



SHIVAJI UNIVERSITY, KOLHAPUR-416 004. MAHARASHTRA

PHONE : EPABX-2609000 GRAM : UNISHIVAJI
FAX 0091-0231-2691533 & 0091-0231-2692333 - BOS 2609094

शिवाजी विद्यापीठ, कोल्हापूर - ४१६ ००४.

दुरध्वनी : (ईपीएबीएक्स) २६०९००० BOS. २६०९०९४ तार : युनिशिवाजी

फॅक्स : ००९१-०२३१-२६९१५३३ व २६९२३३३. e-mail : bos@unishivaji.ac.in

B
Accredited By NAAC
(2009)



SU/BOS/Science/42

Date:-24-06-2013

1) The Principal,
All Affiliated Colleges/Institutes
Shivaji University, Kolhapur.

2) The Head/Co-ordinator/Director
All Department (Science).
Shivaji University, Kolhapur.

Subject: Regarding revised syllabi ,nature of question paper, structure and equivalence of various courses under the Faculty of Science.

Sir/Madam,

With reference to the subject mentioned above, I am directed to inform you that the university authorities have accepted and granted approval to the revised syllabi, structure and equivalence of various courses under the Faculty of Science as mentioned below.

Sr.No.	Name of Syllabi		
a)	M.Sc. Part-I (Sem.I& II) C.B.C.S.		
1	M.Sc. Botany	11	M.Sc. Computer Science
2	M.Sc. Botany T & D	12	M.Sc. Food Science & Quality Control
3	M.Sc. Applied Chemistry	13	M.A./M.Sc. Geography
4	M.Sc. Geology	14	M.Sc. Statistics
5	M.Sc. Mathematics	15	M.Sc. Applied Statistics & Informatics
6	M.Sc. Microbiology	16	M.Sc. Electronics
7	M.Sc. Applied Microbiology	17	M.Sc. Industrial Chemistry
8	M.Sc. Physics	18	M.Sc. Environmental Science
9	M.Sc. Zoology	19	M.Sc. Biochemistry
10	M.Sc. Biotechnology	20	M.Sc. A.G.P.M.
b)	M.Sc. Part-II (Sem.III& IV) C.B.C.S.		
1	M.Sc. Chemistry	3	M.Sc. Applied Microbiology
2	M.Sc. Applied Chemistry	C)	M.C.A Part-I (Sem.I & II) C.B.C.S.

The revised syllabi shall be implemented from the academic year 2013-2014 (i.e. from June, 2013) onwards. A CD containing revised syllabi, structure, nature of question paper and equivalence is enclosed herewith. All the syllabi is also available on university website www.unishivaji.ac.in.

Further, it is hereby informed that the syllabi, pattern of examination & Credit System will be same for the University Department & Affiliated Colleges. The question papers on the pre-revised syllabi of above courses/ subjects will be set for examinations to be held in October/November 2013, March/April 2014, October/November 2014 and March/April- 2015. These four chances are available for repeater students if any.

You are therefore requested to bring this to the notice of all students and teachers concerned.
Thanking you,

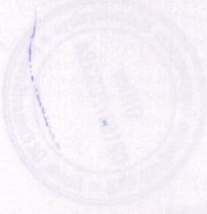
Yours faithfully,

Sd/-
Dy Registrar

Encl: CD
Copy to:

1) Dean, Faculty of Science	6) B.A. Section
2) Chairman, Board of Studies & Ad-hoc Boards under Faculty of Science.	7) B.Com. Section
3) Appointment Section	8) B.Sc. Section
4) Affiliation Section	9) Distance Education
5) Eligibility Section	10) Computer Centre

Rajawade
T/C PRINCIPAL
Raja Shripatrao Bhagwantrao
Mahavidyalaya, Aundh (Satara)



Shivaji University, Kolhapur
Department of Geography
(Faculty of Science and Technology)



Revised Syllabus of
M.A./M.Sc. Geography
(Choice Based Credit System)

Implemented From...

