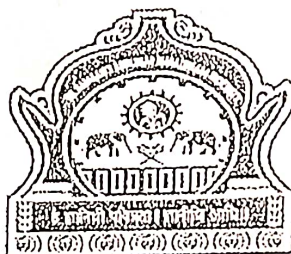


**DR. BABASAHEB AMBEDKAR
MARATHWADA UNIVERSITY, AURANGABAD**



Revised Syllabus of

B.A. Third Year - Geography

Semester-V & VI

(Choice Based Credit System)

[Effective from 2015-16 onwards]

1/2/2015
28/4/15

Dr. Babasaheb Ambedkar Marathwada University, Aurangabad

GEOGRAPHY

Curriculum Structure and Scheme of Evaluation for B.A. III

With effective from 2015-16

SEMISTER V – Subsidiary

Sr.No.	Paper Code	Paper No.	Name of Paper	Scheme of Teaching (Periods / Week)				Scheme of Evaluation		
				L	P	Total Credits	Theory	Theory	Practical/ Viva-voce	Total Marks
1	GEO 111	Geo. XI	Physical Geography Of India	4	--	4	4	30	--	30
2	GEO 112	Geo. XII	Geography of Environment	4	--	4	4	30	--	30
(A) Total of Semester-V				8	-	8	8	60	-	60

SEMISTER V -- MAIN

Sr. No.	Paper Code	Paper No.	Name of Paper	Scheme of Teaching (Periods / Week)				Scheme of Evaluation		
				L	P	Total Credits	Theory	Theory	Pract/ Viva-voce	Total Marks
1	GEO 113	Geo. XIII	Industrial geography of Maharashtra	4	--	4	4	30	--	30
(B) Total of Semester – V Main				4	-	4	4	30	--	30

- Total period per theory paper, per week -4
- Practical having 4 period per week
- Practical batch -- one batch of 20 students

**Dr. Babasaheb Ambedkar Marathwada University,
Aurangabad**

GEOGRAPHY

Curriculum Structure and Scheme of Evaluation for B.A. - III
With effective from 2015-16
SEMISTER VI - Subsidiary

Sr. No.	Paper Code	Paper No.	Name of Paper	Scheme of Teaching (Periods / Week)				Scheme of Evaluation		
				L	P	Total Credits	Theory	Theory	Practical/ Viva-voce	Total Marks
1	GEO 114	Geo. XIV	Agricultural geography of India	4	--	4	4	30	--	30
2	GEO 115	Geo. XV	Geography of natural calamity	4	--	4	4	30	--	30
Total Semester VI (Subsidiary)				8	--	8	8	60	--	60

Annual Practical - SEMISTER V & VI - Subsidiary

Sr. No.	Paper Code	Paper No.	Name of Paper	Scheme of Teaching (Periods / Week)				Scheme of Evaluation		
				L	P	Total Credits	Theory	Theory	Practical/ Viva-voce	Total Marks
1	GEO 116	Geo. Prct. XVI	Practical- XVI	-	4	4	--	-	80	80

- Total period per theory paper, per week -4
- Practical having 4 period per week
- Practical batch - one batch of 20 students

**Dr. Babasaheb Ambedkar Marathwada University,
Aurangabad**

GEOGRAPHY

Curriculum Structure and Scheme of Evaluation for B.A. III
With effective from 2015-16

SEMESTER VI - MAIN

Sr. No.	Paper Code	Paper No.	Name of Paper	Scheme of Teaching (Periods / Week)				Scheme of Evaluation		
				L	P	Total Credits	Theory	Theory	Pract./ Viva-voce	Total Marks
1	GEO 117	Geo. XVII	Bio-geography	4	--	4	4	30	--	30
Total Semester VI (Main)				4	--	4	4	30	--	30

Annual Practical - SEMESTER V & VI - MAIN

Sr. No.	Paper Code	Paper No.	Name of Paper	Scheme of Teaching (Periods / Week)				Scheme of Evaluation		
				L	P	Total Credits	Theory	Theory	Pract./ Viva-voce	Total Marks
1	GEO 118	XVIII	Practical (MAIN)	-	4	4	--	-	40	40
	GEO 119	Geo. Prct. XIX	Project Work (MAIN) (Practical)	-	4	4	--	-	100	100
Total					8	8	-	-	140	140

