

COURSE PATTERN & SCHEME OF EXAMINATION

Semester	Course Code	Course Title	Teaching Hours	Hours / Week	Examination Pattern Max. & Min. Marks / Paper			Duration of the Exam (hours)	Total Marks / Paper	Credits
				Theory / Practical	Theory / Practical			Theory / Practical		Theory / Practical
					Max.	Min.	IA			
First	DSC.T-1	Principles of Geomorphology	56	4	60	21	40	2	100	4
	DSC.P-1	Geomorphological Mapping Techniques	56	4	25	9	25	2	50	2
	DSC.T-2	Basics of Cartography	56	4	60	21	40	2	100	4
	DSC.P-2	Thematic Cartography & Map Projections	56	4	25	9	25	2	50	2
	OE-1.1	Mathematics for Geography	42	3	60	21	40	2	100	3
	OE-1.2	Fundamentals of Remote Sensing								
	L1-1.1	English	42	3	60	21	40	2	100	3
	L2-1.2	Kannada / Hindi /	42	3	60	21	40	2	100	3
	SEC.S-1	Cartographic Techniques	28	2	30	9	20	2	50	2
	SEC.V-1		14	1			25	1	25	1
SEC.V-2		14	1			25	1	25	1	
Second	DSC.T-3	Introduction to Climatology	56	4	60	21	40	2	100	4
	DSC.P-3	Interpretation of Weather Maps	56	4	25	9	25	2	50	2
	DSC.T-4	Physical Geography	56	4	60	21	40	2	100	4
	DSC.P-4	Interpretation of Topographic Maps	56	4	25	9	25	2	50	2
	OE-2.1	Spatial Statistics	42	3	60	21	40	2	100	3
	OE-2.2	Introduction to Geographic Information Systems								
	L1-2.1	English	42	3	60	21	40	2	100	3
	L2-2.2	Kannada / Hindi /	42	3	60	21	40	2	100	3
	AECC-1	Environmental Studies	28	2	30	9	20	2	50	2
	SEC.V-3		14	1			25	1	25	1
SEC.V-4		14	1			25	1	25	1	

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Third	DSC.T-5	Introduction to Oceanography	56	4	60	21	40	2	100	4	
	DSC.P-5	Representation of Oceanographic Features	56	4	25	9	25	2	50	2	
	DSC.T-6	Fundamentals of Human Geography	56	4	60	21	40	2	100	4	
	DSC.P-6	Techniques in Human Geography	56	4	25	9	25	2	50	2	
	OE-3.1	Programming Fundamentals	42	3	60	21	40	2	100	3	
	OE-3.2	Geography of India									
	L1-3.1	English	42	3	60	21	40	2	100	3	
	L2-3.2	Kannada / Hindi /	42	3	60	21	40	2	100	3	
	SEC.S-2	Utility Mapping	28	2	30	9	20	2	50	2	
	SEC.V-5		14	1			25	1	25	1	
SEC.V-6		14	1			25	1	25	1		
Fourth	DSC.T-7	Regional Geography of India	56	4	60	21	40	2	100	4	
	DSC.P-7	Representation of Physical Features of India	56	4	25	9	25	2	50	2	
	DSC.T-8	Urban Geography	56	4	60	21	40	2	100	4	
	DSC.P-8	Techniques in Urban Geography	56	4	25	9	25	2	50	2	
	OE-4.1	Python Programming	42	3	60	21	40	2	100	3	
	OE-4.2	Geography of Karnataka									
	L1-4.1	English	42	3	60	21	40	2	100	3	
	L2-4.2	Kannada / Hindi /	42	3	60	21	40	2	100	3	
	AECC-2	Constitution of India	28	2	30	9	20	2	50	2	
	SEC.V-7		14	1			25	1	25	1	
SEC.V-8		14	1			25	1	25	1		

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Fifth	DSC.T-9	Fundamentals of Remote Sensing	42	3	60	21	40	2	100	3
	DSC.P-9	Interpretation of Satellite Images and Aerial Photos	56	4	25	9	25	2	50	2
	DSC.T-10	Population Resources & Dynamics	42	3	60	21	40	2	100	3
	DSC.P-10	Statistical methods in population studies	56	4	25	9	25	2	50	2
	DSC.T-11	Development of Geographical Thought	56	3	60	21	40	2	100	3
	DSC.P-11	Analysis of Geographic Data	56	4	25	9	25	2	50	2
	VOC-1	Mobile Asset Mapping	42	3	60	25	30	2	100	3
	SEC.S-3	Drone Mapping	28	2	30	9	20	2	50	2
	SEC.V-9		14	1			25	1	25	1
	SEC.V-10		14	1			25	1	25	1
Sixth	DSC.T-12	Environmental Geography	42	3	60	21	40	2	100	3
	DSC.P-12	Instruments for measuring weather elements	56	4	25	9	25	2	50	2
	DSC.T-13	Fundamentals of Geographic Information Systems	42	3	60	21	40	2	100	3
	DSC.P-13	GIS for map-making	56	4	25	9	25	2	50	2
	DSC.T-14	Basics of Natural Disasters	42	3	60	21	40	2	100	3
	VOC-1	Open-Source GIS	42	3	60	25	30	2	100	3
	SEC.S-4	Basics of R – Programming	28	2	30	9	20	2	50	2
	DSE.INT-1	Internship	28	2	30	9	20	2	50	2
	SEC.V-11		14	1			25	1	25	1
	SEC.V-12		14	1			25	1	25	1

