AC 01.09.23 ITEM NO: 15.1

Deccan Education Society's

Kirti M. Doongursee College of Arts, Science and Commerce (AUTONOMOUS)





Affiliated to

UNIVERSITY OF MUMBAI

Syllabus for Program: Bachelor of Arts Course: F.Y.B.A Subject: **GEOGRAPHY**

Choice Based Credit System (CBCS) with effect from Academic Year 2023-2024

PROGRAM OUTCOMES

PO	Description
A stude	ent completing Bachelor's Degree in Arts Program will be able to
PO1	Disciplinary Knowledge: Demonstrate a blend of conventional discipline knowledge and its applications to the modern world. Execute strong theoretical and practical understanding generated from the chosen program.
PO2	Critical Thinking and Problem solving: Exhibit the skill of critical thinking and use higher order cognitive skills to approach problems situated in their social environment, propose feasible solutions, and help in its implementation.
PO3	Social competence: Express oneself clearly and precisely to build good interpersonal relationships in personal and professional life. Make effective use of linguistic competencies to express themselves effectively in real and virtual media. Demonstrate multicultural sensitivity in group settings.
PO4	Research-Related Skills: Seeks opportunity for research and higher academic achievements in the chosen field and allied subjects and is aware about research ethics, intellectual property rights and issues of plagiarism. Demonstrate a sense of inquiry and capability for asking relevant/appropriate questions; ability to plan, execute and report the results of a research project be it in field or otherwise under supervision.
PO5	Personal and professional competence: Equip with strong work attitudes and professional skills that will enable them to work independently as well as collaboratively in a team environment.
PO6	Effective Citizenship and Ethics: Demonstrate empathetic social concern and equity centered national development; ability to act with an informed awareness of moral and ethical issues and commit to professional ethics and responsibility.
PO7	Environment and Sustainability: Understand the impact of the scientific solutions in societal and environmental contexts and demonstrate the knowledge of and need for sustainable development.
PO8	Self-directed and Life-long learning: Acquire the ability to engage in independent and life-long learning in the broadest context of socio-technological changes.

Deccan Education Society's

Kirti M. Doongursee College (autonomous) Proposed

Curriculum as per NEP 2020 Year of implementation-

2023-24

Name of the Department: Geography

Semester	Course Code	Course Title	Vertical	Credit
I	K23UAGEOMJ111	Geography of Human and Cultural	Major	4
		Landscape		
	K23UAGEOMJ112	Demography and Population Studies	Major	2
	K23UAGEOVC141	Basics of Remote Sensing	VSC	2
	K23UAGEOSC151	E- Content Creation	SEC	2
II	K23UAGEOMJ211	Principles of Geomorphology	Major	4
	K23UAGEOMJ212	Regional Geography of Maharashtra	Major	2
	K23UAGEOMR221	Social and Cultural Geography	Minor	2
	K23UAGEOOE231	Geo- Tourism	OE	2
	K23UAGEOVC241	Environmental Impact Assessment	VSC	2
	K23UAGEOSC251	Beginners Course to Calligraphy	SEC	2

Course Code	MAJOR SEM – I	Credits	Lectures /Week
K23UAGEOMJ111	Paper I: Geography of Human and Cultural Landscape	4	4

Course Outcomes:

After successful completion of this course, students would be able to

- Learner will understand basic concepts of human geography and will be able to describe subject evolution.
- Learner will be able to elucidate different branches of human geography such as economics-geography, social geography, etc.
- Learner will be introduced to settlement geography, its concepts, types of settlement, classification, etc.
- It will help learner to construct thematic maps by using various map techniques in the field of research.
- Learner will gain information related to human geography that will help them to execute in various competitive examinations.

