B. A. Geography

Sr.	Class	Sem.	Paper	Title of Paper	Course Outcomes
No.	0.4.00		Tuper	Title of ruper	Course Outcomes
1	B.A. I	I	I	Physical Geography Code: DSC B10	1. Students will be able to understand the basic concepts in Physical
					Geography. 2. Students understand basic terms used
		127			to describe physical processes and landscape forms.
		900 M			3. Students understand the atmosphere.4. Students understand the concept of maps and globe.
2	B. A. I	II	II	Human Geography	1. Students will be able to understand
				Code: DSC B24	the basic concepts in Human
			e e H		Geography.
					2. Students understand basic terms used
		nov.			to describe population, settlements and agriculture.
			o H _a = o		3. Students understand the concept of
					Google Earth and Google Map.
3	B.A.II	III	III	SOIL	CO1: Relating to Knowledge
				GEOGRAPHY	I. By the end of the course, students
				Code: DSC D19	will be able to demonstrate knowledge
1		, and ma	1		of the definition, nature, and scope of
					Soil Geography, as well as its history
			i V	n * n * n * n * n * n * n * n * n * n *	and pedology.
					II. Students will be able to explain the
					significance of Soil Geography in
					various fields, including agriculture, ecology, land use planning, and
			V A 10		ecology, land use planning, and environmental management.
					III. Students will have a thorough
					understanding of the factors that
					influence soil formation and the
					physical and chemical properties of
					soils.
					CO2: Understanding and application
					I. Students will be able to comprehend

				2		
		2				the Jenny's Factorial Model of Soil
200						Formation and the process of soil
					4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	formation.
						II. Students will be able to apply the
						knowledge of physical and discharge
			1 10		e la la Aliga	knowledge of physical and chemical
						properties of soils in real-world
10	9 7				* 1 * * * * * * * * * * * * * * * * * *	scenarios, such as soil management and
2.0						conservation.
	2 12				W 4	III. Students will be able to identify and
			- 1			classify soils based on their genetic
		10.5	15 20			characteristics and distribution.
					0 5 6	CO3: Students Skills
						I. By the end of the course, students
		8.				will have developed practical skills
	AT 12 TO 10 TO 10	10				related to sail mustile at the skills
				18		related to soil profile and soil sample tools.
						The second secon
				-		II. Students will have gained practical
	Real least the second					knowledge of pH and NPK soil
						analysis.
						III. Students will be able to use GIS for
						studying soil ecology and planning
						IV. Student will start up soil test
						laboratory. CO4: Students Evaluation
		3				I. Students will be evaluated through
		4	- 1			written assignments, group activity and
				10		practical exams to demonstrate their
			100			understanding of Soil Geography.
						II Students will be
SOM THE						II. Students will be evaluated based on
						their ability to apply their knowledge of
						soll properties, classifications and
						degradation in practical scenarios
150 m						III. Students will be evaluated on their
						practical skills related to soil profile
4	B.A.	II III		TYZ		soil sample tools, soil analysis.
7	D.A.	III III		IV	RESOURCE	CO1: Relating to Knowledge
					GEOGRAPHY	I. By the end of the course, students
		- 1 e			Code: DSE 20	will be able to demonstrate knowledge
				8 . 2		of the definition, nature, and scope of
						Resource Geography.
				1		II Students will be alle
						II. Students will be able to explain the
				120		significance of Resource Geography in
				100		various fields, including agriculture,
						industry, transportation, and
						environmental management.
						III. Students will have a thorough
	n at L or					understanding about the distribution,
						3.001

		V 1			
5	B.A.II		OS- & II	Courism Geography Code: GE I and GE II	utilization and problems of worldwide major resources. CO2: Understanding and application I. Students will be able to comprehend the sustainable resource development II. Students will be able to apply the knowledge of resource geography in real-world scenarios, such as management and conservation of resources. III. Students will be able to the classify of resources based on their characteristics and their worldwide distribution. IV. By the end of the course, Students will have gained knowledge of worldwide resource availability, its problems like scarcity, pollution etc. and will be able to imply measures to overcome these problems. CO3: Students Skills I. Students will be able to understand for the need of sustainable resource development and skills of resource management. II. Student will be able to develop the cartographic skills. CO4: Students Evaluation I. Students will be evaluated through written assignments, group activity and practical exams to demonstrate their understanding of Resource Geography. II. Students will be evaluated based on their ability to apply their knowledge of problems of resource availability, its management and sustainable resource development in practical scenarios. III. Students will be evaluated on their practical skills related to cartographic skills. PO1: Relating to Knowledge: I. Students will be demonstrated a comprehensive understanding of the definition of tourism and tourist and knowledge of the nature and scope of tourism geography. II. Students will be recognized the significance of studying tourism
				¥	tourism geography
1 1	1	2. 140		a h a a 9 h	tourism geography.
		-		n n	II. Students will be recognized at
					significance of the
				9 A 2	significance of studying tourism
					con and it is tourishing tourishing
Carrier and				w	geography in tourism planning,
15					development, and management.
					management.

