवायू विज्ञान, वसुंधरा प्रकाशन, नागपूर 11) डॉ विठ्ठल घारपुरे: हवामान शास्त्र, पिंपळापुरे प्रकाशन, नागपूर 12) डॉ. विठ्ठल धारपुरे, भूगोल परिचय, पिंपळापुरे प्रकाशन, नागपूर 13)प्रा.दाते व सौ दाते: प्राकृतिक भूविज्ञान, रावेल प्रकाशन, सातारा 14) प्रा. प्र.भा.नागतोडे: हवामानशास्त्र, म.वि.ग्र.नि.म.,नागपूर 15) प्रा. के. ए. खतीब: हवामान परिचय, मेहता पब्लिकेशन हाऊस, पुणे			

Examination and Evolution Question Paper pattern (30 Marks)	1) Long answers on any Two Units out of the Four Units. (Long answers Types questions should internal choice based. ie. Solve any one question out of two questions.) 2) Short answers on any Two Units out of the Four Units. (Short answers Types questions should internal choice based. ie. Solve any Two questions out of four questions.)
Internal Assessment Theory (20 Marks)	Internal assessment shall be carried out by the respective course teacher by choosing variety of assessment tools/ methods such as class test, record book, seminar, Assignment, case study, field work, mini project work, quiz or any innovative method which may be deemed to be appropriate for assessing the relevant course outcomes.

Syllabus - Major-III (Practical)- Interpretation of IMD Weather Map

Course Code 622207

Level	Semester	Course Code	Course Name	Credits	Teaching Hours (Per Week)	Total Teaching Hours	Exam. Duration	Max. Marks
5.0	**III**	**622207**	**Major -III- Practical: Interpretation of IMD Weather Map**	**2**	**4**	**60**	**2 Hrs**	Total-50 External-25 Internal-25

Course Objectives:	1) To introduce the concept and purpose of weather maps. 2) To enable students to accurately identify and interpret these symbols in various weather scenarios. 3) To understand how these instruments collect data used for creating weather maps. 4)To develop skills in interpreting weather maps for different seasons
Course Outcomes:	1) The Students will be able to do basic knowledge of techniques in weather map. 2) To know the importance of climatology in applied research. 3) Enhance interpretative skills of the students about techniques in weather maps. 4) Identifying the natural phenomena with the help of techniques in the weather map. 5) This course will place a strong emphasis on practical/ Skill experience about weather maps.

	Contents	Workload Allotted	Weightage of Marks Allotted	Incorporation of Pedagogies
A.	• Introduction of weather map • Study of Weather Symbols Introduction of weather Instruments	28 Hrs.	7	Use real or digital weather maps Hands-on activity where students create a basic weather map using given data. Display actual or model weather instruments (thermometer, barometer, rain gauge, etc.). Explain how data is collected from these instruments and plotted on weather maps. Discuss patterns and interpret data (e.g., cyclones during rainy season, cold fronts in winter, and heat waves in summer).
B.	Interpretation of weather map: • Rainy season • Winter season • Summer season	32 Hrs.	8	
C.	Practical Record	--------	5	
D.	Viva Voce	---------	5	

References:	**Reference Books:** 1) Bara A. K. (2005), "Climatology" Dominant publisher & Distributors, New Delhi. 2) Borry R. G. &Charly R. J. " Atmosphere, weather and climate Rouiledga 1998. 3) Byers R. H. " Green Meteorology " Mcgraw Hill BK Co New York 1974. 4) Sellers W. D. " Physical Climatology " Ceniversity of Chicago Press 1965. 5) Trewartha G. T. " An Introduction to Climate " Mcgrow HillBk Co. NewYork 1968. 6) Das P. K. " The mansoon", Prayag Pustak Bhavan, Allahabad. 7) Khullar D.R. (2022): Prayogatmak Bhugol Kalyani Publication 8) डॉ.जे.पी.शर्मा (२००८)प्रयोगात्मक भूगोल की रूपरेषा,रस्तोगो पब्लिकेशन्स मेरठ. 9) शिंतोळे तुषार(2020): प्रात्यक्षिक भूगोल डायमंड पब्लिकेशन,पुणे. 10) शर्मा जे.पी. (२०१९), प्रयोगात्मक भूगोल की रूपरेखा रस्तोगी पब्लिकेशन मेरठ.
Internal Assessment Practical (25 Marks)	Internal assessment shall be carried out by the respective course teacher by choosing variety of assessment tools/ methods such as class test, record book, seminar, Assignment, case study, field work, mini project work, quiz or any innovative method which may be deemed to be appropriate for assessing the relevant course outcomes.

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Syllabus
B. A. Semester- III (NEP) Level- 5.0
Major- DSC- Geography

Course Code - 622208

Course Title - Major -IV (Theory) - Fundamental of Physical Geography

Level	Semester	Course Code	Course Name	Credits	Teaching Hours (Per Week)	Total Teaching Hours	Exam. Duration	Max. Marks
5.0	III	622208	**Major-IV(Theory)-Fundamental of Physical Geography**	3	**3**	**45**	**3 Hrs**	Total-100 External-60 Internal-40

course Objectives:	1) To explore the main branches of Physical Geography and their interrelationships. 2) To study the structure and composition of the Earth's interior. 3) To introduce the concept of the cycle of erosion 5) To study the processes and landforms created by the work of underground water.
Course Outcomes:	1) Understand and explain the definition, nature, and scope of Physical Geography, including its branches and significance in the study of Earth's physical environment. 2) Describe the interior structure of the Earth and analyze the causes, types, and effects of earthquakes and volcanoes. 3) Explain and critically evaluate key theories of crustal evolution, including Continental Drift Theory (Wegener), Plate Tectonic Theory 4) Demonstrate understanding of the cycle of erosion concepts proposed by Davis and Penck 5)Identify and explain the work of underground water.