- Total period per theory paper, per week -4
- Practical having 4 period per week
- Practical batch - one batch of 20 students

**B.A. III Year
Semester-V- Subsidiary
Paper No.XI**

Mark : 30

Physical Geography of India

- Unit I** : India in the context of south east and south Asia.
India: a land of diversities, unity within diversities,
Shape, size, physical landscape of India
- Unit II** : Drainage systems of India their functional
significance Climate: Regional and seasonal
variations of climate. The monsoons.
- Unit III** : Soil types of India their distribution and
characteristics
- Unit IV** : Natural Vegetation: Forest types and their
distribution. In India.

Suggested Readings :

- 1) **C.D. Deshpande** :- India A regional Interpretation Northern
Book center New Delhi.
- 2) **Farmer B.H.** :- An Introduction to south Asia Methuen
London 1983.
- 3) **Govt of India** :- Reference Annual 2001.
- 4) **Mohammad Shafi** :- Geography of south Asia Mac Millan and
co. Calcutta.
- 5) **Singh R.L.** :- India a regional Geography National
Geographical society India.
- 6) **Wadia D.N** :- Geology of India McMillan and co. London
1967.

B.A. III Year
Semester-V- Subsidiary
Paper No.XII

Mark : 30

Geography of Environment

- Unit I** : Definition of environment science, nature and scope of environment, Types of environment.
- Unit II** : Ecology, Abiotic or physical factors, Temperature, soil, water, atmosphere, Biotic or Non Physical factors, organism, population and Biotic community.
- Unit III** : Ecosystem coordinal principles of Ecosystem. structure of Ecosystem (Producer, Consumer, Decomposer), Nutrient Cycling (Carbon cycle, oxygen cycle, Nitrogen cycle), Function of Ecosystem, Energy flow, food chain, food web, Ecological pyramid.
Types of Ecosystem (Natural Ecosystem and Cultural Ecosystem)
- Unit IV** : Problems of Ecosystem and environment. Global warming, food security, Deforestation, Plastic bags, Acid rainfall.

Suggested Readings

- | | |
|--|----------------------------|
| 1. Environmental Science | Bernarl Nebel |
| 2. Introduction to Environmental study | J. Turk |
| 3. Environmental Science | W.R. Ahirao |
| 4. Ecology | E.P. Odum |
| 5. Environmental Protection | Parab Diwan |
| 6. पर्यावरण विज्ञान | प्रा.अहिराव व प्रा. अलिझाड |
| 7. पर्यावरणशास्त्र | डॉ. जयकुमार मगर |
| 8. पर्यावरणशास्त्र | डॉ. विठ्ठल धारपुरे |

30
30
20
/

20

B.A. III Year
Semester-V- Main
Paper No.XIII

Mark : 30

Industrial Geography of Maharashtra

- Unit I** : Nature, scope and recent developments of Industry In Maharashtra. Elements and factors of localization of Industries.
- Unit II** : Distribution and spatial pattern of Industries in Maharashtra.
1. Cotton and Textile Industries
 2. Petro chemical Industries
 3. Sugar cane Industries
 4. Automobile Industries
- Unit III** : Industrial belt in Maharashtra and their Characteristics, Impact of industries on economic development of Maharashtra.
- Unit IV** : Role of globalization Industrial sector, shifting of industries and its impact on the urban fringe, Changing industrial policy in Maharashtra.

