

# **SHIVAJI UNIVERSITY, KOLHAPUR.**



**Accredited By NAAC with 'A' Grade**

**Revised Syllabus For**

**B.Sc Part- III**

**Chemistry**

**Syllabus to be implemented from**

**June, 2020 onwards.**

**SHIVAJI UNIVERSITY, KOLHAPUR**  
**B.O.S. in Chemistry**  
**B.Sc. Part – III**  
**Semester CBCS Syllabus**  
**To be implemented from June – 2020**

**General Structure**

**Theory Examination:**

There will be four theory papers of 40 marks each for each semester. Their titles and distribution of marks are as follows.

**Semester V : Papers IX-DSE-E5, X-DSE-E6, XI- DSE-E7, XII- DSE-E8,**

**Semester VI: Papers XIII- DSE-F5, XIV-DSE-F6, XV-DSE-F7 and XVI- DSE-F8**

Paper – **IX** DSE-E5, & **XIII** DSE-F5: Inorganic Chemistry – 40 marks

Paper – **X** DSE-E6 & **XIV** DSE-F6: Organic Chemistry – 40 marks

Paper – **XI** DSE-E7 & **XV** DSE-F7: Physical Chemistry – 40 marks

Paper – **XII** DSE-E8 & **XVI** DSE-F8: Analytical and Industrial Chemistry – 40 marks

The duration of each theory paper for examination will be of 2 hours

**Internal examination** (Oral/Seminar/test/home assignment) will be conducted for 10 marks for each paper.

**Practical Examination:**

Practical examination will be of 200 marks. The distribution of marks will be as follows:

1. Physical Section : 60 marks
2. Inorganic Section : 65 marks
3. Organic Section : 60 marks
4. **Project** : 15 marks

**Total: 200 marks**

The duration of practical examination will be of three days – six and half hours per day.

**CHEMISTRY**  
**Semester Syllabus for B.Sc.-III**

**Theory**

1. N. B. Figures shown in bracket indicate the total lectures required for the respective topics.
  2. The question paper should cover the entire syllabus. Marks allotted to questions should be in proportion to the lectures allotted to respective topics.
  3. All topics should be dealt with S.I. units.
  4. Study tour/industrial visit/visit to national institute or research laboratory is prescribed.
  5. Use of recent editions of reference books is essential.
  6. Use of scientific calculator is allowed.
  7. **Values required for spectral problems should be provided in the question paper.**
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## Laboratory Course (Practicals)

N. B. (i) Use of Digital/Analytical/Chainometric/Single pan balance is allowed.

(ii) Use of Scientific calculator is allowed.

(iii) Use of Chart/Text book/Hand book of practical is allowed.

(iv) There will be a **project** having weightage of 15 marks.

Project should be in the following areas but focused on applications of Chemistry.

a) Society oriented

b) Daily use

c) Industry based

d) Analysis based

The **project** will be assessed by all the three examiners with equal weightage at the time of practical examinations.

The project may be completed individually or by a group of students not exceeding number three.

One copy of the project should be submitted at the time of examination. After assessment this copy will remain in the department.

## INORGANIC CHEMISTRY

### I) Gravimetric Estimations (G).

N. B. Any **two** experiments from G1 to G3 and any **two** experiment from G4 & G6.

**G1.** Gravimetric estimation of iron as ferric oxide ( $\text{Fe}_2\text{O}_3$ ) from the given solution containing ferrous ammonium sulphate, copper sulphate and free sulphuric acid.

**G2.** Gravimetric estimation of zinc as zinc pyrophosphate from the given solution

carbon tetrachloride and calculate the refraction equivalents of C, H and Cl atoms.

**D. Colorimetry (Any Two).**

1. To verify Lambert – Beer’s law using  $\text{CuSO}_4$  solution.
2. To estimate of  $\text{Fe}^{+++}$  ions by thiocyanate method.
3. To estimate  $\text{Fe}^{+++}$  ions using salicylic acid by colorimetric titration.
4. To determine the order of reaction for the oxidation of alcohol by potassium dichromate and potassium permanganate in acidic medium colorimetrically.

**E. pH – metry (Any One).**

1. To determine the dissociation constant of monobasic acid (Acetic acid).
2. To determine the dissociation constant of dibasic acid (Malonic acid).
3. To determine hydrolysis constant of aniline hydrochloride.

**Reference Books:**

1. Findlay’s Practical Physical Chemistry (Longman)
2. Advanced Practical Physical Chemistry by J. B. Yadav, Goel publishing house.
3. Practical Physical Chemistry by B. D. Khosla, V. C. Garg (R. Chand and Co.)
4. Systematic experimental Physical Chemistry by Rajbhoj, Chandekar (Anjali Publicaiton) Aurangabad.
5. Practical Physical Chemistry: Nandkumari, Kothari and Lavande.
6. Practical Physical Chemistry by Gurtu (S. Chand).
7. Text Book of Qualitative Inorganic Analysis by A. I. Vogel (ELBS Longman).

**Nature of Practical Examination**

- 1) The practical examination will be of **200** marks.
- 2) The duration of practical examination will be of **three days - six and half hour per day**.
- 3) Questions related to the practical exercise/**project** report/industrial visit carried out by the student should be asked in viva.
- 4) Use of scientific calculator is allowed.

- 5) S.I. units should be used wherever possible.
  - 6) Use of Chart / Hand book / Text book of practical is allowed.
  - 7) A student is expected to submit a journal certified by the Head of the Department.
  - 8) A student not be permitted to appear at the practical examination unless he/she produces a certified journal. If the journal is lost, the student should produce a certificate from the Head of the Department stating that he/she has satisfactory completed the practical work but his / her journal is lost.
  - 9) Use of Digital / Analytical / Chainometric / Single pan balance is allowed.
  - 10) A student should submit one copy of project at the time of examination.**
- Each examiner should asses the project work for Five marks and sign the same. If any student will not submit project work, he/she will be given Zero mark for the project.**
- 11) The distribution of marks for practical examination will be as follows:

**A) Physical Chemistry 60 marks**

- i) Non-instrumental experiment 25 marks
- ii) Instrumental experiment 25 marks
- iii) Viva 05 marks
- iv) Journal 05 marks

**B) Inorganic Chemistry 65 marks**

- i) Gravimetric analysis 25 marks
- ii) Preparation 15 marks
- iii) Volumetric estimation 15 marks
- iv) Viva 05 marks
- v) Journal 05 marks

**C) Organic Chemistry 60 marks**

i) Mixture separation and identification of compounds 25 marks

ii) Estimation/Preparation 20 marks

iii) Derivative 05 marks

iv) Viva 05 marks

v) Journal 05 marks

**D) Project 15 marks**

**Total:- 200 marks**

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KOLHAPUR**



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**CHOICE BASED CREDIT SYSTEM**

**Syllabus For**

**B.Sc. Part -III Mathematics**

**SEMESTER V AND VI**

**(Syllabus to be implemented from June, 2020 onwards.)**



B.Sc.Part-III [ Semester V ] ( Credit - 8]

Course code	Title o the course	Instructio ns Lectures /Week	Duration of term end exam	Marks of Term end exam	Marks (Internal) Of Continuous Assessment	Credit
DSE E9	Mathematical Analysis	3	2 hours	40	10	2
DSE E10	Abstract Algebra	3	2 hours	40	10	2
DSE E11	Optimization Techniques	3	2 hours	40	10	2
DSE E12	Integral Transforms	3	2 hours	40	10	2