Students will be able to identify and describe the components of tourism and their interrelationships. III. Students will classify tourism based on various criteria and analyze recent trends in the industry. IV. Understand tourism's historical development, from ancient contemporary periods. V. Identify tourism's role in the national economy and the process of planning in India. VI. Recognized different types of tourism centers in India and Maharashtra. VII. Summarize the key components of travel documentation. PO2: Relating to Understanding and Application: Students will apply their understanding of tourism geography concepts to analyze the impacts of tourism on economic, socio-cultural, and environmental aspects. Students will comprehend the principles of sustainable development in tourism and apply them to address the challenges and opportunities in the industry. Students will demonstrate an understanding of the use of computer technologies in various aspects of tourism geography, such as e-ticket booking, destination search, promotion, mapping, and distance calculations. IV. Students will be able to interpret and analyze data collected through field surveys, interviews. questionnaires, and sampling techniques in tourism geography research. V. The students will be able to evaluate tourism's impact on the economy and apply planning principles. VI. Analyze characteristics of tourism centers and assess sustainable practices.

PO3: Relating to Students' Skills: I. Students will develop critical thinking skills to evaluate and assess the economic, socio-cultural, and environmental impacts of tourism. II. Students will enhance their technological skills in using computer applications for various tasks related to tourism geography. III. Students will develop practical skills in conducting field surveys, interviews, questionnaires, and sampling techniques for data collection in tourism geography research. IV. Students will improve their communication skills by effectively presenting and conveying Information related to tourism geography. V. Develop critical thinking and research skills for analyzing tourism strategies. VI. Enhance communication and teamwork skills through presentations and group activities. VII. Improve time management and organizational skills. PO4: Relating to Students' Evaluation: I. Students will be able to critically evaluate the classification of tourism based on different criteria and analyze the recent trends in the tourism industry. II. Students will demonstrate their ability to assess the economic, sociocultural, and environmental impacts of tourism using appropriate evaluation methods. III. Students will develop the skills to evaluate the effectiveness of computer applications in tourism geography and their contribution to sustainable tourism practices. IV. Students will apply their knowledge and skills in data collection techniques to evaluate the Reliability and validity							
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and skills in data collection techniques							v. Students will apply their knowledge
to evaluate the Reliability and validity							and skills in data collection techniques
	-					1	to evaluate the Reliability and validity

	See See 1	_	2	*	
					of primary data in tourism geography
-					research.
					V. Demonstrate knowledge through
		-			assessments.
		200 2			VI. Apply theoretical knowledge to
	* *				real-world scenarios and case studies.
B 0.0				2	VII. Active participation in discussions
	- T				and presentations.
6	B.A.II	IV	V	OCEANOGRAPHY	CO1. Relating to Knowledge:
				Code: DSE 47	I. Students will define the nature and
		0 0			
				10 2 2	scope of oceanography and its connection to physical sciences.
				an a s	II Students will identify to
		4	8 P 1		II. Students will identify branches of
	**		60 X		oceanography and their areas of focus.
					III. Students will describe the factors
					affecting oceanic temperature, salinity, and distribution.
					IV. Students will recognize the types of
		, ,	2 "		oceanic currents and their origins in
		e"v ga" na g			different oceans.
		110 2		w * * * * * * * * * * * * * * * * * * *	V. Students will understand the sources,
18.					classification, and significance of
		100	114	w w w	oceanic deposits.
					VI. Students will explain the role of the
		1 y 1 8			ocean as a source of food and potential
		200			future resources.
					CO2. Understanding and
			. 1		Application:
					I. Students will apply knowledge of
					oceanographic principles to illustrate
				8 1	the maps of ocean and NOAA CDR/
	8 7		9		NESDIS sea surface temperature
			к 1 к	*	Annual mean of the sea surface salinity
	-0.1				distribution.
					II. Students will apply knowledge of
					causes, effects of ocean pollution and
		2 2			propose solutions.
	1 22 2				III. Students will utilize scientific
			00		reasoning to understand the
2.0		~ 11			relationships between ocean water
			*		properties and climate change.
					IV. Students will be able to distinguish
				1	the various marine movements.
					V. Students will apply theoretical
	31 2		,	1	knowledge to practical exercises, such
			F 7		as interpreting hypsographic curves,
			2		mypsographic curves,