Suggested Readings

1. Alexander J.W. Economic Geography Prentice Hall Engle wood cliffs 1988.
2. डॉ. पांडुरंग केचे महाराष्ट्राचा भूगोल
3. डॉ. सुभाष सारंग महाराष्ट्राचा भूगोल
4. डॉ. सुरेश फुले महाराष्ट्राचा भूगोल
5. ए.बी.सवदी द मेगा स्टेट महाराष्ट्रा

**B.A. IIIrd Year Geography
Semester-VI- Subsidiary
Paper No. XIV**

Mark : 30

Agricultural Geography of India

- Unit I : Nature, scope significance and development of Agricultural geography. Origin and dispersal of Agricultural in India.
- Unit II : Agriculture in India: Agricultural landuse, cropping Pattern, Regional pattern of productivity in India. Agricultural policy in India
- Unit III : Distribution and production of major crops in India
1) Rice 2) Wheat 3) Jowar
4) Cotton 5) Sugarcane 6) Tea
- Unit IV : Green Revolution in India.

Suggested Readings

1. Gregor H.P Geography of Agriculture prentice Hall
New York 1970
2. Harlshorn T.N. and Economic Georaphy Prentice Hall New
Alexander. J.W. Delhi.
3. Singh J and Dhillon Agricultural Geography Tata Mcgraw Hill
S.S. Pub New Delhi 1988.
4. Tarrant J.R. Agricultural Geography wiley New York
1974.
5. Mazid Hussain Agricultural Geography.

B.A. III Year
Semester-VI- Subsidiary
Paper No. XV

Mark : 30

Geography of Natural Calamities

- Unit I** : Definition Nature and scope of Natural Calamities
Unit II : Earthquake, and volcano, causes and effect of Earthquake and volcano, world distribution of earthquake and volcano.
Unit III : drought and floods
1. Meteorological drought
2. Hydrological drought.
3. Agricultural drought.
causes and effects of drought, drought-prone-areas
Flood cause and effects
Biological Hazards
Unit IV : Global warming and green House effects,
Ozone deflation, Pollution Types, (Air, Water, and Soil)

Suggested Readings

- | | |
|-------------------------------|---|
| 1. Biogeography | H. Robinson |
| 2. World Resources | 1990-91 |
| 3. Man, space and Environment | P.W. English and R.C. Mayfield |
| 4. Atmospheric pollution | Elsomderekar |
| 5. Environmental Management | L.R. Singh , R.C. Tiwari and
R.P. Shrivastav |
| 6. पर्यावरण विज्ञान | प्रा.अहिरराव व प्रा. अलिशाड |
| 7. पर्यावरणशास्त्र | डॉ. जयकुमार मगर |
| 8. पर्यावरणशास्त्र | डॉ. विठ्ठल धारपुरे |

B.A. III Year
ANNUAL PRACTICAL FOR SUBSIDIARY
(V & VI Semester)
Geography Practical
Paper - XVI (SUB)

	Marks - 80
Unit 1 - Measures of Central Tendency -	Marks - 15
i. Mean	
ii. Median	
iii. Mode	
Unit 2 - Measures of Deviation -	Marks - 15
i. Mean Deviation	
ii. Quartile Deviation	
iii. Standard Deviation	
Unit 3- Correlation -	Marks - 10
i) Spearman's Method	
ii) Karl Pearson's Method	
Unit 4- i. Regression equation by Least Square Method	Marks - 10
ii. Regression Line 'X' on 'Y'	
iii. Regression Line 'Y' on 'X'	
iv. Chi-Square Test	
Unit 5- Participation in Geographical Excursion and Report Writing	Marks - 20
Unit 6- Certified Journal and Viva - voce	Marks - 10

Suggested Readings -

1. Elements of Practical Geography - Singh R.L.
2. Statistical Geography - Zamir Alvi
3. Statistical Geography - Negi B.S.
4. Practical Geography - Dr. Jaykumar Magar (Marathi Version)
5. Practical Geography - Dr. Kumbhar (Marathi Version)
6. Practical Geography - Dr. Nagtode (Marathi Version)

**B.A. III Year
Semester-VI- Main
Paper No.XVII**

Mark : 30

Biogeography

- Unit I** : Nature, Scope and significance of Biogeography.
- Unit II** : Environment, Habitat and plant animal association, Biome types. Darwin's theory of Evolution.
- Unit III** : Elements of Plant geography, distribution of forests, successions in newly Formed landforms. Examples from flood plains and Glacial fore fields.
- Unit IV** : Zoo-geography and its Environmental Relationship Ecosystem forms and function. National forest Policy of India