B.Sc.Part-III [ Semester VI ] ( Credit - 8]

Course code	Title o the course	Instructions Lectures/Week	Duration of term end exam	Marks Term end exam	Marks (Internal) Of Continuous Assessment	Credit
DSE F9	Metric Spaces	3	2 hours	40	10	2
DSE F10	Linear Algebra	3	2 hours	40	10	2
DSE F11	Complex Analysis	3	2 hours	40	10	2
DSE F12	Discrete Mathematics	3	2 hours	40	10	2

Core Course Practical in Mathematics [CCPM IV to VII]

The practical examination will be conducted at the end of second term that is annual pattern

Total Credit 16

Course code	Title o the course	Instructions Lectures/Week	Duration of term end exam	Marks [End of academic year]	Credit
CCPM IV	Operations Research	5	6 hours	50	4
CCPM V	Laplace and Fourier Transforms	5	6 hours	50	4
CCPM VI	Mathematical Computation Using Python	5	6 hours	50	4
CCPM VII	<b>Project</b> , sturdy tour, viva.	5	6 hours	50	4

EQUIVALENCE IN ACCORDANCE WITH TITLES AND CONTENTS OF PAPERS (FOR REVISED SYLLABUS

**Sem - V**

Old Paper number	Equivalence	New Course code	Title of the course
IX	Real Analysis	DSE E9	Mathematical Analysis
X	Abstract Algebra	DSE E10	Abstract Algebra
XII	Numerical Methods - I	DSE E11	Optimization Techniques
XI	Partial Differential Equations	DSE E12	Integral Transforms

**Sem - VI**

Old Paper number	Equivalence	New Course code	Title of the course
XIII	Metric spaces	DSE F9	Metric Spaces
XIV	Linear Algebra	DSE F10	Linear Algebra
XV	Complex Analysis	DSE F11	Complex Analysis
XVI	Numerical Methods	DSE F12	Discrete Mathematics

**CCPM**

Old course code	Equivalence	New Course code	Title of the course
CML – IV	Operations Research Techniques	CCPM IV	Operations Research
CML – V	Numerical Methods	CCPM V	Laplace and Fourier Transforms
CML – VI	Numerical Recipes in C++, SciLab	CCPM VI	Mathematical Computation Using Python
CML – VII	<b>Project</b> , study tour, viva.	CCPM VII	<b>Project</b> , study tour, Seminar, viva.

**B.Sc. (Mathematics) (Part-III) (Semester–V & VI)**  
**(Choice Based Credit System)**  
**(Introduced from June 2020)**

**Course Code: CCPM VII**

**Title of Course: Project, Study- Tour, Viva – Voce**

**A :PROJECT [30 Marks]**

Each student of B.Sc. III is expected to read, collect, understand the culture of Mathematics, its historic development. He is expected to get acquainted with Mathematical concepts, innovations, relevance of Mathematics. Report of the project work should be submitted through the respective Department of Mathematics. Evaluation of the project report will be done by the external examiners at the time of annual examination.

**B. STUDY TOUR [05 Marks] :**

It is expected that the tour should contain at least renowned academic institution so that the visiting students will be inspired to go for higher studies in Mathematics.

**C. SEMINARS: [05 Marks]**

Students should present a seminar before the B.Sc.III class on some topic in Mathematics.

**D. VIVA-VOCE (on the project report). [10 Marks]**

**Nature of Question papers (Theory)**

Common nature of question for theory paper mentioned separately:

There will be practical at the end of second term that is annual pattern,

**Nature of Practical Question Paper**

**(1) Core Course Mathematics Practicals - IV**

This carries 50 marks.

Examination : 40 Marks

Journal : 10 Marks

**(2) Core Course Mathematics Practicals - V**

This carries 50 marks.

Examination : 40 Marks

Journal : 10 Marks

**(3) Core Course Mathematics Practicals - VI**

This carries 50 marks.

Examination : 40 Marks

Journal : 10 Marks

**(4) Core Course Mathematics Practicals - VII**

This carries 50 marks.

Project : 30 Marks ( External Examiner)

Study Tour : 05 Marks ( External Examiner)

Seminar : 05 Marks ( External Examiner)

Viva Voce : 10 Marks ( External Examiner)

**Note :** Each student of a class will select separate topic for project work. He/ She should submit the reports of his / her project work , Study tour report to the department and get the same certified.

**Teaching Periods :**

(i) Total teaching periods for Paper –DSE E-9, E-10,E-11,E-12, F-9,F-10, F-11,F-12 are 12 (Twelve) per week. 3 (Three) periods per paper per week.

(ii) Total teaching periods for CCPM-IV, V,VI,VII for the whole class are 20 (Twenty) per week. 5 (Five) periods per Lab. Perweek.

# **SHIVAJI UNIVERSITY, KOLHAPUR.**



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CHOICE BASED CREDIT SYSTEM

Syllabus For

**B. Sc. Part – III**

**Computer Science (Optional)**

**SEMESTER – V & VI**

(Syllabus to be implemented from June, 2020 onwards)

## CBCS B.Sc. 3: (A) (i) Structure of B. Sc. Programme Sem I & II

### Structure – I

SEMESTER – I (Duration – 6 Months)														
Sr. No.	Course (Subject) Title	TEACHING SCHEME						EXAMINATION SCHEME						
		THEORY			PRACTICAL			THEORY				PRACTICAL		
		Credits	No. of lectures	Hours	Credits	No. of lectures	Hours	Hours	Max	Total Marks	Min	Hours	Max	Min
1	DSC-A	2	5	4	2	4	3.2	2	50	100	35	PRACTICAL EXAMINATION IS ANNUAL		
2	DSC-A	2						2	50					
3	DSC-A	2	5	4	2	4	3.2	2	50	100	35			
4	DSC-A	2						2	50					
5	DSC-A	2	5	4	2	4	3.2	2	50	100	35			
6	DSC-A	2						2	50					
7	DSC-A	2	5	4	2	4	3.2	2	50	100	35			
8	DSC-A	2						2	50					
9	AECC-A	2	4	3.2	-----	-----	-----	2	50	50	18			
Total		18	24	19.2	8	16	12.8	-		450				
SEMESTER – II (Duration – 6 Months)														
1	DSC-B	2	5	4	2	4	3.2	2	50	100	35	As per BOS Guidelines	50	18
2	DSC-B	2						2	50					
3	DSC-B	2	5	4	2	4	3.2	2	50	100	35		50	18
4	DSC-B	2						2	50					
5	DSC-B	2	5	4	2	4	3.2	2	50	100	35		50	18
6	DSC-B	2						2	50					
7	DSC-B	2	5	4	2	4	3.2	2	50	100	35		50	18
8	DSC-B	2						2	50					
9	AECC-B	2	4	3.2	-----	-----	-----	2	50	50	18			
Total		18	24	19.2	8	16	12.8	-		450			200	
<b>Grand Total</b>		<b>36</b>	<b>48</b>	<b>38.4</b>	<b>16</b>	<b>32</b>	<b>25.6</b>	-		<b>900</b>				
<ul style="list-style-type: none"> <li>Student contact hours per week : 32 Hours(Min.)</li> <li>Theory and Practical Lectures : 48 Minutes Each</li> <li>DSC–Discipline Specific Core course: Select any 4 subject pairs from A1 to A38 and B1 to B38.</li> <li>AECC – Ability Enhancement Compulsory Course (1A &amp; 1B)-English</li> </ul>						<ul style="list-style-type: none"> <li>Total Marks for B.Sc.-I (Including English) :1100</li> <li>Total Credits for B.Sc.-I (Semester I &amp; II) :52</li> </ul>								
<ul style="list-style-type: none"> <li>Practical Examination will be conducted annually for 50 Marks per course(subject).</li> <li><i>Except English, combined passingfortwotheorypapersof50markseach.i.e.Min.35marksrequiredforpassingoutof100.</i></li> <li><i>There shall be separate passing for theory and practical courses.</i></li> </ul>														
<b>(A) Non-Credit Self Study Course : Compulsory Civic Courses (CCC)</b> <b>For Sem I: CCC – I : Democracy, Elections and Good Governance</b>														
<b>(B) Non-Credit Self Study Course : Skill Development Courses (SDC)</b> <b>For Sem II: SDC – I : Any one from following (i) to (v)</b> i) Business Communication & Presentation ii) Event management iii) Personality Development, iv) Yoga & Physical Management v) Resume, Report & proposal writing														

