University of Mumbai

Revised Syllabus w.e.f. Academic Year, 2017-18 (CBSGS)

S.Y.B.A. Geography, Semester- III

Paper-II: An Introduction to Climatology

COURSE CODE: UAGEO 301 (2017-18), Credit - 3

	COURSE CODE. CHGEO 301 (2017 10), Credit	
Unit	I: Introduction to Climatology	09 (lectures)
1.1	Definition, nature, scope and branches of climatology	
1.2	Concept and elements of weather and climate	
1.3	Composition and structure of atmosphere	
1.4	Insolation: Vertical and horizontal distribution of temperature	
Unit	II: Air Pressure and Atmospheric Circulation	09 (lectures)
2.1	Air pressure: Influencing factors – Tricellular model	
2.2	Horizontal distribution of air pressure	
2.3	Wind: Types of winds – global, regional and local	
2.4	Upper air circulation – jet stream (concept, origin and effects)	
Unit	III: Humidity and Precipitation	09 (lectures)
2.1	TT '1'. TD 1 1 . 1 . 1	
3.1	Humidity: Types - absolute, relative and specific	
3.2	Condensation and its forms	
3.3	Precipitation and its types	
3.4	Global distribution of rainfall	
Unit-	IV: Climate and Weather Phenomena	09 (lectures)
4.1	Cyclones: tropical and temperate	
4.2	Anti-cyclones and tornados	
4.3	El Nino and Indian monsoon	
4.4	Global warming and climate change	
7.7	Ciobai waining and chinate change	
Unit-	-V: Practical Component	09 (lectures)
5.1	IMD: Weather signs and symbols, Interpretation of IMD weather	
5.2	maps Construction of :wind rose, climograph and hythergraph	

Reference Books:-

- Ahrens, C.D. (2012): Essentials of Meteorology: An Invitation to the Atmosphere;
 Cengage Learning, Boston
- Ahrens, C.D., Jackson, P.L., Jackson, C.E.J. and Jackson, C.E.O. (2012):
 Meteorology Today: An Introduction to Weather, Climate and the
 Environment; Cengage Learning; Boston
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- Chawan S.V. (ed) (2015): Physical Geography, Paper I, Published by Director (I/C), Institute of Distance and Open Learning, University of Mumbai.
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 M.I.T. Press Design Dept. U.S.A.
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- Shinde P.; Pednekar H. et.al. (2010): Introduction to Geography, Sheth Publishers Pvt.Ltd., Mumbai.
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University of Mumbai Question Paper Pattern

Revised Syllabus w.e.f. Academic Year, 2017-18 (CBSGS)

S.Y.B.A. Geography, Semester- III Paper-II: An Introduction to Climatology

COURSE CODE: UAGEO 301 (2017-18)

Duration: 3 hours Marks: 100

- **N.B.** 1. All questions are compulsory and carry equal marks.
 - 2. Use of Map Stencils and simple Calculator is allowed.
 - 3. Attach appendix along with answer paper.

Page 2 of 3

Q. 1	Practical, Unit – V	20 marks	
	A) Weather signs and symbols	(05 Marks)	
	B) Interpretation / question answers on weather maps	(05 Marks)	
	C) Construction of one diagram based on climatic data	(10 Marks)	
0.2	TImit T	20 Marika	
Q. 2	Unit-I	20 Marks	
	OR		
Q.2	Unit-I	20 Marks	
Q. 3	Unit-II	20 Marks	
	OR		
Q. 3	Unit-II	20 Marks	
0.4		2025	
Q. 4	Unit-III	20 Marks	
	OR		
Q. 4	Unit-III	20 Marks	
1000000			
Q. 5	Unit-IV	20 Marks	
OR			
Q. 5	Unit-IV	20 Marks	

University of Mumbai

Revised Syllabus w.e.f. Academic Year, 2017-18 (CBSGS)

S.Y.B.A. Geography - Semester- III

Paper-III: Physical Geography of India

COURSE CODE: UAGEO 302 (2017-18), Credit - 3

Unit	-I: Introduction of India	09 (lectures)
1.1	India: Location, extent and significance	
1.2	India: Major physiographic divisions and their formation	
1.3	Mountainous region of India	
1.4	North Indian plains	
1.5	Peninsular plateau of India	
1.6	Coastal plains and islands of India	
Unit	-II: Drainage and Climate	09 (lectures)
2.1	Drainage System in India (Himalayan and Peninsular drainage	
	system)	
2.2	Major Himalayan rivers of India	
2.3	Major Peninsular Rivers of India	
2.4	Major lakes of India	
2.5	Seasons in India	
2.6	Distribution of rainfall in India	
Unit	-III: Soils and Natural Vegetation	09 (lectures)
3.1	Classification of soils of India	
3.2	Problems associated with soils and its remedies in India	
3.3	Classification of Forest in India	
3.4	Importance of Forest in Indian context	
3.5	Deforestation and measures of forests conservation in India	
Unit	-IV: Mineral and Power Resources	09