						wind roses, isohalines, and isotherms.
						CO3. Student Skills:
						I. Develop critical thinking skills
						ullough the analysis and evaluation of
	lo-			* 3- *		oceanographic concents
						II. Enhance problem-solving abilities
						by applying oceanographic principles
		Mari 18		A.B.		10 real-world aitmet
						demonstrate the ocean currents.
						III. Develop effective communication
						presentations of oceanographic topics.
						CO4. Student Evaluation:
			207		100	I. Assess student knowledge and
						understanding through quizzes, exams,
						and assignments.
						II. Assess the development of critical
						thinking and problem-solving skills
						through case studies.
1				Sa e e		III. Evaluate the effectiveness of
						student communication 1:11
1	7			2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		student communication skills through oral examination
	7	B.A.II	IV	VI	AGRICULTURE	PO1: Relating to Knowledge
					GEOGRAPHY	I. By the end of the
			= ;;		Code: DSC D48	I. By the end of the course, students will be able to demonstrated
			-1			will be able to demonstrate knowledge
1						of the definition, nature, and scope of
						Agriculture Geography, as well as
١.						evolution of agriculture over different
			100			periods in history and its impact on society.
						II. Students will be able to explain the
						significance of Agricultural Geography
	1.					in various fields, including agriculture, ecology, land use planning and
			. 194			environmental management.
						III. Students will have a thorough
		1 4		8 8 8		understanding of the factors that
		2 3		400		influence soil formation and the
		***	*			physical and chemical properties of soils.
		. = 05 () = 1				
						PO2: Understanding and application
						1. Students will be able to comprehend
						the Jenny's Factorial Model of Soil
						rormation and the process of soil
		2 NOT 12 11 11 11 11 11 11 11 11 11 11 11 11	0 1 E		* * * * * * * * * * * * * * * * * * *	formation.
						II. Students will be able to apply the

knowledge of physical and chemical properties of soils in real-world scenarios, such as soil management and conservation. III. Students will be able to identify and classify soils based on their genetic characteristics and distribution. PO3: Students Skills I. By the end of the course, students will have developed practical skills related to soil profile and soil sample tools. II. Students will have gained practical knowledge of pH and NPK soil analysis. III. Students will be able to use GIS for studying soil ecology and planning. IV. Student will start up soil test laboratory, PO4: Students Evaluation I. Students will be evaluated through written assignments, group activity and practical exams to demonstrate their understanding of Soil Geography. II. Students will be evaluated based on their ability to apply their knowledge of physical stills related to soil profile, soil sample tools, soil analysis. 8 B.A.III V VII Evolution of Geographical Thought. (DSEE106) 8 B.A.III V VIII Geography of India. (DSEE107) 9 B.A.III V VIII Geography of India. (DSE-E107) Geographical students are fully aware about the climatic seasons in India. CO-1 In depth understanding the dimensions and physiography of India. CO-1 In depth understanding the dimensions and physiography of India. CO-1 In depth understanding the dimensions and physiography of India. CO-1 In depth understanding the dimensions and physiography of India. CO-1 In depth understanding the dimensions and physiography of India. CO-1 In depth understanding the dimensions and physiography of India. CO-1 In depth understanding the dimensions and physiography of India. CO-2 The students are fully aware about the climatic seasons in India. CO-3 Detailed knowledge about soils,			7 - 5 - 5 - 5				
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manufacturing industries CO-4 Understanding of the transport and trade. 12 B.A.III VI XI Urban Geography (DSE- E232) CO-1 The students were known the importance of urban settlements through urban geography.							c interpretation to
CO-4 Understanding of the transport and trade. 12 B.A.III VI XI Urban Geography (DSE- E232) CO-1 The students were known the importance of urban settlements through urban geography.					10 N		
12 B.A.III VI XI Urban Geography (DSE- E232) and trade. CO-1 The students were known the importance of urban settlements through urban geography.	1						manufacturing industries
12 B.A.III VI XI Urban Geography (DSE- E232) CO-1 The students were known the importance of urban settlements through urban geography.	١.						CO-4 Understanding of the transport
(DSE- E232) CO-1 The students were known the importance of urban settlements through urban geography.	-	12	B A III	VI	ΥI	Linhan Canana	
through urban geography.			D.7 1.111	V 1	Al		
through urban geography.				10.		(DSE- E232)	
		18 K 17 17 18 18 18 18 18 18			2		through urban geography.
CO-2 The students understood the			THE P.	E			CO-2 The students understood the
types of Urban Settlements, Site and			ge 111 × 102		i pali	* * * * * * * * * * * * * * * * * * *	types of Urban Settlements, Site and
Situations.	×				8		Situations.
CO-3 The students were familiar with					·		CO-3 The students were familiar with
an idea of relationship between human							an idea of relationship between human
activities and urban development.					en Je		activities and urban development.
CO-4 Detail understanding of students							CO-4 Detail understanding of students