## Structure of B. Sc. Programme Semester III & IV

### Structure - II

SEMESTER – III (Duration – 6 Months)																		
Sr. No.	Course (Subject) Title	TEACHING SCHEME						EXAMINATION SCHEME										
		THEORY			PRACTICAL			THEORY				PRACTICAL						
		Credits	No. of lectures	Hours	Credits	No. of lectures	Hours	Hours	Max	Total Marks	Min	Hours	Max	Min				
1	DSC-C	2	3	2.4	4	6.4	8	2	50	100	35	PRACTICAL EXAMINATION IS ANNUAL						
2	DSC-C	2	3	2.4				2	50									
3	DSC-C	2	3	2.4				4	6.4	8	2				50	100	35	
4	DSC-C	2	3	2.4							2				50			
5	DSC-C	2	3	2.4				4	6.4	8	2				50	100	35	
6	DSC-C	2	3	2.4							2				50			
7	AECC-C	4	4	3.2				---	---	---						---	---	
	<b>TOTAL</b>	<b>16</b>	<b>22</b>	<b>17.6</b>	<b>12</b>	<b>19.2</b>	<b>24</b>			<b>300</b>	<b>---</b>							
SEMESTER – IV (Duration – 6 Months)																		
1	DSC-D	2	3	2.4	4	6.4	8	2	50	100	35	As per BOS Guide- lines		100	35			
2	DSC-D	2	3	2.4				2	50									
3	DSC-D	2	3	2.4				4	6.4	8	2					50	100	35
4	DSC-D	2	3	2.4							2					50		
5	DSC-D	2	3	2.4				4	6.4	8	2					50	100	35
6	DSC-D	2	3	2.4							2					50		
7	AECC-C AECC-D	---	---	---	---	---	---	3	70 30	100	25 10	---	---	---				
	<b>TOTAL</b>	<b>12</b>	<b>18</b>	<b>14.4</b>	<b>12</b>	<b>19.2</b>	<b>24</b>			<b>400</b>	<b>---</b>							
		<b>28</b>	<b>40</b>	<b>32</b>	<b>24</b>	<b>38.4</b>	<b>48</b>			<b>700</b>	<b>--</b>	<b>---</b>	<b>300</b>					
• Studentcontacthoursperweek:32Hours(Min.)							• Total Marks for B.Sc.-II(IncludingEVS) <b>1000</b>											
• Theory and Practical Lectures : 48 MinutesEach							• Total Credits for B.Sc.-II (Semester III & IV) : <b>52</b>											
• <b>DSC:-</b> Discipline Specific Core Course:Selectany3subjectpairs,relevanttothoseoptedasB.Sc.I, From DSCC1toDSCC38and/orDSCIC39toDSCIC50andDSCD1toDSCD38and/orDSCID39to DSCID50.																		
• <b>AECC-</b> Ability Enhancement Compulsory Course (1C): Environmental Studies: EVS ( Theory – 70 & <b>Project</b> – 30 Marks)																		
• Practical Examination will be conducted annuallyfor100Markspercourse(subject)																		
• <b>Except Environmental Studies, combined passingfortwotheorypapersof50markseach.i.e.Min.35 marks required for passing out of100.</b>																		
• <b>There shall be separate passing for theory and practical courses also for Environmental Studies.</b>																		

**B.Sc. Computer Science (Optional) Part III**  
**Semester-V&VI**  
**CBCS Syllabus to be implemented from June 2020 Onwards**

1. **TITLE:** Computer Science
2. **YEAR OF IMPLEMENTATION:** Revised Syllabus will be implemented from June 2020 onwards.
3. **DURATION:** B.Sc. in Computer Science Part- III The duration of course shall be one year and two semesters.
4. **PATTERN:** Pattern of examination will be semester.
5. **STRUCTURE OF COURSE:**

**STRUCTURE OF COURSE**

<b>Sr. No.</b>	<b>Paper</b>	<b>Name of Paper</b>	<b>Marks</b>
<b>Computer Science (Semester V)</b>			
1	DSE-21E	Core Java	40 ( Theory)
2	DSE-22E	C# Programming	40 ( Theory)
3	DSE-23E	Linux part- I	40 ( Theory)
4	DSE-24E	Python Part -I	40 ( Theory)
<b>Computer Science ( Semester VI)</b>			
5	DSE-21F	Advance Java	40 ( Theory)
6	DSE-22F	ASP .NET	40 ( Theory)
7	DSE-23F	Linux Part- II	40 ( Theory)
8	DSE-24F	Python Part -II	40 ( Theory)
<b>Practical ( Annual )</b>			
5	Practical Paper-IV	Computer Science Practical Paper Based on DSE-21E,22E,21F and 22F	50 (Practical)
6	Practical Paper-V	Computer Science Practical Paper Based on DSE-23E,24E,23F and 24F	50 (Practical)
7	Practical Paper VI	Software <b>Project</b>	100

**NATURE OF QUESTION PAPER AND SCHEME OF MARKING:**

**The practical Paper – IV is based on Paper No. IX, X, XIII and XIV.**

**The practical Paper – V is based on Paper No. XI, XII, XV and XVI.**

**The practical Paper – VI is of Major **Project** work done by the student.**

**NATURE OF PRACTICAL QUESTION PAPER:**

1. The practical question paper IV and V for B.Sc.-III(computer science) will be of maximum 50 marks each.
2. The practical paper IV having four questions out of which two questions are based on Paper –IX (Sem.-V) Paper-XIII (Sem.-VI) and two questions are based on Paper X(Sem.V), Paper-XIV (Sem.-VI)
3. The practical paper V having four questions out of which two questions are based on Paper – XI (Sem.-V), Paper XV (Sem.-VI) and two questions are based on Paper-XII(Sem.-V), Paper-XVI (Sem.- VI)
4. The Student has to attempt any TWO questions out of FOUR questions. Each question carries 20 marks.
5. 10 marks are for Viva and certified Journal.
6. The student appearing for the practical examination is expected to write paper work for TWO questions. Paper work is compulsory and it includes problem analysis, Algorithm, source code, output and tracing.
7. It is expected to complete the paper work within 120 minutes. The student has to complete his/her actual practical experiment on machine within 90 minutes. The practical based viva will be of 30 minutes duration.
8. The duration of practical will be 4 hours.
9. Practical Paper VI is **Project** work of 100 marks.