Unit System	Contents	Workload Allotted	Weightage of Marks Allotted	Incorporation of Pedagogies
Unit I	Definition, Nature and scope of Physical, Geography, Branches of Physical Geography, Importance's of Physical Geography	8 Hrs.	10 Marks	• Use 3D models (clay, chart papers) to show Earth's layers. • Discuss recent earthquakes and volcanic eruptions to make the topic relatable. • Assign roles to students to act as tectonic plates and demonstrate movements (convergence, divergence, transform). • Conduct a classroom debate on Wegener's Continental Drift Theory vs. Plate Tectonic Theory. • Use tools like Google Earth to observe mid-ocean ridges and rift valleys. If possible, visit a nearby river valley to observe real-life erosion stages.
Unit II	Interior of the Earth, Earthquakes and Volcano	7 Hrs.	10 Marks	
Unit III	Endogenic Earth Movements: slow movements and sudden movements	8 Hrs.	10 Marks	
Unit IV	Continental Drift theory of Wegner, Convection Current theory of Holm ,Sea-floor Spreading theory of Harry, Plate Tectonic Theory,	7 Hrs.	10 Marks	
	The Concept of cycle of erosion- Devis and Penk Theory. Normal cycle of Erosion	8 Hrs.	10 Marks	
Unit V	The Concept of cycle of erosion- Devis and Penk Theory. Normal cycle of Erosion	8 Hrs.	10 Marks	
Unit VI	The work of underground Water, landform associate with underground water	7 Hrs.	10 Marks	

Reference Books:	1) Bunnelt R.B. (1992): Physical Geography in Diagrams, Harlow. 2) Dayal, P.A. (1996): Text book of Geomorphology, Shukla Books depot. Patna 3) चौधरी शं. रा. आणि चव्हाण मि. भा.(2004): प्राकृतिक भूगोल, प्रशांत पब्लिकेशन्स, जळगाव. 4) दाते सु. प्र. व दाते संजीवनी (1975) : सुगम भूविज्ञान, नरेंन्द्र प्रकाशन, पुणे. 5) Dury. G. H.(1980): The Face of the Earth, Penguins, 6) Ernst W. G. (2000): Earth systems process and Issues,Cambridge University,Press 8) घारपुरे व्हि. टि. (2003): भूरूपशास्त्र, पिंपळापुरे पब्लीकेशन्स, नागपुर. 9) घारपुरे व्हि. टि. (2017): भूरूपशास्त्राचे मुलतत्वे, पिंपळापुरे पब्लीकेशन्स ,नागपुर. 10) ICSSR(1983): A Survey of Research in Physical Geography. Concept, New Delhi, 11) Kale V. & Gupta A.(2001): Elements of Geomorphology, Oxford University Press, Calcutta 12) खुल्लर डी. आर. (2012): फिजिकल जीऑग्राफी, कल्याणी पब्लीकेशन्स, न्यु दिल्ली. 13) लांजेवार दिलीप आणि खराते विजय (2011): प्राकृतिक भूगोल, नभ प्रकाशन, अमरावती 14) Monkhouse, F.J. (1960) : Principles of Physical Geography, Hodder and Stoughton, London.

	15) पाटील अरूणा प्र. आणि चव्हाण अनिता जा (2018): भूरूपशास्त्र, आधार पब्लिकेशन, अमरावती 16) सिंह, एस. (2011):भौतिक भूगोल, प्रयाग पुस्तक भवन, अलाहाबाद. 17) सारंग, एस. (2010):प्राकृतिक भूविज्ञान, विद्या प्रकाशन, नागपूर, 18) सविंद्र सिंह (1993:)भौतिक भूगोल, वसुंधरा प्रकाशन, गोरखपुर 19) तिवारी विश्वनाथ (1973): प्राकृतिक भूगोल का स्वरूप, रामप्रसाद एंड सन्स,
Examination and Evolution Question Paper pattern (60 Marks)	1) Long answers on any Two Units out of the six Units. (Each question having 10 Marks) (Long answers Types questions should internal choice based. ie. Solve any one question out of two questions.) 2) Short answers on any Four Units out of the six Units. (Each question having 05 Marks) (Short answers Types questions should internal choice based. ie. Solve any Two questions out of four questions.)
Internal Assessment Theory (40 Marks)	Internal assessment shall be carried out by the respective course teacher by choosing variety of assessment tools/ methods such as class test, record book, seminar, Assignment, case study, field work, mini project work, quiz or any innovative method which may be deemed to be appropriate for assessing the relevant course outcomes

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Syllabus
B. A. Semester- III (NEP) Level- 5.0
Major- IKS-DSC- Geography

Course Code - 622271

Course Title - Major -IKS - Development of Indian Geographical Knowledge

Level	Semester	Course Code	Course Name	Credits	Teaching Hours (Per Week)	Total Teaching Hours	Exam. Duration	Max. Marks
5.0	**III**	**622271**	**Major-IKS-Development of Indian Geographical Knowledge**	1	**1**	**15**	**1 Hrs**	Total-25 External-15 Internal-10

Course Objectives:	1)To introduce students to the geographical references and concepts found in ancient Indian literature, including the Vedas, Ramayana, Mahabharata, Buddhist and Jain texts, and the Puranas. 2)To study the regional geography of ancient India, including the conceptualization of continents, Bharatvarsha, mountains, and rivers as understood by ancient scholars. 3)To examine the contributions of ancient Indian geographers and astronomers such as Aryabhata, Varahamihira, and Bhaskaracharya, and assess their influence on the evolution of geographical and astronomical knowledge.
Course Outcomes:	1)Understand and explain the geographical references and descriptions present in ancient Indian literature, including the Vedas, epics like Ramayana and Mahabharata, Buddhist and Jain texts, and the Puranas. 2)Identify and describe the regional geography of ancient India, including the conceptualization of continents, Bharatvarsha, prominent mountains, and rivers. 3)Evaluate the contributions of ancient Indian geographers and astronomers such as Aryabhata, Varahamihira, and Bhaskaracharya to the field of geography and astronomy.

Unit System	Contents	Workload Allotted	Weightage of Marks Allotted	Incorporation of Pedagogies
Unit I	**a.** Geographical Literature - Vaidikas, the Ramayana, the Mahabharata, the works of Buddhists, Jains, and. the Puranas **b.** Geographical concepts in Ancient India – Astronomical knowledge,Eclipses	8 Hrs	8 Marks	1)Use of structured lectures to introduce students to the key geographical concepts, literary references, and astronomical knowledge from ancient Indian texts and scholars.. 2)Use of structured lectures to introduce students to the key geographical concepts, literary references, and astronomical knowledge from ancient Indian texts and scholars. 3)Use of online archives, virtual museums, and academic databases to access ancient texts, maps, and scholarly resources for deeper study
Unit II	**a.** Regional Geography of Ancient India : continents, Bharatvarsa, Mountains and rivers, **b.** India Ancient Geographers and their contribution- Aryabhata, Varahmihir, Bhaskaracharya	7 Hrs	7 Marks	
References:	**Reference Books:** 1)Evolution of Geographical thaught , Majid Husain 2)Bhugolik Chintan ka Itihas , B.C. Jatt , Malik Book Company Jaipur. 3)Historical Geography of Ancient India , Bimbla Churn Law , Gyan Publishing House			
Internal Assessment (10 Mark)s	Internal assessment shall be carried out by the respective course teacher by choosing variety of assessment tools/ methods such as class test, record book, seminar, Assignment, case study, field work, mini project work, quiz or any innovative method which may be deemed to be appropriate for assessing the relevant course outcomes.			