Unit	Topics	No of Lectures
	Human Geography: An Introduction	
	• Human Geography - Meaning, Definition, Nature, Scope Branches of Human Geography	
I	• Different Approaches of Human Geography	15
	• Man, Environment relation, Determinism Possibilism, Probabilism	
	• Space and Society: World Cultural Regions; Race; Tribes, Religion and Language.	
	Settlement	
	• Concept of Rural and Urban Settlements	
II	• Types and Pattern of settlement, Trends and Patterns of World Urbanization.	15
	• Site and Situation; and factors affecting location of	

	Settlement.		
	• Functional classification of Rural and Urban settlement		
	Migration		
	Concept and Types of Migration		
III	• Causes and Consequences of migration – pull and push factors.	15	
	• Emerging trends of migrations or Issues of legal and illegal international migration		
	• Case study of Migrant refugee/infiltration crisis		
	Practical		
IV	• Map - Definition, Components, Type, and Importance		
	• Map scale - Definition, Verbal Scale and Graphical Scale	15	
	• Construction of Choropleth Maps, Isopleth, Dot, and Flow Maps Construction of Population Pyramid		
References:			
 Human Geograph 	y – Dr. Dipesh Karmarkar		
Additional References:			
	thers (1983): The Dictionary of Human Geography, Blackwell E	-	
	: "Fundamentals of Human Geography", Sharda Pustak Bhavan,	Allahabad	
 Hussain, M. (2011): "Human Geography", Rawat Publications, Jaipur Dixit R. D. (1997): "Geographical Thought: A Contextual History of Ideas", PHI Learning 			
	Private Limited, Delhi		
U ,			
6. Siddhartha, K. and Mukherjee, S. (2016): "Cities, Urbanisation and Urban Systems", KitabMabal Dalbi			
,	2016): "Geography of Population: Concepts, Determinants an Ludhiana	d Patterns",	
 Kalyani Publishers, Ludhiana 8. Bhende, A. and Kanitkar, T. (2015): "Principles of Population Studies", Himalaya Publishing House, Mumbai 			

- 9. Koser, K. (2007): "International Migration: A Very Short Introduction", Oxford University Press, UK
- 10. Castles, S., Haas, H., and Miller, M. (2013): "The Age of Migration: International Movements in the Modern World", Guilford Pr.

- 11. Leong, G. C. and Morgan, G. C. (1982): "Human and Economic Geography", Oxford University Press, Delhi
- 12. Knowles, R. and Warding, J. (2012): "Economic and Social Geography", Rupa and Co., Kolkata
- 13. Waugh, D. (2009): "The New Wider World", Oxford University World, Oxford
- 14. Mahmood, A. (2008): Statistical Methods in Geographical Studies", Rajesh Publications, New Delhi
- 15. Singh, L. R. (2009): "Fundamentals of Practical Geography", Sharda Pustak Bhavna, Allahabad

Course Code	MAJOR SEM – I	Credits	Lectures /Week
K23UAGEOMJ112	Paper II: Demography and Population Studies	2	2
 Understand social issues Analyze and population d Evaluate the Identify and Apply demog Critically evaluates Communicate academic au Develop ethic 	patterns and processes of population growth and its the basic concepts and methods used in population interpret demographic data to understand path ynamics. impact of demographic changes on society and the explain the causes and consequences of population raphic methods to make population projections and luate population policies and their effectiveness in ac-	studies. studies. terns and economy. growth and forecasts. chieving dea n academic opulation r	ns. trends in d decline. mographic e and non- esearch.
	mic, and environmental issues.		
Unit	Topics		No of Lectures
I	 Introduction to Demography and Population S Definition and Scope of Demography, Importan Population Studies Trends and Patterns of World Population chang Population Size, Distribution and Growth - Determinants and Patterns; Theories of Gr Malthusian Theory and Demographic Tran Theory 	ace of ge - owth –	15

Image: Demographic Calculations • Defining the Field – Nature and Scope; Sources of Data with special reference to India (Census, Vital Statistics and NSS, NFHS) (Human being as dividend) • Population Dynamics: Fertility, Mortality and Migration – Measures, Determinants, and Implications. • Case Study Contemporary Issues – Ageing of Population; Declining Sex Ratio, Analysis of Demographic Change, and its Impact on Society • Calculation and interpretation of population density, and population growth rate, sex ratio, population growth rate, life table measures (including life expectancy and survival probabilities).		Population-Resource Relationships and Regional Resource Development	
	Π	 Demographic Calculations Defining the Field – Nature and Scope; Sources of Data with special reference to India (Census, Vital Statistics and NSS, NFHS) (Human being as dividend) Population Dynamics: Fertility, Mortality and Migration – Measures, Determinants, and Implications. Case Study Contemporary Issues – Ageing of Population; Declining Sex Ratio, Analysis of Demographic Change, and its Impact on Society Calculation and interpretation of population growth rate, sex ratio, population growth rate, life table measures (including life expectancy and survival 	15