**Practical Paper VI: **Project** work - 100 marks****Project work Guidelines:**

1. Institute is expected to conduct Industrial visit to any computerized industry and students are supposed to submit the report based on same.
2. Software development project is to be carried out by the candidate in actual consumer environment taking some real life problem.
3. The candidate submit the project work according to norms of software engineering i.e. the project document should contain Introduction, detailed design, sample testing and conclusion(Guidelines and other details are mentioned at **Appendix -1 and 2**)
4. Project will have internal guide to supervise and monitor the progress of the project. The internal guide may assign the project to the student or within the group of student (maximum 2 candidates in group) depending upon the complexity of the problem preferably using MySQL /MSSQL/Oracle as a back end and C#.NET/ASP with C#/PHP/Java as a front end.
5. There will be online demonstration of project work in the presence of the external examiner and it will be considered for the evaluation.



6. The mark distribution for Practical paper VI will be as follows:

Project documentation	:	30 marks
On-line Presentation	:	20 marks
Project Based Viva-voce	:	30 marks
Industrial Visit Report	:	20 marks
<b>Total Marks</b>	:	<b>100marks</b>

## **Appendix- 1**

### **Guidelines for Project:**

Number of Copies: The student should submit two Hard-bound copies of the Project Report. (one copy for institute and one copy for student)

### **Acceptance/Rejection of Project Report:**

The student must submit an outline of the project report to the college for approval. The college holds the right to accept the project or suggest modifications for resubmission.

### **Format of the Project Report:**

The student must adhere strictly to the following format for the submission of the Project Report.

#### **a. Paper:**

The Report shall be typed on white paper, A4 size, for the final submission.

#### **b. Typing:**

The typing shall be of standard letter size, 1.5 spaced and on one side only. (Normal text should have Arial Font size 12. Headings have bigger size i.e. up to size 14)

#### **c. Margins:**

- The typing must be done in the following margins:
- Left -----1.5 inch, Right ----- 1 inch
- Top ----- 1 inch, Bottom ----- 1 inch

#### **d. Front Cover:**

The front cover should contain the following details:

- TOP : The title in block capitals of 6mm to 15mm letters.
- CENTRE: Full name in block capitals of 6mm to 10mm letters.
- BOTTOM: Name of the University, Course, Year of submission -all in block capitals of 6mm to 10mm letters on separate lines with proper spacing and centring.

#### **f. Blank Sheets:**

At the beginning and end of the report, two white black bound papers should be provided, one for The purpose of binding and other to be left blank.

## **Appendix - 2**

- Input Design
- Report Design
- Implementation
- Testing

## **Standard Project Report Documentation Format**

- a) Covering Page
- b) Institute/College certificate
- c) Guide Certificate
- d) Student declaration
- e) Acknowledgement
- f) Index (Chapter Scheme)

### **1) Introduction to Project**

- Introduction
- Existing System
- Need and scope of System
- Organization Profile

### **2) Proposed System**

- Objectives
  - Requirement Engineering.
  - Requirement Gathering.
- SRS

### **3) System Diagrams**

- DFD
- ERD
- UML(if applicable)

### **4) System Requirements**

- Hardware
- Software

### **5) System Design**

- Database Design
- Input Design
- Output Design

### **6) User Guideline**

- Installation process

### **7) Source Code**

### **8) Outputs**

- Input screens and Reports (with valid Data)

### **9) Conclusion and Suggestions**

- Conclusion and suggestions

- Future enhancement
- Bibliography:

**Note: Minimum 5 reports are essential as outputs of the project work done by the student**

# **SHIVAJI UNIVERSITY, KOLHAPUR.**



**Accredited By NAAC with 'A' Grade**

**Revised Syllabus For**

**B.Sc Part- III**

**Zoology**

**Syllabus to be implemented from**

**June, 2020 onwards.**

# SHIVAJI UNIVERSITY, KOLHAPUR

## Revised Syllabus for Bachelor of Science

### B. Sc. III – Zoology –To be implemented from June 2020

#### GENERAL OBJECTIVES OF THE COURSE

##### 1) Aims:

1. To impart the knowledge of animal science to the pupils.
2. To make the pupils to use the knowledge in their daily life.
3. To make the pupils aware of natural resources and environment.
4. Application of knowledge in Zoology for nutrition, agriculture & live stock.
5. To provide practical experiences which form a part of their learning processes.
6. To develop aptitude for scientific work & ability to pursue studies far beyond graduation.
7. To encourage the pupils to take life science as a carrier which is the need now a days.
8. To make the pupils fit for the society.

##### 2) Objectives –

1. To impart knowledge is the basic aim of education. The students are expected to acquire the knowledge of animal science, natural phenomenon, manipulation of nature & environment by man.
2. Understanding the scientific terms, concepts, facts, phenomenon & their interrelationships.
3. Applications of the knowledge.
4. To develop skills in practical work, experiments & laboratory materials, instruments.
5. To develop interests in the subject & scientific hobbies.
6. To develop scientific attitude which is the major objective? This makes the students open minded, critical observations, curiosity, thinking etc.
7. Abilities to apply scientific methods, collection of scientific data, problem solving, organize science exhibitions, clubs etc.
8. Appreciation of the subject, contributions of scientists, scientific methods, scientific programs etc.

### 3) DURATION

- The course shall be full time course.
- The duration of course shall be three years.

4) **PATTERN:** Pattern of Examination will be semester for theory and annual for practical with INTERNAL ASSESSMENT (**Project**/Seminar/Field work for theory) Scheme

5) **MEDIUM OF INSTRUCTION:** The medium of instruction shall be in English.

6) **STRUCTURE OF COURSE:** B.Sc. III – Zoology THEORY – No. of papers: Eight, No of practicals: Four SEMESTER V-Paper IX to XII & SEMESTER VI- Paper XIII to XVI

#### SEMESTER-V Theory

Sr. No.	Subject	Marks	University	Internal
1	Zoology Paper- IX	50	40	10
2	Zoology Paper- X	50	40	10
3	Zoology Paper- XI	50	40	10
4	Zoology Paper- XII	50	40	10

Total=200

#### SEMESTER-VI Theory

Sr. No.	Subject	Marks	University	Internal
1	Zoology Paper- XIII	50	40	10
2	Zoology Paper- XIV	50	40	10
3	Zoology Paper- XV	50	40	10
4	Zoology Paper- XVI	50	40	10

Total = 200

#### PRACTICALS- Annual

09	Practical—V	50
10	Practical – VI	50
11	Practical – VII	50
12	Practical – VIII	50

Total 200

**Total = 600**

**SHIVAJI UNIVERSITY, KOLHAPUR**

**Syllabus of B.Sc. Part III Zoology**

**Zoology Practical – III (Credits-02)**

**Molecular biology, Animal biotechnology, Biostatistics & Biotechniques**

**I] Microtechnique**

1. Preparation of permanent histological slides by HE technique
2. Histochemical technique
  - a. AB PH 1 technique
  - b. AB PH 2.5 technique
  - c. PAS technique

**II] Biotechniques**

1. Chromatography – Separation of amino acid by paper chromatography
2. DNA isolation
3. Demonstration of DNA by feulgan technique
4. To study the following technique (photographs )
  - a) Southern blotting
  - b) Northern blotting
  - c) Western blotting
  - d) DNA sequencing (Sangers method)
  - e) PCR
  - f) DNA fingerprinting

