



॥ सा विद्या या विमुक्तये ॥

स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड

'ज्ञानतीर्थ', विष्णुपुरी, नांदेड - ४३१ ६०६ (महाराष्ट्र राज्य) भारत

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

'Dnyanteerth', Vishnupuri, Nanded - 431 606 (Maharashtra State) INDIA

Established on 17th September, 1994, Recognized By the UGC U/s 2(f) and 12(B), NAAC Re-accredited with 'B++' grade

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शैक्षणिक वर्ष २०२६-२७ पासून राष्ट्रीय
शैक्षणिक धोरणानुसार लागू केलेल्या
मानवविज्ञान विद्याशाखेतील पदवी तृतीय
वर्षाचा सुधारित (दुरुस्ती)
अभ्यासक्रमाबाबत.

प रि प त्र क

संदर्भ : शैक्षणिक/परिपत्रक/एनईपी/मानवविज्ञान/२०२६-२७/५७ दि.१७.०६.२०२६

या परिपत्रकान्वये सर्व संबंधितांना कळविण्यात येते की, संदर्भीय परिपत्रकान्वये दिनांक २२ एप्रिल २०२६ रोजी संपन्न झालेल्या मा.विद्यापरिषद बैठकीतील विषय क्र.०९/६४-२०२६ अन्वये मान्यता दिल्यानुसार मानवविज्ञान विद्याशाखे अंतर्गत राष्ट्रीय शैक्षणिक धोरणानुसार पदवी तृतीय वर्षाचे अभ्यासक्रम शैक्षणिक वर्ष २०२६-२७ पासून लागू करण्यात आलेले आहेत.

तथापि, वरील संदर्भीय परिपत्रकान्वये प्रकाशित केलेल्या अभ्यासक्रमामध्ये अभ्यासमंडळ अध्यक्षांनी किरकोळ दुरुस्ती करून अभ्यासक्रम सादर केला असून, मा.अधिष्ठाता, मानवविज्ञान विद्याशाखा यांच्या मान्यतेने दुरुस्ती केलेला खालील सुधारित अभ्यासक्रम (Syllabus) लागू करण्यात येत आहे.

01	B.A. /B.Sc. III Year Geography (Affiliated Colleges)
02	B.A. III Year Pali (Affiliated Colleges)

सदरील परिपत्रक व अभ्यासक्रम (Syllabus) प्रस्तुत विद्यापीठाच्या www.srtmun.ac.in या संकेतस्थळावर उपलब्ध आहेत. तरी सदरील बाब ही सर्व संबंधितांच्या निदर्शनास आणून द्यावी, ही विनंती.

'ज्ञानतीर्थ' परिसर,

विष्णुपुरी, नांदेड - ४३१ ६०६.

जा.क्र.:शै-१/परिपत्रक/पदवी/बीए/२०२६-२७/११५

दिनांक : २३.०७.२०२६


उपकुलसचिव
शैक्षणिक (१-अभ्यासमंडळे) विभाग

प्रत माहिती व पुढील कार्यवाहीस्तव :-

- १) मा. कुलगुरु महोदयांचे कार्यालय, प्रस्तुत विद्यापीठ.
- २) मा. प्र.कुलगुरु महोदयांचे कार्यालय, प्रस्तुत विद्यापीठ
- ३) मा. अधिष्ठाता, मानवविज्ञान विद्याशाखा, प्रस्तुत विद्यापीठ.
- ४) मा. संचालक, परिक्षा व मूल्यमापन मंडळ, प्रस्तुत विद्यापीठ.
- ५) मा. प्राचार्य, सर्व संबंधित संलग्नित महाविद्यालये, प्रस्तुत विद्यापीठ.
- ६) सिस्टीम एक्सपर्ट, शैक्षणिक विभाग, प्रस्तुत विद्यापीठ. यांना देवून कळविण्यात येते की, परिपत्रक अभ्यासक्रम संकेतस्थळावर प्रसिध्द करण्यात यावेत.

**SWAMI RAMANAND TEERTH MARATHWADA
UNIVERSITY, NANDED-431606**



**(Structure and Syllabus of Four Years Multidisciplinary
Degree Program with Multiple Entry and Exit Option)**

**UNDER GRADUATE PROGRAMME OF
HUMANITIES**

Major In DSC GEOGRAPHY

Under the Faculty of Humanities

B.A./B.Sc. Third YEAR

(Semester Fifth and Sixth)

**Effect from Academic Year
2026–2027
(As per NEP-2020)**

Forward by the Dean, Faculty of Humanities...

National Education Policy 2020 has been announced on 29.07.2020. NEP 2020 proposes anew and forward-looking vision for India's Higher Education System through quality universities and colleges. Its key is in the curriculum and its practical implementation.

The curriculum must be exciting, relevant, and regularly updated to align with the latest knowledge requirements and meet specified learning outcomes. High-quality pedagogy is necessary to impart the curricular material to students successfully; pedagogical practices determine the learning experiences provided to students, thus directly influencing learning outcomes. The assessment methods must be scientific, designed to improve learning continuously test the knowledge application.

The university's proper framing and development of syllabi will result in the upbringing and nourishment of multidisciplinary and holistic citizens. Emphasis is on outcome-based learning. Every course has well-defined objectives and outcomes. The assessment guidelines also provide clarity and precision to the vision behind prescribing the particular course content.

NEP foresees more vibrant, socially engaged, cooperative communities and a happier, cohesive, cultured, productive, innovative, progressive, and prosperous nation. The introduction of Research Methodology and ethics will widen the vision and broaden the perspectives of the learners.

Introducing Case Studies and Field Projects has created a unique opportunity for the higher education institute to bridge the gap between the academia, industry and the community NEP believes effective learning requires a comprehensive approach that involves an appropriate curriculum, engaging pedagogy, continuous formative assessment, and adequate student support.

We are sure that the Graduate centers of this university and its affiliated colleges will implement the course effectively and successfully, resulting in a healthy and more creative academic ambience.

Prof. Dr. Parag Arun Khadke

Dean, Faculty of Humanities,

Swami Ramanand Teerth Marathwada University, Nanded.

From The Desk of Chairman, Board of Studies in the Subject of Geography and Applied Geography

Preamble:

Geography is the study of places on Earth and their relationship with each other. Often the study of geography begins with one's home community and expands as a person gains greater experience. Thus, geography provides a conceptual link for children between home, school, and the world beyond.

Geography is one of the oldest earth sciences and its roots date back in the works of the early Greek scholars. The word 'geography' was first used by the Greek scholar Eratosthenes in the third century B.C. Geo "Earth" and Graphy "to describe" literal meaning of geography is to describe about the earth's surfaces. In other words, "Geography is largely the study of the interaction of all physical and human phenomena and landscapes created by such interactions." It is about how, why, and where human and natural activities occur and how these activities are interconnected.

Today the discipline is not only concerned with descriptions but also with analysis as well as prediction. Geographers study how people interact with the environment and with each other from place to place and they classify Earth into regions in order to draw generalizations about the complex world in which we live. Because it deals with where and how people live, geography is rich in material that relates to international understanding, multi-cultural concerns, and environmental education. The tools of geography help us understand places. To teach this subject at graduate and undergraduate level has become challenge for all the geography teachers due emerging new trends in this field. Geography helps student learn about the world knowing something about where places are and what they are like is important.

Geography contributes to international understanding the world's economies are increasingly linked into an international network of trade and exchange. If our competitors know more about us than we do about them, they have an advantage in serving our markets and negotiating trade agreements, and we are place data disadvantage in reaching their markets. Well-planned geography education at all grade levels will help to make us more aware of other countries and cultures and prepare our students to take their place in the world.

Geography and citizenship Knowledge of geography helps us be better citizens. Through geography, we learn to locate important events. We can understand the relationship between geography and national or international policies and we can use geographical knowledge to make informed decisions regarding the best use of the nation's resources.

Finally, Geographically informed students will be effective leaders for our country.

As the Chairman board of Studies in Geography, Swami Ramanand Teerth Marathwada University, Nanded happy to state here that the programme objectives have been finalized in the meeting of all the members Board of Studies.

- ❖ To meet need and Importance of Geography at the present time.
- ❖ To prepare the students to enhance their abilities to develop the innovative approach.
- ❖ To cultivate the life skills with the help of Geography.
- ❖ To enable the students for the better understanding of Geography.
- ❖ To generate the interest of students to contribute to expand their research skills.

Apart from the above objectives, the affiliated institute can add their own. As the Chairman of the Board of Studies, I strongly believe that, the framed syllabus will finally meet the need of the students at present.

Dr.Apparao A. Kalgapure

Chairman, Board of Studies of Geography and Applied Geography

Swami Ramanand Teerth Marathwada University, Nanded.



Swami Ramanand Teerth Marathwada University, Nanded

Members of the Board of Studies in the subject of

Geography and Applied Geography

Under the faculty of Humanities

<i>Sr. No</i>	<i>Name of the Member</i>	<i>Designation</i>	<i>Address</i>	<i>ContactNo.</i>
1	Dr.Apparao Annarao Kalgapure	<i>Chairman</i>	Shri.Havgiswami College,Udgir	9420215804
2	Dr.Avinash Sopanrao Kadam	<i>Member</i>	School of Earth Science (S.R.T.M. University, Nanded)	9975834724
3	Dr.Parag Arun Khadke	<i>Member</i>	School of Earth Science (S.R.T.M. University, Nanded)	9028774190
4	Dr.Bhagwat Namdev Pastapure	<i>Member</i>	Indira Gandhi Sr.College, Cidco Nanded	9403512340
5	Dr.Hanmant Dadarao Wagalgave	<i>Member</i>	Shivneri Mahavidyalaya, ShirurAnantpal	9673656114
6	Dr.Sadanand Hariba Gone	<i>Member</i>	Ujwal Gramin Mahavidyalaya, Ghonsi	9822145010
7	Dr.Bhagwan Prabhakarrao Shendge	<i>Member</i>	B.Raghunath Mahavidyalaya, Parbhani	9158443555
8	Dr.Nitin Trimbakrao Deshmukh	<i>Member</i>	Mahatma Gandhi Mahavidyalaya, Ahamadpur	9423705446
9	Dr.Janardhan Keshavrao Waghmare	<i>Member</i>	Bhai Kishanrao Deshmukh Mahavidyalaya, Chakur Dist.Latur	9765223954
10	Dr.Vishnudas Ram Rathod	<i>Member</i>	Vasantrao Naik College,Vasarani, Nanded	9423139319
11	Dr.B.Shrinaesh	<i>Member</i>	Osmania University, Hyderabad	9849269355
12	Dr.Anand Vijaykumar Walankikar	<i>Member</i>	V.D.M. College, Degloor	9422185102
13	Dr.Rajeshwar Balaji Kotalwar	<i>Member</i>	Rajiv Gandhi Mahavidyalaya,Mudkhed	9404760581
<i>Invites Member</i>				
14	Dr. Vijay Vinkar	<i>Member</i>	Kai. Babusaheb Patil Ekembekar College, Udgir	9403223512
15	Dr. A. U. Nagargoje	<i>Member</i>	Maharashtra Udaygiri Mahavidyalaya, Udgir	9423716898
16	Dr. D.S. Kendre	<i>Member</i>	Ujwal Rural College, Ghonsi	9822600243
17	Dr. S. B. Ashture	<i>Member</i>	Shri. Kumarswami College, AUSA	9579963608

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

INDEX

Sr.No.	Particulars	Page No.
1.	Structure for four year multidisciplinary degree programme	07-13
2.	Assigning code to the courses	14
3.	Basket 1 Major/Minor (Optional) course for semester I to VI	15-17
4.	Under Graduate First /Second/Third Year Programme Sem I & VI Teaching Scheme	18-23
5.	Under Graduate Third Year Programme Semester V & VI Examination Scheme	24-25
6.	Course Structure Sem-V & VI	26
7.	Syllabus Semester-V	27
8.	Geography of Maharashtra (Major)	28-30
9.	Evolution of Geographical Thought (Major)	31-33
10.	Statistical Method (Practical)	34-36
11.	Projections (Practical)	37-39
12.	Environment Geography or Biogeography (Elective)	40-45
13.	Practical Geography (Elective)	46-48
14.	Development of Geographical Plan (VSC)	49-51
15.	Field Project (FP)	52-54
16.	Syllabus Semester VI	55
17.	Geography of India (Major)	56-58
18.	Oceanography (Major)	59-61
19.	GIS and Remote Sensing (Practical)	62-64
20.	Surveying and GPS (Practical)	65-67
21.	Indian Knowledge System (IKS)	68-70
22.	Political Geography or General Geography (Elective)	71-76
23.	Practical Geography (Elective)	77-79
24.	Development of Weather Map (VSC)	80-82
25.	On Job Training (OJT)	83-85
26.	Guidelines for course assessment	86
27.	Major Theory question paper pattern (2 Credits)	87
28.	Minor Theory question paper pattern (4 Credits)	88
29.	Practical Question Papers Pattern	89-92



Swami Ramanand Teerth Marathwada University, Nanded

Faculty of Humanities (Example-1 Three Optional)

Structure for Four Year Multidisciplinary Degree Program with Multiple Entry and Exit

Subject: DSC (Major)/DSM (Minor)

Year &Level	Semester	Optional-1	Optional-2	Optional-3	Generic Elective (GE) (Select from Basket 3 of (Faculties other than Humanities))	Vocational &Skill Enhancement Course	Ability Enhancement Course (AEC) (Basket4) Value Education Courses(VEC/ Indian Knowledge System(IKS) (Basket5) (Common across all faculties)	Field Work /Project/Internship/ OJT/Apprenticeship / Case Study Or Co-curricular Courses(CC) (Basket6forCC) (Common across all faculties)	Credits	Total Credits
1	2	3	4	5	6	7	8	9	10	11
1 (4.5)	I	HGEOCT1101 (2Cr) <i>Introduction to Physical Geography</i> HGEOCP1102 (2Cr) <i>Practical Geography</i> 4 Credits	HXXXCT1101 (2 Cr) HXXXCT1102 (2Cr) 4 Credits	HXXXCT1101 (2 Cr) HXXXCT1102 (2Cr) 4 Credits	HGEOGE1101 <i>Disaster Management</i> 2 Credits	HGEOSC1101 <i>Introduction to Maps</i> 2 Credits	AECENG1101(2Cr) IKS1101(2Cr) 4 Credits	CCCXXX1101 (NCC/NSS/Sports/Culture /Health Wellness/Yoga Education/Fitness) 2 Credits	22	44
	II	HGEOCT1151 (2Cr) <i>Introduction to Human Geography</i> HGEOCP1152 (2 Cr) <i>Practical Geography</i> 4 Credits	HXXXCT1151 (2Cr) HXXXCT1152 (2Cr) 4 Credits	HXXXCT1151 (2 Cr) HXXXCT1152 (2Cr) 4 Credits	HGEOGE1151 <i>Tourism Geography</i> 2 Credits	HGEOSC1151 <i>Soil testing and Analysis</i> 2 Credits	AECXXX1151 (2 Cr) (Hin, Mar, Kan. Pal, Urd. San. Etc.) VECCOI1151 (2Cr) <i>Constitution of India</i> 4 Credits	CCCXXX1151 (NCC/NSS/Sports/Culture /Health Wellness/Yoga Education/Fitness) 2 Credits	22	
	Cum. Cr.	08	08	08	04	04	08	04	44	
Exit option: UG Certificate in Opt 1, Opt 2 and Opt 3 on completion of 44 credits and additional 4 credits from NSQF/Internship										

