

**Punyashlok Ahilyadevi Holkar Solapur University,
Solapur**



NAAC Re Accredited – 2022 ‘B++’ Grade (CGPA 2.96)

Name of the Faculty: Science & Technology

NEP STRUCTURE 2020

Syllabus: Geography

**Name of the Course: B. A. (Semester I & II)
(Syllabus to be implemented from June 2024)**

B.A. I (Geography)
Semester I & II
Syllabus Structure (NEP June, 2024)

Level	Semester	Paper	Title of the paper	Lecture per week	Total Marks	Credit
100-200	I	DSC - I	Geomorphology	4	100	4
		OE / GE - I	Physical Geography of Maharashtra Or Science Technology and Development (STD)	2	50	2
		VSC - I	Introduction to Computer	2	50	2
	II	DSC - II	Human Geography	4	100	4
		OE / GE - II	Economic and Demographic Geography of Maharashtra Or Science Technology and Development (STD)	2	50	2
		VSC - II	Application of Computer in Geography	2	50	2
		SEC - I	Introduction to Tourism	2	50	2

2 Credits of Theory = 2 Hours of teaching per week

1 Credits of Practical = 2 Hours per week

DSC- Discipline Specific Course

VSC- Vocational Skill Course

OE / GE - Open Elective / Generic Elective

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Structure of Syllabus (NEP 2020)

B. A. Part- I Semester – I

Name of the Paper: Geomorphology

Paper Code: DSC - I

Total Lectures- 60

Course Credit: 4

Total Marks- 100

Course Objectives:

1. To introduce the latest concepts in Geomorphology.
2. To study the earth movements and Geomorphic process.
3. To study the theories and concepts in Geomorphology.
4. To study the Evolution of Landforms.

Course Outcomes:

1. Understand the basic concept in Geomorphology.
2. Remember study of the earth movements and Geomorphic process.
3. Understand the basic concept in geomorphology.
4. To understand the conceptual and dynamic aspects of landform development.

Contents of the course

Unit No.	Details	No. of Lectures/ Periods	No. of Credits
1	Introduction to Geomorphology 1.1 Meaning and Definition 1.2 Nature of Geomorphology 1.3 Scope of Geomorphology 1.4 Importance of Geomorphology	10	1
2	Earth and Earth Movements 2.1 Interior Structure of the earth 2.2 Continental Drift Theory of Alfred Wegner 2.3 Endogenic forces- Folding and Faulting 2.4 Sudden Movement- Earthquakes and Volcanoes	15	1
3	Rocks and Geomorphic Processes 1.1 Rocks: Types and characteristics 1.2 Weathering: Meaning and Types 1.3 Mass wasting	15	1

	1.4 Cycle of Erosion by W.M. Davis		
4	Evolution of Landforms (Erosional and Depositional) 2.1 Fluvial 2.2 Aeolian 2.3 Glacial 2.4 Coastal	20	1

References:

- 1) Worcester P.G (1969): A Textbook of Geomorphology, VAN Nostrand Reinhold Company, New York, U.S.A
- 2) Dayal P. (1996): Text Book of Geomorphology, Shukla Book Depot, Patana
- 3) Majid Husain (2001): Fundamentals of Physical Geography, Rawat Publications, Jaipur.
- 4) Singh Savindra (2003): Physical Geography, Prayag Pustak Bhavan, Allahabad.
- 5) Bloom A.L. (2004): Geomorphology, Waveland press INC.
- 6) Leong Goh Cheng (2013): Physical and Human Geography, Oxford University Press, New Delhi.
- 7) Maske and Nagare (2019): Geomorphology, Mayur Publication and Distributor, Solapur
- 8) Shinde Ankush and wagh Arjun (2023): An Introduction to Geomorphology, IIP Chikmangrul Karnataka
- 9) Magar Tanaji: Basic Concepts in Physical Geography- Think Tank Publication
- 10) दाते सु. प्र आणि सौ. दाते संजीवनी (2016): प्राकृतिक भूविज्ञान, के सागर पब्लिकेशन, पुणे
- 11) सवदी ए. बी. व कोळेकर पी.एस. (2008): भूगोलाची मुलतत्वे (खंड पहिला) निराली प्रकाशन, पुणे
- 12) खतीब के. ए. व भांजे बी. एम. (2013): प्राकृतिक भूगोल, संजोग प्रकाशन, कोल्हापूर.
- 13) मस्के शिवाजी, राऊत बापू व हरवाळकर दत्तात्रय (2022): भूरूपशास्त्र, निराली प्रकाशन, पुणे
- 14) दंडे व इतर: भूरूपशास्त्र, विद्याज्योती प्रकाशन, लातूर
- 15) लोंढे व नांगरे (2019): भूरूपशास्त्र, ज्योतिकिरण प्रकाशन, पुणे
- 16) बनसोडे एस. ए. व माने एस. पी (2019): भूरूपशास्त्र, रिजी प्रकाशन, पंजाब