Suggested Readings

- 1 Agarwal D.P. Man and Environment in India Through Ages Book and books 1992.
- 2 Bradshaw M.J. Earth and Living Planet ELBS London.
- 3 Gaur R. Environment and Ecology of Early man in Northern India R.B. Publication corporation 1987.
- 4 Hugget R.J. Fundamentals of Biogeography Rout ledge U.S.A. 1998.
- 5 Mathus H.S. Essentials of Biogeography Anju Printers Jaipur 1998.

**B.A. III Year
Geography Practical
Paper - XVIII (MAIN)**

Marks - 40

Unit 1 - A) Introduction of Instrumental Survey

Marks - 5

- 1) Chain and Tape Survey
- 2) Plane Table Survey
- 3) Prismatic Compass Survey

B) Field Survey using Plane table and prismatic compass

Marks - 10

- i) Open Traverse Method
- ii) Close Traverse Method

Unit 2 - A) Representation of Bearing -

Marks - 10

- i) Whole Circle Bearing
- ii) Reduced Bearing
- iii) FB, BB of WCB
- iv) FB, BB of RB
- v) Conversion of Bearing -
 - a) WCB into RB
 - b) RB into WCB

B) Correction of Bearing

Marks - 5

- ii. Closing Error By Bowditch Method
- iii Determination of the Height with the Help of Abney Level

Unit 3 - Certified Journal and Viva - Voce

Marks - 10

Suggested Readings -

1. Elements of Practical Geography - Singh R.L.
2. Statistical Geography - Zamir Alvi
3. Statistical Geography - Negi B.S.
4. Practical Geography - Dr. Jaykumar Magar (Marathi Version)
5. Practical Geography - Dr. Kumbhar (Marathi Version)
6. Practical Geography - Dr. Nagtode (Marathi Version)

B.A. III Year
Project Work
Paper - XIX (MAIN - Practical)
Marks - 100

- * **Report writing - 80 Marks**
- * **Presentation - 20 Marks**

Candidates will be required to prepare a project report on any one topic. The topic for project may be selected from the list of suggested assignments given below or candidate can also take up a project of his / her choice in consultation with teachers of the department of geography, but the selection of the project must be related to the geographical or environmental topic / issues.

Topics / Issues for project:

- 1) Physical features related to the local level such as drainage pattern, slope analysis, soil and rocks type. Physiography of the region.
- 2) Impact of climate on agriculture, Vegetation, Biotic resources, Occupation and food habits of selected area.
- 3) Resources of selected area - agriculture, water, energy, minerals, soil, vegetation, biotic resources.
- 4) Social, economical, demographical, occupational, cultural, historical study of the selected area.
- 5) Environmental study of the selected area - Environmental degradation, sources of pollution of water bodies in the locality and determine the quality of water, sources of air pollution and quality of air, sources of land pollution and soil quality, sources of noise pollution and its consequences.
- 6) Study of disasters like earthquake, draughts, floods, landslides, cyclones, famines, hailstones.
- 7) Agriculture - Landuse pattern, crop combination, crop concentration and diversification, cropping pattern, agricultural production and productivity, any other issues related with agriculture.
- 8) Urban planning and landuse management, urban morphology, urban growth, CBD, functional classification of town, problems of urban development, rural settlement site and structure, features of rural settlements.
- 9) Distribution of diseases, availability of health facilities, geographical / social / economic / environmental factors affecting human health and diseases arising from them.
- 10) Transportation Network & Connectivity, availability of means of transportation, number of various types of vehicles, transportation system and local development, accessibility & flowchart, transportations and frequency of accidents.