Year&Level	Semester	Major	Minor	Optional -3	Generic Elective (GE) (Select from Basket 3 of (Faculties other than Humanities))	Vocational & Skill Enhancement Course	Ability Enhancement Course (AEC) (Basket4) Value Education Courses(VEC/ Indian Knowledge System(IKS)) (Basket5) (Common across all faculties)	Field Work /Project/Internship/ OJT/Apprenticeship / Case Study Or Co-curricular Courses(CC) (Basket6forCC) (Common across all faculties)	Credits
2 (5.0)	III	HGEOCT 1201(2Cr) <i>Geomorphology</i> HGEOCT 1202(2Cr) <i>Population Geography</i> HGEOPC 1203 (2Cr) <i>Practical Geography</i> HGEOPC 1204 (2Cr) <i>Practical Geography</i> 8 Credits	HGEOMT 1201(4Cr) <i>Geography of Marathwada</i>	---	HGEOGE1201 <i>Watershed Management</i> 2Credits	HGEOVC1201 <i>Water Testing and Analysis</i> 2Credits	AECENG1201 (2Cr) AECXXX1201 (2Cr) (Hin, Mar, Kan. Pal, Urd. San. Etc.) 4Credits	CCCXXX1201 (NCC/NSS/Sports/Culture/ Health Wellness/Yoga Education/Fitness) 2Credits	22
	IV	HGEOCT 1251 (2Cr) <i>Climatology</i> HGEOCT 1252 (2Cr) <i>Settlement Geography</i> HGEOPC 1253 (2Cr) <i>Practical Geography</i> HGEOPC 1254(2Cr) <i>Practical Geography</i> 8 Credits	HGEOMT 1251(4Cr) <i>Social and Cultural Geography</i> 4Credits	---	HGEOGE1251 <i>Resource Management</i> 2Credits	HGEOVC1251 <i>Land Survey and Measurement</i> 2Credits	AECENG1251 (2Cr) AECXXX1251 (2Cr) (Hin, Mar, Kan. Pal, Urd. San. Etc.) VECEVS1251 (2Cr) <i>Environmental Studies</i> 6Credits	--	22
	Cum.Cr.	24	16	08	08	4+4=08	18	06	44
Exit option: UG Diploma in Major DSC and Minor DSM on completion of 88 credits and additional 4 credits NSQF/Internship in DSC									

Year & Level	Semester	Major	Elective	Minor	Optional-3		Generic Elective (GE) (Select from Basket 3 of (Faculties other than Humanities))	Vocational & Skill Enhancement Course	Ability Enhancement Course (AEC) (Basket4) Value Education Courses (VEC/ Indian Knowledge System (IKS) (Basket5) (Common across all faculties))	Field Work /Project/Internship/ OJT/Apprenticeship / Case Study Or Co-curricular Courses (CC) (Basket6forCC) (Common across all faculties)	Credits	
3 (5.5)	V	HGEOCT1301(4Cr) Geography of Maharashtra HGEOCT1302 (4Cr) Evolution of Geographical Thought HGEOP1303 (2Cr) Statistical Method (Pr) HGEOP1304 (2Cr) Projections (Pr) 12 Credits	HGEOET1301(2cr) Environment of Geography Or HGEOET1302(2cr) Bio Geography HGEOEP1303 (2cr) Practical Geography 4 Credits	---	-----	---	-----	HGEOVC1301(2Cr) Development of Geographical Plan 2 Credits	-----	HGEOFP1301 Field Project 4 Credits	22	
	VI	HGEOCT1351(4Cr) Geography of India HGEOCT1352(2Cr) Oceanography HGEOP1353 (2Cr) GIS and Remote Sensing (Pr) HGEOP1354 (2Cr) Surveying and GPS(Pr) HGEOK1351(2Cr) IKS in Geography 12 Credits	HGEOET1351(2cr) Political Geography Or HGEOET1352 (2cr) General Geography HGEOEP1353 (2cr) Practical Geography 4 Credits	---	-----	---	-----	HGEOVC1351 Development of Weather Map 2 Credits	-----	HGEOOJ1351 4 Credits	22	
	Cum. Cr.	48	24	16	08	---	08	4+8=12	22	10	44	132
Exit option: Bachelor of Humanities with Major in <u>DSC</u> and Minor in <u>DSM</u>												

4 (6.0)	VII	HXXXCT1401 (4Cr) HXXXCT1402 (4Cr) HXXXCT1403 (4Cr) HXXXCT1404 (2Cr) 14 Credits	HXXXET 1401 4 Credits	HXXXRM1401 Research Methodology 4 Credits		--	--	--	--	22	
	VIII	HXXXCT1451 (4Cr) HXXXCT1452 (4Cr) HXXXCT1453 (4Cr) HXXXCT1454 (2Cr) 14 Credit	HXXXET 1451 4 Credits	--		--	--	--	HXXXOJ1451 4 Credits	22	
CumCr		Honors:76+16=92		16+RM 04	08	08	(S-04+V-08) 12	(AEC-16 + VEC- 4 +IKS-2)22	(CC-02+FP/CS- 04+OJT- 04+OJT04) 14	44	176
Exit option: Bachelor of Humanities with Major in DSC (Honors) and Minor in DSM											

4 (6.0)	VII	HXXXCT1401 (4Cr) HXXXCT1402 (4Cr) HXXXCT1403 (2Cr) 10 Credits	HXXXET 1401 4 Credits	HXXXRM1401 Research Methodology 4 Credits		--	--	--	HXXXRP1401 Research Project (4Cr)	22	
	VIII	HXXXCT1451 (4Cr) HXXXCT1452 (4Cr) HXXXCT1453 (2Cr) 10 Credits	HXXXET 1451 4 Credits	--		--	--	--	HXXXRP1451 Research Project (8Cr)	22	
CumCr		Honors:76+16=92		16+RM 04	08	08	(S-04+V-08) 12	(AEC-16 + VEC- 4 +IKS-2)22	(CC-02+FP/CS- 04+OJT- 04+OJT04) 14	44	
Exit option: Bachelor of Humanities with Major in DSC (With Research) and Minor in DSM											
Total Credits		Major-68+16=84		16+RM 04	08	GE/OE- 08	(S-04+V-08) 12	(AEC-16 + VEC- 4 +IKS-2)22	(CC-02+FP/CS- 04+OJT-04+RP- 12) 22	176	

Abbreviations:

1. **DSC:** Department/Discipline Specific Core(Major)
2. **DSE:** Department/Discipline Specific Elective(Major)
3. **DSM:** Discipline Specific Minor
4. **GE/OE:** Generic/Open Elective
5. **VSEC:** Vocational Skill and Skill Enhancement Course
6. **VSC:** Vocational Skill Courses
7. **SEC:** Skill Enhancement Courses
8. **AEC:** Ability Enhancement courses
9. **MIL:** Modern Indian languages
10. **IKS:** Indian Knowledge System
11. **VEC:** Value Education Courses
12. **OJT:** On Job Training:(Internship/Apprenticeship)
13. **FP:** Field Projects
14. **CEP:** Community Engagement and Service
15. **CC:** Co-Curricular Courses
16. **RM:** Research Methodology
17. **RP:** Research Project/Dissertation



Swami Ramanand Teerth Marathwada University, Nanded

Faculty of Humanities

General Guidelines for course structure:

- 1) The Major subject is the discipline or subject of the main focus and the degree will be awarded in that discipline/subject.
- 2) Credit sand curriculum for optional subjects is same in the first year.
- 3) In the first year students should choose three different subjects as optional subject in the same faculty.
- 4) From the second-year curriculum of major and minor subject is the different and student have to select major and minor from three optional subjects.
- 5) Generic /Open Elective is to be chosen compulsorily from faculty other than that of the Major. (Select from Basket)
- 6) Vocational and Skill Enhancement Courses (VSEC or VSC and SEC) are related to Major Course (DSC)
- 7) Ability Enhancement Courses (AEC):
 - a) English language may be offered Sem.I for 2 Credits and sem.III for 2 Cr. In AEC
 - b) Second languages may be offered Sem.II for 2 Credits and sem.IV for 2Cr.in MIL
- 8) Column No.8 and 9 is common for all faculties.
- 9) Curriculum of VEC, COI, IKS and CCC will provide by university.



Swami Ramanand Teerth Marathwada University, Nanded

Assigning Codes to the Courses Alphanumeric, TEN Character Coding AAAAAXXXX

- 1) **First (A) Letter indicate Faculty:** **H** –Humanities **S**-Science; **C**–Commerce, & Management, **I**-Interdisciplinary Studies and **D**–Distance/External mode.
- 2) **Next Three Letters (XXX) indicates Subject** (e.g. **GEO**-Geography, **ECO**–Economics, **PHY**–Physics, **COM**–Commerce, **CMP**–Computer Sci) etc.
- 3) **Fifth and Sixth Letter indicate nature of the course:**(e.g. **CT**–Core Theory, **CP**–Core Practical, **MT**–Minor Theory, **MP**–Minor Practical, **ET**–Elective Theory, **EP**–Elective Practical, **FP**–FieldProject, **FW**–FieldWork, **OJ**–OnJobtraining, **GE**-Generic/open Elective (Internship/Apprenticeship), **IN**–Internship, **CS**–Case Study, **VC**: Vocational Skill Courses, **SC**: Skill Enhancement Courses, **AEC**: Ability Enhancement courses, **VEC**: Value Education Courses, **MIL**: Modern Indian languages, **IKS**: Indian Knowledge System, **CCC**: Co-Curricular Courses/Community Engagement and Service, **RM**: Research Methodology.etc.)
- 4) **Seventh Character or First Number** indicate the Centre (**1**-forAffiliated colleges, **2**-Main Campus, **3**-Model Degree College, **4**-Sub-centre Latur, **5**-Sub-centre Parbhani)
- 5) **Eighth Character or second number indicate**-Year of Study.E.g.**1**-First year, **2**-Second year.etc.
- 6) **Last Two Numbers** indicate Course Number

e.g.**HGEOCT1101**–Faculty of Humanities(**H**) Geography (**GEO**) subject Core Theory (**CT**) Course offered in First Semester in affiliated colleges (**1101**)

Sr.No	UG/PG	Semester	Affiliated Colleges	Main Campus	Model Degree College	Sub-centre Latur	Sub-centre Parbhani	Kinwat Sub-Centre
1	First Year	Semester I	1101 to 1150	2101 to 2150	3101 to 3150	4101 to 4150	5101 to 5150	6101 to 6150
2		Semester II	1151 to 1199	2151 to 2199	3151 to 3199	4151 to 4199	5151 to 5199	6151 to 6199
3	Second Year	Semester III	1201 to 1250	2201 to 2250	3201 to 3250	4201 to 4250	5201 to 5250	6201 to 6250
4		Semester IV	1251 to 1299	2251 to 2299	3251 to 3299	4251 to 4299	5251 to 5299	6251 to 6299
5	Third Year	Semester V	1301 to 1350	2301 to 2350	3301 to 3350	4301 to 4350	5301 to 5350	6301 to 6350
6		Semester VI	1351 to 1399	2351 to 2399	3351 to 3399	4351 to 4399	5351 to 5399	6351 to 6399
7	Fourth Year	Semester VII	1401 to 1450	2401 to 2450	3401 to 3450	4401 to 4450	5401 to 5450	6401 to 6450
8		Semester VIII	1451 to 1499	2451 to 2499	3451 to 3499	4451 to 4499	5451 to 5499	6451 to 6499
9	Fifth Year	Semester IX	1501 to 1550	2501 to 2550	3501 to 3550	4501 to 4550	5501 to 5550	6501 to 6550
10		Semester X	1551 to 1599	2551 to 2599	3551 to 3599	4551 to 4599	5551 to 5599	6551 to 6599



Swami Ramanand Teerth Marathwada University, Nanded

Faculty of Humanities. Major in GEOGRAPHY

Basket 1: Major/Minor (Optional) course for Semester I and II(C): Each of 02 Credits

Semester	BOS proposing Minor (eg.)	Details of Major/Minor Course (M)	
		CODE	Title of the Course
Semester I	BOS in Geography	HGEOCT1101	Introduction To Physical Geography
		HGEOCP1102	Practical Geography
Semester II	BOS in Geography	HGEOCT1151	Introduction To Human Geography
		HGEOCP1152	Practical Geography
	3.etc.		



Swami Ramanand Teerth Marathwada University, Nanded

Faculty of Humanities Major in GEOGRAPHY

Basket 1: Major/Minor (Optional) course for Semester III and IV(C): Each of 02 Credits

Semester	BOS proposing (eg.)	Major/ Minor	Details of Major/Minor Course (M)	
			CODE	Title of the Course
Semester III	BOS in Geography	Major	HGEOCT1201	Geomorphology
			HGEOCT1202	Population Geography
			HGEOCP1203	Practical Geography
			HGEOCP1204	Practical Geography
		Minor	HGEOMT1201	Geography of Marathwada
Semester IV	BOS in Geography	Major	HGEOCT1251	Climatology
			HGEOCT1252	Settlement Geography
			HGEOCP1253	Practical Geography
			HGEOCP1254	Practical Geography
		Minor	HGEOMT1251	Social and Cultural Geography
	3.etc.			



Swami Ramanand Teerth Marathwada University, Nanded

Faculty of Humanities Major in GEOGRAPHY

Basket 1: Major/Minor (Optional) course for Semester V and VI(C): Each of 04 & 02 Credits

Semester	BOS proposing (eg.)	Major/ Minor	Details of Major/Minor Course (M)	
			CODE	Title of the Course
Semester V	BOS in Geography	Major	HGEOCT1301	Geography of Maharashtra
			HGEOCT1302	Evolution of Geographical Thought
			HGEOCP1303	Statistical Method (Practical)
			HGEOCP1304	Projections (Practical)
		Major Elective	HGEOET1301	Environment Geography OR
			HGEOET1302	Bio Geography
			HGEOEP1303	Practical Geography
Semester VI	BOS in Geography	Major	HGEOCT1351	Geography of India
			HGEOCT1352	Oceanography
			HGEOCP1353	GIS and Remote Sensing (Practical)
			HGEOCP1354	Surveying and GPS (Practical)
			HGEOIK1351	IKS in Geography
		Major Elective	HGEOET1351	Political Geography OR
			HGEOET1352	General Geography
			HGEOEP1353	Practical Geography
	3.etc.			