Part I - Academic Year 2019-20 onwards
(i.e., from June 2019)

Part II - Academic Year 2020-21 onwards
(i.e., from June 2020)

Phone: +91-0231-2609194
Fax: +91-0231-2691533

Email: geography@unishivaji.ac.in
Web: <http://www.unishivaji.ac.in/dptgoe/>

Shandau
T/O PRINCIPAL
Raja Shripatrao Bhagwantrao
Mahavidyalaya, Aundh (Satara)



Revised Syllabus of M.A./M.Sc. Geography (from Academic Year 2019-20)

M.A./M.Sc. Geography Programme Structure (CBCS PATTERN) (2019-20 onwards) M.A./M.Sc. Part – I

SEMESTER-I (Duration- Six Month)											
	Sr. No.	Course Code	Teaching Scheme			Examination Scheme					
			Theory and Practical			University Assessment (UA)			Internal Assessment (IA)		
			Lectures (Per week)	Hours (Per week)	Credit	Maximum Marks	Minimum Marks	Exam. Hours	Maximum Marks	Minimum Marks	Exam. Hours
CGPA	1	CC-101	4	4	4	80	32	3	20	8	1
	2	CC-102	4	4	4	80	32	3	20	8	1
	3	CC-103	4	4	4	80	32	3	20	8	1
	4	CC-104	4	4	4	80	32	3	20	8	1
	5	CCPr-105	16	16	8	200	80	*	--	--	--
Total (A)			--	--	24	520	--	--	80	--	--
Non-CGPA	1	AEC-106	2	2	2	--	--	--	50	20	2
SEMESTER-II (Duration- Six Month)											
CGPA	1	CC-201	4	4	4	80	32	3	20	8	1
	2	CC-202	4	4	4	80	32	3	20	8	1
	3	CCS-203	4	4	4	80	32	3	20	8	1
	4	CCS-204	4	4	4	80	32	3	20	8	1
	5	CCPr-205	16	16	8	200	80	*	--	--	--
Total (B)			--	--	24	520	--	--	80	--	--
Non-CGPA	1	SEC-206	2	2	2	--	--	--	50	20	2
Total (A+B)					48	1040	--	--	160	--	--

M.A./M.Sc. Geography Programme Structure (CBCS PATTERN) (2020-21 onwards) M.A./M.Sc. Part – II

SEMESTER-III (Duration- Six Month)											
	Sr. No.	Course Code	Teaching Scheme			Examination Scheme					
			Theory and Practical			University Assessment (UA)			Internal Assessment (IA)		
			Lectures (Per week)	Hours (Per week)	Credit	Maximum Marks	Minimum Marks	Exam. Hours	Maximum Marks	Minimum Marks	Exam. Hours
CGPA	1	CC-301	4	4	4	80	32	3	20	8	1
	2	CCS-302	4	4	4	80	32	3	20	8	1
	3	DSE-303	4	4	4	80	32	3	20	8	1
	4	DSE-304	4	4	4	80	32	3	20	8	1
	5	CCPr-305	16	16	8	200	80	*	--	--	--
Total (C)			--	--	24	520	--	--	80	--	--
Non-CGPA	1	AEC-306	2	2	2	--	--	--	50	20	2
	2	EC (SWM MOOC)-307	Number of lectures and credit shall be as specified on SWAYAM MOOC								
SEMESTER-IV (Duration- Six Month)											
CGPA	1	CC-401	4	4	4	80	32	3	20	8	1
	2	CCS-402	4	4	4	80	32	3	20	8	1
	3	DSE-403	4	4	4	80	32	3	20	8	1
	4	DSE-404	4	4	4	80	32	3	20	8	1
	5	CCPr-405	16	16	8	200	80	*	--	--	--
Total (D)			--	--	24	520	--	--	80	--	--
Non-CGPA	1	SEC-406	2	2	2	--	--	--	50	20	2
	2	GE-407	2	2	2	--	--	--	50	20	2
Total (C+D)					48	1040	--	--	160	--	--



Revised Syllabus of M.A./M.Sc. Geography (from Academic Year 2019-20)

Note(s):

•Student contact hours per week : 32 Hours (Min.)	•Total Marks for M.A./M.Sc.-I : 1200 •Total Marks for M.A./M.Sc.-II : 1200
•Theory and Practical Lectures : 60 Minutes Each	•Total Credits for M.A./M.Sc.-I (Semester I & II) : 48 •Total Credits for M.A./M.Sc.-II (Semester III & IV) : 48
•CC- Core Course •CCS- Core Course Specialization •CCPr- Core Course Practical •DSE- Discipline Specific Elective •AEC- Mandatory Non-CGPA compulsory Ability Enhancement Course •SEC- Mandatory Non-CGPA compulsory Skill Enhancement Course •EC (SWM MOOC) - Non-CGPA Elective Course •GE- Generic Elective	•Practical Examination is annual •Practical courses are divided into 2 or 3 sections •Duration of practical examination as per respective BOS guidelines •Separate passing is mandatory for Theory, Internal and Practical examination

	M.A./M.Sc.-I	M.A./M.Sc.-II	Total
Marks	1200	1200	2400
Credits	48	48	96

I. CGPA Courses:

1. There shall be 12 Core Courses (CC) of 64 Credits (including 32 credits for 4 practical courses)
2. There shall be 04 Core Course Specialization (CCS) of 16 credits.
3. There shall be 04 Discipline Specific Elective (DSE) courses of 16 credits.
4. Total credits for CGPA courses shall be of 96 credits.