		1			
				a 2	regarding present urban problems and
					students are capable to handling of
					present problematic situations in urban
	× ×	9 9	2 -		areas.
			£ 11. *		CO-5 The students are developed as a
					good urban planner and environmental
			4	8 16 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	conservator.
13	B.A.III	VI	XII	POLITICAL	CO-1 The students are fully aware
		12 FM		GEOGRAPHY	about the Political geography as a
	1 .			(DSE - E 233)	fundamental branch of Human
		10			Geography.
			V2 III		CO-2 The students are familiarized
				, x ²	
					with the basics and fundamental concepts and theories of Political
					CO-3 The students are aware about
		TAN DEC			resource conflicts and politics of displacement.
14	B.A.III	VI	XIII	(Practical Paper - I)	
		100		Fundamentals of	CO-1 In depth understanding the map,
				Map Making and	concept of scale and projection.
				Map Interpretation	CO-2 Detailed knowledge about the analysis of landforms and its
				(DSE-E234)	analysis of landforms and its identification.
				(DSL-L234)	
					CO-3 The students are deeply aware
					about basic information to the students
					about S.O.I. topomaps and I.M.D.
	2 2				weather maps and obtained the skills
					about map interpretation.
					CO-4 The students are deeply familiar
					with different cartographic techniques
					and methods used for representation of
					demographic and physio- socio-
15	B.A.III	VI	VIV	(D (1 1 D Y)	economic database.
13	חיעית	V I	XIV	(Practical Paper - II),	CO-1 In depth understanding the
				Advanced Tools,	importance of field work and advanced
			1	Techniques & Field	Techniques in Geography.
				Work in Geography	CO-2 The students are trained to
				(DSE-E235)	implement modern tool and techniques
					in Geography.
					CO-3 Detailed knowledge about the
				n Marian Araban	use of computer for analysis of
			2 1		Geographical data.
					CO-4 The students are deeply aware
					about the basics and trained in
		2 20		* * * * * * * * * * * * * * * * * * *	instrumental survey. CO-5 The students
165					are deeply familiar with computer. GIS
			2 -		GPS and Remote Sensing.

Page **10** of **26**

Department of Geography, Lai Bahadur Shastri College of Arts Science and Commerce, Satara

2023-24

M. A./M.Sc. I Geography

Sr.	Class	T C -	l D	Course Outcom	
	Class	Sem.	Paper	Title of Paper	Course Outcome
No.			No.		
1	M.A.	I	MT-	Geomorphology	1. Understand the nature and scope of
			101		geomorphology and establish the
					relationship between the tectonism and
					geomorphology with the knowledge of
land, "					interior of the Earth.
					2. Look into the evolution of
			8 Y 1		continents and ocean basins with
					continental drift theory.
					2 17 1
					exogenetic forces controlling landform
			2 2		development with anglish after
					development with special reference to the denudation processes.
					4. Verify the impact of dynamic
		in a second	T 11		agencies on denudation and their work.
		A 19			
		K* 8		1 tool 2 to	5. Understand the cycle of erosion
) * , 				with different views with special
					reference to hill slope development. 6. See the application of
					application of
					geomorphology in the view of
			- 100		anthropogenic and environmental
2	M.A.	I	MT-	D.: 1	geomorphology.
	IVI.A.	1	102	Principles of	1. Distinguish the weather and climate
			102	Climatology	with an understanding of structure and
	3 B				composition of Atmosphere;
					2. Understand the variations of
			5		weather systems in terms of Stability
					and Instability of atmosphere;
					3. Enable the students to understand

the vertical and horizontal distribution of atmospheric air; 4. Get complete information about Atmospheric Disturbances in terms of cyclones and anti-cyclones; 5. Understand the regional and seasonal variations of weather systems in India; 6. Know the significance of synoptic Climatology in pollution studies and navigation 3. M.A. I MT- Economic Geography 3. Get complete information about the regional and seasonal variations of weather systems in India; 6. Know the significance of synoptic Climatology in pollution studies and navigation 1. Understand the concepts and basis of economic processes 2. Get acquainted with theories and models in economic geography 3. Get comprehensive knowledge of World energy resources, situation and distribution 4. Know about the Nature, scope and Principles of Industrial Geography 5. Understand transport and Trade policies of country 6. Get detail knowledge of economic power determinants of country and able to analyse the economic development of country. 4. M.A. I ET-102 Settlement Geography 7. Understand the approaches to rural settlement geography; rural services; hierarchy; morphology etc. 7. Know the concept and processes of urban settlement studies; urban problem & their planning; concept smart cities, urban agriculture, etc. 7. Understand the theories and models of settlement geography to understand the structure of settlements. 5. M.A. I MP- Research Methodology in Geography 8. Lidentify the objectives and significance of research in geography; 2. Prepare schedule and questionness.			1	1 2			
development of country. I ET-102 Settlement Geography Settlement geography. 1. Know the fundamentals of settlement geography. 2. Understand the approaches to rural settlement geography; rural services; hierarchy; morphology etc. 3. Know the concept and processes of urban settlement studies; urban problem & their planning; concept smart cities, urban agriculture, etc. 4. Understand the theories and models of settlement geography to understand the structure of settlements. 5 M.A. I MP- 101 Research Methodology in Significance of research in geography:		3	M.A.	I			of atmospheric air; 4. Get complete information about Atmospheric Disturbances in terms of cyclones and anti-cyclones; 5. Understand the regional and seasonal variations of weather systems in India; 6. Know the significance of synoptic Climatology in pollution studies and navigation 1. Understand the concepts and basis of economic processes 2. Get acquainted with theories and models in economic geography 3. Get comprehensive knowledge of World energy resources, situation and distribution 4. Know about the Nature, scope and Principles of Industrial Geography 5. Understand transport and Trade policies of country 6. Get detail knowledge of economic power determinants of country and
Geography 1. Know the fundamentals of settlement geography. 2. Understand the approaches to rural settlement geography; rural services; hierarchy; morphology etc. 3. Know the concept and processes of urban settlement studies; urban problem & their planning; concept smart cities, urban agriculture, etc. 4. Understand the theories and models of settlement geography to understand the structure of settlements. 5 M.A. I MP- Research 101 Methodology in Settlement 1. Know the fundamentals of settlement geography. 1. Know the fundamentals of settlement geography.							analyse the economic
5 M.A. I MP- Research 101 Methodology in the structure of settlements. 1. Identify the objectives and significance of research in geography:		4	M.A.	Ι	ET-102		 Know the fundamentals of settlement geography. Understand the approaches to rural settlement geography; rural services; hierarchy; morphology etc. Know the concept and processes of urban settlement studies; urban problem & their planning; concept smart cities, urban agriculture, etc. Understand the theories and models of settlement geography to understand
Research 1. Identify the objectives and significance of research in geography:	-	1	1 4				the structure of settlements
Methodology in significance of research in geography:)		1.A.	I	The state of the s	Research	4
					101		