**III) Biostatistics**

Any 10 example based on theory

- IV] Project** (any suitable work possible in local area or from the syllabus) Report of the same to be submitted at the time of practical examination

**SHIVAJI UNIVERSITY, KOLHAPUR**

**Syllabus of B.Sc. Part III Zoology**

**Zoology Practical – IV (Credits-02)**

**Aquatic biology, insect vector & diseases**

**A] Aquatic biology**

1. Determination of area of a lake using graphimetric & gravimetric method
2. Identify the zooplanktons present in lake ecosystem
3. Determination of turbidity or transparency from nearby lake or water body
4. Determination of dissolved oxygen
5. Determination of free CO<sub>2</sub>
6. Determination of alkalinity (Carbonates & bicarbonates) from water collected from nearby lake or water body
7. Estimation of total hardness of water
8. Instruments used in limnology & their significance
  - a) Secchi disc
  - b) Van Dorn bottle
  - c) Conductivity meter
  - d) Turbidity meter
  - e) PONAR grab sampler
9. Visit to seashore/water reservoir/animal sanctuary to study animal diversity. Report of tour should be submitted at the time of practical examination
10. Endocrine glands (Anatomy and Histology) – Thyroid, Parathyroid, Adrenal and Pancreas.

**B] Insect Vectors & diseases**

10. Study of different kinds of mouthparts of insects
  - a) Chewing & biting
  - b) Chewing & lapping
  - c) Piercing & sucking
  - d) Sponging
  - e) Siphoning
11. Study of following insect vectors through permanent slides or photograph
  - a) Insect vector – Mosquito, sandfly & housefly
  - b) Study of mosquito born diseases – Malaria, dengue, chikungunya, encephalitis, filariasis
  - c) Study of sandfly born diseases – Visceral leishmanians, Cutaneous leishmanians, Phlebotomus fever
  - d) Study of housefly born diseases – Myiasis
  - e) Study of flea born diseases – Plague, typhus
12. Histology of Following mammalian organs-
  - a) Tooth (V.S.)
  - b) Tongue
  - c) Salivary gland
  - d) Stomach
  - e) Duodenum
  - f) Ileum
  - g) Liver
  - h) Pancreas
  - i) Kidneys



# **SHIVAJI UNIVERSITY, KOLHAPUR.**



Accredited By NAAC With 'A' Grade

**CHOICE BASED CREDIT SYSTEM**

Syllabus For

**Bachelor of Science (Part III) Statistics**

Syllabus to be implemented from June 2020 onwards

**Shivaji University, Kolhapur**  
**B. Sc. III Statistics**  
**Structure of the course**  
**To be implemented from June 2020**  
**Theory**

**Semester V**

<b>Paper. No.</b>	<b>Title of the paper</b>	<b>Total Marks</b>
IX	Probability Distributions	50
X	Statistical Inference - I	50
XI	Design of Experiments	50
XII	R-Programming and Quality Management	50

**Semester VI**

<b>Paper. No.</b>	<b>Title of the paper</b>	<b>Total Marks</b>
XIII	Probability Theory and Applications	50
XIV	Statistical Inference - II	50
XV	Sampling Theory	50
XVI	Operations Research	50

**Practical**

<b>Paper No.</b>	<b>Title of the Practical</b>	<b>Marks for Practical</b>	<b>Journal</b>	<b>Oral</b>	<b>Total Marks</b>
IV	Probability Distributions	32	4	4	40
V	Statistical Inference	32	4	4	40
VI	Designs of Experiments and Sampling Methods	32	4	4	40
VII	R-Programming, Quality Management and Operations Research	32	4	4	40
	A Project Report & Viva -voce	40	-	-	40

## 1. Nature of Project

(i) Identification of problem where statistical techniques can be used.

(ii) Planning and execution of data collection.

(iii) The Marking system for the project work is as follows:

- Data Collection : 8 Marks
- Use of Statistical Tools : 8 Marks
- Analysis of Data : 8 Marks
- Conclusion : 8 Marks
- Viva on Project : 8 marks

-----  
Total Marks of Project : 40 marks

(iv) Project will be conducted in a group of 5 to 6 students.

## 2. Nature of Question papers (Theory)

COMMON NATURE OF THEORY QUESTION PAPER WILL BE MENTIONED SPERATELY:

## 3. Nature of practical papers:

(i) Each practical question paper must contain **Four** questions.

(ii) Each question should contain **Two** bits from different units.

(iii) Student should attempt **Any Two** questions.

(iv) Each question should carry **16**marks and to be distributed according to followingpoints:

- (a) Aim of the Experiment : 2 Marks
- (b) Statistical formulae : 4 Marks
- (c) Observation Tables : 4 Marks
- (d) Calculations : 4 Marks
- (e) Conclusion/ result of the experiment :2 Marks.

(v) In each practical paper, four marks are reserved for journal and four marks are reserved for oral.

## 4. Instructions:

(i) While attempting questions based on R-software students have to write the commands of R-software on their Answer-book. Final result should be shown to the examiner online or the printout may be attached.

(ii) Duration of each practical paper should be of four hours.

(iii) Student can use MS-Excel or electronic calculators for other practical.

### 5. Requirements:

- (i) There should be two subject experts at the time of practical examination.
- (ii) Laboratory should be well equipped with 20 scientific calculators, 20 computers, 2 printers with sufficient backup facility (UPS/Inverter /Generator).

## EQUIVALENCE FOR THEORY PAPERS

(From June 2020)

Old Syllabus		Revised Syllabus	
Paper No.	Title of the Paper	Paper No.	Title of the Paper
Sem.V / P. IX	Probability Distributions	Sem.V / P. IX DSE-E13	Probability Distributions
Sem. V/ P.X	Statistical Inference - I	Sem. V/ P.X DSE-E14	Statistical Inference - I
Sem. V / P XI	Design of Experiments	Sem. V / P XI DSE-E15	Design of Experiments
Sem. V / P XII	Operations Research	Sem. V / P XII DSE-E16	R-Programming and Quality Management
Sem. VI / P XIII	Probability Theory	Sem. VI / P XIII DSE-F13	Probability Theory and Applications
Sem. VI / P XIV	Statistical Inference - II	Sem. VI / P XIV DSE-F14	Statistical Inference - II
Sem. V / P XV	Sampling Theory	Sem. V / P XV DSE-F15	Sampling Theory
Sem. VI / P XVI	Quality Management and Data Mining	Sem. VI / P XVI DSE-F16	Operations Research

## EQUIVALENCE FOR PRACTICAL PAPERS

(From June 2020)

Old Syllabus		Revised Syllabus	
Paper No.	Title of the Practical Paper	Paper No.	Title of the Practical Paper
IV	Probability Distributions and R software	IV	Probability Distributions
V	Statistical Inference	V	Statistical Inference
VI	Design of Experiments and Sampling Methods	VI	Design of Experiments and Sampling Methods
VII	Operations Research and Quality Management	VII	R-Programming, Quality Management and Operations Research



“ A ” Re- accredited By NAAC

(2014) with CGPA-3.16

**SHIVAJI UNIVERISTY, KOLHAPUR-416 004. MAHARASHTRA**

PHONE : EPABX-2609000

FAX 0091-0231-2691533 & 0091-0231-2692333 – BOS 2609094

शिवाजी विद्यापीठ, कोल्हापूर - ४१६ ००४.