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Syllabus
B. A. Semester- III (NEP) Level- 5.0
Minor-DSC- Geography

Course Code - 622251

Course Title - Minor-III (Theory) - Human Geography

Level	Semester	Course Code	Course Title	Credits	Teaching Hours (Per Week)	Total Teaching Hours	Exam. Duration	Max. Marks
5.0	**III**	**622251**	**Minor-III (Theory) - Human Geography**	2	**2**	**30**	**2 Hrs**	Total=50 External-30 Internal-20

Course Objectives:	1)To introduce the fundamental concepts, meaning, and definitions of Human Geography 2) To familiarize students with the major tribes of India such as Gond, Korku, Santhal, and Bhil, focusing on their geographical distribution, socio-cultural characteristics, and traditional practices. 3) To analyze the patterns of population growth and distribution in India and examine the various physical, economic, social, and political factors influencing these patterns. 4)To identify and critically analyze the major problems faced by Indian agriculture
Course Outcomes:	1)Understand and explain the meaning, definition, nature, and scope of Human Geography 2) Analyze the socio-cultural aspects of major Indian tribes including Gond, Korku, Santhal, and Bhil, and understand their geographical distribution and traditional lifestyles. 3) Assess the patterns of population growth and distribution in India and examine the key factors influencing the distribution of population. 4) Classify the types of agriculture practiced in India and explain the various physical, climatic, and socio-economic factors affecting Indian agriculture.

Unit System	**Contents**	**Workload Allotted**	**Weightage of Marks Allotted**	**Incorporation of Pedagogies**
Unit I	Meaning and Definition of Human Geography, Nature and scope of Human Geography, Branches of Human Geography,	8 Hrs.	8 Marks	Structured lectures supported by presentations to introduce core concepts such as Human Geography, its branches, and the importance of studying human-environment interactions.

	Importance of Human Geography			Use of case studies on Indian tribes (Gond, Korku, Santhal, Bhil) and specific regions to enhance understanding of tribal lifestyles Class discussions, debates, and question-answer sessions to encourage critical thinking on topics like population distribution, gender ratio, and literacy issues in India. Incorporation of documentaries, videos, and interactive media to visualize tribal cultures, demographic changes, and agricultural activities. Inviting experts from geography, anthropology, or agriculture fields to provide deeper insights into specialized topics.
Unit II	Indian Major Tribe: Gond, Korku, Santhal, Bhil	7 Hrs.	7 Marks	
Unit III	Population growth and distribution of India, Factors affecting on distribution of population, Composition of Indian population: Gender and Literacy	8 Hrs.	8 Marks	
Unit IV	Agriculture: Types of Agriculture, Factors affecting Indian Agriculture, Problems of Indian Agriculture	7 Hrs.	7 Marks	

Reference Books:	**Reference Books:** 1. Bergwan, Edward E: Human Geography; Culture, Connections and Landscape, Prentice-Hall, New Jersey.1995. 2. Carr, M.: Patterns, Process and change in Human Geography. MacMillan Education, London, 1987. 3. Fellman, J.L.: Human Geography—Landscapes of Human Activities. Brown and Benchman Pub.,U.S.A., 1997. 4. D.S. Lal: Climatology, Sharda Pustak Bhavan, Allahabad, 2010. 5. Majid Hussin; Human Geography, Sixth Edition, Book Emporium, Guwahati, 2020 6) सवदी व कोळेकर; मानवी भूगोल,निराली प्रकाशन पुणे २०२०. 7. सवदी व कोळेकर; प्राकृतिक भूगोल. निराली प्रकाशन पुणे. २०२०. 8. दाते व दाते; प्राकृतिक भूविज्ञान अनिरुद्ध पब्लिकेशन हाऊस, पुणे२०२०. 9. आर. जी. जाधव; मानवी भूगोल. प्रारूप पब्लिकेशन, कोल्हापूर. २०१९. 10.मोरे व पगारे; प्राकृतिक भूगोल. निराली प्रकाशन, पुणे.२०१९. 11. शिंदे,चोरे, धुलगुडे व शिंदे ,मानव भूगोल फडके प्रकाशन कोल्हापूर, २०२३.
Examination and Evolution Question Paper pattern (30 Marks)	1. Long answers on any Two Units out of the Four Units. (Long answers Types questions should internal choice based. ie. Solve any one question out of two questions.) 2. Short answers on any Two Units out of the Four Units. (Short answers Types questions should internal choice based. ie. Solve any Two questions out of four questions.)
Internal Assessment Theory (20Marks)	Internal assessment shall be carried out by the respective course teacher by choosing variety of assessment tools/ methods such as class test, record book, seminar, Assignment, case study, field work, mini project work, quiz or any innovative method which may be deemed to be appropriate for assessing the relevant course outcomes.

Syllabus -Practical- Minor-III - Statistical Method Course Code 622252

Level	Semester	Course Code	Course Name	Credits	Teaching Hours (Per Week)	Total Teaching Hours	Exam. Duration	Max. Marks
5.0	III	**622252**	**Minor III (Practical) Statistical Method**	**2**	**4**	**60**	**2 Hrs**	Total-50 External-25 Internal-25

Course Objectives:	1)To introduce the fundamental concepts and importance of data collection, classification, and presentation in geographical and social research. 2) To familiarize students with the preparation of statistical series and frequency distributions, enabling them to organize and present data systematically. 3)To equip students with the knowledge and skills to calculate and interpret measures of central tendency including Mean, Median, and Mode for both grouped and ungrouped data.
Course Outcomes:	1)Understand the basic concepts of data, its types, and the significance of data collection in geographical and statistical studies. 2)Organize collected data into statistical series and frequency distributions for systematic presentation and interpretation. 3)Calculate measures of central tendency (Mean, Median, Mode) for both grouped and ungrouped data accurately.