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Structure of Syllabus (NEP2020)

B.A. Part- I Semester- I

Name of the Paper: Physical Geography of Maharashtra

Paper Code: OE / GE - I

Total Lecture- 30

Course Credit: 2

Total Marks- 50

Course Objective:

- 1) To examine various physiographic aspects and climate in Maharashtra and to analyze future prospect.
- 2) To know the soil, vegetation distribution and various natural resources of Maharashtra

Learning Outcome:

- 1) Understand the physical profile and climatic variation of Maharashtra.
- 2) Analyze correlation between the soil, vegetation and resources of Maharashtra

Content of the Course

Unit No	Details	No. of Lectures/ Period	No. of Credits
1	Physiography and Climate 1.1 Location 1.2 Physiography 1.3 Drainage Pattern 1.4 Seasons	15	1
2	Soil, Vegetation and Resources 2.1 Types of soil and soil conservation 2.2 Types of Vegetation and Forest Conservation 2.3 Mineral- Iron ore and Bauxite 2.4 Power Resources – Coal and Petroleum	15	1

References:

- 1) Arunachalam B., (1967), Maharashtra – A study in Physical and Regional Setting, Sheth and Co., Mumbai.
- 2) Deshpande, C. D. (1971). Geography of Maharashtra. National Book Trust, New Delhi.
- 3) भामरे एस. एम. (2013): महाराष्ट्राचा भूगोल, प्रशांत प्रकाशन, जळगाव.

- 4) हंगे ए. के. आणि वाघमारे एच एस. (2018): महाराष्ट्राचा भूगोल, कैलास प्रकाशन, औरंगाबाद
- 5) सवदी ए. बी. (2020): द मेगा स्टेट महाराष्ट्र, निराली प्रकाशन, पुणे.
- 6) खतीब के. ए.(2017): महाराष्ट्राचा भूगोल,के सागर प्रकाशन, पुणे
- 7) सवदी ए. बी.आणि कोळेकरपी. एस.(2022): महाराष्ट्राचा भूगोल, निराली प्रकाशन, पुणे
- 8) दास्ताने संतोष (2022): महाराष्ट्राचा भूगोल, दास्ताने रामचंद्र आणि कंपनी, पुणे

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Structure of Syllabus (NEP2020)

B. A. Part- I Semester- I

Name of the Paper: Science, Technology and Development (STD)

Paper Code: OE / GE - I

Total Lecture- 30

Course Credit: 2

Total Marks- 50

Course Objectives:

- 1) Provide knowledge to students about the development of science and technology and contribution of some eminent scientist.
- 2) To make acquaint the student with the dynamic aspects of development of science and technology.

Learning Outcomes:

- 1) To understand the basic concepts in Science Technology and Development.
- 2) To remember the ancient Indians scientists and their contribution in Science and Technology.