					in geography;
					3. Collect data of physical and human
		2 s			elements;
					4. Tabulate data, formulate research
					design and represent data by using
					most appropriate methods;
					5. Effective writing, maintaining
			V gi		research ethics and academic integrity;
			* 5 		6. Write abstracts, thesis, project
			= 11		
6	M.A.	I	MP-	Computer	report and research papers 1. Learn the representation of
			102	Applications in	- the representation of
		100	102	■	geographic data using various
				Geography	computational methods;
					2. Develop writing, editing, and
		7 1 1 1 1			presentation skill for representation of
					geographical information;
	1 1 2 1 × 1 .	H.			3. Compute statistical parameters with
					the help of computer;
					4. Prepare and design maps and graphs
					with the help of computer software;
					5. Apply computational techniques
					relevant in the discipline of
					Geography;
		9 1			6. Know about sources and uses of
					online educational resources and e-
legals :					learning methods
7	M.A.	II	MT-	Advanced	1. Understand basic principles of
			201	Cartography and	cartography and surveying
				Surveying	2. Gain understandings of various
				,	cartographic methods and to de-
	8 , 20				cartographic methods and techniques
	* *				3. Acquaint with the skills of digital
					cartography
			8		4. Identify sources and types of errors
					occurs during surveying
			8		5. Get familiar with the basic aspects
			4 10		of linear, vertical and angular
8	M.A.	II	MT-	Climate Cl	measurements of surveying.
3	141.74.	11		Climate Change and	1. Recognize the importance of
			202	Disaster	climate on human life;
				Management	2. Identify and categorize climate

				1	*_*_*	
						types and climatic regions of the
						world;
						3. Get comprehensive knowledge
9						about causes and impacts of
1000 1				- n		atmospheric pollution, GHGs
						emission, ozone layer depletion, acid
						rain and el-nino;
						4. Know about the history, recent
						trends impacts and damage of
						trends, impacts and dynamics of climate change on earth;
						5. Assess future risks of climate
						change and the adaptation and
						mitigation options;
					a co ₂	6. Understand causes, consequences
						and vulnerabilities of various natural
				190		and man-made disasters;
						7. Plan for prevention, preparation and
						mitigation of disasters
	9	M.A.	II	ET-201	Fundamentals and	
					Applications of GIS	1. Understand the basic concepts of
1					and GPS	Geographical Information System and GPS.
						2. Know various applications of GIS
				E .		and GPS in various fields.
						3. Familiar with modern techniques of
			8	E 1		geography.
			а ₁ година			4. Apply these skills in professional
	10	M.A.	II	EP-	Introduction to GIS	careers.
				201	Software and GPS	1. Familiarize with QGIS software and
				201	Software and GPS	tools.
				11		2. Apply Comprehensive knowledge
						of GIS software and GPS for analysis
						of geographical data and to solve real
			0 0			world problems
		2 0 0				3. Understand the role of GIS as
						decision support system and to
						develop various model for GIS spatial
				- m		analysis.
						4. Examine the various functions of
			# 1 B			GPS for surveying and mapping.
						5. Develop practical skills in spatial
					le le	in spatial

						data acquisition, management, and analysis.
				N (6. Learn to create and visualize maps
	11	26.4	**			using GIS techniques
	11	M.A.	II	MP-	Advanced	1. Familiar with various advance
				203	Surveying	surveying methodologies
			E E			2. Develop practical skills as well as
						organizational and interpersonal abilities
						3. Perform survey using advanced
						surveying instruments like theodolite,
						total station, DGPS and drone
	12	MA	77	TD 000		4. Create a map based on a survey
-	12	M.A.	II	FP-201	Field Project	1. Carry out field project on their own;
						2. Formulate project design and
-						methodologies;
				n ,		3. Organize and carry out field visits,
	1.0			2 8		collect field data and/or conduct
						review of literature;
						4. Effective writing and dissemination
						of project output having scientific
_						and/or social relevance.

