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TENTATIVE TEACHING PLAN-DEPARTMENT OF GEOGRAPHY				
CLASS : MA		SEMESTER: I	SESSION: 2023-24/2024-25	
NAME OF PAPER : Principles of Remote Sensing & Applications			CREDIT: 4 Credits	
MONTH	WEEK	TOPICS	NO OF LECTURES	REMARKS
AUGUST	1	Basics of Remote Sensing	4	FTF/Online Mode
	2	Remote Sensing: Definition	4	FTF/Online Mode
	3	Interaction of Electro-Magnetic Radiation (EMR) with Atmosphere and Earth surface	4	FTF/Online Mode
	4	Sensors and remote sensing data products.	4	FTF/Online Mode
SEPTEMBER	1	Aerial Photographs and Photogrammetry	4	FTF/Online Mode
	2	Types of aerial photos, fundamentals of air photographs interpretation	4	FTF/Online Mode
	3	Geometry of aerial photographs: tilt and relief displacement.	4	FTF/Online Mode
	4	INTERNAL EVALUATION	4	FTF/Online Mode
OCTOBER	1	Digital Image Processing:	4	FTF/Online Mode
	2	Restoration	4	FTF/Online Mode
	3	Enhancement and Classification	4	FTF/Online Mode
	4	Supervised and unsupervised	4	FTF/Online Mode
NOVEMBER	1	Remote Sensing Applications	4	FTF/Online Mode
	2	Application of Remote Sensing in land use/land cover	4	FTF/Online Mode
	3	Application of Remote Sensing in soil and rocks mapping.	1	FTF/Online Mode
	4	INTERNAL EVALUATION	1	FTF/Online Mode
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Recommended Reading (Latest Editions) :

- Lillesand, T.M. & Kiefer, R.W. Remote Sensing and Image interpretation, Jhon Wiley & Sons, New York, 1987.
- Wolf, P.R. Elements of Photogrammetry, McGraw Hill, New York, 1983.
- Smith, H.T.V. Aerial Photographs and their Applications, Appleton Century Crafts, New York, 1943.
- American Society of Photogrammetry, Manual of Photogrammetry, Falls Church, 1980.
- American Society of Photogrammetry, Manual of Remote Sensing, Falls Church, 1983.
- Lindren, D.T. Landuse Planning and Remote Sensing, Niyheff, Dordrecht, 1985
- Siogal, B.S. and A.R. Gsillespio (eds.) Remote Sensing in Geology, Wiley, New York, 1980
- Muchrcke, P.C. Map Use-Reading Analysis and Interpretation, J.P. Publ. Madison, 1986
- Sprurr, S.H. Photogrammetry and Photo-Interpretation, Ronald Press, New York, 1960
- Avery, T.E. & Berlon, G.L. Interpretation of Aerial Photographs Burgess Minneapolis, 1985



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AISHE CODE- C-21911**TENTATIVE TEACHING PLAN-DEPARTMENT OF GEOGRAPHY****CLASS : MA****SEMESTER: I****SESSION: 2023-24/2024-25****NAME OF PAPER : ADVANCED GEOMORPHOLOGY****CREDIT : 4 Credits**

MONTH	WEEK	TOPICS	NO OF LECTURES	REMARKS
AUGUST	1	Nature, Scope, Trends and Development of Geomorphology	4	FTF/Online Mode
	2	Classical Landscape Evolution / Development Theories: (W.M. Davis, W. Penck)	4	FTF/Online Mode
	3	Classical Landscape Evolution / Development Theories: (L.C. King, Hack)	4	FTF/Online Mode
	4	Recent Trends in Geomorphology	4	FTF/Online Mode
SEPTEMBER	1	Tectonic processes and tectonic landforms	4	FTF/Online Mode
	2	Drainage patterns and systems, Periglacial processes and landforms	4	FTF/Online Mode
	3	Glacial processes and landforms, Arid processes and landforms, Fluvial processes and landforms, Karst Topography	4	FTF/Online Mode
	4	INTERNAL EVALUATION	4	FTF/Online Mode
OCTOBER	1	Interruptions in the evolution of landforms	4	FTF/Online Mode
	2	Polycyclic landforms Theories of Hill-slope Evolution	4	FTF/Online Mode
	3	Geomorphic Mapping Techniques	4	FTF/Online Mode
	4	Systems and Models in Geomorphology	4	FTF/Online Mode
NOVEMBER	1	Geomorphic Hazards and Mitigation Measures	4	FTF/Online Mode
	2	Geomorphology in Civil Engineering	4	FTF/Online Mode
	3	Soil and Geomorphology; Application of geomorphology in resource Management	1	FTF/Online Mode
	4	INTERNAL EVALUATION	1	FTF/Online Mode