References:

- Barrett, H. R., (1995): Population Geography, Oliver and Boyd.
- Bhende, A. and Kanitkar, T., (2000): Principles of Population Studies, Himalaya
- Publishing House.
- Chandna, R. C. and Sidhu, M. S., (1980): An Introduction to Population Geography,
- Kalyani Publishers.
- Chandna, R C (2006): JansankhyaBhugol, Kalyani Publishers, Delhi
- Chandna, R.C., Geography of Population, Kalyani Publishers, Ludhiana.
- Clarke, J. I., (1965): Population Geography, Pergamon Press, Oxford.
- Debjani, Roy., Population Geography, Books and Allied Private Limited, Kolkata.
- Jones, H. R., (2000): Population Geography, 3rd ed. Paul Chapman, London.
- Lutz, W., Warren, C. S. and Scherbov, S., (2004): The End of the World Population
- Growth in the 21st Century, Earthscan
- Maurya, S D (2009): JansankyaBhugol, Sharda Putak Bhawan, Allahabad
- Newbold, K. B., (2009): Population Geography: Tools and Issues, Rowman and
- Littlefield Publishers.
- Pacione, M., (1986): Population Geography: Progress and Prospect, Taylor and
- Francis.

- Panda, B. P., (1988): JanasankyaBhugol, M P Hindi Granth Academy, Bhopal
- Wilson, M. G. A., (1968): Population Geography, Nelson

Course Code	VOCATIONAL SKILL COURSE SEM – I	Credits	Lectures /Week
K23UAGEOVC141	Basics of Remote Sensing	2	2
Course Outcomes:			
	npletion of this course, students would be able to		
	ing of the basic principles of remote s netic radiation, spectral signatures, and image inte		
	interpret aerial and satellite images using bas and software.	ic remot	e sensin:
	of the applications of remote sensing in varion ntal monitoring, land use planning, and disaster ma		
	with the different types of remote sensing platfor r strengths and limitations.	rms and s	ensors, a
 Critical thin data and an 	nking skills to evaluate the accuracy and reliabilit alysis.	y of remo	te sensin
	ing of the ethical issues related to the use of remo ance of data privacy and security.	te sensin	g data an
Unit	Topics		No of Lectures
	Introduction to Remote Sensing		
	• Definition and principles of remote sensing		
I	• Electromagnetic radiation and the electron spectrum	nagnetic	15
	• Platforms and sensors used in remote sensi	ng.	15
	• Spatial, spectral, radiometric, and t resolutions	emporal	
	• Data acquisition, processing, and interpreta	ation	
	Remote Sensing Applications		
	• Image interpretation techniques		
	• Digital image processing and analysis		
II	• Mapping land cover and land use		15
		ection	
	• Environmental monitoring and change dete		
	 Environmental monitoring and change deter Applications in agriculture, forestry, resources, and urban planning 		
References:	• Applications in agriculture, forestry,		

and Jonathan W. Chipman

- "Introduction to Remote Sensing" by James B. Campbell and Randolph H. Wynne
- "Remote Sensing: Principles and Interpretation" by Floyd F. Sabins Jr.
- "Fundamentals of Remote Sensing" by Emilio Chuvieco and Alfredo Huete

Online References:

- NASA Remote Sensing Tutorial: https://earthobservatory.nasa.gov/features/RemoteSensing
- European Space Agency Remote Sensing: https://www.esa.int/Applications/Observing_the_Earth/Remote_sensing
- USGS Remote Sensing: https://www.usgs.gov/core-science-systems/nationalgeospatial-program/remote-sensing
- Remote Sensing and GIS Resources: <u>http://www.gisresources.com/remote-sensing-gis-resources/</u>