4.1	Distribution of Metallic Minerals in India: Iron ore, manganese,	
	bauxite, copper and other important minerals	
4.2	Distribution of Non-Metallic Minerals in India: Mica, limestone,	
	gypsum, clay and other important minerals	
4.3	Distribution of Power Resources : Coal, mineral oil and natural gas,	
	thorium and uranium	
4.4	Depletion and conservation of minerals and power resources in India	
Unit-	-V: Practical Component	09 (lectures)
Cint	v. Tractical Component	05 (10000105)
5.1	Map filling: Showing geographical features in the Map of India	
	(Related to physiography)	
5.2	Map Scale – Types, Conversion and drawing	

Reference books:-

- Deshpande C.D. (1992): India: A Regional Interpretation, Northern Book Centre, New Delhi.
- Bharucha, F.R. (1983): A text book of the plant geography of India, Oxford Unievrsity Press, Bombay.
- Dikshit, K.R.(1991): Environment, Forest Ecology and man in the Western Ghats-The Case of Mahabaleshwar Plateau, Rawat Publications, New Delhi.
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- 5. Khullar, D.R. (2014): India: A Comprehensive Geography; Kalyani Publishers
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- 10. Sharma T.C. (2013) Economic Geography of India; Rawat Publications, New Delhi.

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- 12. Shinde P.; Pednekar H. et.al. (2011): Economic Geography of India, SYBA paper II
 Sheth Publishers, Pvt.Ltd., Mumbai
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- 15. Majid Hussain (2014, 5th edition): Geography of India, McGraw Hill Education (India) Private Ltd, Uttar Pradesh..

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Revised Syllabus w.e.f. Academic Year, 2017-18 (CBSGS)

S.Y.B.A. Geography, Semester- III

Paper-III: Physical Geography of India

Durati	ion: 3 hours	Marks: 100
N.B. 1	. All questions are compulsory and car	rry equal marks.
2	. Use of Map Stencils and simple Cald	culator is allowed.
3	. Attach appendix along with answer	paper.
Q. 1	Practical, Unit - V	
	5.1	10 Marks
	5.2	10 Marks
Q. 2	Unit-I	20 Marks
		OR
Q.2	Unit-I	20 Marks
Q. 3	Unit-II	20 Marks
	8)	OR
Q. 3	Unit-II	20 Marks
Q. 4	Unit-III	20 Marks
		OR
Q. 4	Unit-III	20 Marks
Q. 5	Unit-IV	20 Marks
		OR
Q. 5	Unit-IV	20 Marks

University of Mumbai Revised Syllabus w.e.f. Academic Year, 2017-18 (CBSGS)

S.Y.B.A. Geography, Semester- IV

Paper-II: Introduction to Oceanography

COURSE CODE: UAGEO 402 (2017-18), Credit - 3

Unit-	I: Nature of Oceanography	09 (lectures)
1.1	Origin and Development of Oceanography	05 (10001105)
1.2	Oceanography: meaning, definition, nature and scope	
1.3	Branches of oceanography: physical chemical and biological	
1.4	Major Oceans and its characteristic features	
Unit-	II: Bottom Relief and Ocean Water	09 (lectures)
2.1	Ocean floor and its characteristics	05 (20002200)
2.2	Composition of ocean water	
2.3	Factors affecting ocean water temperature	
2.4	Vertical and horizontal distribution of ocean temperature	
2.5	Factors affecting salinity of ocean water	
2.6	Vertical and horizontal distribution of oceanic salinity	
Unit-	III: Movements of Ocean Water	09 (lectures)
3.1	Waves- Formation and types	10 10
3.2	Tsunami and their effects on coast	
3.3	Concept and types of Tides	
3.4	Equilibrium theory of Tides	
3.5	Ocean Currents – types and their effects	
Unit-l	IV: Man and Ocean	09 (lectures)
4.1	El- Niño and La-Niña phenomenon	
4.2	Coral reefs and their importance	
4.3	Marine Ecosystem	
4.4	Marine pollution	
4.5	Oceans and global climate change	
Unit-	V: Practical Component	09 (lectures)
5.1	Map filling : Related to Oceanography	
5.2	Reading and Interpretation of navigation charts and bathymetric maps	
-		OSS .