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Recommended Reading (Latest Editions) :

- Bloom, A.L. (1978) : A Systematic Analysis of late Cenozoic Landforms, Englewe Cliffs, M.J. Prentice Hall.
- Conde, K.C. (1989) : Plate Tectonics and Crustal Evolution. Pergamon Press. New York.
- Chorley, R.J. (ed.) : Spatial Analysis in Geomorphology, London, Methuen.
- Chorley, R.J., S.A. Schum and D.E. Sugden (1985): Geomorphology, London
- Coats, D.R. (1981. edt.). Geomorphology and Engineering, George Allenand Unwin, London.
- Cooke, R.U. and J.C. Doornkamp (1974) : Geomorphology in Environmental Management, Oxford University Press.
- Embleton, C. and J. Thornes : Processes in Geomorphology, London, Edward Arnold.



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TENTATIVE TEACHING PLAN-DEPARTMENT OF GEOGRAPHY				
CLASS : MA		SEMESTER: III		SESSION: 2023-24/2024-25
NAME OF PAPER : ENVIRONMENTAL MANAGEMENT & SUSTAINABLE DEVELOPMENT				CREDIT : 4 Credits
MONTH	WEEK	TOPICS	NO OF LECTURES	REMARKS
AUGUST	1	Types of environmental problems	4	FTF/Online Mode
	2	Causes and consequences of environmental problems at global regional and local levels	4	FTF/Online Mode
	3	Global environmental change	4	FTF/Online Mode
	4	Natural disasters; Environmental Impact Assessment (EIA).	4	FTF/Online Mode
SEPTEMBER	1	Concepts of Sustainable Development	4	FTF/Online Mode
	2	Need of Sustainable Development	4	FTF/Online Mode
	3	Sustainable Mountain Agriculture and Livelihood.	4	FTF/Online Mode
	4	INTERNAL EVALUATION	4	FTF/Online Mode
OCTOBER	1	Concept of Environmental Management	4	FTF/Online Mode
	2	Approaches to Environmental Management	4	FTF/Online Mode
	3	Integrated Watershed Management	4	FTF/Online Mode
	4	Disaster Management	4	FTF/Online Mode
NOVEMBER	1	Environmental Changes – Causes & Consequences	4	FTF/Online Mode
	2	Environmental Planning & Sustainable Development	4	FTF/Online Mode
	3	Disaster Management; Climate Change and Adaptation	1	FTF/Online Mode
	4	INTERNAL EVALUATION	1	FTF/Online Mode
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Recommended Reading (Latest Editions) :

- Ahmad, Y.J., G.K. Sammy (1985): Guidelines to EIA in Developing Countries. Hordder & Stoughton, London.
- Brundland, G. (1988) Our Common Future, Report of the World Commission on Environment and Development, UN.
- Carpenter R A (ed) (1983): Natural Systems for Development: what planners need to know. Mc. Millan London.
- Cheremisinoff, P.N. & A.C. Morresi (1977): Environment Assessment and Impact studies Handbook. An Arbor, Mich: Anarbor Science.
- Wathern, Peter (1986): Enviromental Impact Assessment: Theory and Practice. Unwin & Hyman, London.
- Pande G.C. & D.C. Pandey (1999) : Environmental Development and Management: Strategies and Policies (ed.), New Delhi.





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TENTATIVE TEACHING PLAN-DEPARTMENT OF GEOGRAPHY

CLASS : MA
25

SEMESTER: III

SESSION: 2023-24/2024-

NAME OF PAPER : AGRICULTURE GEOGRAPHY & AGRO-ECOSYSTEM MANAGEMENT

CREDIT : 4 Credits

MONTH	WEEK	TOPICS	NO OF LECTURES	REMARKS
AUGUST	1	Definition, Nature, scope, Significance of Agricultural Geography	4	FTF/Online Mode
	2	Approaches to the study of Agricultural Geography	4	FTF/Online Mode
	3	Agricultural Land Use and Location Theories Agricultural types and their world distribution	4	FTF/Online Mode
	4	Spatial patterns of major commodities in each type	4	FTF/Online Mode
SEPTEMBER	1	Quantitative Techniques and methods in Agricultural Geography for measuring Agricultural Intensity, Agricultural Efficiency, Concentration and Diversification of Crops	4	FTF/Online Mode
	2	Methods of delimitation of crop Combination and Agricultural regions	4	FTF/Online Mode
	3	Whittlesey's classification of Agricultural regions of the world.	4	FTF/Online Mode
	4	INTERNAL EVALUATION	4	FTF/Online Mode
OCTOBER	1	Agro-ecosystem – connotation, components	4	FTF/Online Mode
	2	Agro-ecosystem - types and functioning	4	FTF/Online Mode
	3	Agro ecosystem degradation with special reference to Himalaya,	4	FTF/Online Mode
	4	Agroecosystem and agro- energy environment Management.	4	FTF/Online Mode
NOVEMBER	1	Problems of agriculture and agricultural planning in India	4	FTF/Online Mode
	2	salient features of agricultural development of Uttarakhand Himalaya	4	FTF/Online Mode
	3	management and planning of Uttarakhand Himalaya	1	FTF/Online Mode
	4	INTERNAL EVALUATION	1	FTF/Online Mode