Course Code	SKILL ENHANCEMENT COURSE SEM – I	Credits	Lectures /Week
K23UAGEOSC151E- Content Creation2			
Course Outcomes:			
After successful com	pletion of this course, students would be able to		
	inderstanding of the fundamentals of e-content graphics, and interactive media.	creation, i	ncluding
• Develop skill audience.	ls to effectively design, develop, and deliver e-c	ontent to a	targeted
	the role of technology in e-content creation, an ming outcomes.	d its poten	tial to
_	ical thinking and problem-solving skills required -content solutions.	d to develo	р
	current trends and best practices in e-content (and usability standards.	creation, ir	cluding
	nce in planning, creating, and evaluating e-con ls and software.	tent using	industry-
	the ability to work collaboratively and effectively in a team ment, including communication, project management, and conflict on skills.		
• Understand	the ethical and legal issues related to e-content	creation a	nd use.
-	• Develop an awareness of the impact of e-content on society and the environment.		
	ifelong learning attitude towards e-content crea nerging technologies and trends.	tion and k	eep up to
Unit	Topics		No of Lectures
	Introduction to e-Content Creation		
	• Introduction to e-content and its impo	rtance	
I	• Understanding the target audience		15
	• Planning and organizing e-content.		15
	• Best practices in e-content creation		
	• Tools and software for e-content creati	on	
	E-Content Creation Process		
II	• Developing a concept and theme for e-	content	15
	• Creating engaging and interactive e-co	ntent	

	•	Incorporating multimedia elements in e-content Designing e-content for different devices and platforms	
	•	Testing and refining e-content	

References:

- "E-Learning and the Science of Instruction" by Ruth C. Clark and Richard E. Mayer
- "Design for How People Learn" by Julie Dirksen
- "e-Learning and the New Science of Instruction: Proven Guidelines for Consumers and Designers of Multimedia Learning" by Ruth C. Clark and Richard E. Mayer
- "The Art of Explanation: Making your Ideas, Products, and Services Easier to Understand" by Lee LeFever
- "The Accidental Instructional Designer: Learning Design for the Digital Age" by Cammy Bean

Online References:

- E-Learning Industry a website providing articles, e-books, and online courses on e-learning and e-content creation.
- Articulate a platform offering e-learning software and training courses for creating online courses and interactive content.
- Udemy an online learning platform providing courses on e-content creation and instructional design.
- LinkedIn Learning an online learning platform offering courses on various topics, including e-content creation and instructional design.
- eLearning Brothers a website offering templates, stock assets, and custom development services for e-learning and e-content creation.

Course Code	MAJOR SEM – II	Credits	Lectures /Week
K23UAGEOMJ211	Paper I: Principles of Geomorphology	4	4
Course Outcomes: After successful com	pletion of this course, students would be able to		
	the nature and scope of geomorphology, key co roach to studying landforms.	ncepts, an	d the
	edge of the Earth's interior structure to explain th rth's surface.	e processe	s that
	l compare different types of earth movements, in es, folds, faults, earthquakes, and volcanoes.	cluding iso	stasy,
•	interpret the processes of weathering, mass wasting roposed by Davis and Penck).	, and the c	ycle of
	interpret the evolution of different types of land , aeolian, glacial, and coastal, both in terms of the processes.		-
	edge of geomorphological processes to real-world sce al management, disaster mitigation, and resource e		uding
• Communicat written and c	e effectively about geomorphological concepts a pral formats.	nd process	ses in
	al thinking and problem-solving skills to ado gical issues and challenges.	dress real	-world
	Topics		No of
Unit	-		Lectures
	Introduction to Geomorphology		
	• Definition and scope of geomorphology		
I	• Key concepts in geomorphology		
	• Systems approach to studying landforms, Ap Geomorphology and Environment.	oplied	15
	• Geological Time Scale, Earth's interior struct its influence on landforms	ture and	
п	Earth Movements and Tectonic Processes		15
	• Isostasy and its role in earth movements		15