Department of Geography,
Lal Bahadur Shastri College of Arts.
Science and Commerce, Satara

2022-23

M. A. I Geography

C.,	01	T a		Course Outcom	ies(COs)
Sr.	Class	Sem.	Paper	Title of Paper	Course Outcome
No.	100		No.		
1	M.A.	I	CC-	Fundamentalsof	■To understand the development of
			101	Geomorphology	geomorphic thought throughout the
					time with are view of fundamenta
					concepts of geomorphology.
					To look into the evolution of
					continents and ocean basins with
					continental drift theory.
<i>y</i> 1					To know the endogenetic and
					exogenetic forces controlling land
		er ja j			form development with special
1			2		reference to the denudational
	1 12 E	n 20			processes.
4.1					To see the mountain building
2	M.A.	I	00		activities through different theories.
2	WI.A.	1	CC-	Principlesof	 To distinguish the weather and
			102	Climatology	climate with an understanding of
			61	A	structure and composition of
	A 11				Atmosphere.
	a	5.	9		 To understand the variations of
		4 7 4	. 8 11		**** - 41
	614				C. 1:11
			1		Stability and Instability of atmosphere.
N N					•
	# 11 P				To enable the students to
		10 a)			understand the vertica land
					horizontal distribution of
			1,2		atmospheric air.
					To get complete information about
					Atmospheric Disturbances in terms
					of cyclones and anti-cyclones.

		E E			To know the significance of synoptic Climatology in pollution
3	M.A.	T	00		studies and navigation.
3	M.A.	I	103	Economic Geography	Tounderstandthe conceptsandbasisof economic processes.
					 To get acquainted with theories and models in economic
					 geography To getcomprehensive knowledge of World energy resources, situationanddistribution. To know about the Nature, scope and Principles of Industrial Geography
					 TounderstandtransportandTrade policies of country. To getdetail knowledge of economic power determinants of countryandabletoanalyze the
4	M.A.	I	CC- 104	Geography of Populationand HumanResource Development	economicdevelopmentof country. Infer factors influencing population distribution and density; Acquire skill to describe regional patterns of population composition; Compute and explorefertility, mortality and human development levelsfor micro, meso and macroregions. Analysethe population-resource regions and discover problems arisingdue toover andunder population. Understand and create awareness about provincial spects of gender equity, social well-
5 M	I.A.		CCPr- 105.1	Practical'sin Geomorphologyand	 beingand quality of life. To know the methods of representation of relief. Understanding the topographical

					185	Surveying	maps.
						,s	
							 Identification and mapping of drainage patterns
					, =		 To look into the drainage basin morphometry.
					17		To understand the field surveying
							methods
	6	M.A	A.	I	CCP		■ To identify various sources of
					105.2	1 11141 5 15 01	climate data.
						Climatic Data	 To understand the formats of
				3			Indian daily weather report and
							reading of weather signs and
							symbols.
							■To represent meteorological
							elements diagrammatically and
							interpretation of results.
				-			To know methods of
							measurement of meteorological
							elements
							To analyse inter relationship
							between various meteorological
							elements.
							To analyse present and future
	7	M.A.	I	(CCPr-	Analysis of Socio-	trends of meteorological elements.
1					105.3	Economic Data	To identify the importance of
						Dutu	population studies regarding the
Î				101			fertility, mortality,
							■ To understand the socio-economic
							structure of population
							To study various statistical
			18. To				methods for analysis of
							Agricultural activities.
							To determine the agriculture
							productivity and analyze results.
	0	26					 Togetbasic understanding of the economic dataanditsanalysis.
	8	M.A.	II	1	CC-		To establish the relationship
		o sa i vil		2	201	Applied	between the tectonism and
ė,						Geomorphology	geomorphology
							geomorphology with the

knowledge of interior of the Earth. To verify the impact of dynamic agencies on denudation and their work. To understand the cycle of erosion with different views with special reference to hillslope development To see the application of geomorphology in the view of anthropogenic and environmental geomorphology M.A. II CC-202 Applied Climate Change To identify andcategorize climate types and climatic regions of the world. To understand the regional and seasonal variations of weather systemsinIndia. To get comprehensive knowledge about causes and impacts of atmospheric pollution, GHGsemission, ozone layer depletion, acid rainandel-nino. To know about the history, recent trends, impacts and dynamics of climate change one arth. To assess future risks of climate change and the adaptation and mitigation options; To understand basic principles of cartography and surveying To explainvarious cartographic methods and techniques for preparation of mapsanddiagrams. To compare the difference between manual and digital						
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9 M.A. II CC- 202 Applied Climate Change - To identify and categorize climate types and climatic regions of the world. - To understand the regional and seasonal variations of weather systemsinIndia. - To get comprehensive knowledge about causes and impacts of atmospheric pollution, GHGsemission, ozone layer depletion, acid rainandel-nino. - To know about the history, recent trends, impacts and dynamics of climate change one arth. - To assess future risks of climate change and the adaptation and mitigation options; - To understand basic principles of cartography and surveying - To explainvarious cartographic methods and techniques for preparationof mapsanddiagrams. - To compare the difference						■ To see the application of
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10 M.A. II CCS- 203 To understand basic principles of cartography and surveying To explainvarious cartographic methods and techniques for preparation maps and diagrams. Advanced Cartography and Cartograph						change and the adaptation and
To understand basic principles of cartography and surveying To explainvarious cartographic methods and techniques for preparation of mapsanddiagrams. To compare the difference between the difference	10	M.A	II ·	CCS		mitigation options;
Advanced Cartographyand cartography and surveying To explainvarious cartographic methods and techniques for preparation of mapsanddiagrams. To compare the difference			11			 To understand basic principles of
Advanced Cartographyand methods and techniques for preparation of maps and diagrams. To compare the difference			1	203		cartography and surveying
Advanced Cartographyand methods and techniques for preparation of maps and diagrams. To compare the difference						To explainvarious cartographic
Advanced preparation of maps and diagrams. To compare the difference between						methods and techniques for
Cartographyand To compare the difference		- x x 1	5 1 1		Advanced	preparation of mapsanddiagrams.
between manual and digital						To compare the difference
					D. april and	between manual and digital