दुरध्वनि: (ईपीएबीएक्स) २६०९००० विस्तारीत . २६०९०९४)

फॅक्स : ००९१-०२३१-२६९१५३३ व २६९२३३३.

e-mail : [bos@unishivaji.ac.in](mailto:bos@unishivaji.ac.in)

Web-site : [www.unishivaji.ac.in](http://www.unishivaji.ac.in)

Ref.No./SU/BOS/Commerce /BCA/2231

Date : 10 Jun 2015

The Principal,  
All Affiliated B.C.A. Colleges  
Shivaji University, Kolhapur.

Subject: Regarding revised Syllabi, Nature of Question Paper and Equivalence  
of B.C.A. Part-III (Semester V & VI) under the Faculty of Commerce.

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 of B.C.A. Part-III (Semester -V & VI) under the Faculty of Commerce.

This syllabi will be implemented from the academic year 2015-16 (i.e. from June 2015) onwards. A soft copy (C.D.) containing the syllabus is enclosed herewith. This syllabi is also available on university website [www.unishivaji.ac.in](http://www.unishivaji.ac.in).

The question papers on the pre-revised syllabi of above mentioned course will be set for the examinations to be held in Oct/Nov-2015 & March/April-2016. These two 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: -As above.

Copy to:-

1. Dean, Faculty of Commerce
  2. Chairman, Board of Studies in Business Management
  3. Appointment Section
  4. Other Exam--35
  5. Affiliation Section (P.G.)
  6. Computer Centre
  7. P.G. Admission
  8. Meeting Section
  9. P.G. Seminar
  10. Eligibility Section
- For information
- For information & necessary action.

# SHIVAJI UNIVERSITY, KOLHAPUR



**“A” Re-Accredited By NAAC**

**(2014) with CGPA-3.16**

Revised Syllabus For

**Bachelor of Computer Applications**

**Semester – V and VI**

**(Under Faculty Of Commerce)**

**Syllabus to be implemented from June 2015-16 onwards.**

Revised Syllabus of  
**BACHELOR OF COMPUTER APPLICATIONS (BCA) COURSE**  
 (Under the Faculty of Commerce)  
 w.e.f. Academic Year 2015-16

**Structure of the Course:**

Paper No.	Name of The subject	Teaching Scheme		Examination Scheme		
		Theory per week	Total Practical per week per batch	Theory Marks	Internal Marks	Total Marks
B.C.A. Part- III Semester – V						
501	Management Accounting	4	--	80	20	100
502	E-Commerce	4	--	80	20	100
503	Computer Network	4	--	80	20	100
504	RDBMS with Oracle	4	--	80	20	100
505	Visual Programming	4	--	80	20	100
506	Lab Course based on 504 and 505	--	4	--	50	50
507	Mini <b>Project</b>	--	2	--	50	50
Total		20	06	400	200	600
B.C.A. Part- III Semester - VI						
601	Strategic Management	4	--	80	20	100
602	Data Mining and Data Warehousing	4	--	80	20	100
603	Linux Operating System	4	--	80	20	100
604	Java Programming	4	--	80	20	100
605	Lab Course based on Paper no.- 603	--	4	--	50	50
606	Lab Course based on Paper no. 604	--	4	--	50	50
607	Major <b>Project</b>	--	2	80	20	100
Total		16	10	400	200	600

**B.C.A. Part – III (Sem- V)**

**Paper No. 506: Lab Course based on 504 and 505**

**Lab exercise based on paper 504- RDBMS with Oracle**

1. SQL queries on DDL statements.
2. SQL queries on DML statements.
3. SQL queries on Operators-relational, Logical, Like, Between, IN operator
4. SQL queries on Oracle Functions and clauses
5. SQL queries on Join
6. Creating Views and index
7. PL-SQL block on branching statement.
8. PL-SQL block on looping statement.
9. PL-SQL blocks to create explicit cursor.
10. PL-SQL blocks to study attributes of explicit cursor.
11. PL-SQL blocks to create Trigger.

**B.C.A. Part – III (Sem- V)**

**Paper No 507: Mini Project**

The group of students may undertake a software project in consultation with the internal guide. The group size should not exceed four students. The student is expected do project in any language studied in Vth or earlier Semesters. The mini Project will be evaluated by the external examiners appointed by University. Project documentation format is as per paper no 607.



**B.C.A. Part – III**  
**(Sem- VI)**

**Paper No 607: Major Project**

A group of maximum four students prepare a major project under the guidance of internal teacher. Project report will be evaluated by the internal teacher out of 20 marks and there will be viva-voce examination for 80 marks.( Documentation – 20 Marks, Online Presentation-- 30 Marks, Viva-Voce -- 30 Marks.) The panel for viva-voce examination will be appointed by university. The student should prepare the project report on the work carried out as a project in semester VI.

**Guidelines for Project:**

Number of Copies: The student should submit two Hard-bound copies of the Project Report.

Acceptance/Rejection of Project Report:

The student must submit an outline of the project report to the college for approval. The college holds the right to accept the project or suggest modifications for resubmission. Only on acceptance of draft project report, the student should make the final copies.

**Format of the Project Report:**

The student must adhere strictly to the following format for the submission of the Project Report.

**a. Paper:**

The Report shall be typed on white paper, A4 size, for the final submission. The Report to be submitted to the must be original and subsequent copies may be photocopied on any paper.

**b. Typing:**

The typing shall be of standard letter size, 1.5 spaced and on one side of the paper only. (Normal text should have Arial Font size 11 or 12. Headings can have bigger size)

**c. Margins:**

The typing must be done in the following margins:

Left -----1.5 inch, Right ----- 1 inch

Top ----- 1 inch, Bottom ----- 1 inch

**d. Front Cover:**

The front cover should contain the following details:

TOP : The title in block capitals of 6mm to 15mm letters.

CENTRE: Full name in block capitals of 6mm to 10mm letters.

BOTTOM: Name of the University, Course, Year of submission -all in block capitals of 6mm to 10mm letters on separate lines with proper spacing and centering.

### **f. Blank Sheets:**

At the beginning and end of the report, two white black bound papers should be provided, one for the purpose of binding and other to be left blank.

### **Documentation Format**

- a) Cover Page
- b) Institute/College Recommendation
- c) Guide Certificate
- d) Declaration
- e) Acknowledgement
- f) Index
- g) Chapter Scheme
  - 1) Introduction to Project
    - Introduction
    - Existing System
    - Need and scope of Computer System
    - Organization Profile
  - 2) Proposed System
    - Objectives
    - Requirement Engg.
      - Requirement Gathering
      - SRS
  - 3) System Analysis
    - System Diagram
      - DFD
      - ERD
      - UML(if applicable)
  - 4) System Design
    - Database Design
    - Input Design
    - Output Design
  - 5) Implementation
    - System Requirement
    - Hardware
    - Software
    - Installation process
    - User Guideline
  - 6) Output(with valid Data)  
(Minimum 6 reports)
  - 7) Conclusion and Suggestions
    - Conclusion
    - Limitations
    - Suggestion

8) References:-

- i) Books:-
- ii) Journals:-
- iii) Periodicals and Newspapers:-
- iv) Web
- v) Questioner/Schedule(if used)
- vi) Source code(Include Main Logic source code)