Swami Ramanand Teerth Marathwada University, Nanded
Faculty of Humanities Major in GEOGRAPHY
Under Graduate First Year Programme, Semester I (Level 4.5)

Teaching Scheme

	Course Code	Course Name	Credits Assigned			Teaching Scheme (Hrs./week 1Hr.=60M.)	
			Theory	Practical	Total	Theory	Practical
Optional 1,2,3	HGEOCT1101	Introduction to Physical Geography	02	--	02	02	--
	HGEOCP1102	Practical Geography	--	02	02	--	04
Generic Electives	HGEOGE1101	Disaster Management	02	--	02	02	--
Vocational & Skill Enhancement Course	HGEOSC1101	Introduction to Maps	-	02	02	-	04
Ability Enhancement Course/Languages	AECENG1101	Compulsory English	--	--	--	--	--
Indian Knowledge System (IKS)	IKS1101	IKS Select from Basket5	--	--	--	--	--
Co-curricular Courses/Community Engagement Services (CC) (Basket6)	CCCXXX1101	Anyone of NCC/NSS /Sports/ Culture /Health Wellness/Yoga Education/Fitness	--	--	--	--	--
Total Credits			04	04	08	04	08



Swami Ramanand Teerth Marathwada University, Nanded
Faculty of Humanities Major in GEOGRAPHY
Under Graduate First Year Programme, Semester II(Level 4.5)
Teaching Scheme

	Course Code	Course Name	Credits Assigned			Teaching Scheme (Hrs./ week 1Hr.=60M.)	
			Theory	Practical	Total	Theory	Practical
Optional 1,2,3	HGEOCT1151	Introduction to Human Geography	02	-	02	02	--
	HGEOCP1152	Practical Geography	--	02	02	--	04
Generic Electives	HGEOGE1151	Tourism Geography	02	--	02	02	--
Vocational & Skill Enhancement Course	HGEOSC1151	Soil Testing and Analysis	-	02	02	-	04
Ability Enhancement Course/Languages	AECXXX1151	Languages-----	--	--	--	--	--
Value Education Course (VEC)	VECCOI1151	Constitution of India	--	--	--	--	--
Co-curricular Courses/ Community Engagement Services (CC) (Basket6)	CCCXXX1151	Anyone of NCC/NSS /Sports/ Culture /Health Wellness/Yoga Education/Fitness	--	--	--	--	--
Total Credits			04	04	08	04	08



Swami Ramanand Teerth Marathwada University, Nanded
Faculty of Humanities Major in GEOGRAPHY
Under Graduate Second Year Programme, Semester III(Level 5)
Teaching Scheme

	Course Code	Course Name	Credits Assigned			Teaching Scheme (Hrs./week 1Hr.=60M.)	
			Theory	Practical	Total	Theory	Practical
Major	HGEOCT1201	Geomorphology	02	--	02	02	--
	HGEOCT1201	Population Geography	02	--	02	02	--
	HGEOCP1203	Practical Geography	--	02	02	--	04
	HGEOCP1204	Practical Geography	--	02	02	--	04
Minor	HGEOMT1201	Geography of Marathwada	04	--	04	04	--
Generic Electives	HGEUGE1201	Watershed Management	02	--	02	02	--
Vocational & Skill Enhancement Course	HGEOVC1201	Water Testing and Analysis	-	02	02	-	04
Ability Enhancement Course/Languages	AECENG1201	Compulsory English	--	--	--	--	--
	AECXXX1201	Hin, Mar, Kan, Pal, Urd, San etc	--	--	--	--	--
Co-curricular Courses/Community Engagement Services (CC) (Basket6)	CCCXXX1201	Anyone of NCC/NSS /Sports/ Culture /Health Wellness/Yoga Education/Fitness	--	--	--	--	--
Total Credits			10	06	16	10	12



Swami Ramanand Teerth Marathwada University, Nanded
Faculty of Humanities Major in GEOGRAPHY
Under Graduate Second Year Programme, Semester IV (Level 5)
Teaching Scheme

	Course Code	Course Name	Credits Assigned			Teaching Scheme (Hrs./week 1Hr.=60M.)	
			Theory	Practical	Total	Theory	Practical
Major	HGEOCT1251	Climatology	02	--	02	02	--
	HGEOCT1252	Settlement Geography	02	--	02	02	--
	HGEOCP1253	Practical Geography	--	02	02	--	04
	HGEOCP1254	Practical Geography	--	02	02	--	04
Minor	HGEOMT1251	Social and Cultural Geography	04	--	04	04	--
Generic Electives	HGEOGE1251	Resource Management	02	--	02	02	--
Vocational & Skill Enhancement Course	HGEOVC1251	Land Survey and Measurement	-	02	02	-	04
Ability Enhancement Course/Languages	AECENG1251	Compulsory English	--	--	--	--	--
	AECXXX1251	Hin, Mar, Kan, Pal, Urd, San etc	--	--	--	--	--
	VECEVS1251	Environmental Studies	--	--	--	--	--
Co-curricular Courses/Community Engagement Services (CC) (Basket6)	CCCXXX1251	Anyone of NCC/NSS /Sports/ Culture /Health Wellness/Yoga Education/Fitness	--	--	--	--	--
Total Credits			10	06	16	10	12



Swami Ramanand Teerth Marathwada University, Nanded
Faculty of Humanities Major in GEOGRAPHY
Under Graduate Third Year Programme, Semester V (Level 5.5)
Teaching Scheme

	Course Code	Course Name	Credits Assigned			Teaching Scheme (Hrs./week 1Hr.=60M.)	
			Theory	Practical	Total	Theory	Practical
Major	HGEOCT1301	Geography of Maharashtra	04	--	04	04	--
	HGEOCT1302	Evolution of Geographical Thought	04	--	04	04	--
	HGEOCP1303	Statistical Method (Practical)	--	02	02	--	04
	HGEOCP1304	Projections (Practical)	--	02	02	--	04
Major Elective	HGEOET1301	Environment Geography OR	02	--	02	02	
	HGEOET1302	Bio Geography	--	--	--	--	--
	HGEOEP1303	Practical Geography	--	02	02	--	04
Vocational & Skill Enhancement Course	HGEOVC1301	Development of Geographical Plan	--	02	02	--	04
Field Work/ Project/ OJT/Case Study or Co-curricular Courses (CC) (Basket6)	HGEOFP1301	Field Project	04	--	04	04	-
Total Credits			14	08	22	14	16



Swami Ramanand Teerth Marathwada University, Nanded
Faculty of Humanities Major in GEOGRAPHY
Under Graduate Third Year Programme, Semester VI (Level 5.5)
Teaching Scheme

	Course Code	Course Name	Credits Assigned			Teaching Scheme (Hrs./week 1Hr.=60M.)	
			Theory	Practical	Total	Theory	Practical
Major	HGEOCT1351	Geography of India	04	--	04	04	--
	HGEOCT1352	Oceanography	02	--	02	02	--
	HGEOCP1353	GIS and Remote Sensing (Practical)	--	02	02	--	04
	HGEOCP1354	Surveying and GPS (Practical)	--	02	02	--	04
	HGEOIK1351	IKS in Geography	02	--	02	02	--
Major Elective	HGEOET1351	Political Geography OR	02	--	02	02	--
	HGEOET1352	General Geography	--	--	--	--	--
	HGEOEP1353	Practical Geography	--	02	02	--	04
Vocational & Skill Enhancement Course	HGEOVC1351	Development of Weather Map	02	--	02	--	04
Field Work/ Project/ OJT/Case Study or Co-curricular Courses (CC) (Basket6)	HGEOOJ1351	On Job Training	04	--	04	04	--
Total Credits			16	06	22	14	16



Swami Ramanand Teerth Marathwada University, Nanded

Faculty of Humanities Major in GEOGRAPHY

Under Graduate Third Year Programme, Semester V (Level 5.5)

Examination Scheme

[40% Continuous Assessment (CA) and 60% End Semester Examination (ESE)]

Subject (1)	Course Code (2)	Course Name (3)	Theory						Total Col. (8+9)
			Continuous Assessment (CA)					ESE	
			Test-I (4)	Test II (5)	Assignment (6)	Attendance (7)	T1+T2+Assi.+Att. (8)	Total (9)	
Major	HGEOCT1301	Geography of Maharashtra	10	10	12	08	40	60	100
	HGEOCT1302	Evolution of Geographical Thought	10	10	12	08	40	60	100
	HGEOCP1303	Statistical Method (Practical)	05	05	06	04	20	30	50
	HGEOCP1304	Projections (Practical)	05	05	06	04	20	30	50
Major Elective	HGEOET1301	Environment Geography Or	05	05	06	04	20	30	50
	HGEOET1302	Bio Geography	05	05	06	04	20	30	50
	HGEOEP1303	Practical Geography	05	05	06	04	20	30	50
Vocational & Skill Enhancement Course	HGEOVC1301	Development of Geographical Plan	05	05	06	04	20	30	50
Field Work/ Project/ OJT/Case Study or Co-curricular Courses (CC) (Basket6)	HGEOFP1301	Field Project	10	10	12	08	40	60	100



Swami Ramanand Teerth Marathwada University, Nanded

Faculty of Humanities Major in GEOGRAPHY

Under Graduate Third Year Programme, Semester VI (Level 5.5)

Examination Scheme

[40% Continuous Assessment (CA) and 60% End Semester Examination (ESE)]

Subject (1)	Course Code (2)	Course Name (3)	Theory						Total Col. (9+10)
			Continuous Assessment (CA)					ESE	
			Test-I (4)	Test II (5)	Assignment (6)	Attendance (7)	T1+T2+Assi.+Att. (8)	Total (8)	
Major	HGEOCT1351	Geography of India	10	10	12	08	40	60	100
	HGEOCT1352	Oceanography	05	05	06	04	20	30	50
	HGEOCP1353	GIS and Remote Sensing (Practical)	05	05	06	04	20	30	50
	HGEOCP1354	Surveying and GPS (Practical)	05	05	06	04	20	30	50
	HGEOIK1351	IKS in Geography	05	05	06	04	20	30	50
Major Elective	HGEOET1351	Political Geography Or	05	05	06	04	20	30	50
	HGEOET1352	General Geography							
	HGEOEP1353	Practical Geography	05	05	06	04	20	30	50
Vocational & Skill Enhancement Course	HGEOVC1351	Development of Weather Map	05	05	06	04	20	30	50
Field Work/ Project/ OJT/Case Study or Co- curricular Courses (CC) (Basket6	HGEOOJ1351	On Job Training	10	10	12	08	40	60	100



Swami Ramanand Teerth Marathwada University, Nanded
Faculty of Humanities Major in GEOGRAPHY
Under Graduate Third Year Programme Semester V & VI

Course Structure: Major/Major-Elective- Teaching Scheme
(For 4 credits)

Course Code	Course Name (Paper Title)	Teaching Scheme (Hrs.)		Credits Assigned		
		Theory	CA	Theory	CA	Total
HGEOCT1301	Geography of Maharashtra	60	---	04	---	04
HGEOCT1302	Evolution of Geographical Thought	60	---	04	---	04
(for 2 credits)						
Course Code	Course Name (Paper Title)	Teaching Scheme (Hrs.)		Credits Assigned		
		Practical	CA	Practical	CA	Total
HGEOCP1303	Statistical Method (Practical)	60	---	02	--	02
HGEOCP1304	Projections (Practical)	60	---	02	--	02
(Major-Elective for 2 credits)						
Course Code	Course Name (Paper Title)	Teaching Scheme (Hrs.)		Credits Assigned		
		Theory	CA	Theory	CA	Total
HGEOET1301 HGEOET1302	Environment Geography OR Bio Geography	30	--	02	--	02
Course Code	Course Name (Paper Title)	Teaching Scheme (Hrs.)		Credits Assigned		
		Practical	CA	Practical	CA	Total
HGEOEP1303	Practical Geography	60	---	02	--	02
Vocational/Skill Enhancement Course						
Course Code	Course Name (Paper Title)	Teaching Scheme (Hrs.)		Credits Assigned		
		Practical	CA	Practical	CA	Total
HGEOVC1301	Development of Geographical Plan	60	---	02	--	02
Field Work/Project						
Course Code	Course Name (Paper Title)	Teaching Scheme (Hrs.)		Credits Assigned		
		Theory	CA	Theory	CA	Total
HGEOFP1301	Field Project	60	---	04	---	04



Swami Ramanand Teerth Marathwada University, Nanded

Under the Faculty of Humanities

SYLLABUS

GEOGRAPHY

**B.A./B.Sc. THIRD YEAR
(UNDER GRADUATION)**

SEMESTER PATTERN

SEMESTER FIFTH

**Effective from Academic year 2026-2027
As per NEP-2020**



Swami Ramanand Teerth Marathwada University, Nanded
Faculty of Humanities in Geography (Major)

Under Graduate Third Year Programme, Semester Fifth

Paper Code: HGEOCT1301 Paper Title: Geography of Maharashtra
Curriculum Details

Course pre-requisite:

1. Books, Globe, Models, ICT and Field Visit.
2. The Knowledge about Map preparation is required for this paper.

Course objectives:

1. To provide in depth knowledge about Maharashtra.
2. To introduce the regional Geographical aspects.
3. To make aware about Physical profile of Maharashtra.
4. To prepare students for various competitive examination.

Course outcomes:

Student will be able to

1. Understand the location, history and formation of Maharashtra.
2. Familiar about the Geographical profile of Maharashtra.
3. Knowledge about the nature of Climate, season and drainage pattern of Maharashtra.
4. Identify the new techniques develop agriculture in Maharashtra.



Swami Ramanand Teerth Marathwada University, Nanded
Faculty of Humanities in Geography (Major)

Paper Code: HGEOCT1301 Paper Title: Geography of Maharashtra
Curriculum Details: (for 4 Credits)

Module	Unit	Name of Topic	Hours Required to cover the contents 1Hr.=60Min.
1.0		Location and Major Aspects	
	1.1	Location and Physical Regions of Maharashtra	15
	1.2	Major Drainage Systems of Maharashtra	
	1.3	Climatic Regions of Maharashtra	
	1.4	Seasonal Variation and Rainfall Distribution	
2.0		Soil, Forest and Minerals	
	2.1	Soil Types, Their Characteristics and Distribution	15
	2.2	Forest Types, Their Characteristics and Distribution	
	2.3	Minerals - Manganese	
	2.4	Power Resources – Coal	
3.0		Agriculture and Industries	
	3.1	Agricultural Land use Pattern of Maharashtra	15
	3.2	Production and Distribution of Major Crops i) Jowar ii) Cotton iii) Sugarcane	
	3.3	Sources of Irrigation	
	3.4	Major Industries in Maharashtra i) Sugar Industry ii) Cotton Textile Industry	
4.0		Population and Contemporary Issues	
	4.1	Factors Affecting on Growth of Population	15
	4.2	Growth, Density and Distribution	
	4.3	Population Composition – Age, Sex, Literacy	
	4.4	Regional Disparity in Social and Economic Development	
		Total	60

Suggested Readings:

1. Arunachalam B.- Maharashtra – Bombay 1967.
2. Deshpande C.D. – Geography of Maharashtra – National Book Trust- India 1971.
3. Das P.K. - The Monsoons – National Book Trust India 1968.
4. Govt. of India Census of India, Gazetteers of India.
5. Govt. of Maharashtra – District Gazetteers – Economics Review.
6. Spate O H K & Learmonth ATA – India and Pakistan, Methuen London 1969.
7. Sing R.L. India- A Regional Geography, national Geography society India. Varanasi 1971.
8. Wadia D.N. Geography of Maharashtra – Macmillan 1957.
9. डॉ. पांडुरंग केचे (2003): महाराष्ट्र भूगोल, कैलास प्रकाशन, छत्रपती संभाजीनगर.
10. डॉ.सुरेश फुले (2009):महाराष्ट्र भूगोल, विद्या बुक्स प्रकाशन, नागपूर.
11. डी.पी.पाटील (1998): महाराष्ट्र भूगोल, पिंपळापुरे अँड कंपनी प्रकाशन, नागपूर.
12. प्रा.ए.बी.सौदी (2012): महाराष्ट्र भूगोल, निराली प्रकाशन, पुणे.
13. प्रा.के.ए.खतीब (2010): महाराष्ट्र भूगोल, के सागर पब्लिकेशन, पुणे.
14. प्रा.ए.के. हंगे (2019): महाराष्ट्राचा भूगोल कैलास प्रकाशन, छत्रपती संभाजीनगर.
15. प्रा.एस. डी. वाघमारे (2018): महाराष्ट्राचा औद्योगिक भूगोल, विद्या प्रकाशन, छत्रपती संभाजीनगर.



Swami Ramanand Teerth Marathwada University, Nanded
Faculty of Humanities in Geography (Major)

Under Graduate Third Year Programme, Semester Fifth

Paper Code: HGEOCT1302, Title: Evolution Geographical Thought

Curriculum Details

Pre-requisites:

1. Books, Maps, Globe, Models
2. ICT

Course Objectives:

1. To understand the contribution of ancient and modern schools.
2. To understand the evolution of geographical concepts and ideas.
3. To know and understand the major approaches in Geography

Course Outcomes:

After completion of course students will be able to:

1. Explain the role of major schools of geography in enriching subject matter.
2. Different geographical concepts and ideas.
3. The philosophical and methodological foundation of the subject.