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Recommended Reading (Latest Editions) :

- Bhalla, G.S. and Alagh, Y.K. (1979) performance of India, agriculture: a district-wise study, sterling, NewDelhi.
- Das, M.M. (1982) Peasant Agriculture in Assam, Inter India, NewDelhi.
- Gobind, N. (1986) Regional perspective in agriculture, concept, NewDelhi.
- Hussain, M. (1979) Agricultural Geography, Inter India, NewDelhi.
- Mergra, W.B. & Munton, R.J.C. (1971) Agricultural Geography, methuen,London.
- Mitchel, P. (1979) Agro-ecosystem, Inter India Publication,NewDelhi
- Shafi, M. (1984) Agricultural Productivity and Regional Imbalance, Concept, New Delhi.
- Singh J. & Dhillon, S.S. (1985) Agricultural Geography, Tata McGraw Hill, NewDelhi. Singh, J. (1974)



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TENTATIVE TEACHING PLAN-DEPARTMENT OF GEOGRAPHY				
CLASS : MA		SEMESTER: I	SESSION: 2023-24/2024-25	
NAME OF PAPER : ADVANCED GEOGRAPHY OF INDIA			CREDIT : 4 Credits	
MONTH	WEEK	TOPICS	NO OF LECTURES	REMARKS
AUGUST	1	Geological history, physiographic and drainage patterns and systems	4	FTF/Online Mode
	2	Climate including origin and mechanism of the Indian monsoon	4	FTF/Online Mode
	3	Soils and natural vegetation	4	FTF/Online Mode
	4	Distribution and utilization	4	FTF/Online Mode
SEPTEMBER	1	Population distribution, density and growth, population problems and policies. Sex and literacy differentials, Genesis of ethnic/racial diversities	4	FTF/Online Mode
	2	Tribal areas and their problems; trends of urbanization	4	FTF/Online Mode
	3	Population policy	4	FTF/Online Mode
	4	INTERNAL EVALUATION	4	FTF/Online Mode
OCTOBER	1	Agricultural efficiency and productivity, agricultural regionalization, green, white, blue and yellow revolutions	4	FTF/Online Mode
	2	Dry zone agriculture and agricultural land use policy. History of industrial development,	4	FTF/Online Mode
	3	Types of industries, new industrial policy industrial complexes and industrial, regionalization	4	FTF/Online Mode
	4	Study of the transport network development.	4	FTF/Online Mode
NOVEMBER	1	Detailed study of Kashmir region, Uttarakhand Himalaya	4	FTF/Online Mode
	2	Detailed study of Lower Ganga Plain, Chota-Nagpur Plateau,	4	FTF/Online Mode
	3	Detailed study of Thar Desert, Aravali uplands, Andhra Plateau and West Coast region	1	FTF/Online Mode
	4	INTERNAL EVALUATION	1	FTF/Online Mode
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Recommended Reading (Latest Editions) :

- Spate & Learmonth India and Pakistan
- Singh, R.L.(ed.) India, A Regional Geography
- Tiwari, R.C. Geography of India, Allahabad, 2003
- Gopalakrishnan, R. Geography of India, Jawahar Publishers
- Singh, Jagdish India: A Comprehensive Systematic Geography, Gyanodaya
- Pr., Gorakhpur, 2003
- Sen Gupta, P. Economic Regionalization of India, Census of India Publication, 1968