					Surveying	govern and an analysis
					Surveying	cartography
						To acquaint with the skills
			e			regarding digital cartography.
						 To identify sources and types of
						errors occurs during surveying.
						■ To get familiar with the basic
						aspects of linear, vertical and
				* 1		angular measurements of
	1	27.1				surveying.
	1	M.A.	II	CCS-	Socialand	■To study and identify the
				204	CulturalGeography	philosophical base, problems
						associated with society & its
						culture.
						■To know about the culture, cultural
						regions, hearths and their
						diffusion, realms, and distribution
						of races.
						■To study and knowing of socio-
						cultural diversity of India, and
				F1 -		processesof socialchanges.
				*		To understand the social justiceand
				100		well-being of society, to find out
10						the level of well-beingin India
12	2	M.A.	II	CCPr-		To learnthe representation of
				205.1	Computer	geographic data using various
			FR 8 8 1	E 200 DAY	Applicationsin	computational methods.
					Geography	■ To know about sources and uses
						of online educational resources
						and e-learning methods.
		100				T
			818			and presentation skill for
						representation of geographical information.
	T.			v = 4,		To compute statistical parameters
						with the help of computer.
				H _y y		■ To prepare and design maps and
						graphs with thehelp of computer
						software.
	1 2					To apply computational
	-1		5 . 5			techniques relevant in

	7					
	10	26.4				thedisciplineof Geography
	13	M.A.	II	CCPr-		 To understand the import ance
			925	205.2		and use of statistical techniques in
						geography.
					StatisticalT- 1	• To form frequency distributions
					StatisticalTechniques	tables and graphically interpret
				a 18 0 a 1	inGeography	the results.
				es :	*	 To measure central tendency and
	٠.,					dispersion of data.
						To examine relationship between
						two or more variables with
			E			correlationandregressionanalysis.
						 To apply comprehensive
						knowledge of statistics for
-						analysis of geographical data
1	4	M.A.	II	CCPr-		■ To understand correlation and
				205.3	Quantitative	regression among spatio-temporal
					Techniquesin	data.
					Geography	 To learn what is Spatial Analysis.
						• For The Measurement Levels and
				x 11 x		Spatial Data
				es ,		 ToMeasuresprobability
	6.2					 Tobecame expertin techniquesfor
						analysisofdata inresearch For
				, , , , , , , ,		ExploratoryDataAnalysis

Head

Department of Geography,

Lal Bahadur Shastri College of Arts

Science and Commerce, Satara

2023-24

M. A./M.Sc. II Geography

Sr.	Class	Sem.	Paper	Course Outco	
No.		- CIII.	No.	Title of Paper	Course Outcome
1	M.A.	III			
1	WI.A.	III	CC-	Applied	1. Recognize the importance of clima
			301	Climatology and	on human life;
				Climate Change	2. Identify and categorize clima
					types and climatic regions of the
					world;
					3. Understand the regional an
					seasonal variations of weather system in India;
			8 11		4. Get comprehensive knowledg
		18.0			about causes and impacts o
			,		atmospheric pollution, GHG
					emission, ozone layer depletion, acid
		2 44			rain and el-nino;
		4.5			5. Know about the history, recent
			* * "		trends, impacts and dynamics of
			8		climate change on earth:
					6. Assess future risks of climate
					change and the adaptation and
N	M.A.	III	CCS-	P1	mitigation options;
				Fundamentals of	1. Understand the principles and
			302	Remote Sensing and	concepts of remote sensing and its role
	2.0		*	DIP	in capturing and analyzing Earth's
					data.
					2. Describe the different types of
a de la companya de l			-		remote sensing platforms, sensors, and
					image acquisition systems used in the
			a () a		field.
					3. Interpret and analyze aerial
					photographs and satellite images using
			y å		visual interpretation techniques.