**EQUIVALENCE IN ACCORDANCE WITH TITLES AND CONTENTS OF PAPERS-**

<b>B.C.A. Part- III Semester – V</b>			
<b>Old Papers</b>		<b>New Papers</b>	
<b>Paper No.</b>	<b>Titles of the old Papers</b>	<b>Paper No.</b>	<b>Titles of the old Papers</b>
501	Software Engineering – II	504	RDBMS with Oracle
502	Computer Network	503	Computer Network
503	Unified Modeling Language	505	Visual Programming
504	Internet Programming	502	E-Commerce
505	Enterprise Resource Planning (ERP)	501	Management Accounting
506	Lab Course VII (Based on Paper No. 504)	506	Lab Course based on 504 and 505
507	Mini <b>Project</b>	507	Mini <b>Project</b>
<b>B.C.A. Part- III Semester – VI</b>			
<b>Old Papers</b>		<b>New Papers</b>	
<b>Paper No.</b>	<b>Titles of the old Papers</b>	<b>Paper No.</b>	<b>Titles of the New Papers</b>
601	Linux	603	Linux Operating System
602	Data Warehousing & Data mining	602	Data Mining and Data Warehousing
603	Java Programming	604	Java Programming
604	Management Support System	601	Strategic Management
605	Lab Course VIII (Based on Paper No. 601)	605	Lab Course based on Paper no.- 603
606	Lab Course IX (Based on Paper No. 603)	606	Lab Course based on Paper no. 604
607	Major <b>Project</b>	607	Major <b>Project</b>



Estd. 1962  
NAAC 'A++' Grade

SHIVAJI UNIVERISTY, KOLHAPUR-416 004. MAHARASHTRA

PHONE : EPABX-2609000 website- [www.unishivaji.ac.in](http://www.unishivaji.ac.in)

FAX 0091-0231-2691533 & 0091-0231-2692333 – BOS - 2609094

शिवाजी विद्यापीठ, कोल्हापूर – 416004.

दुरध्वनी (ईपीएबीएक्स) २६०९००० (अभ्यास मंडळे विभाग- २६०९०९४)

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

Ref./SU/BOS/Com & Mgmt./

**No 0 0 3 1 7**

Date : 16/09/2021

To,

The Principal  
All Affiliated (Commerce & Management) Colleges/Institutions,  
Shivaji University, Kolhapur

**Subject : Regarding Syllabi of BCA Part-II (Sem-III/IV) Choice Based Credit System (CBCS) degree programme under the Faculty of Commerce & Management.**

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 of **BCA Part-II (Sem-III/IV) Choice Based Credit System (CBCS)** under the Faculty of Commerce & Management.

This syllabi shall be implemented from the academic year **2021-2022** onwards. A soft copy containing the syllabus is attached herewith and it is also available on university website [www.unishivaji.ac.in](http://www.unishivaji.ac.in) (Student - Online Syllabus).

The question papers on the pre-revised syllabi of above mentioned course will be set for two examination These 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,

  
Dy. Registrar

**Encl : As above**

**Copy to,**

1. I/c Dean, Faculty of Commerce & Management
2. Chairman, Board of Studies

} for information

3. Director, BOEE
4. Appointment Section
5. P. G. Admission Section
6. B.Com and O. E. 1 Section
7. Affiliation Section (U.G./P.G.)
8. Computer Center/I.T.
9. Eligibility Section
10. Distance Education
11. P.G. Seminer Section

} for information and necessary action.

# **SHIVAJI UNIVERSITY, KOLHAPUR.**



Estd. 1962

NAAC "A++" Grade

**Faculty of Commerce and Management**

Syllabus For

**BCA Part II (Sem III & IV) (CBCS)**

(To be implemented from June 2021 onwards)

(Subject to the modifications that will be made from time to time)

BCA-II (Sem.-III)

<b>Course code: CC 301</b>	<b>Web Technology</b>	<b>Credit :04</b>	<b>Marks:100</b>
<b>Course Outcomes</b>	After completion of this course student should be able to- 1. Understand basics of website and web development life cycle. 2. Design website using HTML and CSS 3. Implement client side scripting for website development 4. Understand importance and working of HTML5		
<b>UNIT No.</b>	<b>Description</b>	<b>No. of Periods</b>	
<b>I</b>	<b>Introduction - Internet &amp; Website</b> 1.1 Internet-Basics, Internet Protocols(HTTP,FTP,IP) 1.2 World Wide Web(WWW) 1.3 HTTP, DNS, IP Address 1.4 Working of Website 1.5 Web Browser, Web Server, Types 1.6 Types of Websites(Static and Dynamic Websites) 1.7 Web Development lifecycle 1.8 Basics of web hosting	15	
<b>II</b>	<b>HTML and CSS</b> 2.1 Introduction to HTML, History, Features 2.2. HTML tags & attributes 2.3 HTML Form elements 2.4. HTML Frameset 2.5. Limitations of HTML 2.6 Basics of CSS, Syntax 2.7 Types of CSS, Importance of CSS 2.8. CSS Selectors-Group, id, class 2.9. CSS properties- Border, background, list, image, margins 2.10. Advantages and limitations of CSS	15	
<b>III</b>	<b>JAVA Script</b> 3.1 Introduction to JavaScript. 3.2 Difference between client side and server side scripting. 3.3 Identifier & operators 3.4 Control structure 3.5. Dialog boxes 3.6 Functions 3.7 Event Handling 3.8 Objects 3.9 Form Validation	15	
<b>IV</b>	<b>HTML 5</b> 4.1 Introduction to HTML5 4.2. Difference between HTML and HTML5 4.3 HTML5- Attributes, events 4.4 HTML5 canvas 4.5.HTML5 Audio & Video	15	

	4.6 HTML5 Drag & Drop 4.7 Web Forms 2.0	
	<b>Reference Books:</b> 1. Complete HTML-Thomas Powell 2. HTML and JavaScript–Ivan Bayross 3. Javascript:The Complete Reference by ThomasPowell, FritzSchneider 4. Introducing HTML5-BruceLawson,RemySharp 5.HTML BlackBook- Steven Holzner 6.HTML5&CSS3- Castro Elizabeth 7thEdition 7.Web Development and Design Foundations with HTML5- Terry A. Felke-Morris	

BCA-II (Sem IV)

<b>Course code:</b> <b>CCL 408</b>	<b>Mini Project</b>	<b>Credit :02</b>	<b>Marks:50</b>
<b>Course Outcomes</b>	After completion of this course student should be able to- 1. Implement fundamental domain knowledge of core courses for developing simple business applications. 2. Utilize the software development techniques, skills and modern tools.		
	<b>Guidelines for Project</b>		
	1. A group of maximum <b>two to four</b> students prepare a mini project under the guidance of internal teacher. 2. Students should adopt SDLC approach 3. Project guide should provide progress report to each group & student should follow it.(Encl. Progress report ) 4. Number of Copies: The student should submit two Hard-bound copies of the Project Report. 5. The project report is duly signed by Principal or Head of Department, Project Guide and Student. 6. Acceptance/Rejection of Project Report: <ul style="list-style-type: none"> <li>o The student should submit progress report with draft project report to the guide.</li> <li>o Respective guide has right to suggest modifications for resubmission or accept the project.</li> <li>o Only on acceptance of draft project report, the student should make the final copies.</li> </ul>		
	Following format for the submission of the Project Report. <b>a. Paper:</b> The Report shall be typed on white paper, A4 size, for the final submission. The Report to be submitted must be original and subsequent copies may be photocopied on any paper. <b>b. Typing:</b> The typing shall be of standard letter size, 1.5 spaced and on <b>both</b> side of the paper. (Normal text should have Times New Roman, Font size 12. Headings can have bigger size) <b>c. Margins:</b> The typing must be done in the following margins: Left -----1.5 inch, Right ----- 1 inch Top ----- 1 inch, Bottom ----- 1 inch <b>d. Front Cover:</b> The front cover should contain the following details: TOP : The title in block capitals of 6mm to 15mm letters. CENTRE: Full name in block capitals of 6mm to 10mm letters. BOTTOM: Name of the University, Course, Year of submission -all in block capitals of 6mm to 10mm letters on separate lines with proper spacing with center alignment. <b>e. Blank Sheets:</b> At the beginning and end of the report, two white black papers should be provided, one for the purpose of binding and other to be left blank.		
IV	<b>Documentation Format</b>		