Unit System	Contents	Workload Allotted	Weightage of Marks Allotted	**Incorporation of Pedagogies**
A.	Introduction to Statistic: Collection of Data, Sample Study, Statistical Series, Frequency Distribution	28 Hrs.	7 Marks	1)Structured lectures to introduce theoretical concepts of data, data collection methods, sampling techniques, and measures of central tendency. 2)Step-by-step demonstration of how to create statistical series, frequency distributions, and how to calculate mean, median, and mode for both grouped and ungrouped data. 3)Use of real or simulated data sets for practice in data collection, sample studies, and data analysis. 4)Incorporation of statistical software (like Excel, SPSS, or calculators) to demonstrate data organization, frequency distribution, and statistical computations
B.	Measures of Central Tendency: Mean, Median Mode (Group and ungroup Data)	32 Hrs.	8 Marks	
C.	Practical Record	--------	5 Marks	
D.	Viva Voce	---------	5 Marks	

References:	**Reference Books:** 1) Singh R.L. (2020): Fundamentals Of Practical Geography shrada Pustak Bhawan, Allahbad. 2) Singh R.L. And Datta : Elements of Practical Geography 3) Kannan Monika and Shilpi Yadav (2022): Practical Geography, Rawat Publicationl Jaipur 4) शिंतोळे तुषार(2020): प्रात्यक्षिक भूगोल डायमंड पब्लिकेशन, पुणे 5) Khullar D.R. (2022): Prayogatmak Bhugol, Kalyani Publication,New Delhi 6) शर्मा जे.पी. (२०१९): प्रयोगात्मक भूगोल की रूपरेखा, रस्तोगी पब्लिकेशन, मेरठ Weblink to Equivalent MOOC on SWAYAM if relevant: Weblink to Equivalent Virtual Lab if relevant: Any pertinent media (recorded lectures, YouTube, etc.) if relevant:
Internal Assessment Practical **(25 Marks)**	Internal assessment shall be carried out by the respective course teacher by choosing variety of assessment tools/ methods such as class test, record book, seminar, Assignment, case study, field work, mini project work, quiz or any innovative method which may be deemed to be appropriate for assessing the relevant course outcomes.

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Sant Gadge Baba Amravati University, Amravati

FACULTY: HUMANITY

Syllabus

B. A. Semester- IV (NEP) Level- 5.0
Major- DSC- Geography

Course Code - 622209

Course Title - Major -V (Theory) - Principles of Oceanography

Level	Semester	Course Code	Course Name	Credits	Teaching Hours (PerWeek)	Total Teaching Hours	Exam. Duration	Max. Marks
5.0	**IV**	**622209**	Major-V (Theory **Principles of Oceanography**	**2**	**2**	**30**	**2 Hrs**	Total-50 External-30 Internal-20

Course Objectives:	1. Introduce fundamental concept of oceanography. 2. Explore the structure and composition of the ocean 3. Understand Ocean circulation, wave and tides. 4. Understand sea surface temperature fluctuation.
Course Outcomes:	1. The students will able to gate basic understanding of the science of oceanography. 2. The students will able to identify, explain, and interpret main features in spatial distributions of physical properties of seawater and sea flower. 3. Ability to analyze sea surface temperature fluctuation and its impact on southern oscillation. 4. The students will understand and assess the importance of Ocean in terms of resource utilization in a sustainable manner. 5. The students will discuss and differentiate between the various ocean waves, and tides.

Unit System	Contents	Workload Allotted	Weightage of Marks Allotted	Incorporation of Pedagogies
Unit I	Definition, Nature & Scope of Oceanography. Significance of Ocean.	8 Hrs	8 Marks	• To effectively teach oceanography, a blend and modern pedagogical approaches is employed. These methods aim to enhance conceptual understanding, develop scientific skill and foster environmental awareness. • Encouraging students to ask questions and investigate phenomena such as ocean floor, ocean current and waves. • Group discussion, debates and problem solving exercises related to oceanographic issues. • Students gain theoretical knowledge, practical skill, environmental sensitivity and a holistic understanding of oceanography.
Unit II	Surface configuration of the ocean floor: continental shelf,Continental slope, Abyssal Plain,mid-oceanic and oceanic trenches. Relief of Atlantic,Pacific and Indian Oceans.	7 Hrs	7 Marks	
Unit III	Distribution of temperature of Oceans and Seas. Distribution of salinity of Oceans and Seas	8 Hrs	8 Marks	
Unit IV	Circulation of oceanic water: waves, tides and currents; currents of the Atlantic, Pacific and Indian Oceans.	7 Hrs	7 Marks	

References:	**Reference Books:** 1) **A**hirrao W. R., Alizad S. S. &Dhapte C. S. : Climatology and Oceanography, Nirali Publication, Pune, 1997 2) Grald,s: General Oceanography – An Introduction, John Wiley& Sons, New York, 1980 3) King C.A.M. :Oceanography for Geographers E. Arnold, London. 1975 4) Sharma, R.C. Vatel M. : Oceanography for Geographers, Chetnya Publishing House, Allahabad, 1970 5) Thurman H. B. : Introductory Oceanography, Charles Webber E. Merril Publishing Co. 1984 6)डॉ:विठ्ठल घारपुरे., सागर विज्ञान, पिंपळापुरे प्रकाशन, नागपूर 7)डॉ. पाथरे बी.यु.,डॉ.गजहंस एस.डी,:हवामानशास्त्र व सागरविज्ञानविद्या बुक्स पब्लिकेशन्स, ओरंगाबाद 8) डॉ. विजय खराटे, दिलीप लांजेवार,: प्राकृतिक भूगोल, नभ प्रकाशन, अमरावती. 9) बापट सुरेखा पंडित : भूरूपशास्त्र व सागरविज्ञान, श्री साईनाथ प्रकाशन, नागपूर 10) प्रा.दाते व सौ दाते: प्राकृतिक भूविज्ञान, रावेल प्रकाशन, सातारा 11) सवदी ए. बी.: हवामानशास्त्र व सागर शास्त्र, निराली प्रकाशन,पुणे

Examination and Evolution Question Paper pattern (30 Marks)	1) Long answers on any Two Units out of the Four Units. (Long answers Types questions should internal choice based. ie. Solve any one question out of two questions.) 2) Short answers on any Two Units out of the Four Units. (Short answers Types questions should internal choice based. ie. Solve any Two questions out of four questions.)
Internal Assessment Theory (20 Marks)	Internal assessment shall be carried out by the respective course teacher by choosing variety of assessment tools/ methods such as class test, record book,seminar, Assignment, case study, field work,mini project work, quiz or any innovative method which may be deemed to be appropriate for assessing the relevant course outcomes.