Topic No	Name of Topic and Details	No. of Lectures	No of Credits
1	Introduction of Science and Technology 1.1 Definition, Nature and Scope of STD 1.2 Fundamental concepts in scientific thinking 1.3 Science and superstitions 1.4 Scientific approach and social development	15	1
2	Science and Technology and Development 2.1 A brief survey of development of Science and Technology 2.2 Life sketches and scientific contribution of Dr. Homi Bhabha, Dr. A.P.J. Abdul Kalam, Albert Einstein & Dr. C. V. Raman	15	1

References:

- 1) Dury G.H. (1980): The Face of the Earth, Penguins.
- 2) Ernst W.G. (2000): Earth System – Process and Issues, Cambridge University press.
- 3) Encyclopedia of Science and Technology, Dreamland Publication

- 4) ICSSR (1983): A Survey of Research in Physical Geography, Concept, New Delhi.
- 5) Kale V. and Gupta (2001): An Element of Geomorphology, Oxford Uni. Press Calcutta.
- 6) Monkhhouse F.J. (1974): Principles of Physical Geography, Hodder and Stoughton, London
- 7) Singh Savindar (1988): Geomorphology, PrayagPustakalata, Allahabad.
- 8) Ministry of home affairs, Govt. of India 2015.
- 9) Prin. V. N. Ingale Missile Man Dr. A. P. J. Abdul Kalam Saket Praksahan 2016
- 10) डॉ. जयसिंगराव पवार : विज्ञान तंत्रज्ञान आणि प्रगती, फडके प्रकाशन कोल्हापूर, मार्च

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Structure of Syllabus (NEP2020)

B.A. Part- I Semester- I

Name of the Paper: Introduction to Computer

Paper Code: VSC-I

Total Lecture- 30

Course Credit: 2

Total Marks- 50

Course Objectives:

- 1) Provide basic knowledge to students about computer.
- 2) To make acquaint the student with the dynamic aspects of Information and Technology.

Learning Outcomes:

- 1) The students will have got basic knowledge of Computer.
- 2) To remember the ancient Indians scientists and their contribution in Science and Technology

Contents of the course

Unit No	Details	No of Lectures	No of Credit
1	Introduction to Computer 1.1 Meaning and definition of Computer 1.2 History of Computer 1.3 Characteristics of Computer 1.4 Classification of Computer 1.5 Significance of Computer	15	1
2	Components & Fundamentals of Computer System 2.1 Components of Computer System 2.1.1 Central Processing Unit 2.1.2 Input devices 2.1.3 Output devices 2.2 Concept of Hardware and Software 2.2.1 Hardware 2.2.2 Software 2.2.3. Application Software	15	1

References:

- 1) Computer Knowledge:D.A. Gautam Spardha Unnati Prakashan
- 2) Introduction To Computer Security-Bishop, M/ Venkatramanayya, S Pearson

- 3) Introduction To Computers-Norton, Peter 4th ed TMH
- 4) Introduction To Computers-Norton, Peter 6th ed TMH
- 5) Business Applications of Computers-Oka, M. M. 10th ed Everest
- 6) Business Applications of Computers-Oka, M. M. 7th rev ed Everest
- 7) Computer Applications in Management-Dahiya, U/ Nagpal, S. Taxman Allied Service
- 8) Computer Applications with C & C++: With Programs & Numerical Problems Abhyankar, A. K. C- Aditi
- 9) Computer Architecture & Organization-Hayes, J. P. 3rd ed MGH
- 10) Computer Data-base Organization-Martin, James's 2nd ed PHI
- 11) Computer Fundamentals-Goel, Anita Pearson
- 12) Computer Fundamentals: Architecture & Organization-Ram, B. 4th ed New Age
- 13) Computer Fundamentals: Concepts, Systems & Applications-Sinha, P. K. BPB
- 14) Computer Fundamentals: Concepts, Systems & Applications-Sinha, P. K/ Sinha, P. 3rd ed BPB
- 15) Computer Fundamentals: Concepts, Systems & Applications-Sinha, P. K/ Sinha, P. 4th ed BPB
- 16) Computer application in Geography: Jishnu Sar

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B. A. Part- I Semester- II

Name of the Paper: Human Geography

Paper Code: DSC-II

Total Lecture- 60

Course Credit: 4

Total Marks- 100

Course Objective:

- 1) To acquaint the student with basic concept of human geography.
- 2) To understand and familiarize for local and regional man – environment relation.
- 3) To introduce basic components of Human Geography like race, religion.