	-	1
	Plate tectonics and its influence on landformsTypes of folds and faults	
	Earthquakes and volcanoes	
	Geomorphic Processes and Evolution of Landforms	
	• Weathering processes and their impact on landforms	
ш	• Types of mass wasting and their role in shaping landforms	15
	Davis and Penck's cycle of erosion	10
	• Erosion and sediment transport, Erosional and depositional processes of fluvial, karst, aeolian, glacial, and coastal landforms	
	Practical	
	• Method of Showing Relief: Hachure, hill shading, Interpolation, contour, form line, and layer tints	
IV	• Drawing of contours and their cross section of slope elements, and fluvial, wind, coastal landforms. Identification of drainage pattern from the 1:50,000 toposheets.	15
	• Identification of various geological structures from geological maps.	
	• Drawing of strike lines and determination of direction, amount of dip.	
References:	_1	1
	. L., (2003): Geomorphology: A Systematic Analysis of Lat Prentice-Hall of India, New Delhi.	e Cenozoic
• 2. Bridges, Cambridge.	E. M., (1990): World Geomorphology, Cambridge Univer	sity Press,
• 3. Christophe	erson, R. W. and Birkeland, G. H., (2012) Geosystems: An Intro	oduction to
Physical Geo	graphy (8th edition), Pearson Education, New Jersey.	
_	, A and Kapoor, A.N., (2001) Principles of Physical Geography, Ltd. New Delhi.	S.C. Chand
• 5. Daval P	(1996) A Text book of Geomorphology, Shukla Book Depot, Pat	ึกล

- 5. Dayal, P., (1996) A Text book of Geomorphology. Shukla Book Depot, Patna.
- 6. Huggett, R.J. (2007) Fundamentals of Geomorphology, Routledge, New York.
- 7. Kale, V. S. and Gupta A., (2001): Introduction to Geomorphology, Orient Longman, Hyderabad.

- 8. Khullar, D.R., (2012) Physical Geography, Kalyani Publishers, New Delhi.
- 9. Mal, Suraj, Singh, R.B. and Huggel, Christian (2018): Climate Change, Extreme Events and Disaster Risk Reduction, Springer, Switzerland, pages 309.
- 10. Selby, M.J., (2005): Earth's Changing Surface, Indian Edition, OUP
- 11. Singh, S (2009):BhautikBhugolkaSwaroop(Hindi), PrayagPustak,Allahabad.
- 12. Skinner, Brian J. and Stephen C. Porter (2000), The Dynamic Earth: An Introduction to Physical Geology, 4th Edition, John Wiley and Sons.
- 13. Strahler, A. H. and Strahler, A N., (2001): Modern Physical Geography (4/E), John Wiley and Sons, Inc., New York.
- 14. Summerfield M. A. (2013): Global Geomorphology, Routledge, New York
- 15. Thornbury, W. D., (2004): Principles of Geomorphology, Wiley, New York.
- 16. Tikka, R N (1989): Bhautik Bhugolka Swaroop (Hindi), Kedarnath Ram Nath, Meerut

Course Code	MAJOR SEM – II	Credits	Lectures /Week
K23UAGEOMJ212	Paper II: Regional Geography of Maharashtra	2	2
Course Outcomes: After successful com	pletion of this course, students would be able to		

- Gain comprehensive knowledge about the geographical features, climate, landforms, and natural resources of Maharashtra.
- Understand the spatial distribution of various physical and human phenomena within Maharashtra, including population patterns, economic activities, and cultural diversity.
- Apply knowledge of regional geography to analyze and interpret the social, economic, and environmental issues and challenges faced by different regions within Maharashtra.
- Develop analytical skills to critically evaluate the interrelationships between physical and human factors influencing regional development in Maharashtra.
- Synthesize information from various sources to develop a holistic understanding of the regional disparities, regional planning, and sustainable development initiatives in Maharashtra.
- Evaluate the effectiveness of regional policies, development projects, and resource management strategies in Maharashtra, considering their impact on the environment, society, and economy.

• Develop effective communication skills to present findings, analysis, and recommendations related to the regional geography of Maharashtra through written reports, presentations, and discussions.

Unit	Topics	No of Lectures
I	 Physical Geography of Maharashtra Introduction to the physical geography of Maharashtra Study of the major landforms and physical features in Maharashtra, such as the Western Ghats, Deccan Plateau, and coastal plains Examination of the climatic patterns and variations across different regions of Maharashtra Analysis of the hydrology and water resources, including rivers, lakes, and dams in Maharashtra Exploration of the natural vegetation and biodiversity in the state 	15
Π	 Human Geography of Maharashtra Overview of the population distribution and demographic characteristics of Maharashtra Examination of the cultural diversity and ethnic composition of different regions in Maharashtra Analysis of the urbanization process and urban growth patterns in cities like Mumbai, Pune, and Nagpur Study of the agricultural practices and patterns, including major crops and agricultural regions in Maharashtra Investigation of the industrial development and economic activities across different regions of Maharashtra 	15