Syllabus - Major-V (Practical)- Topographical Map & Surveying Course Code 622210

Level	Semester	Course Code	Course Name	Credits	Teaching Hours (Per Week)	Total Teaching Hours	Exam. Duration	Max. Marks
5.0	**IV**	**622210**	**Major V-Practical: Topographical Map & Surveying**	**2**	**4**	**60**	**2 Hrs**	Total-50 External-25 Internal-25

Course Objectives:	1) Introduce the basic elements and symbols used in topographical maps (e.g. contours, scales, grid references) 2) Enhance map reading skills to interpret and analyze topographical maps of India. 3) Develop the ability to interpret physical and cultural features represented on maps 4) Enables students to extract and analyze information related to settlement patterns, transport networks and Land use.
Course Outcomes:	1) Encourage students to apply reading topographical maps skill in relal life geographical investigation and decision making 2) interpret physical features such as landforms drainage patterns slopoes and elevation using contours lines 3) Apply topographical map interpretation for field study planning and geographical analysis 4) understand the principles and components of plane table surveying. 5) Carry out basic plane table techniques such as radiation intersection and resection in the field 6) Evaluate the limitations and advantages of plane table surveying in modern geographic practices

	Contents	Workload Allotted	Weightage of Marks Allotted	Incorporation of Pedagogies
A.	Introduction of topographical map, Study of Indian Topographical maps of the following regions a) Mountain b) Plateau c) Plain.	28 Hrs	7Marks	Students practice measuring distances interpreting contours, identifying landforms and calculating grading. Students perform actual plane tab le surveys in the field Survey as conducted in small groups assigning roles such as : instrument handier, recorder, plotter and coordinator.
B.	Definition and types of surveying: Introduction of Plain-table survey : Radiation and Inter- Section Method.	32 Hrs	8 Marks	
C.	Practical Record	--------	5 Marks	
D.	Viva Voce	---------	5 Marks	
References:	**Reference Books:** 1) Singh R.L.(2020): Fundamentals Of Practical Geography, shrada Pustak Bhawan,Allahbad. 2) Singh R.L. And Datta : Elements of Practical Geography 3) Kannan Monika and Shilpi Yadav :(2022) Practical Geography Rawat Publication Pune. 4) शिंतोळे तुषार(2020): प्रात्यक्षिक भूगोल, डायमंड पब्लिकेशन, पुणे 5) KhullarD.R. (2022): Prayogatmak Bhugol, Kalyani Publication, Pune. 6)शर्मा जे.पी.(२०१९): प्रयोगात्मक भूगोल की रूपरेखा, रस्तोगी पब्लिकेशन, मेरठ 7) Sing R. L.(2015): Elements of Practical Geography ManavBooks 8) कुंभारे अर्जुन,: प्रात्यक्षिक भूगोल,सुमेरू प्रकाशन, दोम्बिवल्ली ठाणे. 9)चतुर्भुज मामोरिया: मानचित्र यव प्रायोगिक भूगोल, साहित्य भवन पब्लिकेशन, मेरठ.२०१५ Web link to Equivalent MOOC on SWAYAM if relevant: Web link to Equivalent Virtual Lab if relevant: Any pertinent media (recorded lectures, YouTube, etc.) if relevant:			
Internal Assessment Theory (25 Marks)	Internal assessment shall be carried out by the respective course teacher by choosing variety of assessment tools/ methods such as class test, record book,seminar, Assignment, case study, field work,mini project work, quiz or any innovative method which may be deemed to be appropriate for assessing the relevant course outcomes.			

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Syllabus
B. A. Semester- IV (NEP) Level- 5.0
Major- DSC- Geography

Course Code - 622211

Course Title - Major -VI (Theory) - Economic Geography

Level	Semester	Course Code	Course Name	Credits	Teaching Hours (Per Week)	Total Teaching Hours	Exam. Duration	Max. Marks
5.0	**IV**	**622211**	Major-VI (Theory)- **Economic Geography**	**5**	**5**	**75**	**3 Hrs**	**Total-100 External-60 Internal-40**

Course Objectives:	1) Students with a comprehensive understanding of how economic activities are distributed across space and how geographical factors influence economic development and patterns. 2) Develop critical thinking skills by evaluating theories and models of economic geography. 3) Understand the role of physical geography, resources, and environment in shaping economic systems. 4) Explore the socio-economic disparities between regions and the geographic factors behind them.
Course Outcomes:	1) Explain the fundamental concepts of economic geography and their relevance to spatial economic patterns. 2)Analyze the spatial distribution of various economic activities such as agriculture, manufacturing, and services. 3) Interpret economic data using maps and spatial tools, including GIS, to identify regional trends and disparities. 4) Compare economic systems and development levels across countries and regions, identifying key causes of inequality.

Unit System	Contents	Workload Allotted	Weightage of Marks Allotted	Incorporation of Pedagogies
Unit I	Meaning, definition, Nature and scope of Economic Geography, Significance of Economic Geography	13 Hrs	10 Marks	• To introduce core concepts, models, and historical developments in economic geography. • Use of quizzes, map interpretation exercises, presentations, and reflective essays to assess understanding and encourage metacognition. • Economic Geography enhances student engagement, deepens conceptual understanding, and develops skills in spatial analysis, critical thinking, and research.
Unit II	Occupational Structure Meaning and types :Primary, Secondary, Tertiary, Importance of Occupational Structure	12 Hrs	10 Marks	
Unit III	Resources: Major types of Natural Resources: Soil, Water, Forest, Metal, Conservation of natural resources	13 Hrs	10 Marks	
Unit IV	Power Resources: Major types of power resources : Coal, Petroleum, Natural Gas, Nuclear Energy, Water Power, Solar and Tidal Energy	12 Hrs	10 Marks	
Unit V	Industry and Industrialization: Define Industry , Industrial Classification: Textile, Chemical, Iron and Steel Industry, Major Industrial Region In India	13 Hrs	10 Marks	
Unit VI	Transportation and Trade: Transportation Meaning, Main Modes of Transportation: Road, Rail, Air and Water Trade: Meaning and Types: Internal and International	12 Hrs	10 Marks	
References:	**Reference Books:** 1) Alexander J.W.(1976): Economic Geography, Princess Hall of India, New Delhi. 2) Berry B.J. (1976): Geography Economic System,Princess Hall, New Delhi 3) Chatterjee S.P. (1984): Economic Geography of Asia, Allied book Agency, Kolkata 4)Dasgupta (1972): Economic and Commercial Geography, Mukharjee& Company Pvt. Ltd., Kolkata 5) Garnier D. J. (1989): A Geography of Marketing. Longman, London. 6) SinghKashinath (2012): Economic Geography, PrayagPustakbhavan, Allahabad 7) मोहम्मद हरून (2003): आर्थिक भूगोल के मूलतत्व, वसुंधरा प्रकाशन, गोरखपुर. 8) अहिरराव अलिझाड (1997) आर्थिक भूगोल, निराली प्रकाशन, पुणे 9) प्रभावती प.दे.(1994): आर्थिक भूगोल, निराली प्रकाशन, पुणे. 10) डॉ. देसाई डॉ. भालेराव, भारतीय अर्थव्यवस्था, निराली प्रकाशन, पुणे. 11) डॉ. मामोरीया चतुर्भुज (1998): मानव एवं आर्थिक भूगोल, साहित्य भवन, आग्रा. 12) सवदी ए. बी. (२०२३): आर्थिक भूगोल, अथर्व पब्लिकेशन, जळगाव. Weblink to Equivalent MOOC on SWAYAM if relevant: Weblink to Equivalent Virtual Lab if relevant:			

Examination and Evolution Question Paper pattern (60 Marks)	1) Long answers on any Two Units out of the six Units. (Each question having 10 Marks) (Long answers Types questions should internal choice based. ie. Solve any one question out of two questions.) 2) Short answers on any Four Units out of the six Units. (Each question having 05 Marks) (Short answers Types questions should internal choice based. ie. Solve any Two questions out of four questions.)
Internal Assessment Theory (40 Marks)	Internal assessment shall be carried out by the respective course teacher by choosing variety of assessment tools/ methods such as class test, record book, seminar, Assignment, case study, field work, mini project work, quiz or any innovative method which may be deemed to be appropriate for assessing the relevant course outcomes.