Learning Outcome:

After the completion of course, the student will have ability to:

- 1) The student understands basic concept of human geography.
- 2) Student understand and familiarize for local and regional man – environment relation.
- 3) The student knowledge about basic components of Human Geography like race, religion.

Content of the Course

Unit No	Details	No. of Lectures	No. of Credits
1	Introduction to Human Geography 1.1 Definition of Human Geography 1.2 Nature and Scope of Human Geography 1.3 Branches of Human Geography 1.4 Importance of Human Geography	15	1
2	Man and environment 2.1 Element of physical and cultural environment 2.2 Concept of Environmentalism 2.3 Concept of Possibilism and stop & go Determinism 2.4 Impact of man on environment	15	1
3	Human Race and Religion 2.1 Evolution of man and his early development 2.2 Human race and basis of racial classification 2.3 Racial Classification of Griffith Taylor 2.4 Religious Groups in the World	15	1

4	Human Life and adoption to Environment 4.1 Human life in cold region- Eskimo 4.2 Human life in Desert region- Bushmen 4.3 Human life in Plateau region- Gond 4.4 Human life in Mountain region- Toda	15	1
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References:

- 1) Hussin M. (2021): Human Geography, Rawat Publications, Jaipur
- 2) Singh S. (2007): Geography, Tata Mcgraw-Hill Publishing Co. Ltd., New Delhi
- 3) Johnston R; Gregory D, Pratt G. et al. (2008) The Dictionary of Human Geography, Blackwell Publication.
- 4) Perpillou A.V. (1986): Human Geography, Longman Publication, London
- 5) Broeak J.O.M and Webb J. W. (1978): A Geography of Mankind, Magraw Hill Book Company, New York
- 6) Shivaji Maske and Bapu Raut (2019): Human Geography, Mayur Publication Solapur.
- 7) Tanaji Magar: Basic Concepts in Human Geography- Publication, 3101 Hillsborough St, Raleigh, NC, 27607, United States
- 8) विठ्ठल धारपुरे (1992): सामाजिक व सांस्कृतिक भूगोल, पिंपळापुरे अंड कंपनी, नागपूर
- 9) विठ्ठल धारपुरे (1999): मानवी भूगोल, पिंपळापुरे अंड कंपनी, नागपूर
- 10) प्रवीण सप्तर्षी व उत्तमराव जगदाळे (2006): मानवी भूगोल डायमंड पब्लिकेशन्स, पुणे
- 11) इंदिरा सिंह (2007): मानवी भूगोल, डिस्कव्हरी पब्लिशिंग हाउस, नवी दिल्ली
- 12) सवदी ए.बी.व कोळेकर पि. एस. (2009): भूगोलाची मूलतत्त्वे खंड (दुसरा), निराली प्रकाशन पुणे.
- 13) राऊत बापू, मस्के शिवाजी व हरवाळकर दत्तात्रय (2023): मानवी भूगोल, निराली प्रकाशन, पुणे
- 14) इंदिरा सिंह (2007): मानवी भूगोल, डिस्कव्हरी पब्लिशिंग हाउस, नवी दिल्ली
- 15) प्रकाश सावंत (2006): मानवी भूगोल, फडके प्रकाशन, कोल्हापूर.

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Structure of Syllabus (NEP 2020)

B. A. Part- I Semester- II

Name of the Paper: Economic and Demographic Geography of Maharashtra

Paper Code: OE/GE - II

Total Lecture- 30

Course Credit: 2

Total Marks- 50

Course Objectives:

- 1) To understand the role of agriculture in state economy
- 2) To know industrial development in Maharashtra
- 3) To study the demographic aspect in Maharashtra

Learning Outcomes:

- 1) understand the Role of Agriculture in State Economy and Crops
- 2) Understand the industrial development of Maharashtra
- 3) Student will examine population dynamics and characteristics

Contents of the course

Unit No.	Details	No. of Lectures/ Periods	No. of Credits
1	Agriculture 1.1 Role of Agriculture in State Economy and Crops (Jawar, Cotton and Sugarcane) 1.2 Problems of Agriculture 1.3 Agro Based Industries – Cotton Textile and Sugar 1.4 Mumbai-Pune industrial belt	15	1
2	Population 2.1 Growth of population 2.2 Distribution of population 2.3 Composition - Sex ratio and Literacy 2.4 Problems of population growth	15	1

References:

- 1) Arunachalam B., (1967), Maharashtra – A study in Physical and Regional Setting, Sheth and Co., Mumbai.