References:

- Maharashtra: Society, Culture, and Economy by Vijay P. Bhosale
- Geography of Maharashtra by A.R. Kulkarni and M.M. Kulkarni
- Maharashtra: Land and People by S.P. Patil
- Regional Planning in India: Maharashtra by A.S. Sanjay
- Geography of Maharashtra by Dr. S.N. Lahiri
- Maharashtra: Physical and Human Geography by M.V. Shinde and S.S. Limaye

- Geography of Maharashtra by R.M. Yadav and S.R. Yerme
- Maharashtra: A Geographical Analysis by Dr. B.R. Kherde
- Geography of Maharashtra State by G.S. Ghurye and A.G. McCarroll
- Maharashtra Geography by B. K. Tatke

Course Code	ourse Code MINOR SEM – II Cred		Lectures /Week
K23UAGEOMR221	21 Social and Cultural Geography 2		2
 Understand the Understand the Understand the regions. Develop an use and development of the Learn about the Identify the second sec	apletion of this course, students would be able to he scope and content of socio-cultural geography. he concept of cultural hearth and realm, cultural diffusio understanding of cultural segregation and cultural diversi- nent. the different races and racial groups of the world. occio-cultural space and regions of India. the indicators of social welfare and wellbeing		
Unit Topics		No of Lectures	
Introduction to Social and Cultural Geography• Social Geography and Cultural Geography: Concept, Nature, and Scope• Approaches: Possibilistic, Behavioral, Radical and Welfare, Modern and Postmodern• Races, Caste, Ethnicity, Religions, Tribes: Types, Characteristics and Distribution• Languages: Distribution of Major languages families		15	
II Socio-cultural Development and Problems in India II Concept and Indicators of Social Welfare and Wellbeing – Happiness Index II Socio -cultural Challenges and Problems in Rural and Urban area; Problems Related to Health and Education - Programs or Policies II Social Movements: Environmental, Labour, Dalit, Tribal, Women and Farmers		15	

• Tribal Development, Women Empowerment:

		Programmes and Policies	;
efer	ences:		
٠	Ahmad, A. (1	999): "Social Geography", Rawat P	ublications, Jaipur
•	• Bannerjee-Guha, S. (2004): "Space, Society and Geography", Rawat Publications, Jaipur		
•	 Carter and Jones (2000) Social Geography – An Introduction contemporary issues. 		
•	• CMS (2010): "India Corruption Study 2010: Is the Scenario Changing?", CMS Research House, New Delhi, Downloaded from		
•	 http://unpan1.un.org/intradoc/groups/public/documents/apcity/unpan047870.pdf 		
•	• Desai, M. (2007): "Women and the Built Environment", Zuban Publications, Delhi.		
•	• Dutt, A., Wadhwa, V. et al (2012): "Facets of Social Geography: International and Indian Perspectives", Foundation Books, New Delhi		
•	• Gharpure, V. (2013): "Samajik ani anskrutik Bhugol", (Marathi) Pimpalapure and Company Publishers, Nagpur		
•	 Jyptirmoy Sen (2007): A Text Book of Social and Cultural Geography," Kalyani Publsiher, New Delhi. 		
•	 Karmarkar, D. (2012): "Fishy Spaces: Globalisation and Livelihood of Indigenous Fishermen – A Case of 		
٠	Mumbai", LA	P LAMBERT Academic Publishing,	Germany
•	•	nd Wareing, J. (1996): "Economic : s, Rupa& Co., Calcutta	and Social Geography", the Mad