Swami Ramanand Teerth Marathwada University, Nanded
Faculty of Humanities in Geography (Major)
Paper Code: HGEOCT1302, Title: Evolution Geographical Thought

Curriculum Details: (for 4 Credits)

Module	Unit	Name of Topic	Hours Required to cover the contents 1Hr.=60Min.
1.0		Ancient Geographers	
	1.1	Greek: Eratosthenes, Aristotle	15
	1.2	Roman: Strabo, Ptolemy	
	1.3	Arab: Al Biruni, Al Idrisi	
	1.4	Indian: Aryabhatta, Varaha mihir	
2.0		Modern Geographers	
	2.1	German: Alexander von Humbolt	15
	2.2	French: Vidal de la Blache	
	2.3	American: Ku. Ellen Semple	
	2.4	British: Halford John Mackinder	
3.0		Major Concepts in Geography	
	3.1	Determinism	15
	3.2	Possibilism	
	3.3	Stop and Go determinism	
	3.4	Concept of Region	
4.0		Major Approaches and Model in Geography	
	4.1	Quantitative Approach	15
	4.2	Regional Approach	
	4.3	Radical Approach	
	4.4	Model Meaning and Classification	
		Total	60

Suggested Readings:

1. Adhikari, Sudeepta (2010): Fundamentals of Geographical Thought, Chaitanya publishing House, Varanasi, India.
2. Dickinson, R. E. (1969): The Makers of Modern Geography, Routledge & Paul, London.
3. Dixit, R. D. (1997): Geographical Thought: Contextual History of Ideas, Prentice Hall of India, New Delhi.
4. Freeman, T. W. (1961): Hundred years of Geography, Duckworth, London.
5. Harvey, M. E. (2016): Themes in Geographic Thought, Rawat publications, Jaipur.
6. Hussain Majid (2015 6 th edition): Evolution of Geographical Thought, Rawat publications, Jaipur.
7. Rana, L. (2014): Geographical Thought Contemporary to Classical, Concept publishing company, New Delhi.
8. Saroj, K. Pal: Statistical Techniques-A basic Approach to Geography, McGraw Hill Publishing Co. Ltd.
9. शिंदे सु. द. (1980): आधुनिक भूगोलाचा विकास, मेहता पब्लिशिंग हाऊस, पुणे.
10. डॉ. एस. बी. शिंदे, डॉ. सी. टी. पवार, डॉ. आर. एस. आडसूळ, डॉ. पी. टी. पाटील, प्रा. एस. एस. फुले (1998): भूगोलशास्त्र विचार व संकल्पना, सप्रेम प्रकाशन कोल्हापूर.
11. डॉ. प्रकाश सावंत, डॉ. प्रकाश पाटील (1999): भूविज्ञान विचार आणि संकल्पना, फडके प्रकाशन कोल्हापूर.
12. डॉ. बी. जी. वेळापूरकर, डॉ. के. बी. कणकूरे, प्रा. एच. बी. राठोड, प्रा. व्ही. आर. उगाडे, प्रा. सौ. एस. जे. विभुते (2000): भौगोलिक विचारधारांचा विकास,
13. डॉ. एन. जी. माळी, डॉ. एस. बी. आष्टुरे, डॉ. आर. एस. भुरे (2019): भौगोलिक विचारांचा संकल्पनात्मक विकास, अरुणा प्रकाशन, लातूर.



Swami Ramanand Teerth Marathwada University, Nanded
Faculty of Humanities in Geography (Major)
Under Graduate Third Year Programme, Semester Fifth

Paper Code: **HGEOCP1303**, Title: **Statistical Method (*Practical*)**

Curriculum Details

Pre-requisites:

1. Books, Maps, Globe, Models
2. ICT

Course Objectives:

1. To familiarize the students with the different quantitative techniques and methods.
2. To understand the different quantitative techniques in network analysis.

Course Outcomes:

After completion of course students will be able to:

1. The students would familiar with the different quantitative techniques and methods.
2. The students would understand the different quantitative techniques in network analysis



Swami Ramanand Teerth Marathwada University, Nanded
Faculty of Humanities in Geography (Major)

Paper Code: **HGEOCP1303**, Title: **Statistical Method (Practical)**
Curriculum Details: (for 2 Credits)

Module	Unit	Name of Topic	Hours Required to cover the contents 1Hr.=60Min.
1.0		Introduction	
	1.1	Meaning and Importance of Statistics	15
	1.2	Data Collection	
	1.3	Tally Marks	
2.0		Measurement of Central Tendencies	
	2.1	Mean in Simple, Discrete and Continuous series	15
	2.2	Median in Simple, Discrete and Continuous series	
	2.3	Mode in Simple, Discrete and Continuous series	
3.0		Measurement of Deviations	
	3.1	Mean deviation in Simple, Discrete and Continuous series	15
	3.2	Quartile deviation in Simple, Discrete and Continuous series	
	3.3	Standard deviation in Simple, Discrete and Continuous series	
4.0		Frequency Distribution	
	4.1	Histogram	15
	4.2	Polygon	
	4.3	Ogive Curve	
		Total	60

Suggested Readings:

1. Croxton & Cowden: Applied General Statistics
2. Hammod & Mc Gullah: Quantitative Techniques in Geography
3. Khan Z.A.: Textbook of Practical Geography
4. Mishra R.P. and Ramesh A.: Fundamentals of Cartography
5. Pal, S.K.: Statistics for Geoscientists
6. Robinson, A.H.: Elements of Cartography
7. Sarkar A.K.: Practical Geography-A Systematic Approach
8. Sing, R.L. and Dutt, P.K. (1979): Elements of Practical Geography Kalyani Publishers, New Delhi.
9. Singh and Singh: Mapwork and Practical Geography
10. Sarkar, A. (1997): Practical Geography – A Systematic Approach – Orient Longman Calcutta.
11. जे.पी. शर्मा (1993): प्रात्यक्षिक भूगोल, रस्तोगी प्रकाशन, मेरठ.
12. डॉ. डी. वाय. अहिराव, प्रा.इ.के. करंजखेल (2010): प्रात्यक्षिक भूगोल; सुदर्शन प्रकाशन, गंगापूररोड, नाशिक.
13. डॉ. नागतोडे व लांजेवार (2009): नकाशाशास्त्र व प्रात्यक्षिक भूगोल; पिंपळापुरे अँड कंपनी पब्लिसर्स, नागपूर.
14. डॉ. कनकुरे, डॉ. मानकरी, रमेश मुगावे (2012): प्रात्यक्षिक भूगोल, अरुणा प्रकाशन, लातूर.
15. डॉ.अर्जुन कुंभार (2003): प्रात्यक्षिक भूगोल, सुमेरू प्रकाशन, डोबीवली
16. हरिलाल यादव (2011): प्रायोगिक भूगोल, राधा पब्लिकेशनस नई दिल्ली
17. जयकुमार मगर (1993): प्रात्यक्षिक भूगोल, विद्या प्रकाशन, नागपूर.
18. पी .एल .मिश्र (2010): प्रायोगिक भूगोल, विश्व भारती पब्लिकेशनस, नई दिल्ली.
19. रामचंद्र तिवारी, सुधाकर त्रिपाठी (2009): प्रायोगिक भूगोल, प्रयाग पुस्तक भवन, इलाहाबाद



Swami Ramanand Teerth Marathwada University, Nanded
Faculty of Humanities in Geography (Major)

Under Graduate Third Year Programme, Semester Fifth

Paper Code: HGEOCP1304, Title: Projections (*Practical*)

Curriculum Details

Pre-requisites:

1. Books, Maps, Globe, Models
2. ICT

Course Objectives:

1. To understand the different types of map projections and use of it.
2. To prepare maps from the globe

Course Outcomes:

After completion of course students will be able to:

1. Construct the Map projections and understand their uses.
2. Appreciate how projections are applied to prepare maps from the globe
3. Learning map projections is an integral part of map making and this paper will enable the students to gain insight about various map projection techniques.



Swami Ramanand Teerth Marathwada University, Nanded

Faculty of Humanities in Geography (Major)

Paper Code: **HGEOCP1304**, Title: **Projections (*Practical*)**

Curriculum Details: (for 2 Credits)

Module	Unit	Name of Topic	Hours Required to cover the contents 1Hr.=60Min.
1.0		Introduction	
	1.1	Meaning of Projections	15
	1.2	Classification of Projections	
	1.3	Choice of Map Projection	
2.0		Zenithal Projections	
	2.1	Properties and Uses of Zenithal Polar Gnomonic Projection and Zenithal Polar Equal Area Projection	15
	2.2	Zenithal Polar Gnomonic Projection	
	2.3	Zenithal Polar Equal Area Projection	
3.0		Conical Projections	
	3.1	Properties and Uses of Conical Projection and Bonnes Projection.	15
	3.2	Conical Projection with One Standard Parallel	
	3.3	Bonnes Projection.	
4.0		Cylindrical Projections	
	4.1	Properties and Uses of Cylindrical Equal Area Projection and Mercator's Projection.	15
	4.2	Cylindrical Equal Area Projection.	
	4.3	Mercator's Projection.	
		Total	60

Suggested Readings:

1. Croxton & Cowden: Applied General Statistics
2. Hammod & Mc Gullah: Quantitative Techniques in Geography
3. Khan Z.A.: Textbook of Practical Geography
4. Mishra R.P. and Ramesh A.: Fundamentals of Cartography
5. Pal, S.K.: Statistics for Geoscientists
6. Robinson, A.H.: Elements of Cartography
7. Sarkar A.K.: Practical Geography-A Systematic Approach
8. Sing, R.L. and Dutt, P.K. (1979): Elements of Practical Geography Kalyani Publishers, New Delhi.
9. Singh and Singh: Mapwork and Practical Geography
10. Sarkar, A. (1997): Practical Geography – A Systematic Approach – Orient Longman Calcutta.
11. जे.पी. शर्मा (1993): प्रात्यक्षिक भूगोल, रस्तोगी प्रकाशन, मेरठ.
12. डॉ. डी. वाय. अहिराव, प्रा.इ.के. करंजखेल(2010): प्रात्यक्षिक भूगोल; सुदर्शन प्रकाशन, गंगापूर रोड, नाशिक.
13. डॉ. नागतोडे व लांजेवार (2009): नकाशाशास्त्र व प्रात्यक्षिक भूगोल; पिंपळापुरे अँड कंपनी पब्लिसर्स, नागपूर.
14. डॉ. कनकुरे, डॉ. मानकरी, रमेशमुगावे (2012): प्रात्यक्षिक भूगोल, अरुणा प्रकाशन, लातूर.
15. डॉ.अर्जुन कुंभार (2003):प्रात्यक्षिकभूगोल, सुमेरू प्रकाशन, डोबीवली
16. हरिलाल यादव (2011): प्रायोगिक भूगोल, राधा पब्लिकेशनस नई दिल्ली
17. जयकुमार मगर (1993): प्रात्यक्षिक भूगोल, विद्या प्रकाशन, नागपूर.
18. पी .एल .मिश्र (2010): प्रायोगिक भूगोल, विश्व भारती पब्लिकेशनस, नई दिल्ली.
19. रामचंद्र तिवारी, सुधाकर त्रिपाठी (2009): प्रायोगिक भूगोल, प्रयाग पुस्तक भवन, इलाहाबाद



Swami Ramanand Teerth Marathwada University, Nanded
Faculty of Humanities in Geography (Major Elective)

Under Graduate Third Year Programme, Semester Fifth

Paper Code: HGEOET1301, Title: Environment Geography

Curriculum Details

Course pre-requisite:

1. Books, Maps, Globe, Models
2. ICT, Field Visit.

Course objectives:

1. To provide students with in-depth knowledge of the environment.
2. To make students aware of various environmental problems.
3. To make students understand the importance of conservation of environmental resources and sustainable development.

Course outcomes:

After completion of course students will be able to:

1. Students will understand the importance of the environment in human life and will develop a positive attitude towards conserving the environment.
2. By understanding various environmental problems, students will be able to think positively towards solving them.
3. By understanding the importance of environmental resources, students will be able to conserve and manage them



Swami Ramanand Teerth Marathwada University, Nanded
Faculty of Humanities in Geography (Major Elective)
 Paper Code: **HGEOET1301**, Title: **Environment Geography**
 Curriculum Details: (for 2 Credits)

Module	Unit	Name of Topic	Hrs. Required to cover the contents 1 Hrs.=60 M.
1.0		Introduction	08
	1.1	Definition, nature and scope of environmental geography	
	1.2	Elements of environment	
	1.3	Importance of study of environmental geography	
2.0		Ecosystem and Biodiversity	08
	2.1	Ecosystem- Definition, types and functions	
	2.2	Biodiversity- Concept, types and conservation	
	2.3	Importance of Biodiversity	
3.0		Natural Resources	07
	3.1	Renewable Natural Resources	
	3.2	Non-Renewable Natural Resources	
	3.3	Conservation of Natural Resources and Sustainable Development	
4.0		Environmental Pollution and Environmental Issues	07
	4.1	Pollution Definition and Types (Air, Water, Soil, Noise)	
	4.2	Drought – Causes, Effect and Remedies	
	4.3	Global Warming and Ozone depletion- Causes, Effects and Remedies	
Total			30

Suggested Readings:

1. Agarwal, A. et.al. (1998): The Citizen's Fifth Report. Centre for Science Environment, New Delhi.
2. Alexander John (1998): Economic Geography, Prentice Hall & W of India Lt Delhi.
3. Allen J.L. (1997): Student Atlas of Environmental Issues Dushkin Publication.
4. Brown L.R. (1976): In the Human Interest, East-West Press, New Delhi.
5. Cutter, L. Renwick H.L. Rowman & Allanheld (1985): Exploitation, Conservati
Preservation: A Geographic Perspective and Natural Resources Use, Wotowa
6. Erach, Bharucha (2005): Textbook of Environmental Studies, Universities Pr (India) Pvt. Ltd. Hyderabad.
7. Lal, PranayaIndica (2016): A Deep Natural History of the Indian Subcontine Penguin Random House India, Gurgaon.
8. Saxena, H. M. (2008): Environmental Geography, Rawat Publication, Jaipu
9. Singh, Savinder (2018): Environmental Geography, PrayagPustakBhandar, Allahabad.
10. Kaushik, C. P. Environmental Studies, New age international Ltd., New Delhi, 2007.
11. Rana, S. V. S. Environmental Studies, Rastogi Publication, Meerut, 2007
12. Kaur, H. Environmental Studies, Pragati Prakashan, Meerut, 2006.
13. पर्यावरण भूगोल: सवीन्द्र सिंह (प्रयाग पुस्तक भवन, इलाहाबाद)
14. प्रा.बालाजी आर. गुरुडे (2023): पर्यावरण: समस्या, जाणीव जागृती आणि संवर्धन, रुपी पब्लिकेशन्स प्रा.लि., कोल्हापूर.
15. डॉ. शेटे, डॉ. फुले, डॉ.शहापूरकर (1999): पर्यावरण भूगोल, अभिजीत पब्लिकेशन, लातूर.
16. डॉ.सोमनाथ बिराजदार, डॉ.बालाजी आव्हाड (२०२६): पर्यावरण अभ्यास, अरुणा प्रकाशन, लातूर.
17. विठल घारपुरे (2001): पर्यावरण भूगोलशास्त्र, पिंपळापुरे अँड कंपनी पब्लिसर्स, नागपूर.
18. एच. एम. सक्सेना (2020): पर्यावरण भूगोल, रावत पब्लिकेशन, जयपूर.
19. प्रा. बा.र. अहिराव: पर्यावरण विज्ञान, निराली प्रकाशन, पुणे.
20. डॉ. जयकुमार मगर: पर्यावरण परिचय, विद्या प्रकाशन नागपूर.