- 2) Deshpande, C. D. (1971). Geography of Maharashtra. National Book Trust, New Delhi.
- 3) भामरे एस. एम. (2013): महाराष्ट्राचा भूगोल, प्रशांत प्रकाशन, जळगाव.
- 4) हंगे ए. के. आणि वाघमारे एच एस. (2018): महाराष्ट्राचा भूगोल, कैलास प्रकाशन, औरंगाबाद
- 5) सवदी ए. बी. (2020): द मेगा स्टेट महाराष्ट्र, निराली प्रकाशन, पुणे.
- 6) खतीब के. ए. (2017), महाराष्ट्राचा भूगोल, के सागर प्रकाशन, पुणे
- 7) सवदी ए. बी. आणि कोळेकर पी. एस. (2022): महाराष्ट्राचा भूगोल, निराली प्रकाशन, पुणे
- 8) दास्ताने संतोष (2022): महाराष्ट्राचा भूगोल, दास्ताने रामचंद्र आणि कंपनी, पुणे

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Structure of Syllabus (NEP 2020)

B. A. Part- I Semester- II

Name of the Paper: Science, Technology and Development (STD)

Paper Code: OE/GE - II

Total Lecture- 30

Course Credit: 2

Total Marks- 50

Course Objectives:

- 1) To study the scope and content of S.T.D. in relation to agriculture.
- 2) To study the importance of resources, human health and contribution of various scientific research institutes in India.

Learning Outcomes:

- 1) Understand the scope and content of S.T.D. in relation to agriculture.
- 2) Provide knowledge to students about the importance of resources, human health and contribution of various scientific research institutes in India.

Contents of the course

Unit No.	Details	No. of Lectures/ Periods	No. of Credits
1	Science Technology and Agriculture 1.1 Science and Technological Advances in agriculture such as Irrigation, Fertilizers, High Yielding Variety Seeds, plant protection methods. 1.2 Green Revolution 1.3 Bio-technology in agriculture, Tissue culture and cloning. 1.4 Problems of Modern agriculture and their solutions.	15	1
2	Science Technology and Human Health 2.1 Brief history of Medical Science with special reference to India. 2.2 Nutrition – Concept, components; Balanced diet. 2.3 Disease – A brief study of AIDS and cancer - causes, effects and preventive measures. 2.4 Covid -19	15	1

References:

- 1) Wooldridge S.W. The Geographer as Scientist, Thomas Nelson and Sons Ltd. London, 1956
- 2) Strahler A. N.: Environmental Geo-Science, Hamilton Pub., Santa Barbara, 1973.
- 3) Louise Simmers: Introduction to Health Science technology
- 4) Navaneethan S: Science and Technology in the Development of India, April 2022
- 5) डॉ. जयसिंगराव पवार : विज्ञान तंत्रज्ञान आणि प्रगती, फडके प्रकाशन कोल्हापूर, मार्च २०२१
- 6) डॉ. जयसिंगराव पवार, निशांत सूर्यवंशी : विज्ञान तंत्रज्ञान आणि प्रगती, फडके प्रकाशन कोल्हापूर
- 7) डॉ. ए. पी. जे अब्दुल कलम – अग्निपंख माधुरी शानभाग राजहंस प्रकाशन पुणे
- 8) भालबा केळकर – अर्वाचीन भारतीय वैज्ञानिक
- 9) सुधाकर भालेराव – कृत्रिम उपग्रह व अवकाश विज्ञान

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Structure of Syllabus (NEP 2020)