Reference books:-

- 1. Bhatt, J.J. 91978): Exploring the Planet Ocean, D.Von Nostrand Co.New York.
- Birla Economic Research Foundation, economic Research Division 91992): The Oceans, Allied Publishers Ltd. New Delhi.
- Chandra, S. and Others (eds).(1993): The Indian Ocean and its islands: Strategic Scientific and Historical perspectives, sage Publications, New Delhi.
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- Sharma, R.C. (ed)(1985): The Oceans: realities and Prospects, Rajesh Publications, New Delhi.
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 Commission on the Oceans, International Ocean Institute,
 Operational centre, Madras, India.
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Revised Syllabus w.e.f. Academic Year, 2017-18 (CBSCS) S.Y.B.A. Geography, Semester- IV

Paper-II- (Introduction to Oceanography)

Duration	on: 3 hours	Marks: 100	
N.B. 1.	N.B. 1. All questions are compulsory and carry equal marks.		
2.	Use of Map Stencils and simple Calcu	ılator is allowed.	
3.	Attach appendix along with answer pa	aper.	
Q.1	Practical Unit V: 5.1	10 Marks	
	5.2	10 Marks	
Q. 2	Unit-I	20 Marks	
0.00000		OR	
Q.2	Unit-I	20 Marks	
Q. 3	Unit-II	20 Marks	
	OR		

Q. 3	Unit-II	20 Marks
		Size Size
Q. 4	Unit-III	20 Marks
	C	R
Q. 4	Unit-III	20 Marks
Q. 5	Unit-IV	20 Marks
	C	OR .
Q. 5	Unit-IV	20 Marks

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Revised Syllabus w.e.f. Academic Year, 2017-18 (CBSGS)

S.Y.B.A./ S.Y.B.Sc. Geography, Semester- IV

Paper-III: Agriculture Geography of India

COURSE CODE: UAGEO401 (2017-18) Credit - 3

Unit-I	: Introduction to Agricultural Geography	09 (lectures)	
1.1	Definition, nature and scope of agricultural geography		
1.2	Approaches: regional approach, systematic approach, commodity		
	approach, recent approaches		
1.3	Importance of agriculture in Indian economy		
1.4	Factors influencing agriculture in India		
1.5	India a agro-product exporting country		
Unit-I	I: Introduction to Indian Agriculture	09 (lectures)	
2.1	Salient features of Indian agriculture		
2.2	Types of farming in India		
2.3	Major crops of India		
2.4	Agro- climatic regions of India		
2.5	Problems associated with Indian agriculture (Natural, Socio-		
	Economic and Political)		
Unit-l	II: Green Revolution in India	09 (lectures)	
3.1	Introduction of Green Revolution in India		
3.2	Components of Green Revolution		
3.3	Positive impacts of Green Revolution		
3.4	Negative impacts of Green Revolution		
3.5	Need for sustainable agriculture in India		
3.6	Agriculture in drought prone region and watershed management		
Unit-I	V: Recent Trends in Agriculture	09 (lectures)	
4.1	White revolution and livestock resources,		
4.2	Genetic engineering, tissue culture and horticulture		
4.3	Poly house agriculture		
4.4	Agro processing in India		
4.5	Agro-tourism		
4.6	Agro forestry		
	Unit- V		

	Practical Component	09 (lectures)
5.1	Interpretation/ question- answer on thematic maps related	
	to agriculture of India (NATMO and other)	
5.2	Drawing of Statistical Diagrams and Graphs: Simple line graphs,	
	multiple line, simple bar, compound bar and band graph	

Reference books:-

- 1. Bansil, B. C. (1975): 'Agricultural Problems of India', Delhi.
- Bayliss Smith, T.P. (1987): The Ecology of Agricultural Systems. Cambridge University Press, London.
- Berry, B.J.L. et. al.(1976): The Geography of Economic Systems. Prentice Hall, New York.
- 4. Gregor, H.P.: Geography of Agriculture. Prentice Hall, New York, 1970.
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- Singh, J. and Dhillon, S. S. (1984): 'Agricultural Geography', McGraw Hill, New Delhi.
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- 16. Symons, L. (1972): 'Agricultural Geography', Bell and Sons, London
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- Wigley, G.(1981), Tropical Agriculture: The Development of Production, 4th edition, Arnold, London

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Revised Syllabus w.e.f. Academic Year, 2017-18 (CBSGS)

S.Y.B.A. Geography, Semester- IV

Paper-III: Agriculture Geography of India COURSE CODE: UAGEO401 (2017-18)

Durat	ion: 3 hours	Marks: 100	
N.B. 1. All questions are compulsory and carry equal marks. 2. Use of Map Stencils and simple Calculator is allowed. 3. Attach appendix along with answer paper.			
Q. 1	Practical, Unit - V 5.1	10 Marks	
	5.2	10 Marks	
Q. 2	Unit-I OR	20 Marks	
Q.2	Unit-I	20 Marks	
Q. 3	Unit-II	20 Marks	
	OR		
Q. 3	Unit-II	20 Marks	
Q. 4	Unit-III	20 Marks	
	OR		
Q. 4	Unit-III	20 Marks	
Q. 5	Unit-IV	20 Marks	
OR			
Q. 5	Unit-IV	20 Marks	