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Seventh	DSC.T-15	Advanced Geomorphology	42	3	60	21	40	2	100	3
	DSC.P-15	Techniques in Watershed Analysis	56	4	25	9	25	2	50	2
	DSC.T-16	Advanced Climatology	42	3	60	21	40	2	100	3
	DSC.P-16	Climatic Data Analysis	56	4	25	9	25	2	50	2
	DSC.T-17	Geo-surveying	42	3	60	21	40	2	100	3
	DSE-1.1	Settlement Geography	42	3	60	21	40	2	100	3
	DSE-1.2	Spatial Database Managements								
	DSE-1.3	Disaster Forecasting and Planning								
	DSE-2.1	Cultural Geography	42	3	60	25	30	2	100	3
	DSE-2.2	Geoinformatics for Watershed Analysis								
	DSE-2.3	Hydro-Meteorological Hazards								
RM-1	Research Methodology	42	3	60	25	30	2	100	3	
Eighth	DSC.T-18	Sustainable Soil Resource Management	42	3	60	21	40	2	100	3
	DSC.P-18	Soil Mapping Techniques	56	4	25	9	25	2	50	2
	DSC.T-19	Agriculture & Food Security	42	3	60	21	40	2	100	3
	DSC.P-19	Agriculture Mapping Techniques	56	4	25	9	25	2	50	2
	DSC.T-20	Climate Change: Vulnerability and Adaptation	56	4	60	21	40	2	100	4
	DSE-3.1	Political Geography	42	3	60	21	40	2	100	3
	DSE-3.2	Landscape Ecology and Landuse Planning								
	DSE-3.3	Coastal Hazards Management								
	DSE-4.1	Karnataka Geography	42	3	60	21	40	2	100	3
	DSE-4.2	Geoinformatics for Coastal Zone Management								
	DSE-4.3	Land Degradation & Desertification								
	OR									
	DSC.RP-1	Research Project	84	6	75	25	75	2	150	6
	DSC.FV-1	Field Visit	56	4	50	18	50	2	100	4
DSC.ST-1	Study Tour	56	4	50	18	50	2	100	4	
DSC.INT-2	Internship	84		75	25	75	2	150	6	

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					Theory / Practical						Theory / Practical
				Theor y / Practi cal	Max.	Min.	IA	Theor y / Practi cal			
Ninth	DSC.T-21	Sustainable Water Resource Management	42	3	60	21	40	2	100	3	
	DSC.P-21	Water Resource Mapping	56	4	25	9	25	2	50	2	
	DSC.T-22	Sustainable Forest Resource Management	42	3	60	21	40	2	100	3	
	DSC.P-22	Forest Resource Mapping Techniques	56	4	30	9	20	2	50	2	
	DSC.T-23	Regional Planning & Development	56	4	60	21	40	2	100	4	
	DSE-6.1	Trade & Transport Geography	42	3	60	21	40	2	100	3	
	DSE-6.2	Tourism Geography									
	DSE-6.3	Biogeography									
OE-5	Climate Action	42	3	60	21	40	2	100	3		
With the Specialization of Geoinformatics											
Ninth	DSC.GI.T-21	Remote Sensing for Water Resource Management	42	3	60	21	40	2	100	3	
	DSC.GI.P-21	Water Resource Mapping	56	4	25	9	25	2	50	2	
	DSC.GI.T-22	Geographic Information Systems for Soil Resource Management	42	3	60	21	40	2	100	3	
	DSC.GI.P-22	Soil Resource Mapping Techniques	56	4	30	9	20	2	50	2	
	DSC.GI.T-23	GIS Customization	56	4	60	21	40	2	100	4	
	DSE-GI.6.1	Geoinformatics for Forest Resource Management /	42	3	60	21	40	2	100	3	
	DSE-GI.6.2	Web-GIS									
	OE-GI.5	Climate Action	42	3	60	21	40	2	100	3	
With the Specialization of Natural Disaster Management											
Ninth	DSC.NDM.T-21	Geospatial Applications for Disaster Management	42	3	60	21	40	2	100	3	
	DSC.NDM.P-21	GA for Disaster Management	56	4	25	9	25	2	50	2	
	DSC.NDM.T-22	Geoinformatics for Biological Disasters and Public Health Management	42	3	60	21	40	2	100	3	
	DSC.NDM.P-22	Biological Disaster & Public Health	56	4	30	9	20	2	50	2	
	DSC.NDM.T-23	Disaster Risk Reduction & Response	56	4	60	21	40	2	100	4	
	DSE-NDM-6.1	Policy, Institution, Governance for Disaster Management	42	3	60	21	40	2	100	3	
	DSE-NDM-6.2	Geoinformatics for Drought Monitoring in India									
OE-NDM-5	Climate Action	42	3	60	21	40	2	100	3		
Common for Geography, Geoinformatics & Natural Disaster Management											
Tenth	DSC.RP-1	Research Project	84	6	75	27	75	2	150	6	
	DSC.FV-1	Field Visit	56	4	50	18	50	2	100	4	
	DSC.ST-1	Study Tour	56	4	50	18	50	2	100	4	
	DSC.INT-2	Internship	84	6	75	27	75	2	150	6	