Report writing should be as per the following guidelines

- 1) *Suitable title of the project.*
- 2) *Introduction*
- 3) *Study area*
- 4) *Significance of the project.*
- 5) *Objectives of the project.*
- 6) *Project methodology. (Collection of primary / secondary data, relevant statistical techniques, preparation of questionnaire, schedule maps, graphs, diagrams & photos, analysis, interpretation and report writing)*
- 7) *Chapter scheme. (Minimum 5 chapters)*
- 8) *Bibliography*

Notes:

- Each student will prepare an individual project report applying the project methodology.
- A group of maximum five students may work on same topic under the guidance of a teacher.
- The actual work of the project should be carried out throughout the year. Topic must be select after the admission to the course.
- Project report should be checked & certified by guiding teacher before final submission.
- Student should submit two hard copy (bind) and softcopy (CD) of Project report to department of geography before one month of commencement of university examinations.
- The project report will have preliminary pages such as Cover Page, Declaration by Candidate, Certificate by Guide, Acknowledgement, Contents, List of tables, maps, graphs, diagrams, photos etc.
- The soft copy (CD) of the project work should be prepared in Microsoft Word 2007, For English - font Times New Roman, font size 14, line spacing 1.5, margins - left 1.5", right-1", top -1", bottom 1", page numbers in footer, For Marathi language use APS / ISM software.
- The page count of the project report should be about 75 to 100 pages including figures, tables, maps, photographs, references, appendices, bibliography etc.
- The assessment of the project and viva-voce will be conducted in the presence of external examiner appointed by the university and the internal examiner.
- Marking scheme - Report Writing - 80 Marks (Project Content - 50 marks, follow-up of research methodology - 30 Marks), Viva-voce - 20 Marks. Total Marks - 100.

Suggested Readings:

- Creswell, J. (1998). Qualitative inquiry and research design: Choosing among five traditions. Thousand Oaks, California: Sage Publications.
- Franklin, M.I. (2012). Understanding Research: Coping with the Quantitative-Qualitative Divide. London and New York: Routledge.
- Dikshit, R. D. 2003. The Art and Science of Geography: Integrated Readings. Prentice Hall of India, New Delhi.
- Wolcott, H. 1995. The Art of Fieldwork. Alta Mira Press, Walnut Creek, CA.
- Aslam Mahmood : Statistical Methods in Geographical Studies, Rajesh Publications, New Delhi, 1993.
- C. B. Gupta : An Introduction to Statistical Methods, Vikas Publishing House, Delhi, 1974.
- S. Gregory, : Statistical Methods and the Geographers, Longman, London, 1964.
- A. Reza Hoshmand (second edition), : Statistical Methods for Environmental and Agricultural Sciences, CRC Press, New York, 1998.
- Elements of Practical Geography - Singh R.L.
- Statistical Geography - Zamir Alvi
- Statistical Geography - Negi B.S.
- Practical Geography - Dr. Jaykumar Magar (Marathi Version)
- Practical Geography - Dr. Kumbhar (Marathi Version)
- Practical Geography - Dr. Nagtode (Marathi Version)
- कार्लेकर श्रीकांत / काळे मोहन (२००७): भूगोलशास्त्रातील संशोधन पध्दती, डायमंड पब्लिकेशन्स, पुणे.
- कार्लेकर श्रीकांत (२०११): भूगोलशास्त्रातील संख्याशास्त्रीय पध्दती, डायमंड पब्लिकेशन्स, पुणे.
- कन्हाडे बी.एम.(२००७): 'शास्त्रीय संशोधन पद्धती', पिंपळापूर अॅण्ड कं. पब्लिशर्स, नागपूर
- डॉ. विवेक पाटकर (२००७): संशोधन मार्गावरील प्रवास, दि पॅकेज, मुंबई
- कायंदे, गं.वि. (२००४): 'संशोधन पद्धती', चैतन्य पब्लिकेशन्स, नाशिक
- जोशी बी.आर. (२००८) : 'सामाजिक शास्त्रातील संज्ञा सिद्धांताचा कोश', डायमंड पब्लिकेशन, पुणे
- भांडारकर, पु.ल. (१९९९): 'सामाजिक संशोधन पद्धती', विद्या बुक्स, औरंगाबाद

Dr. Patil W.B.
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