II. Mandatory Non-CGPA Courses:

1. There shall be 02 Mandatory Non-CGPA compulsory Ability Enhancement Courses (AEC) of 02 credits each.
2. There shall be 02 Mandatory Non-CGPA compulsory Skill Enhancement Course (SEC) of 02 credits each.
3. There shall be one Elective Course (EC) (SWAYAM MOOC). The credits of this course shall be as specified on SWAYAM MOOC.
4. There shall be one Generic Elective (GE) course of 02 credits. Each student has to take generic elective from the department other than parent department.
5. The total credits for Non-CGPA course shall be of 10 credits + 2/4 credits of EC as per availability.
6. The credits assigned to the course and the programme to be earned by the students and shall not have any relevance with the work load of the teacher.

Programme and Course Guidelines (for CGPA Courses):

1. **Title of the Course:** M.A./M.Sc. in Geography
2. **Year of Implementation:** Revised syllabus will be implemented from academic year 2019-20.
3. **Programme Duration:** The M.A./M.Sc programme duration is of two years comprising of four semesters. Each semester spanning for 6 months of minimum 120 working days (minimum 90 teaching days).
4. **Scheme of Examination:**

Paper Type	*Internal Marks	University Assessment	Total Marks	Credit per Course	No. of Course	Total Credits
Theory	20	80	100	04	16	64
Practical / Project	--	200	200	08	04	32

*Note: Internal marks for each theory course - 20 marks (Class Test: 10 marks; Assignment/Seminar: 10 marks)



5. Course Structure (CBCS):

Paper No.	Course Title	Teaching hours per week	Credits
M.A./M.Sc. Geography Sem. I			
CC-101	Fundamentals of Geomorphology	4	4
CC-102	Principles of Climatology	4	4
CC-103	Economic Geography	4	4
CC-104	Geography of Population and Human Resource Development	4	4
CCPr-105 (Annual)	105.1 Practicals in Geomorphology and Surveying	16	8
	105.2 Analysis of Climatic Data		
	105.3 Analysis of Socio-economic Data		
CGPA - Total Credit (Cumulative)			24 (24)
AEC-106	Ability Enhancement Course	--	2
Non-CGPA - Total Credit (Cumulative)			02 (02)
M.A./M.Sc. Geography Sem. II			
CC-201	Applied Geomorphology	4	4
CC-202	Applied Climatology and Climate Change	4	4
CCS-203	Advanced Cartography and Surveying	4	4
CCS-204	Social and Cultural Geography	4	4
CCPr-205 (Annual)	205.1 Computer Applications in Geography	16	8
	205.2 Statistical Techniques in Geography		
	205.3 Quantitative Techniques in Geography		
CGPA - Total Credit (Cumulative)			24 (48)
SEC-206	Skill Enhancement Course	--	2
Non-CGPA - Total Credit (Cumulative)			02 (04)
M.A./M.Sc. Geography Sem. III			
CC-301	Geohydrology and Oceanography	4	4
CCS-302	Fundamentals of Remote Sensing and Digital Image Processing	4	4
DSE-303 (Optional)	Geography of Environment OR Biogeography	4	4
DSE-304 (Optional)	Settlement Geography OR Geography of India OR Political Geography	4	4
CCPr-305 (Annual)	305.1 Research Methodology and Geographical Excursion - 2 Credits	16	8
	305.2 Dissertation/ Project - 6 Credits		
CGPA - Total Credit (Cumulative)			24 (72)
AEC-306	Ability Enhancement Course	--	2
EC-307	Elective Course (SWAYAM MOOC)	--	2/4
Non-CGPA - Total Credit (Cumulative)			4/6 (8/10)
M.A./M.Sc. Geography Sem. IV			
CC-401	Development of Modern Geographical Thought	4	4
CCS-402	Regional Planning and Development	4	4
DSE-403 (Optional)	Fundamentals of GIS and Introduction to GPS OR Fundamentals of Soil Geography	4	4
DSE-404 (Optional)	Agricultural Geography OR Tourism Geography OR Geography of Health	4	4
CCPr-405 (Annual)	405.1 Photogrammetry and Remote Sensing - 4 Credits	16	8
	405.2 Introduction to DIP and GIS Software (Optional) OR 405.2 Soil and Water Analysis (Optional) - 4 Credits		
CGPA - Total Credit (Cumulative)			24 (96)
SEC-406	Skill Enhancement Course	--	2
GE-407	Generic Elective Course	--	2
Non-CGPA - Total Credit (Cumulative)			4 (12/14)