Course Code	OPEN ELECTIVE SEM – II	Credits	Lectures /Week
K23UAGEOOE231	Geo-tourism	2	2
 Explain the and the print Analyze the identify way Evaluate the and cultural Analyze the importance development Develop skill visitor management 	lls in geo-tourism planning and management, inclue agement, and interpretation. logy and multimedia tools to design innovative a	f geo-to ve ones. l sites, a d under nable g ding site	urism and and natural estand the eo-tourism selection,
including re Evaluate cas 	the ethical and cultural considerations associated espect for indigenous knowledge and cultural herita se studies of successful and unsuccessful geo-touri as learned to future geo-tourism projects.	ge.	
Unit	Topics		No of Lectures
I	 Introduction to Geo-tourism Definition, concepts, and principles of tourism Overview of geodiversity and its signification tourism Historical and cultural aspects of geo-tour Socio-economic and environmental imp geo-tourism Geo-tourism sustainability and responsible tourism practices 	ance in ism acts of	15
п	Geo-tourism Planning and Management Geoparks and geo-tourism destinations Site selection, visitor management 	, and	15

	 interpretation Geo-tourism marketing and promotion Role of stakeholders in geo-tourism development Use of technology and multimedia tools in geo-tourism 	
•	T., Coelho, C. O., & Costa, C. A. (Eds.). (2014). Geoheritage and A European Perspective. Springer.	
 Dowling, R. K., & Newsome, D. (Eds.). (2006). Geotourism: The Tourism of Geology and Landscape. Goodfellow Publishers. 		
• Newsome, D., & Dowling, R. K. (2010). Geotourism: The Tourism of Geology and Landscape (2nd ed.). Goodfellow Publishers.		

Staszak, J. F. (Ed.). (2018). Geotourism: An Emerging Sector in Tourism. CABI. •

Online References:

- Global Geoparks Network: http://www.globalgeopark.org/
- The International Association of Geotourism: https://www.iageotourism.com/
- United Nations World Tourism Organization: https://www.unwto.org/
- The International Ecotourism Society: <u>https://www.ecotourism.org/</u>

Course Code	VOCATIONAL SKILL COURSE SEM – II	redits	Lectures /Week
K23UAGEOVC241	Environmental Impact Assessment	2	2
 Understand the identific impacts. Analyze the responsibilit Critically ex tools, such a Apply EIA m various type and extracti Synthesize including prior 	npletion of this course, students would be able to the basic concepts, principles, and techniques used cation, prediction, evaluation, and management of e legal and institutional framework for EIA, including ties of different stakeholders and the public particip valuate the strengths and limitations of different EL as checklists, matrices, and geographic information nethodologies to assess the potential environmental es of development projects, including those in the e ive sectors. and communicate the results of EIA studies to diver roject developers, policymakers, affected communit ital organizations.	g the ro pation p A metho system l impact nergy, t rse audi	mental les and process. ods and as. ts of transport, ences,
Unit	Topics		No of Lectures
I	 Principles and Methods of Environmental Impact Assessment Introduction to Environmental Impact Assessm (EIA) Legal and institutional framework for EIA Scoping process and identification of potential impacts Assessment of impacts on physical and biologic environments Assessment of impacts on social and cultural environments Mitigation and management of impacts Public participation and stakeholder engageme EIA 	cal	15
II Case Studies and Applications of Environmental Impact Assessment • Application of EIA to specific sectors such as mining, transportation, and energy		15	

• EIA and biodiversity conservation	
• EIA and climate change	
• EIA and sustainable development	
• Evaluation of EIA effectiveness and alternatives to EIA	
• Emerging trends and challenges in EIA	

References:

- "Environmental Impact Assessment: Theory and Practice" by Peter Wathern
- "Environmental Impact Assessment: A Guide to Best Professional Practices" by Charles H. Eccleston and John W. Heywood
- "Environmental Impact Assessment: Process and Practice" by Kevin Hanna and Chris Barrow
- "Environmental Impact Assessment: A Comparative Review" by M.V. Naidu and Y.A. Hussaini
- "Environmental Impact Assessment Handbook: A Practical Guide for Planners, Developers and Communities" by Barry Sadler and Lee Johnson

Online References:

- International Association for Impact Assessment: https://www.iaia.org/
- United Nations Environment Programme Environmental Impact Assessment: <u>https://www.unenvironment.org/explore-topics/resource-efficiency/what-we-do/environmental-impact-assessment</u>