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Syllabus
B. A. Semester- IV (NEP) Level- 5.0
Major- IKS-DSC- Geography

Course Code - 622272

Course Title - Major -IKS - Ancient Indian Geographical Thought

Level	Semester	Course Code	Course Name	Credits	Teaching Hours (PerWeek)	Total Teaching Hours	Exam. Duration	Max. Marks
5.0	IV	**622272**	Major-IKS-**Ancient Indian Geographical Thought**	1	**1**	**15**	**1 Hrs**	Total-25 External-15 Internal-10

Course Objectives:	1) To understand contribution of Ancient Indian and foreign Philosopher. 2) To acquaint the students with idea of evolution of Indian geographical thinking and Information. 3) Familiarize learners with the foundational ideas, sources, and traditions of geographical knowledge in early Indian civilization.
Course Outcomes:	1) Students will be able to explain how geographical thinking developed through early Indian civilization and texts. 2) Students will describe ancient Indian cosmology, sacred geography, and philosophical perceptions of the earth and cosmos. 3) Students will relate ancient ideas to modern geographic thought and analyze their lasting influence in regional identity and spiritual landscapes.

Unit System	**Contents**	Workload Allotted	Weightage Of Marks Allotted	Incorporation of Pedagogies
Unit I	Ancient geographical concepts: a) Fundamental concepts in Geography: i) The Universe and its Origin ii) ii) Earth: Size of Earth iii) iii) Continents (Dwipas) and oceans	8 Hrs	8 Marks	Introduce foundational concepts, texts, and thinkers of ancient Indian geographical thought. Assign excerpts for analysis and class

	iv) Latitudes and Longitudes v) Cardinal Points vi) Calendar			discussion to identify embedded geographical ideas.
Unit II	Contribution of Ancient Philosophers: a) Kautilya, Aryabhatta, Varahmihira, Brahmagupta	7 Hrs	7 Marks	Engage students through videos, documentaries, and visual reconstructions of ancient Indian worldviews Journals, short quizzes, and response papers on key readings or concepts..

References:	**Reference Books:** 1) R.D. Dikshit: *Geographical Thought: A Contextual History of Ideas*, Prentice-Hall of India, New Delhi 2) P.K. Bagchi: *The Geographical Concepts of the Hindus*. The Indian Publications, Calcutta 3) P.R. Sharma: *Geography in Ancient Indian Literature*, National Book Trust, India 4) Lalit Rana: *Ancient Indian Geography: Theoretical Perspectives*, Rawat Publications, Jaipur & New Delhi 5) Majid Husain: *Models in Geography*, Rawat Publications, Jaipur 6) A.L. Basham: *The Wonder That Was India*, Rupa & Co., New Delhi Weblink to Equivalent MOOC on SWAYAM if relevant: Weblink to Equivalent Virtual Lab if relevant:
Internal Assessment Theory (10 Marks)	Internal assessment shall be carried out by the respective course teacher by choosing variety of assessment tools/ methods such as class test, record book,seminar, Assignment, case study, field work,mini project work, quiz or any innovative method which may be deemed to be appropriate for assessing the relevant course outcomes.

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Syllabus
B. A. Semester- IV (NEP) Level- 5.0
Minor-DSC- Geography

Course Code - 622253

Course Title - Minor-IV (Theory) - Agriculture Geography of India

Level	Semester	Course Code	Course Title	Credits	Teaching Hours (PerWeek)	Total Teaching Hours	Exam. Duration	Max. Marks
5.0	IV	622253	**Minor-IV (Theory) - Agriculture Geography of India**	2	**2**	**30**	**2 Hrs**	Total=50 External-30 Internal-20

Course Objectives:	1) To provide students with an in-depth understanding of the spatial patterns, processes, and issues related to agriculture in India. 2) Examine the physical and human factors influencing agricultural practices and patterns in different regions of India. 3) Group projects on regional economic development, trade networks, or resource distribution; group map analysis or debates on trade policies. 4) Online modules, interactive maps, video lectures, discussion forums on current economic events or spatial trends.
Course Outcomes:	1) Define and explain key concepts in agricultural geography with specific reference to India's diverse agricultural landscape. 2) Identify and analyze the spatial distribution of major crops and farming systems across different agro-climatic zones of India. 3) Discuss current issues such as climate change, land degradation, and sustainable agriculture in the Indian context. 4) Apply geographic methods and critical thinking to propose solutions for improving agricultural efficiency and rural development.

Unit System	Contents	Workload Allotted	Weightage of Marks Allotted	Incorporation of Pedagogies
Unit I	Meaning, Definition, Nature, Scope and significance of Agriculture Geography	8 Hrs	8 Marks	• Students connect geographic theory with the real-world dynamics of Indian agriculture. • Observations of crop diversity, land use, and farming practices in different regions. • Thematic maps of crop distribution, rainfall, soil types, and irrigation networks.
Unit II	Effect Determine Factor of Agricultural: Physical, Economic, Social, Biotic Factors	7 Hrs	7 Marks	
Unit III	Types of Agriculture: Primitive Agriculture, Intensive Agriculture, Plantation Agriculture, Shifting agriculture, Mixed Farming, Horticulture Farming	8 Hrs	8 Marks	
Unit IV	Majors Crops: Food Crops:Rice, Wheat, Jawar, Pulses, Commercial Crops: Cotton, Sugarcane, Soybean	7 Hrs	7 Marks	
References :	**Reference Books:** 1) Ali Mohmad (1978): Studies in Agricultural Geography, Rajesh Publication, New Delhi. 2) Hussain M. (1979): Agricultural Geography, Inter India Publication, Delhi 3) Sengupta P. (1968): Agricultural Regionalization of India, Census of India, New Delhi 4) Singh, Jasbir(1984), Jasbir and S. S. Dhillion (1984): Agricultural Geography, Tata Mc Grow Hill Pub. Co. New Delhi 5) Tiwari P.S. (1988): Agricultural Geography, New Delhi **6) शर्मा बी. एल. (1988): कृषी भूगोल, साहित्य भवन, आग्रा** **7) सिंह, ब्रजभूषण (1979):कृषी भूगोल, तारा पब्लिकेशन, वाराणसी.** **8) तिवारी आर.सी.(1994): कृषी भूगोल, प्रयाग पुस्तक भवन, इलाहाबाद.** **9) प्रमिला कुमार, श्री. कमल शर्मा (1985): कृषी भूगोल, मध्य प्रदेश हिंदी ग्रंथ अकादमी, भोपाल** **10) पाटील व्ही. जे.,भाटेवाल दादासाहेब, डाके एस. व्ही. (2022): कृषी भूगोल, प्रशांत पब्लिकेशन, जळगाव.** Web link to Equivalent MOOC on SWAYAM if relevant: Web link to Equivalent Virtual Lab if relevant: Any pertinent media (recorded lectures, YouTube, etc.) if relevant:			
Examination and Evolution Question Paper pattern **(30 Marks)**	1) Long answers on any Two Units out of the Four Units. (Long answers Types questions should internal choice based. ie. Solve any one question out of two questions.) 2) Short answers on any Two Units out of the Four Units. (Short answers Types questions should internal choice based. ie. Solve any Two questions out of four questions.)			
Internal Assessment Theory (20 Marks)	Internal assessment shall be carried out by the respective course teacher by choosing variety of assessment tools/ methods such as class test, record book,seminar, Assignment, case study, field work,mini project work, quiz or any innovative method which may be deemed to be appropriate for assessing the relevant course outcomes.			