						4. Apply digital image processing
				100°		techniques for feature extraction.
						including texture, shape, and spectral
	1					indices.
		2 e				5. Explore emerging trends and
						technologies in remote sensing and
						digital image processing.
	3	M.A	. III	DSE-	Biogeography	1 11 1 1 1
			ж.	303		historia-1
					y	biogeography development of
			Eq. (1) = 0	2 2 2 2	1	
**				,		2. Get comprehensive knowledge of
						different classification of animal and
				3		plants 3. Know about pattern as
						about pattern of
						biogeography
						4. Understand different processes in
						biogeography
						5. Get detail knowledge about
1	4	M.A.	TIT	Dan		influencing factors on biogeography
		WI.A.	III	DSE-	Geography of India	1. Understand the main regions of the
				304		India in terms of both their uniqueness
		* 100 H				and similarities.
				11 g		2. Identifying and explaining the
						Indian Geographical Environment,
						from global to local scales.
						3 Generate and
		2 2 2				responsibility for the environment and
						India.
				2911 18		
						4. Know about the impacts of human
						activities on natural environments of India
	5	M.A.	III	CCPr-	Research	1
				305.1	Methodology and	1. Identify the objectives and
						significance of research in geography;
				*	Geographical Excursion	2. Prepare schedule and questionnaire
				* * * * * * * * * * * * * * * * * * * *	Excursion	in geography;
						3. Collect data of physical and human
						elements;
						4. Tabulate data, formulate research
				ed to		design and represent data by using
					a 1 g 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	most appropriate methods;
			200			1

			14 15			
						5. Effective writing, maintaining research ethics and academic integrity; 6. Organize and carry out geographical excursion and field visits;
	6	M.A.	. III	305.2	Dissertation/ Projec	 Recognize the objectives and significance of research work; Formulate research design and
						methods; 3. Organize and carry out field visits,
						collect field data and/or conduct review of literature;
						4. Effective writing, maintaining
						research ethics and academic integrity;
						5. Preparation and dissemination of
						research output having scientific
	7	M.A.	IV	CC-	Applied	and/or social relevance.elements. 1. Establish the relationship between
				401	Geomorphology	the tectonism and geomorphology with
						the knowledge of interior of the Earth.
						2. Assess the impact of tectonism and
						diastrophism on the earth crust.
						3. Verify the impact of dynamic
-						agencies on denudation and their work.
				7 P (40)		4. Understand the cycle of erosion with different views with special reference
						to hill slope development.
1						5. See about the application of
				9 9 10 10 10 10 10 10 10 10 10 10 10 10 10		geomorphology in the view of
						anthropogenic and environmental
	8	M.A.	IV	CCS-	Regional Planning	geomorphology.
				402	and Development	1. Understand the basic concepts in regional planning
						2. Understand different methods in
						order to compute regional
						development
						3. Get acquainted with theories and
						models for regional development
				9 8 7		4. Get a specialized knowledge of
						policies and experiences of regional planning in India.
						. G

		1264			N 20 1 18	
	9	M.A.	IV	DSE- 403	Fundamentals and Applications of GIS and GPS	1. Understand the basic concepts of Geographical Information System and GPS.
				8		
						2. Know various applications of GIS
q			Asset 1			and GPS in various fields.
						3. Familiar with modern techniques of
						geography.
						4. Apply these skills in professional
	10	MA	TYZ	Dan		careers
	10	M.A.	IV	DSE-	Agricultural	1. Know about nature, scope and
				404	Geography	significance of agricultural geography
						as an academic and professional
						discipline.
						2. Understand the fundamental
						concept, crop combination,
						diversification, agricultural
		1118		- 1,1		- G
						determinants of agricultural patterns.
1						3. Get knowledge about agricultural
ľ						systems of the world.
						4. Understand the agrarian revolution,
		25.				socio-economic constraints,
H	11	M.A.	IV	CCPr-	DI	agricultural problems and policies
-	11	IVI.A.	1 V	**	Photogrammetry,	1. Understand the fundamental
				405.1	Remote Sensing and	principles and concepts of
			7	06 1	DIP	photogrammetry, remote sensing, and
						digital image processing.
		n a				2. Describe the various sensors,
		2 20				platforms, and techniques used in
						photogrammetry and remote sensing.
2			k 18 1.	*		3. Apply photogrammetric techniques
						to extract three-dimensional
				× * * * * * * * * * * * * * * * * * * *		information from social above
			20 =			information from aerial photographs
						and digital images.
			8			4. Apply digital image processing
						techniques for enhancing and
						analyzing remote sensing data.
						5. To apply the knowledge of remote
						sensing and DIP in various thematic
						studies
						80

1	2 116	T			
1	2 M.A.	IV	CCPr-	Introduction to GIS	1. Familiarize with QGIS software and
			405.2	Software and GPS	tools.
					 Apply Comprehensive knowledge of GIS software and GPS for analysis of geographical data and to solve real world problems Understand the role of GIS as decision support system and to develop various model for GIS spatial analysis. Examine the various functions of GPS for surveying and mapping. Develop practical skills in spatial data acquisition, management, and analysis. Learn to create and visualize maps using GIS techniques.

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