Course Code SKILL ENHANCEMENT COURSE SEM – II		Lectures /Week
K23UAGEOSC251 Beginners Course to Calligraphy 2		2
 Develop an manual and Acquire knocalligraphy Learn basic formation, Develop has 	npletion of this course, students would be able to understanding of the history and evolution of calligraphy, d digital. owledge of the different tools, materials, and software used techniques of calligraphy, including lettering styles, strok and composition. nd-eye coordination and fine motor skills through practice	in e
 Acquire the purposes, s Develop an calligraphy Apply critic 	techniques. a ability to interpret and create calligraphy art pieces for value auch as greeting cards, invitations, logos, and branding. appreciation for the aesthetics and cultural significance of cal thinking skills to analyze and evaluate calligraphy piece	ſ
menuums v	ne's own work and that of others.	
 Develop protection technical d Enhance cr 	oblem-solving skills in the context of calligraphy, such as o ifficulties or adjusting designs to fit specific requirements. eativity and self-expression through the medium of calligra understanding of the role of calligraphy in contemporary a	aphy.
 Develop protection technical d Enhance cr Develop an 	oblem-solving skills in the context of calligraphy, such as o ifficulties or adjusting designs to fit specific requirements. eativity and self-expression through the medium of calligra understanding of the role of calligraphy in contemporary a	aphy.
 Develop protection Develop an and communication 	oblem-solving skills in the context of calligraphy, such as o ifficulties or adjusting designs to fit specific requirements. eativity and self-expression through the medium of calligra understanding of the role of calligraphy in contemporary a unication.	aphy. art, design No of

•	How to write letters? Majuscules, Minuscules, Numbers, Learning Strokes, Sans Serif B- point, Celtic, Italian Script, Roman Script, Gothic Script	
•	Practice Sessions: Learning and practicing strokes- Upstroke, Downstroke, Overturn, Under turn, Compound curve, Oval, Ascending loop.	
•	Hands-on activities and Assessment on Sans Serif B-point, Celtic, Italian Script, Roman Script, Gothic Script, Flourishing	
References: • Suepsuan, P. A. (2021). Start Calligraphy The Right way to write: Learn Calligraphy	v The

- Suepsuan, P. A. (2021). Start Calligraphy The Right way to write: Learn Calligraphy The Complete Book Modern Calligraphy Pen For Beginners, Learning Resources Step By Step Number Line, Mastering Modern Calligraphy. Independently published.
- • C., & Co., T. P. (2020). Modern Calligraphy Set for Beginners: A Creative Craft Kit for Adults featuring Hand Lettering 101 Book, Brush Pens, Calligraphy Pens, and More. Paige Tate & Co

Evaluation Scheme for First Year (UG) under NEP (4 credits)

I. Internal Evaluation for Theory Courses – 40 Marks

1) Continuous Internal Assessment (CIA) Assignment -

Tutorial/ Case Study/ Project /Presentations/ Group Discussion / Ind. Visit. – 20 marks

2) Continuous Internal Assessment (CIA) ONLINE Unit Test – 20 marks

II. External Examination for Theory Courses - 60 Marks

Duration: 2 Hours

Theory question paper pattern:

Question	Based on	Marks
Q.1	Unit I	15
Q.2	Unit II	15
Q.3	Unit III	15
Q.4	Unit IV	15

• All questions shall be compulsory with internal choice within the questions.

• Each Question may be subdivided into sub questions as a, b, c, d, etc. & the allocation of Marks depends on the weightage of the topic.

NOTE: To pass the examination, attendance is compulsory in both Internal & External (Theory + Practical) Examinations.

Evaluation Scheme for First Year (UG) under NEP (2 credits)

I. Internal Evaluation for Theory Courses – 20 Marks

<u>1) Continuous Internal Assessment (CIA) Assignment -</u> Tutorial/ Case Study/ Project /Presentations/ Group Discussion / Ind. Visit. – 10 marks</u>

2) Continuous Internal Assessment (CIA) ONLINE Unit Test - 10 marks

II. External Examination for Theory Courses – 30 Marks

Duration: 1 Hours

Theory question paper pattern: All questions are compulsory.

Question	Based on	Marks
Q.1	Unit I	15
Q.2	Unit II	15

• All questions shall be compulsory with internal choice within the questions.

• Each Question may be subdivided into sub questions as a, b, c, d, etc. & the allocation of Marks depends on the weightage of the topic.

NOTE: To pass the examination, attendance is compulsory in both Internal & External (Theory + Practical) Examinations