Swami Ramanand Teerth Marathwada University, Nanded

Faculty of Humanities in Geography (Major Elective)

Under Graduate Third Year Programme, Semester Fifth

Paper Code: HGEOET1302, Title: Biogeography **OR**

Curriculum Details

Pre-requisites:

1. Books, Maps, Globe, Models
2. ICT

Course Objectives:

1. To critically understand the concept of Nature, Ecology and development of plant and animal.
2. To understand the dispersal and migration of animal.
3. To emphasize on conservation and management of the environment.

Course Outcomes:

After completion of course students will be able to:

1. Learn the concept of Nature, Ecology and development of plants and animals.
2. Understand the distribution of plant and animals
3. Know about conservation of management of wildlife and forest.



Swami Ramanand Teerth Marathwada University, Nanded

Faculty of Humanities in Geography (Major Elective)

Paper Code: HGEOET1302, Title: Biogeography **OR**

Curriculum Details: (for 2 Credits)

Module	Unit	Name of Topic	Hours Required to cover the contents 1Hr.=60Min.
1.0		Introduction	
	1.1	Definition, Nature and Scope of Biogeography	08
	1.2	Biogeography as a branch of physical geography	
	1.3	Importance of Biogeography	
2.0		Ecosystem Functioning	
	2.1	Components of Ecosystem	08
	2.2	Energy Flow: Food chain and food web	
	2.3	Types of Ecosystems: Land and Water	
3.0		Plants and Animals	
	3.1	Influence of environment on plants and animals.	07
	3.2	Classification of plants and animals based on Habitat	
	3.3	Distribution of plants and animals based on Habitat	
4.0		Biodiversity	
	4.1	Concept of biodiversity and its importance	07
	4.2	Depletion of biodiversity-natural and man induced causes	
	4.3	Conservation of biodiversity	
		Total	30

Suggested Readings:

1. Robinson, H.: Biogeography, Macdonald and Evans Ltd. London.
2. Agarwal, D. P.: Man and Environment in India Through Ages.
3. Bradshaw, M. J.: Earth and Living Planet, ELBS London.
4. Cox, C.D. and Moore, P.D.: Biogeography; An Ecological and Evolutionary approach 5th edn. Blackwell.
5. Gaur, R.: Environment and Ecology of Early man in Northern India, R. B. Publication Corporation.
6. Hoyt, J.B.: Man and the Earth, Prentice Hall, U.S.A.
7. Huggett, R. J.: Fundamentals of Biogeography, Routledge, U.S.A.
8. Illies, J: Introduction to Zoogeography, McMillan, London.
9. Khoshoo, T. N. and Sharma, M. (eds): Indian Geosphere- Biosphere, Har-Anand Publication, Delhi.
10. Lapedes, D.N. (ed): Encyclopedia of Environmental Science, McGraw Hill.
11. कमला प्रसाद: पर्यावरणीय अध्ययन, राजेश पब्लिकेशन्स, नयी दिल्ली.
12. डॉ.घारपुरे विठ्ठल: जैविक भूगोल, पिंपळापुरे प्रकाशन, नागपूर.
13. डॉ.एस.टी. शेटे, डॉ.एन.जी. माळी, डॉ.व्ही.सी. दंडे, डी.एस. शिरुरे, आर.एस. मुगावे: जैविक भूगोल, अरुणा प्रकाशन, लातूर.



Swami Ramanand Teerth Marathwada University, Nanded

Faculty of Humanities in Geography (Major Elective)

Under Graduate Third Year Programme, Semester Fifth

Paper Code: HGEOEP1303 Title: Practical Geography

Curriculum Details

Pre-requisites:

1. Books, Maps, Globe, Models
2. ICT

Course Objectives:

1. To understand the principles and its evolution over time.
2. To introduce the students with the fundamental concepts and techniques of cartography.
3. To use graphical presentation of computer cartography
4. To conduct tour nearby places

Course Outcomes:

After completion of course students will be able to:

1. Understand the fundamental concepts of cartography
2. Use graphical presentation of computer cartography
3. Conducting tour nearby places.



Swami Ramanand Teerth Marathwada University, Nanded

Faculty of Humanities in Geography (Major Elective)

Paper Code: **HGEOEP1303** Title: **Practical Geography**

Curriculum Details: (for 2 Credits)

Module	Unit	Name of Topic	Hours Required to cover the contents 1Hr.=60Min.
1.0		Introduction	
	1.1	Definition of Cartography	15
	1.2	Branches of Cartography	
	1.3	Importance and applications of cartographic technique	
2.0		Cartographic Technique	
	2.1	Flow line Diagram	15
	2.2	Pie Diagram	
	2.3	Scattered Diagram	
3.0		Application of Computer Cartography (Use of Computer)	
	3.1	Cartograms of One, Two and Three Dimension	15
	3.2	Graphical Presentation (Line Graphs- Simple & Multiple)	
	3.3	Graphical Presentation (Bar Graphs- Simple & Multiple)	
4.0		Tour and Preparation of Report	
	4.1	Students to be taken on a Tour to nearby Village/ Town/ Tourist Places	15
	4.2	To identify the landforms on the surface, while in the field.	
	4.3	To prepare the report with maps, sketches, photographs etc.	
		Total	60

Suggested Readings:

1. Croxton & Cowden: Applied General Statistics
2. Hammod & Mc Gullah: Quantitative Techniques in Geography
3. Khan Z.A.: Textbook of Practical Geography
4. Mishra R.P. and Ramesh A.: Fundamentals of Cartography
5. Pal, S.K.: Statistics for Geoscientists
6. Robinson, A.H.: Elements of Cartography
7. Sarkar A.K.: Practical Geography-A Systematic Approach
8. Sing, R.L. and Dutt, P.K. (1979): Elements of Practical Geography Kalyani Publishers, New Delhi.
9. Singh and Singh: Mapwork and Practical Geography
10. Sarkar, A. (1997): Practical Geography – A Systematic Approach – Orient Longman Calcutta.
11. जे.पी. शर्मा (1993): प्रात्यक्षिक भूगोल, रस्तोगी प्रकाशन, मेरठ.
12. डॉ. डी. वाय. अहिरराव, प्रा.इ.के. करंजखेल(2010): प्रात्यक्षिक भूगोल; सुदर्शन प्रकाशन, गंगापूर रोड, नाशिक.
13. डॉ. नागतोडे व लांजेवार (2009): नकाशाशास्त्र व प्रात्यक्षिक भूगोल; पिंपळापुरे अँड कंपनी पब्लिसर्स, नागपूर.
14. डॉ. कनकुरे, डॉ. मानकरी, रमेशमुगावे (2012): प्रात्यक्षिक भूगोल, अरुणा प्रकाशन, लातूर.
15. डॉ.अर्जुन कुंभार (2003): प्रात्यक्षिक भूगोल, सुमेरू प्रकाशन, डोबीवली
16. हरिलाल यादव (2011): प्रायोगिक भूगोल, राधा पब्लिकेशनस, नई दिल्ली
17. जयकुमार मगर (1993): प्रात्यक्षिक भूगोल, विद्या प्रकाशन, नागपूर
18. पी .एल .मिश्र (2010): प्रायोगिक भूगोल, विश्व भारती पब्लिकेशनस, नई दिल्ली
19. रामचंद्र तिवारी, सुधाकर त्रिपाठी (2009): प्रायोगिक भूगोल, प्रयाग पुस्तक भवन, इलाहाबाद



Swami Ramanand Teerth Marathwada University, Nanded
Faculty of Humanities in Geography (VSC)
Under Graduate Third Year Programme, Semester Fifth

Paper Code: **HGEOVC1301** Title: **Development of Geographical Plan**

Curriculum Details

Pre-requisites:

1. The Knowledge about GPS preparation is required for this paper.
2. ICT and Field Visit.

Course Objectives:

1. To develop practical skills in geographical planning and field – based analysis
2. To enable students to apply spatial thinking in real-world problems
3. To train students in survey, mapping and GIS – based techniques
4. To promote sustainable and community- based planning approaches.

Course Outcomes:

After completion of course students will be able to:

1. Students will be able to design a scientifically planned and sustainable development route for a local remote/hilly/significant place by integrating physical and geo-environmental factors using mapping and field-based analysis. It is also expected that the students will prepare a Development Route Plan of any local place from their region, which will help strengthen the present routes of the same area.
2. Students will be able to design a tour plan for 3-day / 7-day tour within the state and outside the State. It is also expected that students will prepare a Complete Tour Plan of any Local/ Regional Tour, which will help strengthen employment opportunities in tour & travel agencies.
3. Students will be able to design a scientific landscape plan, be able to measure slope of agricultural land, measure the area of agricultural land (of any size and shape), design a proper plan for rainwater management and irrigation, etc. It is also expected that students will prepare a Complete Agricultural Planning and Management Plan for any agricultural field from a local region for any crop management.
4. Students will be able to design a scientific model for sustainable watershed management for their local region/village/farm, etc.



Swami Ramanand Teerth Marathwada University, Nanded
Faculty of Humanities in Geography (VSC)

Paper Code: **HGEOVC1301** Title: **Development of Geographical Plan**

Curriculum Details: (for 2 Credits)

Module	Unit	Name of Topic	Hours Required to cover the contents 1Hr.=60Min.
1.0		Planning and Development of Rural & Remote Access Routes	
	1.1	Conceptual Understanding: rural / remote connectivity Micro-Level Selected Case Study of Existing Routes (within 10 km): Terrain, Physical and Geo-environmental Factors	15
	1.2	Problems in Existing Routes Use of GPS & mobile mapping apps	
	1.3	Case Study Approach: Raigad Fort, Matheran, Ajanta Caves, Mahurgad, Remote tribal/forest village, any Local Place (at least 3 cases)	
2.0		Geographical Study Tour Planning and Execution	
	2.1	Objectives of a geographical study tour, Selection of study area, Planning: Pre-tour planning (permissions, budgeting, logistics), route, mode of transport, budget, accommodation etc	15
	2.2	Field observation techniques & Report writing and documentation Use of photography, sketches, and maps	
	2.3	Post-tour analysis and presentation Use of digital tools (Google Earth, Survey apps)	
3.0		Agriculture land Use Planning & Landscape Mapping	
	3.1	Concept of agricultural landscape, Types of land use, patterns, Soil classification and fertility mapping, Irrigation types / methods and sources	15
	3.2	Land/ Area measurement, Water Capacity of ponds/ tanks and its measurement	
	3.3	Rainwater Harvesting / Rainwater management, Construction of Bunds /parallel contour trenches etc. Slope measurement, Field mapping and preparation of land-use maps	
4.0		Watershed Management and Planning	
	4.1	Concept and importance of watersheds, Sustainable Watershed Planning and Management, Components of watershed (ridge, valley, drainage)	15
	4.2	Rainfall and runoff analysis, Soil and water conservation techniques, Check dams, contour bunding, percolation tanks, Groundwater recharge methods	
	4.3	Case studies of successful watershed projects, Preparation of a watershed development plan	
		Total	60

Suggested Readings:

1. T.W. Freeman, Geography and planning
2. Harneet Kaur, Fundamental and principles of Urban and Regional Planning
3. Rajeev R. Thakur, Urban and Regional Planning
4. M.H. Fulekar, Environment and Sustainable Development
5. D.N. Gupta, Integrated Development Planning
6. Mukunda Mishra, Regional Development Planning and Practice
7. Agrawal, N. K. (2012): Essentials of GPS, 3rd ed., BSP Books Pvt. Ltd.
8. Alfred, Leick (2004): GPS Satellite Surveying. 3rd ed. John Wiley and Sons Inc.,
9. Bao, J., Tsui, Y. (2005): Fundamentals of Global Positioning System Receivers, John Wiley Sons, Inc., Hoboken.



Swami Ramanand Teerth Marathwada University, Nanded
Faculty of Humanities in Geography (FP)

Under Graduate Third Year Programme, Semester Fifth

Paper Code: HGEOFP1301, Title: Field Project

Curriculum Details

Pre-requisites:

1. Books, Maps, Globe, Models
2. ICT

Course Objectives:

1. To provide depth knowledge of field project.
2. To provide field survey skills data collection and report writing.
3. To train the students representing data through Maps, Graphs and Diagrams

Course Outcomes:

After completion of course students will be able to:

1. Apply the field project in geographical phenomena.
2. Design the field project in geographical approach.
3. Enhance the ability to choose appropriate title of the field project.
4. Adopt the research skill in quantitative and qualitative methods in field project.



Swami Ramanand Teerth Marathwada University, Nanded
Faculty of Humanities in Geography (FP)

Paper Code: **HGEOF1301**, Title: **Field Project**

Curriculum Details: (for 4 Credits)

Module	Unit	Name of Topic	Hours Required to cover the contents 1Hr.=60Min.
1.0		Introduction	
	1.1	Definition of field project	15
	1.2	Nature of field project	
	1.3	Frequency of field project	
	1.4	Selection of topic for field project.	
2.0		Review of literature	
	2.1	Review of literature	15
	2.2	Formulation of objectives	
	2.3	Methodology	
	2.4	Summary	
3.0		Data collection	
	3.1	Primary data collection and its sources	15
	3.2	Secondary data collection and its sources	
	3.3	Field survey for data collection	
	3.4	Interview technique	
4.0		Report writing and Viva Voce	
	4.1	Report writing (Analysis, Suggestions, Finding)	15
	4.2	Presentation	
	4.3	Questions, Answers	
	4.4	Report Submission	
		Total	60

Suggested Readings:

1. Balloy Stephen V. (1970)-A mode for thesis of research paper Houghton, Mifflin, Bosten, New York.
2. Bhattacharya, D. K. (2004) Research Methodology, New Delhi, Excel Books.
3. Kothari, C. R. (2005) Quantitative Technique, New Delhi, Vikas Publication House.
4. डॉ. प्रदीप आगलावे (2016): सामाजिक संशोधन पद्धतीशास्त्र व तंत्रे, श्री साईनाथ प्रकाशन, नागपूर.
5. प्रा. नीलम धुरी (2008): संशोधन पद्धती, फडके प्रकाशन, कोल्हापूर.
6. डॉ. गंगाधर कायदे पाटील(2006): संशोधन पद्धती, चैतन्य पब्लिकेशन्स, नाशिक-12



Swami Ramanand Teerth Marathwada University, Nanded

Under the Faculty of Humanities

SYLLABUS

GEOGRAPHY

**B.A./B.Sc. THIRD YEAR
(UNDER GRADUATION)**

SEMESTER PATTERN

SEMESTER SIXTH

**Effective from Academic year 2026-2027
As per NEP-2020**



Swami Ramanand Teerth Marathwada University, Nanded
Faculty of Humanities in Geography (Major)
Under Graduate Third Year Programme, Semester Sixth
Paper Code: HGEOCT1351 Paper Title: Geography of India
Curriculum Details

Pre-requisites:

1. Books, Globe, Models, ICT and Field Visit.
2. The Knowledge about Map preparation is required for this paper.

Course Objectives:

1. To know the physical, climatic regions and natural resources of India.
2. To provide in depth knowledge about Indian geography.
3. To prepare students for various competitive examinations.