Syllabus - Minor-IV (Practical)-Cartographic Method /Course Code 622254

Level	Semester	Course Code	Course Name	Credits	Teaching Hours (Per Week)	Total Teaching Hours	Exam. Duration	Max. Marks
5.0	**IV**	**622254**	**Minor -IV-Practical: Cartographic Method**	**2**	**4**	**60**	**2 Hrs**	Total-50 External-25 Internal-25

Course Objectives:	1) The cartographic method typically focuses on equipping students with the knowledge and skills needed to understand, analyze, and produce maps effectively. . 2) Develop the ability to accurately read, interpret, and analyze different types of maps, such as topographic, thematic, and navigational maps. 3) Acquire skills to design and produce effective and aesthetically pleasing maps using both manual and digital techniques. 4) Develop the ability to assess the quality, accuracy, and effectiveness of maps and visual representations.
Course Outcomes:	1. Demonstrate the ability to construct Diagrams manually, representing trends and changes in data over a continuous variable. 2. The students will be able to acquire knowledge of digital tools to create Diagrams. 3. Demonstrate an understanding of fundamental cartographic principles and basic statistical methods used in geographic analysis. 4. Critically assess the quality, precision, and reliability of maps and statistical data outputs. 5. Present geographic and statistical results clearly through reports, presentations, and visual materials.

	Contents	Workload Allotted	Weightage of Marks Allotted	Incorporation of Pedagogies
A.	Introduction to cartographic Method: 1) Dot Method 2) Choropleth Method (Use and limitations at least 01 example of each manually and using computer with using MS Excel)	28 Hrs	7Marks	Student engagement, understanding, and application of complex concepts. Hands-on exercises in map drawing, symbolization and Collecting sample data and applying descriptive statistics manually and using software (Excel, SPSS, R)
B.	Statistical Method: Standard Deviation	32 Hrs	8 Marks	
C.	Practical Record	--------	5 Marks	
D.	Viva Voce	---------	5 Marks	

References:	**Course Material/Learning Resources** **Reference Books:** 1) Singh R.L.(2020):Fundamentals Of Practical Geography. Shrada Pustak Bhawan,Allahbad. 2) Singh R.L. And Datta : Elements of Practical Geography 3) शिंतोळे तुषार(2020): प्रात्यक्षिक भूगोल डायमंड पब्लिकेशन 4) KhullarD.R. (2022): Prayogatmak Bhugol, Kalyani Publication, New Delhi. 5) शर्मा जे.पी. (२०१९): प्रयोगात्मक भूगोल की रूपरेखा रस्तोगी पब्लिकेशन मेरठ 6) Sing R. L.(2015) : Elements of Practical Geography Manav Books 7) कुंभारे अर्जुन,: प्रात्यक्षिक भूगोल,सुमेरू प्रकाशन, दोम्बिवल्ली ठाणे. Weblink to Equivalent MOOC on SWAYAM if relevant: Weblink to Equivalent Virtual Lab if relevant: Any pertinent media (recorded lectures, YouTube, etc.) if relevant:
Internal Assessment Theory (25 Marks)	Internal assessment shall be carried out by the respective course teacher by choosing variety of assessment tools/ methods such as class test, record book,seminar, Assignment, case study, field work,mini project work, quiz or any innovative method which may be deemed to be appropriate for assessing the relevant course outcomes.

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Syllabus
B. A. Semester- IV (NEP) Level- 5.0
Minor-Elective -DSC- Geography

Course Code - 622255

Course Title - Minor-Elective - V (A) (Theory) - Political Geography

Level	Semester	Course Code	Course Title	Credits	Teaching Hours (PerWeek)	Total Teaching Hours	Exam. Duration	Max. Marks
5.0	**IV**	**622255**	**Minor-Elective -V (A)(Theory) - Political Geography**	4	**4**	**60**	**3 Hrs**	Total= 100 External-60 Internal-40

Course Objectives:	1) To introduce students to the basic concepts, scope, and development of political geography as a subfield of human geography. 2) To examine how spatial structures influence political processes, and how politics affect geographical boundaries and spaces. 3) To critically engage with classical and modern geopolitical theories (e.g., Heartland Theory, Rimland Theory) and their contemporary relevance. 4) To explore the nature, types, and implications of political boundaries, border conflicts, and territorial claims.
Course Outcomes:	1) Demonstrate a clear understanding of key concepts such as state, nation, boundaries and geopolitics. 2) Evaluate how geographical factors influence political decisions, power structures, and territorial organization. 3) Integrate perspectives from geography, political science, history, and international relations to critically examine political events and spatial patterns. 4) Create and interpret maps to visually represent political territories, boundaries, and distributions of power.