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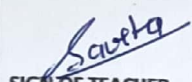
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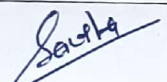
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TENTATIVE TEACHING PLAN-DEPARTMENT OF GEOGRAPHY				
CLASS : MA 25		SEMESTER: I	SESSION: 2023-24/2024-	
NAME OF PAPER : NATURAL RESOURCE MANAGEMENT			CREDIT : 4	
Credits				
MONTH	WEEK	TOPICS	NO OF LECTURES	REMARKS
AUGUST	1	Basic Framework: Concept	4	FTF/Online Mode
	2	Basic Framework: Definition	4	FTF/Online Mode
	3	Classification of Natural Resources	4	FTF/Online Mode
	4	Process of Natural Resource Development	4	FTF/Online Mode
SEPTEMBER	1	Resource Analysis	4	FTF/Online Mode
	2	Resource Mapping	4	FTF/Online Mode
	3	Natural Resources Information System	4	FTF/Online Mode
	4	INTERNAL EVALUATION	4	FTF/Online Mode
OCTOBER	1	Meaning, Scope, Types and Classification of Ecology and Ecosystem	4	FTF/Online Mode
	2	Functioning of Ecosystem	4	FTF/Online Mode
	3	Productivity of Ecosystem	4	FTF/Online Mode
	4	Tropic Levels, Food Chain and Food Web	4	FTF/Online Mode
NOVEMBER	1	Concept and Approaches of Natural Resource Management	4	FTF/Online Mode
	2	Community Based Natural Resource Management; Participatory Natural Resource Management	4	FTF/Online Mode
	3	Natural Resources Management and Sustainable Mountain Development	1	FTF/Online Mode
	4	INTERNAL EVALUATION	1	FTF/Online Mode


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Recommended Reading (Latest Editions) :

- Zimmerman, E.W., World Resources and Industries, Harper and Row, London, 1951
- Paul, R.E. et.al, Eco-science: Population, Resource and Environment, W.H. Freeman, San Francisco, 1977 Wiley, New York, 1977
- G. Simmons, The Ecology of Natural Resources, Edward Arnold, London, 1974
- ICIMOD, Mountains of the World –Ecosystem Services in a Time of Global and Climate Change: Seizing Opportunities– Meeting Challenges. Framework paper prepared for the Mountain Initiative of the Government of Nepal by ICIMOD and the Government of Nepal, Ministry of Environment, 2010



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TENTATIVE TEACHING PLAN-DEPARTMENT OF GEOGRAPHY				
CLASS : BA		SEMESTER: III	SESSION: 2024-25	
NAME OF PAPER : TOURISM GEOGRAPHY			CREDIT : 4 Credits	
MONTH	WEEK	TOPICS	NO OF LECTURES	REMARKS
AUGUST	1	Concept of Leisure and Tourism; Development of Tourism; Types of Tourism; Definition, Scope and Significance of Geography of Tourism	4	FTF/Online Mode
	2	Geographical Basis of Tourism; Resources and Infrastructure for Tourism: Transportation, Accommodation and Basic Infrastructure.	4	FTF/Online Mode
	3	Impact of Tourism: Physical, Economic, Social and Cultural Impacts	4	FTF/Online Mode
	4	Concept of Ecotourism; New Emerging Trends in Tourism. Statistics of tourism and data collection.	4	FTF/Online Mode
SEPTEMBER	1	Tourism Marketing: Marketing Concepts and Marketing in Tourism	4	FTF/Online Mode
	2	The Tourist Product; Segmentation- A Priori Segmentation; Tourism Circuits	4	FTF/Online Mode
	3	Tour Agencies. Components of a Tourism Plan	4	FTF/Online Mode
	4	INTERNAL EVALUATION + The Tourism Planning Process.	3+1	FTF/Online Mode
OCTOBER	1	Globalization and Tourism; Tourism in India; Resource and Growth	4	FTF/Online Mode
	2	National Tourism Policy in India	4	FTF/Online Mode
	3	Tourism Organizations. Role of WTO, IATA, UPTAA, AI, IATO, etc. in promotion and development of tourism	4	FTF/Online Mode
	4	Sustainable Tourism Development in Uttarakhand: Policies and Planning for Tourism Development	4	FTF/Online Mode
NOVEMBER	1	Tourism Carrying Capacity and Limits of Acceptable Change; Pro-Poor Tourism (PPT)	4	FTF/Online Mode
	2	Environmental, Cultural, Social and Historical Attractions with special reference to Uttarakhand Himalaya	4	FTF/Online Mode
	3	Framework for Monitoring Sustainability of Tourism in Uttarakhand	4	FTF/Online Mode
	4	INTERNAL EVALUATION	1	FTF/Online Mode
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Recommended Reading (Latest Editions) :

1. Bhatia A.K. (1978). Tourism in India. Sterling pub. New Delhi.
2. Burkarl, A.J. (1974). Tourism, Past, present and future Heineman London.
3. Gearing Charles, E (1976). Planning for Tourism development Praeger Pub, NewYork
4. Lawbon, F & Bauet B. (1977) Tourism and recreation Development mass, CBI pub.
5. Robinson H. (1976). A Geography of Tourism. MacDonald and Evans Ltd; London.
6. Douglas Pearce (1981). Topics in Applied Geography, Tourist Development. Longman London New York.