6. Nature of Question Paper in University Assessment

I. Nature of Theory Question Paper:

Question No.	Type of Question	Number of Questions to be Asked	Number of Questions to be Answered	Marks per Question	Total Marks
Q1.	Objective type (MCQ)	08	08	02	16
Q2.	Short Answer (Definition type)	04	04	04	16
Q3.	Short Notes (Descriptive type)	03	02	08	16
Q4.	Long Answer/ Essay type	02	01	16	16
Q5.	Long Answer/ Essay type	02	01	16	16
Total = 05	--	--	--	--	80

II. Nature of Practical Question Paper for Course No. 105 and 205:

Question No.	Type of Question/ Assessment	No. of Questions	Total Marks/ Course
Section 1: Q1 and Q2	Practical/ Lab Assessment	02	50
Section 2: Q3 and Q4	Practical/ Lab Assessment	02	50
Section 3: Q5 and Q6	Practical/ Lab Assessment	02	50
Q7.	Practical Assignment (External)	01	25
Q.8.	Viva-voce (External)	01	25
Total = 08	--	--	200

III. Nature of Practical Question Paper for Course No. 305:

Question No.	Type of Question/ Assessment	No. of Questions	Total Marks
Section 1: Q1 and Q2	Practical/ Lab Assessment based on Research Methodology	02	30
Section 2: Q3 and Q4	Practical/ Lab Assessment based on Dissertation/ Project	02	50
Q5.	Practical Assignment based on Research Methodology and Geographical Excursion (External)	01	10
Q6.	Viva-voce based on Research Methodology and Geographical Excursion (External)	01	10
Q7.	Dissertation/ Project Report Evaluation (External)	01	50
Q.8.	Viva-voce based on Dissertation/ Project Report (External)	01	50
Total = 08	--	--	200

IV. Nature of Practical Question Paper for Course No. 405:

Question No.	Type of Question/ Assessment	No. of Questions	Total Marks
Section 1: Q1 to Q3	Practical/Lab Assessment	03	75
Section 2: Q4 to Q6 OR Section 3: Q4 to Q6	Practical/Lab Assessment	03	75
Q7.	Practical Assignment (External)	01	25
Q8.	Viva-voce (External)	01	25
Total = 08	--	--	200



7. Equivalence in Accordance with Title and Content of Courses (for revised syllabus):

Sr. No.	Title of Old Course	Title of New Course
1.	GCT-101: Fundamentals of Geomorphology	CC-101: Fundamentals of Geomorphology
2.	GCT-102: Principles of Climatology	CC-102: Principles of Climatology
3.	GCT-103: Economic Geography	CC-103: Economic Geography
4.	GCT-104: Geography of Population and Human Resource Development	CC-104: Geography of Population and Human Resource Development
5.	GCT-205: Applied Geomorphology	CC-201: Applied Geomorphology
6.	GCT-206: Applied Climatology and Climate Change	CC-202: Applied Climatology and Climate Change
7.	GCT-308: Advance Cartography and Surveying	CCS-203: Advanced Cartography and Surveying
8.	GOT-201: Social and Cultural Geography	CCS-204: Social and Cultural Geography
9.	GCT-101: Practical in Geomorphology and Field Survey GCP-102: Analysis of Socio-economic and Climatic Data	CCPr-105: Practical I 105.1 Practicals in Geomorphology and Surveying 105.2 Analysis of Climatic Data 105.3 Analysis of Socio-economic Data
10.	GCP-203: Computer Application in Geography GCP-204: Statistical Techniques in Geography	CCPr-205: Practical II 205.1 Computer Applications in Geography 205.2 Statistical Techniques in Geography 205.3 Quantitative Techniques in Geography
11.	GCT-307: Geohydrology and Oceanography	CC-301: Geohydrology and Oceanography
12.	GCT-308: Fundamentals of Remote Sensing and Digital Image Processing	CCS-302: Fundamentals of Remote Sensing and DIP
13.	GOT-305: Geography of Environment	DSE-303(a): Geography of Environment
14.	GOT-306: Biogeography	DSE-303(b): Biogeography
15.	GOT-307: Settlement Geography	DSE-304(a): Settlement Geography
16.	GOT-202: Geography of India	DSE-304(b): Geography of India
17.	GOT-203: Political Geography	DSE-304(c): Political Geography
18.	GCT-409: Development of Modern Geographical Thought	CC-401: Development of Modern Geographical Thought
19.	GCT-410: Regional Planning and Development	CCS-402: Regional Planning and Development
20.	GOT-409: Fundamentals of Geographical Information System and Introduction to GPS	DSE-403(a): Fundamentals and Applications of GIS and GPS
21.	GOT-410: Fundamentals of Soil Geography	DSE-403(b): Fundamentals of Soil Geography
22.	GOT-412: Agricultural Geography	DSE-404(a): Agricultural Geography
23.	GOT-411: Geography of Tourism	DSE-404(b): Tourism Geography
24.	GOT-204: Geography of Health	DSE-404(c): Geography of Health and Nutrition
25.	GCP-305: Research Methodology GCP-408: Study tour report writing GCP-407: Dissertation/ Project (Based on field work)	CCPr-305: Practical III (Dissertation) 305.1 Research Methodology and Geographical Excursion 305.2 Dissertation/ Project
26.	GCP-306: Photogrammetry, Remote Sensing and Digital Image Processing GOP-401: Introduction to GIS Software and GPS GOP-402: Soil and Water Analysis	CCPr-405: Practical IV 405.1 Photogrammetry, Remote Sensing and DIP 405.2 Introduction to GIS Software and GPS 405.2 Soil and Water Analysis