Course Outcomes:

After completion of course students will be able to:

1. To depth understanding the dimensions and physiography of India.
2. The students will fully aware about the climatic season in India.
3. Detailed knowledge about the physical setup of the India.



Swami Ramanand Teerth Marathwada University, Nanded
Faculty of Humanities in Geography (Major)

Paper Code: HGEOCT1351 Paper Title: Geography of India

Curriculum Details: (for 4 Credits)

Module	Unit	Name of Topic	Hours Required to cover the contents 1Hr.=60Min.
1.0		Location, Physical Regions and Drainage	
	1.1	Location of India-India in the context of South and South East Asia	15
	1.2	India a land of diversities: Unity with in diversity	
	1.3	Physical Regions of India	
	1.4	Drainage System of India	
2.0		Climate Aspects and Soil	
	2.1	Regional and Seasonal Variation of Climate	15
	2.2	Climate Regions of India	
	2.3	The Monsoon- Western Disturbance and Nor-weaster	
	2.4	Major Soil Types, Characteristics and Distribution	
3.0		Demographic Characteristics of India	
	3.1	Population Growth and Distribution	15
	3.2	Causes and types of Migration	
	3.3	Population policy of India	
	3.4	Literacy in India	
4.0		Agriculture	
	4.1	Agriculture Regions of India and importance crops of the region	15
	4.2	Green revolution	
	4.3	Regional disparity in Agricultural growth	
	4.4	Impact of globalization on Indian agriculture	
		Total	60

Suggested Readings:

1. Deshpande C.D. – India A regional Interpretation, Northern Book Center, New Delhi-1992
2. Govt. of India – India Reference Annual 2001, Pub. D.V. New Delhi-2001
3. Govt. of India – National Atlas of India NATMO Publications, Kolkata
4. Govt. of India – The Gazetteer of India Vol.1-3 Publication Division New Delhi-1965
5. Mitra – Levels of Regional Development in India Census of India Vol.2(A)(1) & (2) New Delhi-1987
6. Shafi M. – Geography of South Asia – MC millan & Co. Calcutta-2000
7. Singh R.L. – Indian A Regional Geography National Geographical Society India, Varanasi-1971
8. Wadia D.N. – Geography of India – M.C. Millan & Co. London
9. Sharma T.C. – Economic & Commercial Geography of India – Vikas Publication House, New Delhi
10. Hussain Majid – Geography of India MC grow Hill Education (India) Chennai Pvt. Ltd-2018
11. Mamoria C.B. – Geography of India
12. Hajid Husain – Agricultural Geography
13. Chandna R.C. (2016) “Geography of Population” Kalyani Publishers, New Delhi
14. पाटील राहुल, अहिरे, गिरासे (2019): “संपूर्ण भूगोल जग व भारत”, युनीक अकॅडकमी, पूणे.
15. प्रा.शंकरराव शेते, प्रा.डॉ. किशन कणकुरे, सोमनाथ बिरादार, शिंगे (2014): “भारताचा भूगोल” अभिजीत पब्लिकेशन, लातूर.
16. प्रा. कुसुम ढोणे (2014): “भारताचा भूगोल” अरुणा प्रकाशन, लातूर.
17. ए.बी. सवदी (2015): “भूगोल व पर्यावरण” निराली प्रकाशन, पूणे.
18. ए.बी. सवदी, पी.एस. कोळेकर (2017): “भारताचा समग्र भूगोल” निराली प्रकाशन, पूणे.
19. डॉ. नितीन मुंडे, डॉ. लांडगे (2020): “भारताचा भूगोल” डायमंड बुक डेपो, पूणे.
20. डॉ. साळुंके वसुदेव, डॉ. रवींद्र भगत, डॉ. संतोष लगड (2023): “भारताचा भूगोल” डायमंड बुक डेपो, पूणे
21. डॉ. ज्योतीराम मोरे, डॉ. मुसमोडे अर्जुन (2020): “भारताचा प्रादेशिक भूगोल” डायमंड बुक डेपो, पूणे.
22. अहिरराव, अलीझाड (1994): “लोकसंख्या भूगोल” विद्याप्रकाशन, नागपूर.
23. विठ्ठल धारपुरे (2003); “लोकसंख्या भूगोल” पिंपळापुरे अँड कंपनी पब्लिशर्स, नागपूर.
24. शेते, फुले, शहापुर (2000): “लोकसंख्या भूगोल” अभिजीत पब्लिकेशनस, लातूर.
25. डॉ. ए. ए. काळगापुरे, डॉ. एस. बी. अष्टुरे, डॉ. व्ही. डी. चौधरी (2025): “लोकसंख्या भूगोल” अथर्व पब्लिकेशनस, जळगांव.
26. डॉ. अविनाश कुलकर्णी (2019): “लोकसंख्याशास्त्र” डायमंड पब्लिशर्स, पूणे.
27. डॉ. सुरेश फुले (2002): “कृषी भूगोल” विद्या भारती प्रकाशन, लातूर.
28. विठ्ठल धारपुरे (2003): “कृषी भूगोल” पिंपळापुरे अँड कंपनी पब्लिशर्स, नागपूर.
29. तिवारी सिंह “कृषी भूगोल” प्रयाग पुस्तक भवन, इलाहाबाद.
30. विजया साळुंके (2015): “कृषी भूगोल” डायमंड पब्लिकेशनस, पूणे.



Swami Ramanand Teerth Marathwada University, Nanded
Faculty of Humanities in Geography (Major)
Under Graduate Third Year Programme, Semester Sixth
Paper Code: HGEOCT1352, Title: Oceanography
Curriculum Details

Pre-requisites:

1. Books, Maps, Globe, Models
2. ICT

Course Objectives:

1. Student aware about the physical and chemical properties of ocean.
2. To familiarize the student with oceanic circulations.
3. To understand the coastal processes and diversified resources the ocean hold.

Course Outcomes:

After completion of course students will be able to:

1. Understand the basic concepts, processes and analytic tools of science of oceanography.
2. Expose students about the chemistry of ocean water, principles of motion of ocean circulation.
3. Evaluate and articulate the application and relevance of specific oceanographic topics to the world around them at a personal, community and global level.



Swami Ramanand Teerth Marathwada University, Nanded
Faculty of Humanities in Geography (Major)

Paper Code: **HGEOCT1352**, Title: **Oceanography**

Curriculum Details: (for 2 Credits)

Module	Unit	Name of Topic	Hours Required to cover the contents 1Hr.=60Min.
1.0		Introduction	
	1.1	Definition, Nature and Scope of Oceanography.	08
	1.2	Nature of Ocean Floor-Continental Shelf, Continental Slope	
	1.3	Bottom Topography of the Atlantic, Pacific and Indian Oceans.	
2.0		Ocean Temperature and Salinity	
	2.1	Physical and Chemical Properties of Sea Water.	08
	2.2	Heat and Salt Budgets of Ocean.	
	2.3	Distribution of Temperature and Salinity	
3.0		Ocean Circulations	
	3.1	Sea Waves	07
	3.2	Tides	
	3.3	Ocean currents	
4.0		Marine Deposits and Resources	
	4.1	Marine Deposits – Classification of Deposits.	07
	4.2	Coral Reefs and Coral Bleaching	
	4.3	Marine Resources: Biological Resources, Mineral Resources and Energy Resources	
		Total	30

Suggested Readings:

1. Anikouchine, W.A. and Sternberg, R.W. (1973): The World Oceans –An introduction to Oceanography, Englewood Cliffs, N.J.
2. Grald, S. (1980): General Oceanography – An Introduction, John Wiley and Sons, New York.
3. Garrison, T. (1998): Oceanography, Wadsworth.com, USA.
4. King, C.A.M. Beaches and Coasts, E. Arnold, London, 1972.
5. King, C.A.M. (1975): Oceanography for Geographers E. Arnold, London.
6. डॉ. विठ्ठल धारपुरे (2007): सागरविज्ञान, पिंपळापुरे अँड कंपनी पब्लिसर्स, नागपूर.
7. डॉ. शंकरराव शेते (2003): हवामानशास्त्र व सागर विज्ञान, अभिजित पब्लिकेशन, लातूर.
8. दाते व सौ. दाते: प्राकृतिक भूगोल, विद्या प्रकाशन, नागपूर.
9. डॉ. नागतोडे, शेख, दुधपचारे (2004): भूरूपशास्त्र व सागरविज्ञान, विद्या प्रकाशन, नागपूर.
10. डॉ. मानकरी, मंगनाळे (2014): सागरविज्ञान, अरुणा प्रकाशन, लातूर.
11. डॉ. रजनी देशमुख, कल्पना देशमुख, सीमा सावरकर, साधना भेडेकर (2005): हवामान व सागरविज्ञान, विद्या प्रकाशन, नागपूर.
12. माजीद हुसेन (2008): भौतिक भूगोल, रावत पब्लिकेशन, जयपूर.



Swami Ramanand Teerth Marathwada University, Nanded
Faculty of Humanities in Geography (Major)
Under Graduate Second Year Programme, Semester Fourth
Paper Code: HGEOCP1353, Title: GIS and Remote Sensing (Practical)
Curriculum Details

Pre-requisites:

1. SOI Toposheets, Maps, Satellite Images
2. ICT

Course Objectives:

1. To introduce students to basic concepts of Geographic Information Systems (GIS) and Remote Sensing.
2. To develop fundamental understanding of GIS and Remote Sensing concepts.
3. To enable interpretation of satellite imagery.
4. To train students in map reading and manual spatial techniques

Course Outcomes:

After completion of course students will be able to:

1. Understand basic GIS and Remote Sensing tools.
2. Use satellite imagery for real-world applications.
3. Use web-based tools like Google Earth for spatial tasks



Swami Ramanand Teerth Marathwada University, Nanded
Faculty of Humanities in Geography (Major)

Paper Code: HGEOCP1353, Title: GIS and Remote Sensing (Practical)

Curriculum Details: (for 2 Credits)

Module	Unit	Name of Topic	Hours Required to cover the contents 1Hr.=60Min.
1.0		Introduction to GIS	
	1.1	Definition of GIS	15
	1.2	Objectives and Applications of GIS	
	1.3	Components of GIS -Hardware, Software, Data, Methods and People	
2.0		GIS Input	
	2.1	Introduction of basic computer hardware and any one GIS software	15
	2.2	Scanning of SOI Toposheet / quadrant into various formats e.g. .JPEG, .BMP, .PDF, .TIFF, etc.	
	2.3	Coordinate systems -Degree Minutes Second (DMS), Degree Decimal (DD),	
3.0		Remote Sensing Interpretation	
	3.1	Introduction to satellite imagery	15
	3.2	Interpretation of satellite images (printed or digital)	
	3.3	Identification of features: vegetation, water, settlements	
4.0		Web-Based Mapping Tools	
	4.1	Location identification using Google Earth	15
	4.2	Measuring distance and area	
	4.3	Creating simple placemarks and routes	
		Total	60

Suggested Readings:

1. Burroughs, P. A. and McDonnell, R. A. (2002): Principles of Geographical Information System, Oxford University Press.
2. George J. (2004): Fundamentals of Remote Sensing, Universities Press Pvt. Ltd., Hyderabad.
3. Kang-tsung Chang (2003): Geographic Information Systems, Tata McGraw Hill, New Delhi
4. Jensen, J. R. (2003): Remote Sensing of Environment, An Earth Resource Perspective, Pearson Education Pvt. Ltd., New Delhi.
5. Joseph, G. (2003). Fundamentals of Remote Sensing, Hyderabad: University Press.
6. Ollier Lillesand, T. M., and Ralph, K. W. (2008). Remote Sensing and Image Interpretation. Singapore: John Wiley and Sons.
7. Paul R. Wolf, (2001) Elements of Photogrammetry, McGraw-Hill Science, 2001.
8. Sabins, F. F. (1996). Remote Sensing: Principles and Interpretation, San Francisco: W. H. Freeman and Company.
9. Shrikant Karlekar (2014): Geographic Information Systems, diamond publication, Pune.
10. डॉ.पौळ,डॉ.आव्हाड (२०१९): भौगोलिक माहिती प्रणाली,विद्या बुक्स पब्लीशर्स, औरंगपुरा, छत्रपती संभाजीनगर.



Swami Ramanand Teerth Marathwada University, Nanded
Faculty of Humanities in Geography (Major)
Under Graduate Third Year Programme, Semester Sixth
Paper Code: HGEOCP1354, Title: Surveying and GPS (Practical)
Curriculum Details

Pre-requisites:

1. ICT and Field Visit.
2. The Knowledge about Surveying and GPS preparation is required for this paper.

Course Objectives:

1. About introduce the students to the basic concepts of Surveying.
2. To acquaint the students with the utility and applications of GPS.
3. To create awareness about GPS with the help of survey.

Course Outcomes:

After completion of course students will be able to:

1. Acquire knowledge about the concepts of Surveying.
2. Understand the various applications of GPS.
3. Conduct field surveys using GPS instrument.



Swami Ramanand Teerth Marathwada University, Nanded
Faculty of Humanities in Geography (Major)

Paper Code: HGEOCP1354, Title: **Surveying and GPS (Practical)**

Curriculum Details: (for 2 Credits)

Module	Unit	Name of Topic	Hours Required to cover the contents 1Hr.=60Min.
1.0		Introduction to Surveying	
	1.1	Means and Principles of Surveying	15
	1.2	Types of Surveying	
	1.3	Classification of Surveying	
2.0		Survey, Correction and Conversion of Bearing	
	2.1	Chain-tape and Plane table Survey – open and close traverse	15
	2.2	Prismatic Compass and Abney Level Survey	
	2.3	Bowditch's method with correction and Conversion of bearing.	
3.0		Introduction to GPS	
	3.1	Definition and history of GPS	15
	3.2	Need of GPS	
	3.3	GPS Segments: Space, Control and User segment	
4.0		GPS Applications and GPS Survey	
	4.1	Civil and Military Application	15
	4.2	Navigation (Car and Air)	
	4.3	Demonstration of GPS and Conduct survey using GPS instrument	
		Total	60

Suggested Readings:

1. Sing and Singh: Practical Geography.
2. Khan Z.A.: Practical Geography
3. Ahmed, E. L. Rabbany (2002): Introduction to Global Positioning Systems, Artech House, Boston.
4. Agrawal, N. K. (2012): Essentials of GPS, 3rd ed., BSP Books Pvt. Ltd.
5. Alfred, Leick (2004): GPS Satellite Surveying. 3rd ed. John Wiley and Sons Inc.,
6. Bao, J., Tsui, Y. (2005): Fundamentals of Global Positioning System Receivers, John Wiley Sons, Inc., Hoboken.
7. Ghosh, J. K. (2015): A Text Book on GPS Surveying, CreateSpace Independent Pub.
8. Guochang, Xu and Yan, Xu (2016): GPS Theory, Adjustments and Applications. 3rd ed., Springer Berlin, Heidelberg.
9. Kaplan, E. D. and Hegarty, C. J. (2017): Understanding GPS/GNSS: Principles and Applications. 3rd ed. Artech House's Inc.
10. Kennedy, M. (2002): The Global Positioning System & GIS: An Introduction, Taylor & Francis, London and New York.
11. Mohinder, S. G., Lawrence, R. W. and Angus, P. A. (2001): Global Positioning Systems, Inertial Navigation and Integration, John Wiley and Sons Inc., New York
12. प्रा.अहिरराव, प्रा.करंजखेले – प्रात्यक्षिक भूगोल सुदर्शन प्रकाशन, नाशिक प्रा.अर्जुन कुंभार – प्रात्यक्षिक भूगोल फडके प्रकाशन, कोल्हापूर
13. प्रा.जे.पी.शर्मा – प्रायोगिक भूगोल मेरठ प्रकाशन, मेरठ
14. डॉ.नितीन देशमुख, डॉ.नितीन मुंडे - जागतीक स्थान निश्चिती प्रणाली (GPS) – श्रध्दा पब्लिकेशन, सोलापूर
15. डॉ. रमेश अहिरे - जागतीक स्थान निश्चिती प्रणाली (GPS): परिचय - प्राईम पब्लिकेशन, जळगाव
16. डॉ. नागतोडे व लांजेवार (2009): नकाशाशास्त्र व प्रात्यक्षिक भूगोल; पिंपळापुरे अँड कंपनी पब्लिसर्स, नागपूर
17. डॉ. कनकुरे, डॉ. मानकरी, रमेश मुगावे(2012): प्रात्यक्षिक भूगोल, अरुणाप्र काशन, लातूर.
18. डॉ. अर्जुन कुंभार (2003): प्रात्यक्षिक भूगोल, सुमेरू प्रकाशन, डोबीवली.
19. हरिलाल यादव (2011): प्रायोगिक भूगोल, राधा पब्लिकेशनस, नई दिल्ली.
20. जयकुमार मगर (1993): प्रात्यक्षिक भूगोल, विद्या प्रकाशन, नागपूर.