Unit System	**Contents**	**Workload Allotted**	**Weightage of Marks Allotted**	**Incorporation of Pedagogies**
Unit I	Definition, Nature, scope and Significance of Political Geography, Approach to the study of Political Geography	10 Hrs	10 Marks	Students' critical thinking, engagement, and ability to apply geographic concepts to real-world political issues

Unit II	Theme in Political Geography, State, Nation, Nation building, frontiers and boundary	10 Hrs	10 Marks	
Unit III	Federalism and other forms governance, the changing pattern of old powers, perspective, corporative concepts	10 Hrs	10 Marks	Students investigate a recent border dispute and present findings.
Unit IV	Electoral studies in Political Geography, Geography of voting, geographic influence on voting pattern	10 Hrs	10 Marks	Analyze causes and consequences of a geopolitical event using maps and theory. Draw and analyze the shifting boundaries of colonial empires or modern nation-states.
Unit V	Geo-Politics and its origin, Hartland, rim land theory, Evolution of state origin of state and nation	10 Hrs	10 Marks	
Unit VI	Geopolitical significance of Indian Ocean, Changing Political Map of India, Geopolitical importance of SAARC vision in modern region	10 Hrs	10 Marks	

References:	**Reference Books:** 1) Adhikari S. (1997): Political Geography, Rawat Publication, Jaipur. 2) Dixit R.D. (1994): Political Geography, Tata Megra Hill Publication, New Delhi 3) Taylor Peter (1984): Political Geography, Longman, Londaon 4) B.L. Sukhwal: Political Geography in India, Chaitanya Publishing House 5) Ramachandra Guha: India: A Political Geography, Oxford University Press 6) Majid Hussain: Geography of India, Megra Hill Publication, New Delhi 7) Anil Kumar De & Amita De: India: Political Geography. Spectrum Books 8) विठ्ठल धारपुरे (2004): राजकीय भूगोल, पिंपळापुरे प्रकाशन नागपूर. 9) डॉ. सिंग सुनिता (1988): राजनैतिक भूगोल, के. के. पब्लिकेशन, दिल्ली Weblink to Equivalent MOOC on SWAYAM if relevant: Weblink to Equivalent Virtual Lab if relevant:
Examination and Evolution Question Paper pattern (60 Marks)	1) Long answers on any Two Units out of the six Units. (Each question having 10 Marks) (Long answers Types questions should internal choice based. ie. Solve any one question out of two questions.) 2) Short answers on any Four Units out of the six Units. (Each question having 05 Marks) (Short answers Types questions should internal choice based. ie. Solve any Two questions out of four questions.)
Internal Assessment Theory (40 Marks)	Internal assessment shall be carried out by the respective course teacher by choosing variety of assessment tools/ methods such as class test, record book,seminar, Assignment, case study, field work,mini project work, quiz or any innovative method which may be deemed to be appropriate for assessing the relevant course outcomes.

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Syllabus
B. A. Semester- IV (NEP) Level- 5.0
Minor-Elective -DSC- Geography

Course Code - 622256

Course Title - Minor-Elective - V (B) (Theory) - Population Geography

Level	Semester	Course Code	Course Title	Credits	Teaching Hours (Per Week)	Total Teaching Hours	Exam. Duration	Max. Marks
5.0	IV	**622256**	**Minor-Elective -V (B) (Theory) - Population Geography**	4	**4**	**60**	**3 Hrs**	Total= 100 External-60 Internal-40

Course Objectives:	1. Understand the Scope and Nature of Population Geography To introduce students to the fundamental concepts, scope, and importance of population geography as a subfield of human geography. 2. Analyze Population Distribution and Density To study spatial patterns of population distribution and density at global, regional, and local scales, and understand the factors influencing them. 3. Examine Population Dynamics To explore key demographic processes such as birth, death, migration, and population growth, and how they vary across different geographic regions. 4. Interpret Population Structure and Composition To assess the population structure in terms of age
Course Outcomes:	1) Understand and explain key concepts of population geography such as population distribution, density, growth, and demographic transition. 2) Evaluate spatial patterns of age, sex, occupation, and other demographic characteristics at global, regional, and local scales. 3) Analyze the factors influencing fertility, mortality, and migration, and how these contribute to population change. 4) Critically assess population policies of different countries, particularly India, and their effectiveness in addressing demographic challenges.

Unit System	Contents	Workload Allotted	Weightage of Marks Allotted	Incorporation of Pedagogies
Unit I	**Nature and Scope of Population Geography:** Definition, nature, and scope of Population Geography Sources of population data: Census, Vital Registration, Sample Surveys	10 Hrs	10 Marks	Students explore critical demographic questions such as causes of population explosion, regional disparities in fertility, or implications of migration. Teaching through analysis of real demographic datasets like Census of India, Group discussions, presentations, and peer review on population issues. Interactive session analyzing global population change with animated graphs.
Unit II	**Population Distribution and Density** Factors affecting population distribution: physical, economic, social, and political Patterns of population distribution at global and national levels Measures of population density: arithmetic, physiological, and agricultural density	10 Hrs	10 Marks	
Unit III	**Population Growth and Theories:** World and regional trends of population growth Population growth in India Theories of population growth: Malthusian Theory, Demographic Transition Theory	10 Hrs	10 Marks	
Unit IV	**Population Composition:** Age and sex structure Literacy and education Rural-urban composition Occupational structure Dependency ratio	10 Hrs	10 Marks	
Unit V	**Migration:** Types of migration: internal and international Causes and consequences of migration Migration theories: Ravenstein's laws, Lee's Push-Pull theory Migration patterns in India	10 Hrs	10 Marks	
Unit VI	**Population and Development** **Population and resources:** overpopulation, under population, optimum population Population policies: need and types Population policy of India – evolution, objectives, and evaluation	10 Hrs	10 Marks	

References:	**Reference Books:** 1) . लांडगे,अनिल (2020): Population Geography, Amazon Kindle Direct Publishing. 2) वाणी, बी. के. (2020) : Population Geography, Atharva Publications. 3) शिंदे देवानंद, (2018): लोकसंख्या व आर्थिक भूगोल, प्रकाशक: मुंबई विद्यापीठ. 4) मौर्य एसडी., (2023): जनसंख्या भूगोल, शारदापुस्तक भवन इलाहाबाद 5) मामोरिया चतुर्भुज., (2022): जनसंख्या भूगोल, SBPD publication 6) विठ्ठल धारपुरे (2018): लोकसंख्या भूगोल, पिंपळापुरे प्रकाशन 7) Majid Hussain (2007) : population Geography, Rawat publication 8) Chandna R.C. (2017) "Geography of Population: Concepts, Determinants and Patterns" published by Kalyani Publishers
Examination and Evolution Question Paper pattern (60 Marks)	1) Long answers on any Two Units out of the six Units. (Each question having 10 Marks) (Long answers Types questions should internal choice based. ie. Solve any one question out of two questions.) 2) Short answers on any Four Units out of the six Units. (Each question having 05 Marks) (Short answers Types questions should internal choice based. ie. Solve any Two questions out of four questions.)
Internal Assessment Theory (40 Marks)	Internal assessment shall be carried out by the respective course teacher by choosing variety of assessment tools/ methods such as class test, record book,seminar, Assignment, case study, field work,mini project work, quiz or any innovative method which may be deemed to be appropriate for assessing the relevant course outcomes.

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