O. B. A. 4

The Fee for admission to the B.A. Parts-I, II and III Semester Examinations shall be as prescribed by the university from time to time.

Standards of Passing

To pass the B.A. Degree examination, a candidate shall be required to pass in Parts-I, II & III Semester Examinations.

- (A) i) To Pass the B.A. Part-I examination, a candidate shall be required to obtain a minimum of 35% of the total marks in each head of passing.
ii) To Pass the B.A. Part-II examination, a candidate shall be required to obtain a minimum of 35% of the total marks in each head of passing.
iii) To pass the Third year B.A. Degree (Part-III) examination, a candidate shall be required to obtain a minimum of 35% of the total marks in each head of passing at Parts-I, II & III examinations.
- (B) Those of the successful candidates who obtain 45% or more of the aggregate marks in Parts-I, II & III Semester Examinations, shall be declared to have passed the B.A. Degree examination in Second Class with (Hons.) and those obtaining 60% or more of the aggregate marks in Parts-I, II & III examinations, shall be declared to have passed the B.A. Degree examination in First Class with (Hons.) and those obtaining 70% or more of the aggregate marks in Parts-I, II & III Examinations, shall be declared to have passed the B.A. Degree examination in First Class (Hons.) with Distinction.
- (C) A.T.K.T.: A candidate passing in all heads of passing or a candidate passing in all heads of passing except four heads of university examination (Theory/ Practical) at Part-I (Sem.-I & II taken together) OR part - II (Sem.-III & IV taken together) examinations will be allowed to keep term in the next class.
- (D) A Candidate who has passed in any of the heads of passing shall not be allowed to appear again in that head.
- (E) 'Practical' will be a separate head of passing.

However for admission to B.A. Part-III examination or for keeping term for B.A. Part-III examination, a candidate shall have to pass in all heads of passing of B.A. Part-I (Sem. I & II) examination.

(Note : Internal Examination will be compulsory for all students. If the student fails/absent in internal examination then he/she will have to clear the internal examination in subsequent attempt/s in following semester. There will be a separate head of passing in Theory, internal and Practical However, ATKT rules shall be made applicable in respect of Theory/ Practical head of passing only.)

T/C PRINCIPAL
Raja Shripatrao Bhagwantrao
Mahavidyalaya, Aundh (Satara)



8. Program Educational Objectives (PEOs):

1. To enhance students' ability to apply their specialized knowledge in the geographical domain.
2. To develop employability skills and competencies to serve the job requirements in the society.
3. Inspire students to develop the abilities among them to offer services in the entrepreneurial environment.
4. To cultivate the interest among students to conduct research activities in the discipline of Geography.

9. Programme Outcomes (POs):

1. Students will have comprehensive knowledge in the discipline of Geography.
2. They will have ability of making comprehensive analysis, interpret spatial problems, and suggest proper solutions by using theoretical, methodological, and instrumental knowledge of Geography.
3. Good employability skills as per current need of the society to compete in the competitive world.
4. They will have good understanding about proper utilization of natural resources through geographical knowledge.
5. Aware about the regional and national environmental issues, recent trends, and technological advancements in the discipline of Geography.
6. Develop research interest to solve critical and emerging societal issues related to geography and the surrounding environment.