Swami Ramanand Teerth Marathwada University, Nanded
Faculty of Humanities in Geography (IKS)
Under Graduate Third Year Programme, Semester Sixth
Paper Code: HGEOIK1351, Title: Indian Knowledge System
Curriculum Details

Pre-requisites:

1. Books, Maps, Globe, Models
2. ICT

Course Objectives:

1. To introduce student about Geographical IKS
2. To explain the Geographical knowledge in origin of universe, Earth, continents and oceans.
3. To Study ancient Indian thinkers.

Course Outcomes:

After completion of course students will be able to:

1. Understand the IKS
2. Explain the Geographical knowledge in origin of universe, Earth, continents and oceans.
3. Study ancient Indian thinkers.



Swami Ramanand Teerth Marathwada University, Nanded
Faculty of Humanities in Geography (IKS)

Paper Code: HGEOIK1351, Title: Indian Knowledge System

Curriculum Details: (for 2 Credits)

Module No.	Unit No.	Name of Topic	Hours Required (1Hr = 60Min)
1.0		Ancient Indian Age	
	1.1	Indus Civilization Age	08
	1.2	Vedic Age	
	1.3	Epic Age	
2.0		Ancient Indian Geographical Thought	
	2.1	Origin of Universe	08
	2.2	Thought about the Earth	
	2.3	Thought about the Continents and Oceans	
3.0		Aryabhata and Varahamihar	
	3.1	Aryabhata I	07
	3.2	Aryabhata II	
	3.3	Varahamihar	
4.0		Brahmagupta and Bhaskaracharya	
	4.1	Brahmagupta	07
	4.2	Bhaskaracharya I	
	4.3	Bhaskaracharya II	
		Total	30

Suggested Readings:

- Adhikari, Sudepta (2010) Fundamentals of Geographical Thought, Chaitanya publishing House, Varanasi, India.
2. Dickinson, R. E. (1969) The Makers of Modern Geography, Routledge & Paul, London.
3. Dixit, R. D. (1997) Geographical Thought: Contextual History of Ideas, Prentice Hall of India, New Delhi.
4. Freeman, T. W. (1961) Hundred years of Geography, Duckworth, London.
5. Harvey, M. E. (2016) Themes in Geographic Thought, Rawat publications, Jaipur.
6. Hussain Majid (2015 6 th edition) Evolution of Geographical Thought, Rawat publications, Jaipur.
7. Rana, L. (2014) Geographical Thought Contemporary to Classical, Concept publishing company, New Delhi.
8. Saroj, K. Pal: Statistical Techniques-A basic Approach to Geography, McGraw Hill Publishing Co. Ltd.
9. शिंदे सु. द. (1980): आधुनिक भूगोलाचा विकास, मेहता पब्लिशिंग हाऊस, पुणे.
10. डॉ. एस. बी. शिंदे, डॉ. सी. टी. पवार, डॉ. आर. एस. आडसूळ, डॉ. पी. टी. पाटील, प्रा. एस. एस. फुले (1998): भूगोलशास्त्र विचार व संकल्पना, सप्रेम प्रकाशन कोल्हापूर.
11. डॉ. प्रकाश सावंत, डॉ. प्रकाश पाटील (1999): भूविज्ञान विचार आणि संकल्पना, फडके प्रकाशन कोल्हापूर.
12. डॉ. बी. जी. वेळापूरकर, डॉ. के. बी. कणकूरे, प्रा. एच. बी. राठोड, प्रा. व्ही. आर. उगाडे, प्रा. सौ. एस. जे. विभुते (2000): भौगोलिक विचारधारांचा विकास,
13. डॉ. एन. जी. माळी, डॉ. एस. बी. आष्टुरे, डॉ. आर. एस. भुरे (2019): भौगोलिक विचारांचा संकल्पनात्मक विकास, अरुणा प्रकाशन, लातूर.



Swami Ramanand Teerth Marathwada University, Nanded
Faculty of Humanities in Geography (Major Elective)
Under Graduate Third Year Programme, Semester Sixth

Paper Code: HGEOET1351, Title: Political Geography
Curriculum Details

Pre-requisites:

1. Books, Maps, Globe, Models
2. ICT

Course Objectives:

1. To enable students to acquire knowledge of Political Geography.
2. To understand basic concepts of Political Geography.
3. To study various theories of Political Geography.
4. To understand the frontiers and Boundaries

Course Outcomes:

After completion of course students will be able to:

1. The students are fully aware about the Political geography as a fundamental branch of Human Geography.
2. The students are familiarized with the basics and fundamental concepts and theories of Political Geography.
3. The students are aware about resource conflicts and politics of displacement.



Swami Ramanand Teerth Marathwada University, Nanded

Faculty of Humanities in Geography (Major Elective)

Paper Code: **HGEOET1351**, Title: **Political Geography**

Curriculum Details: (for 2 Credits)

Module	Unit	Name of Topic	Hours Required to cover the contents 1Hr.=60Min.
1.0		Introduction	
	1.1	Definitions, Nature and Scope of Political Geography	08
	1.2	Approaches of Political Geography	
	1.3	Significance of Political Geography	
2.0		Concepts in Political Geography	
	2.1	Concept of State and Nation	08
	2.2	Boundary	
	2.3	Frontier	
3.0		Theories in Political Geography	
	3.1	Hartland Theory - Halford J. Mackinder	07
	3.2	Rimland Theory – Nicholas J. Spykeman	
	3.3	Geostrategic importance of Indian Ocean (Strait of Hormuz and Malacca)	
4.0		Resource Disputes and Conflicts	
	4.1	Ganga Water Dispute	07
	4.2	Krishna Water Dispute	
	4.3	Sardar Sarovar Project: Issues of Relief, Compensation and Rehabilitation	
		Total	30

Suggested Readings:

1. Adhikari, S. (1997): Political Geography, Rawat Publications, Jaipur.
2. Agnew J., 2002: Making Political Geography, Arnold.
3. Agnew J., Mitchell K. and Toal G., 2003: A Companion to Political Geography, Blackwell.
4. Cox K. R., Low M. and Robinson J., 2008: The Sage Handbook of Political Geography, Sage Publications.
5. Cox K., 2002: Political Geography: Territory, State and Society, Wiley-Blackwell
6. Gallaher C., et al, 2009: Key Concepts in Political Geography, Sage Publications.
7. Glassner M., 1993: Political Geography, Wiley
8. Dikshit, R. D. (1985): Political Geography, A Contemporary Perspective, McGraw Hill, New Delhi.
9. Dwivedi, R. L. (1996): Political Geography, Chaitanya Prakashan, Allahabad.
10. Dikshit, R.D. (1996): Political Geography: A Contemporary Perspective. Tata McGraw hill, New Delhi.
11. Jones M., 2004: An Introduction to Political Geography: Space, Place and Politics, Routledge.
12. Mathur H M and M M Cernea (eds.) Development, Displacement and Resettlement – Focus on Asian Experience, Vikas, Delhi.
13. Muir, Richard (1995): Modern Political Geography, Macmillan, London.
14. Pounds, N. J. G. (1972): Political Geography 2nd Ed. McGraw Hill, N. Y.
15. Painter J. and Jeffrey A., 2009: Political Geography, Sage Publications.
16. Sharma, T. C.: Political Geography.
17. Sukhwai B.L. (1968): Modern Political Geography of India, Sterling Publishers, New Delhi
18. Taylor P. and Flint C., 2000: Political Geography, Pearson Education.
19. Verma M K (2004): Development, Displacement and Resettlement, Rawat Publications, Delhi
20. विठल धारपुरे (2001): राजकीय भूगोल, पिंपळापुरे अँड कंपनी पब्लिसर्स, नागपूर.
21. मोहन गुळवे: राजकीय भूगोल, कैलास पब्लिकेशन औरंगपुरा, औरंगाबाद.
22. एस. आर. लाटकर, अ. श्री. आपटे (2009): राजकीय भूगोल, विद्या प्रकाशन, नागपूर.
23. डॉ. जयकुमार मगर (2008): राजकीय भूगोल, विद्या प्रकाशन, नागपूर.



Swami Ramanand Teerth Marathwada University, Nanded
Faculty of Humanities in Geography (Major Elective)
Under Graduate Third Year Programme, Semester Sixth
Paper Code: **HGEOET1352**, Title: **General Geography (OR)**
Curriculum Details

Pre-requisites:

1. Books, Maps, Globe, Models
2. ICT

Course Objectives:

1. To understand key concepts in physical, environmental and economic geography.
2. To study the role of industrialization, urbanization and globalization.
3. To develop awareness of environmental and sustainability issues.

Course Outcomes:

After completion of course students will be able to:

1. Explain basic geographical and environmental concepts.
2. Analyze industrial, urban and economic processes.
3. Evaluate contemporary issues like globalization and sustainable development



Swami Ramanand Teerth Marathwada University, Nanded

Faculty of Humanities in Geography (Major Elective)

Paper Code: HGEOET1352, Title: General Geography (**OR**)

Curriculum Details: (for 2 Credits)

Module	Unit	Name of Topic	Hours Required to cover the contents 1Hr.=60Min.
1.0		Geological Time and Celestial Systems	
	1.1	Geological Time Scale	08
	1.2	Zodiac sign	
	1.3	Constellation	
2.0		Rotation and Revolution of the Earth	
	2.1	Rotation- Formation of Day and Night	08
	2.2	Revolution- Formation of Seasons	
	2.3	Solar Eclipse and Lunar Eclipse	
3.0		Health and Environment	
	3.1	Effects of pollution on human health	07
	3.2	Food and nutrition-related illnesses	
	3.3	Waste disposal, sanitation and its impact on health	
4.0		Contemporary issues	
	4.1	Globalization and the Indian Economy	07
	4.2	Concept of sustainable growth and development	
	4.3	Linkages of river	
		Total	30

Suggested Readings:

1. D. R. Khullar Geography Tata McGraw Hill series
2. Purvis, Martin & Grainger, Alan *Exploring Sustainable Development: Geographical Perspectives*, Routledge. 2005
3. Anand, Subhash et al. *Emerging Geosustainability Transformations in India*, Springer. 2025
4. Melinda S. Meade & Michael Emch Medical Geography Guilford Press 2010
5. Brown, Tim McLafferty, Sara Moon, Graham A companion to health and medical geography
Wiley & Sons Ltd 2009
6. Dr. Mallika Sakoor Medical Geography, Neptune Publication (Pvt.) Ltd, Sri Lanka, 2020.
7. प्रा. देवेंद्र मस्की, डॉ. संजय भैसे (2014): आरोग्य भूगोल
8. स्वास्थ्य भूगोल हरीश कुमार खत्री (2019): कैलाश पुस्तक सदन भोपाल
9. प्रा.सु.प्र.दाते व प्राध्यापिका सौ.संजीवनी दाते: प्राकृतिक भूगोल, अनिरुद्ध पब्लिशिंग हाउस, पुणे.



Swami Ramanand Teerth Marathwada University, Nanded
Faculty of Humanities in Geography (Major Elective)
Under Graduate Third Year Programme, Semester Sixth
Paper Code: **HGEOEP1353**, Title: **Practical Geography**
Curriculum Details

Pre-requisites:

1. Weather instruments, Books, Maps, Globe, Models
2. ICT

Course Objectives:

1. To become familiar with weather instruments and their functions
2. To give the skills and techniques to draw climatic graphs and diagrams
3. To Prepare the excursion and village survey report.

Course Outcomes:

After completion of course students will be able to:

1. Understand the Structure and functions of weather Instruments
2. Draw climatic graphs and diagrams and analyse data
4. Prepare the excursion and village survey report.



Swami Ramanand Teerth Marathwada University, Nanded

Faculty of Humanities in Geography (Major Elective)

Paper Code: HGEOEP1353, Title: Practical Geography

Curriculum Details: (for 2 Credits)

Module	Unit	Name of Topic	Hours Required to cover the contents 1Hr.=60Min.
1.0		Weather Instruments (Mechanism, Function and Use)	
	1.1	Dry and Wet Bulb Thermometer	15
	1.2	Aneroid Barometer	
	1.3	Wind vane	
2.0		Climatic Graphs and Diagrams	
	2.1	Simple Star Diagram	15
	2.2	Compound Wind Rose	
	2.3	Octagonal Wind Rose	
3.0		Representation of Climatic Data	
	3.1	Drawing of Isolines	15
	3.2	Ergograph	
	3.3	Identification of climatic types according to Thornthwaite	
4.0		Field Visit and Preparation of Report	
	4.1	Students to be taken on a field visit for one day to nearby Village/ Town.	15
	4.2	To prepare the report with maps	
	4.3	Sketches and photographs	
		Total	60

Suggested Readings:

1. Croxton & Cowden: Applied General Statistics
2. Hammod & Mc Gullah: Quantitative Techniques in Geography
3. Khan Z.A.: Textbook of Practical Geography
4. Mishra R.P. and Ramesh A.: Fundamentals of Cartography
5. Pal, S.K.: Statistics for Geoscientists
6. Robinson, A.H.: Elements of Cartography
7. Sarkar A.K.: Practical Geography-A Systematic Approach
8. Sing, R.L. and Dutt, P.K. (1979): Elements of Practical Geography Kalyani Publishers, New Delhi.
9. Singh and Singh: Mapwork and Practical Geography
10. Sarkar, A. (1997): Practical Geography – A Systematic Approach – Orient Longman Calcutta.
11. जे.पी. शर्मा (1993): प्रात्यक्षिक भूगोल, रस्तोगी प्रकाशन, मेरठ.
12. डॉ. डी. वाय. अहिराव, प्रा.इ.के. करंजखेल(2010): प्रात्यक्षिक भूगोल; सुदर्शन प्रकाशन, गंगापूर रोड, नाशिक.
13. डॉ. नागतोडे व लांजेवार (2009): नकाशाशास्त्र व प्रात्यक्षिक भूगोल; पिंपळापुरे अँड कंपनी पब्लिसर्स, नागपूर.
14. डॉ. कनकुरे, डॉ. मानकरी, रमेश मुगावे (2012): प्रात्यक्षिक भूगोल, अरुणा प्रकाशन, लातूर.
15. डॉ.अर्जुन कुंभार (2003):प्रात्यक्षिक भूगोल, सुमेरू प्रकाशन, डोबीवली
16. हरिलाल यादव (2011): प्रायोगिक भूगोल.राधा पब्लिकेशनस नई दिल्ली
17. जयकुमार मगर (1993): प्रात्यक्षिक भूगोल, विद्या प्रकाशन, नागपूर.
18. पी .एल .मिश्र (2010): प्रायोगिक भूगोल, विश्व भारती पब्लिकेशनस, नई दिल्ली.
19. रामचंद्र तिवारी,सुधाकर त्रिपाठी (2009): प्रायोगिक भूगोल,प्रयाग पुस्तक भवन,इलाहाबाद



Swami Ramanand Teerth Marathwada University, Nanded
Faculty of Humanities in Geography (VSC)
Under Graduate Third Year Programme, Semester Sixth
Paper Code: HGEOVC1351, Title: Development of Weather Map
Curriculum Details

Pre-requisites:

1. Books, Maps, Globe, Models
2. ICT

Course Objectives:

1. To introduce the basic concepts in weather and Climate.
2. Using of weather information.
3. Interpret and analyse metrological data: To learn the method of interpreting weather information obtained from weather maps.
4. To Prepare the excursion and preparation report.