B. A. Part- I Semester- II

Name of the Paper: Application of Computer in Geography

Paper Code: VSC-II

Total Lecture- 30

Course Credit: 2

Total Marks- 50

Course Objectives:

- 1) To introduce the Computer Statistical Analysis
- 2) To introduce Graphical Software Skill

Learning Outcomes:

- 1) Students understand the basic concept of Computer Application in Geography
- 2) Students understand basic graphical software skill

Content of the Course

Topic No	Content	No. of Lectures	No of Credits
1	APPLICATION OF COMPUTER 1.1 Application of Computer in Geography 1.2 Role of Computer in Statistical Analysis of Geographical data: Collecting Data, Graphical Presentation 1.3 Analyzing the Numerical Data, Interpreting the Numerical Data	15	1
2	COMPUTER APPLICATION IN GEOGRAPHY: WITH SPECIAL REFERENCE TO STASTICS 2.1 Graphical Preparation of Data Using Excel Sheet: Bar, Pie and Line graph 2.2 Types of Data-Simple, Discrete and Continuous 2.3 Statistical Analysis of Data Using Excel Sheet- Mean, Mode, Median for Simple Data	15	1

References:

- 1) Introduction To Computer Security-Bishop, M/ Venkatramanayya, S Pearson
- 2) Introduction To Computers-Norton, Peter 4th ed TMH
- 3) Computer Applications in Management-Dahiya, U/ Nagpal, S. Taxman Allied Service
- 4) Computer Data-base Organization-Martin, James 2nd ed PHI

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Structure of Syllabus (NEP 2020)

B. A. Part- I Semester- II

Name of the Paper: Introduction to Tourism

Paper Code: SEC - I

Total Lecture- 30

Course Credit: 2

Total Marks- 50

Objectives:

- 1) To acquaint the student with basic concept in tourism
- 2) To understand the factor affecting the tourism

Outcome:

- 1) Understand about the tourism influencing factors
- 2) Learn the recent trends and dynamics of tourism in the context of globalization.

Contents of the course

UNIT	CONTENT	No of Lectures	No of Credit
I	Introduction To Tourism 1.1 Definition of tourism 1.2 Nature and Scope of tourism 1.3 Recent trends in tourism 1.4 Importance of tourism	15	1
II	Factors and Classification of Tourism 2.1 Factors affecting on tourism development - Physical, Economic and Socio- Cultural 2.2 Classification of tourism: Based on Nationality, Time, Distance, Number of Tourist, Mode of Transportation, Purpose of Travel	15	1

Reference Book:

1. Velvet Nelson: An Introduction to the Geography of Tourism, Rawat publication, Jaipur (2013)

2. Manoj sharma and S. P. Bansal: Tourism Infrastructure Development: A Sustainable Approach, Kanishka Publishers, Distributors, New Delhi (2010)
3. Gulab Nabi: Socio-economic impact of Tourism, Poiuter publication, Jaipur (2000)
4. Kunal Chattopadhyaya: Economic impact of Tourism Development, Kanishka Publishers, Distributors, New Delhi (1995)
5. Nirmal Kumar: Tourism and Economic Development, APH Publication, New Delhi (1996)
6. M. Dixit and Sheela Charu: Tourism Products, Royal Publication, Lacknow (2001)
7. S. Dharmarajan and R. Seth: Tourism in India: Trends and issues, Har-Anand Publication, Delhi (1996)
8. विठ्ठल धारपुरे: पर्यटन भूगोल, पिंपळापूरे अँड कं. पब्लिशर्स, नागपूर (2001)
9. अ. वि. भागवत आणि मेधा जोशी : पर्यटन भूगोल भाग 1 आणि 2, अश्वमेध प्रकाशन पुणे (1995)
10. के. ए. खतिब : पर्यटन भूगोल, मेहता पब्लिशिंग हाउस, पुणे
11. व्ही. वाय. मगदूम : पर्यटन : तत्वे आणि पद्धती, शिवाजी विद्यापीठ मुद्रणालय, कोल्हापूर (2015).
12. मस्के एस. एस. व इतर : पर्यटन भूगोल, निराली प्रकाशन, पुणे 2020