Course Outcomes:

After completion of course students will be able to:

1. Develop practical skill and use of map.
2. Record and interpret weather data.
3. Understand and interpret the IMD weather maps.
4. Engage in field observations and reporting.



Swami Ramanand Teerth Marathwada University, Nanded

Faculty of Humanities in Geography (VSC)

Paper Code: HGEOVC1351, Title: Development of Weather Map

Curriculum Details: (for 2 Credits)

Module	Unit	Name of Topic	Hours Required to cover the contents 1Hr.=60Min.
1.0		Introduction of weather and Climate	
	1.1	Meaning and definition of weather and Climate	15
	1.2	Importance to study of weather and climate	
	1.3	Elements of weather and climate	
2.0		Use of weather information	
	2.1	Use of weather information in agriculture	15
	2.2	Use of weather information in tourism	
	2.3	Use of information in economic activity	
3.0		Interpretation of Indian weather maps	
	3.1	Study of Indian metrology department apps (IMD apps: Mausam App, Weather & Radar App, Damini App)/ website. https://mausam.imd.gov.in/imd_latest/contents/satellite.php	15
	3.2	Component of Indian metrology department apps	
	3.3	Interpretation of Indian weather maps.	
4.0		Field Studies	
	4.1	Identification of study area (district/ taluka /local)	15
	4.2	Data collection of weather elements	
	4.3	Preparation report	
		Total	60

Suggested Readings:

1. Croxton & Cowden: Applied General Statistics
2. Hammod & Mc Gullah: Quantitative Techniques in Geography
3. Khan Z.A.: Textbook of Practical Geography
4. Mishra R.P. and Ramesh A.: Fundamentals of Cartography
5. Pal, S.K.: Statistics for Geoscientists
6. Robinson, A.H.: Elements of Cartography
7. Sarkar A.K.: Practical Geography-A Systematic Approach
8. Sing, R.L. and Dutt, P.K. (1979): Elements of Practical Geography Kalyani Publishers, New Delhi.
9. Singh and Singh: Mapwork and Practical Geography
10. Sarkar, A. (1997): Practical Geography – A Systematic Approach – Orient Longman Calcutta.
11. जे.पी. शर्मा (1993): प्रात्यक्षिक भूगोल, रस्तोगी प्रकाशन, मेरठ.
12. डॉ. डी. वाय. अहिरराव, प्रा.इ.के. करंजखेल (2010): प्रात्यक्षिक भूगोल; सुदर्शन प्रकाशन, गंगापूर रोड, नाशिक.
13. डॉ. नागतोडे व लांजेवार (2009): नकाशाशास्त्र व प्रात्यक्षिक भूगोल; पिंपळापुरे अँड कंपनी पब्लिसर्स, नागपूर.
14. डॉ. कनकुरे, डॉ. मानकरी, रमेश मुगावे(2012): प्रात्यक्षिक भूगोल, अरुणा प्रकाशन, लातूर.
15. डॉ.अर्जुन कुंभार (2003):प्रात्यक्षिक भूगोल, सुमेरू प्रकाशन, .डोबीवल
16. हरिलाल यादव (2011): प्रायोगिक भूगोल..राधा पब्लिकेशनस नई दिल्ली
17. जयकुमार मगर (1993): प्रात्यक्षिक भूगोल, विद्या प्रकाशन, नागपूर.
18. पी .एल .मिश्र (2010): प्रायोगिक भूगोल, विश्व भारती पब्लिकेशनस, नई दिल्ली.
19. रामचंद्र तिवारी,सुधाकर त्रिपाठी (2009): प्रायोगिक भूगोल,प्रयाग पुस्तक भवन,इलाहाबाद



Swami Ramanand Teerth Marathwada University, Nanded
Faculty of Humanities in Geography (OJT)
Under Graduate Third Year Programme, Semester Sixth
Paper Code: HGE00J1351, Title: On Job Training
Curriculum Details

Pre-requisites:

Course Objectives:

1. To give hands-on experience and practical training to students in different sectors related to geography.
2. To develop marketable skills among students.
3. To expose students to different industrial, educational, research institutes and future employers.
4. To apply their knowledge in real situations.
5. To gain experience in writing technical reports

Course Outcomes:

After completion of course students will be able to:

1. Embrace different pathways of learning, including experiential learning.
2. Understand the social, economic and administrative considerations that influence the working environment of different organizations.
3. Learn new strategies like time management, multi-tasking and new skills.
4. Get an opportunity to meet new people and learn networking skills



Swami Ramanand Teerth Marathwada University, Nanded
Faculty of Humanities in Geography (OJT)

Paper Code: HGE00J1351, Title: **On Job Training**

Curriculum Details: (for 4 Credits)

Guidelines

- For on-job training, the students will be attached with the local institutions and employing establishments, which have laboratory/workshop, other related facilities and where adequate supervision by qualified personnel will be available.
- A student is expected to spend not less than 60 working hours on On-job training and related activities.
- On-job training will be carried in the summer vacation after the students complete their second semester examinations.
- Students need to provide the confirmation letter from the organization or the institute where they have joined for on-job training.
- The continuous evaluation of the students' performance in the on job-Training will be carried out with the assistance of the personnel of training institutions/employing establishments where this training will be imparted.
- The proof of completion of on-job training (work experience certificate and field report) should be submitted during examination to the parent institution, duly issued and signed by the concerned training authority.
- **Internship:**
An internship is a structured professional learning experience that provides students with practical and meaningful work aligned with their field of study or career interests. It enables students to explore career options, develop professionally, and acquire new skills through real-world exposure.
- **On-the-Job Training:**
On-the-job training is a method of learning that takes place directly within the workplace. During this process, employees become acquainted with the actual work environment they will be part of. It also provides them with practical experience in handling machinery, equipment, tools, and materials, helping them develop job-related skills effectively.
 - 1. Agro-based business
 - 2. Small service business
 - 3. Technical repair work
 - 1 skill + 1 service business = guaranteed income

- Crop Production & Farm Management, Seed Technology & Nursery Management, Animal Husbandry & Dairy Business, Agro-based Industries, Agricultural Machinery & Technology, Soil, Water Testing & Research, Agricultural Business & Marketing, Agricultural Extension & Support Services, Horticulture & Floriculture Home Food Service, Digital Service Center, Event Management, RO Water Purifier Service, CCTV & Electrical Service, Two Wheeler/Bike Repairing Garage, Beauty Parlor, Tailoring/Boutique, Computer/Cyber Cafe, Mobile Repairing Center etc. Agriculture, trade and transport, tourism, economic, computer center (cartography data analysis geographical software use of AI in geography etc) GIS& remote sensing, solar energy center, major industry, micro industry.

Note: OJT / Internship Guidelines and Policy Document Available of website: S. R. T. M. University, Nanded.

Guidelines for Course Assessment:

A. Continuous Assessment (CA) (40% of the Maximum Marks):

This will form 40% of the Maximum Marks and will be carried out throughout the semester. It may be done by conducting **Two Tests, one Assignment and Attendance**. Marks scored in these two tests and one assignment of a theory paper will make CA.

B. End Semester Assessment (60% of the Maximum Marks):

(For illustration we have considered a paper of 02 credits, 50 marks and need to be modified depending upon credits of individual paper)

1. ESE Question paper will consist of 5 questions. Each of 10 marks for 2 Cr. pattern, 15 marks for 3 Cr. Pattern and 20 marks for 4 Cr. Pattern. (BOS may change scheme of marking.)
2. There will be 4 sub questions in Question No.1
3. Question No.1 will be compulsory and shall be based on entire syllabus.
4. Students are required to solve a total of 3 Questions.
5. Students need to solve ANY Two of the remaining Four Question (Q.2toQ.5) and shall be based on entire syllabus.

C. Assessment of Term Work/Tutorial/Fieldworks:

At least 06 test / assignments covering entire syllabus must be given during the 'class wise tutorial'. The assignments should be students' centric and attempts be made to make assignments more meaningful, interesting and innovative.

Term work assessment must be based on overall performance of the student with every assignment graded time to time. The grades be converted to marks as per 'credit and grading system' manual and should be added and averaged.

D. Assessment of Community Engagement Services:

Students have freedom to take more than one CES/CC courses; however, marks of the best performing CES/CC be considered for final assessment. Assessment of the CES/CC courses be done by the respective course coordinators depending on the performance of the student and his participation in the international, national, state, university, college level events or camps, wherever applicable. In other cases, performance of a student be assessed depending on his/her regularity, participation in the regular activities in the semester.

Note: Number of lectures required to cover syllabus of a course depend on number of credits assigned to it. For example, for a two credits course, 30 lectures each of one hour duration are assigned, while that for a three credits course 45 lectures.



Swami Ramanand Teerth Marathwada University, Nanded

Faculty of Humanities in Geography (*Major*)

Under Graduate Third Year Programme, Semester Fifth/Sixth

Major Theory Question Paper
Pattern (2 Credits) with
effective from 2026-27

Time:1.30 Hrs.

Marks:30

-
- i) Question No.1 will be compulsory and shall be based on entire syllabus.
 - ii) Students are required to solve a total of 3 Questions.
 - iii) Students need to solve *ANY Two* of the remaining Four Question (Q.2 to Q.5) and shall be based on entire syllabus.

Q. 1) Write a short answer	10
a)	
b)	
c)	
d)	
Q. 2) Descriptive Questions	10
Q. 3) Descriptive Questions	10
Q. 4) Descriptive Questions	10
Q. 5) Descriptive Questions	10



Swami Ramanand Teerth Marathwada University, Nanded
Faculty of Humanities in Geography (*Major*)
Under Graduate Third Year Programme, Semester Fifth/Sixth

Major Theory Question Paper
Pattern (4 Credits) with
effective from 2026-27

Time:2.30 Hrs.

Marks:60

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- i) Question No.1 will be compulsory and shall be based on entire syllabus.
ii) Students are required to solve a total of 3 Questions.
iii) Students need to solve *ANY Two* of the remaining Four Question (Q.2 to Q.5) and shall be based on entire syllabus.

Q. 1)	Write a short answer.	20
	a)	
	b)	
	c)	
	d)	
Q. 2)	Descriptive Questions	20
Q. 3)	Descriptive Questions	20
Q. 4)	Descriptive Questions	20
Q. 5)	Descriptive Questions	20

Swami Ramanand Teerth Marathwada University, Nanded

Faculty of Humanities in Geography (*Major*)

Under Graduate Third Year Programme, Semester Fifth

Paper Code: **HGEOCP1303** Title: **Statistical Method (*Practical*)**

End of Semester Examination (ESE)

Practical Question Paper Pattern (2 Credits)

Time:3Hrs.

Marks:30

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- | | |
|---|----|
| Q.1) Meaning and Importance of Statistics/ Data Collection / Tally Marks (Anyone) | 06 |
| Q.2) Measurement of Central Tendencies (Mean /Median / Mode- Any One) | 06 |
| Q.3) Measurement of Deviation (Any One) | 06 |
| Q.4) Frequency Distribution (Histogram / Polygon/ Ogive Curve- Any One) | 06 |
| Q.5) Journal and Viva-voce. | 06 |
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Swami Ramanand Teerth Marathwada University, Nanded

Faculty of Humanities in Geography (*Major*)

Under Graduate Third Year Programme, Semester Fifth

Paper Code: **HGEOCP1304** Title: **Projections (*Practical*)**

End of Semester Examination (ESE)

Practical Question Paper Pattern (2 Credits)

Time:3Hrs.

Marks:30

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- | | |
|---|----|
| Q.1) Meaning, Classification / Properties and uses of Projections | 06 |
| Q.2) Construction of Zenithal Projection (Any One) | 06 |
| Q.3) Construction of Conical Projection (Any One) | 06 |
| Q.4) Construction of Cylindrical Projection (Any One) | 06 |
| Q.5) Journal and Viva-voce. | 06 |
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Swami Ramanand Teerth Marathwada University, Nanded
Faculty of Humanities in Geography (*Major Elective*)

Under Graduate Third Year Programme, Semester Fifth

Paper Code: HGEOEP1303 Title: Practical Geography

End of Semester Examination (ESE)

Practical Question Paper Pattern (2 Credits)

Time:3Hrs.

Marks:30

Q.1) Definition and Branches of Cartography/Importance and applications of cartographic technique.06

Q.2) Cartographic Technique (Any One) 06

Q.3) Application of Computer Cartography (Any One) 06

Q.4) Tour and Preparation of Report 06

Q.5) Journal and Viva-voce. 06



Swami Ramanand Teerth Marathwada University, Nanded
Faculty of Humanities in Geography (*Major*)
Under Graduate Third Year Programme, Semester Sixth
Paper Code: HGEOCP1353 Title: GIS and Remote Sensing (*Practical*)
End of Semester Examination (ESE)
Practical Question Paper Pattern (2 Credits)

Time:3Hrs.

Marks:30

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- | | |
|--|----|
| Q.1) Definition, Objectives and application of GIS / Components of GIS | 06 |
| Q.2) GIS Input (Any One) | 06 |
| Q.3) Remote Sensing Interpretation (Any One) | 06 |
| Q.4) Web-Based Mapping Tools (Any One) | 06 |
| Q.5) Journal and Viva-voce. | 06 |
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Swami Ramanand Teerth Marathwada University, Nanded
Faculty of Humanities in Geography (*Major*)
Under Graduate Third Year Programme, Semester Sixth
Paper Code: HGEOCP1354 Title: Surveying and GPS (*Practical*)
End of Semester Examination (ESE)
Practical Question Paper Pattern (2 Credits)

Time:3Hrs.

Marks:30

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- | | |
|---|----|
| Q.1) Principles and Classification of Surveying | 06 |
| Q.2) Surveying- Chain Tape/ Plane Table/ Prismatic Compass/ Correction of Bearing Using Bowditch's Method (Any One) | 06 |
| Q.3) Definition, history and need of GPS/ GPS segments (Any One) | 06 |
| Q.4) GPS Applications and GPS Survey (Any One) | 06 |
| Q.5) Journal and Viva-voce. | 06 |
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Swami Ramanand Teerth Marathwada University, Nanded

Faculty of Humanities in Geography (*Major Elective*)

Under Graduate Third Year Programme, Semester Sixth

Paper Code: HGEOEP1253 Title: Practical Geography

End of Semester Examination (ESE)

Practical Question Paper Pattern (2 Credits)

Time:3Hrs.

Marks:30

Q.1) Weather Instruments (Mechanism, Function and Use) Any One	06
Q.2) Climatic Graphs and Diagrams (Any One)	06
Q.3) Representation of Climatic data (Any One)	06
Q.4) Field Visit and Preparation of Report	06
Q.5) Journal and Viva-voce.	06

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