- a) Cover Page
- b) Institute/College Recommendation
- c) Guide Certificate
- d) Declaration
- e) Acknowledgement
- f) Index
- g) Chapter Scheme
- 1) Introduction to Project**
  - Introduction
  - Existing System
  - Need and scope of Computer System
  - Organization Profile(Optional & applicable for live project only)
- 2) Proposed System**
  - Objectives
  - Requirement Engineering.
    - Requirement Gathering
    - Software Requirements
- 3) System Analysis**
  - System Diagram
    - DFD
    - ERD
    - UML(if applicable)

(Note: Use advanced tools and techniques as per requirement.)
- 4) System Design**
  - Database Design
  - Input Design & its samples
  - Output Design (on screen)
- 5) Implementation**
  - System Requirement
    - Hardware
    - Software
  - Installation process
  - User Guideline
- 6) Reports (with valid Data)**

(Minimum 4 reports)
- 7) Conclusion and Suggestions**
  - Conclusion
  - Limitations
  - Suggestion
- Annexure**
  - Source code(Include Main Logic source code)
  - Questioner/Schedule(if used)
  - Student Guide Meet Record
- References**
  - i) Books
  - ii) Journals
  - iii) Periodicals and Newspapers
  - iv) Web/Blogs

<<Name of College>>

## Student Guide Meet Record

<<Year>>

<b>Title of Project</b>		<b>Class:</b>
<b>Student Names</b>	1) 2) 3) 4)	<b>Guide Name:</b>

Sr.	Date	Description	Signature of Guide	Signature of Student/s	Guide Remark
1		Problem Identification and Topic and title finalization ( 1 <sup>st</sup> week of semester)			
2		SRS submission and approval ( 6 <sup>th</sup> week of semester)			
3		Logical Design of System (DFD, System flowchart, ERD, UML diagram, Decision tables, Decision tree ,site map which is applicable) (7 <sup>th</sup> week of Semester)			
4		Database Design ((8 <sup>th</sup> week of Semester))			
5		I/O Design (with Reports) (10 <sup>th</sup> of Semester)			
6		Submission of Draft Project Report (11 <sup>th</sup> Week of semester )			
7		Submission of Final Project Report (12 <sup>th</sup> Week of semester )			

HOD/ Director/Principal

# **SHIVAJI UNIVERSITY, KOLHAPUR.**



**Accredited By NAAC with 'A' Grade**

**Revised Syllabus For**

**B.A. Part-III**

**English**

**Syllabus to be implemented from**

**June, 2020 onwards.**

**\*Note: Semester V: 10 Marks for Internal Evaluation: STUDENTS' SEMINAR**

**SEMESTER VI**

**AECC 6**

**MODULE V**

- A. Group Discussion
- B. The Lighthouse Keeper of Aspinwall - Henry Sienkiewicz

**MODULE VI**

- A. Note Making and Note Taking
- B. Three Questions - Leo Tolstoy

**MODULE VII**

- A. Media Writing
- B. Eight Rupees - Murli Das Melwani

**MODULE VII**

- A. The Mystic Drum - Gabriel Okara
- B. (i) Two Dead Soldiers- Jean Arasanayagam  
(ii) Bora Ring - Judith Wright

**\*Note: Semester VI: 10 Marks for Internal Evaluation: STUDENTS' GROUP PROJECT**

**Division of Teaching Hours 8 Modules x 15 Hours = 120 Hours**

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**Shivaji University, Kolhapur**  
**B. A. Part III**  
**Special English**  
**INTRODUCTION TO LITERARY CRITICISM (CBCS)**  
**Discipline Specific Elective**  
**Semester V (Paper VII) (DSE- E11) & Semester VI (Paper XII) (DSE- E136)**  
**From June 2020 onwards**

**Course Objectives:**

- To introduce students to the major trends in literary criticism.
- To familiarize students with the major critical concepts.
- To help students to study the original contributions made in the field of literary criticism.
- To acquaint students with the various literary and critical movements.
- To train students to write critical appreciation of poetry.

**Course Outcomes:**

- Students are able to understand the major trends in criticism.
- Students are able to interpret critical concepts.
- Students are able to study the original contributions to literary criticism.
- Students are acquainted with literary and critical movements.
- Students are able to understand the meaning and appreciate the poems critically.

<b>Semester V(Paper VII) (DSE- E11)</b>	
<b>Module I</b>	<b>Introduction to Literary Criticism:</b> 1. Nature of Criticism 2. Function of Criticism
<b>Module II</b>	<b>Classical Criticism:</b> 1. The Concept of Tragedy 2. The Ideal Tragic Hero (From <b>Aristotle's Poetics</b> )
<b>Module III</b>	<b>Neo-classical Criticism:</b> Dr. Samuel Johnson's <i>Preface to Shakespeare</i> (1765)
<b>Module IV</b>	<b>Literary Terms:</b> 1. Symbolism                      2. Realism 3. Humour                            4. Paradox
<b>Note: Semester V: 10 Marks for Internal Evaluation: STUDENTS' SEMINAR</b>	
<b>Semester VI (Paper XII) (DSE- E136)</b>	
<b>Module V</b>	<b>Romantic Criticism:</b> William Wordsworth's Theory of Poetic Diction (From <b>William Wordsworth's Preface to Lyrical Ballads</b> )
<b>Module VI</b>	<b>Victorian Criticism:</b> Matthew Arnold's Touchstone Method ( From <b>Matthew Arnold's The Study of Poetry</b> )
<b>Module VII</b>	<b>Modern Criticism:</b>

	T S Eliot's <i>Tradition and Individual Talent</i> (1919)
<b>Module VIII</b>	<b>Practical Criticism:</b> Poetry
<b>Note: Semester VI: 10 Marks for Internal Evaluation: STUDENTS' GROUP PROJECT</b>	

**Division of Teaching Hours 8 Modules x 15 Hours = 120 Hours**

**Recommended Reading: Semester V and Semester VI**

- Abrams, M. H. *A Glossary of Literary Terms* (8th Edition). New Delhi: Akash Press, 2007.
- Alexander, L. G. *Prose and Poetry Appreciation for Overseas Students*. London: Longman Green and Comp. Ltd., 1966.
- Allex, Latter & Rachel, Teubner. *William Wordsworth's Preface to the Lyrical Ballads*. London: Macat Library, 2018.
- Bliss, Perry. *A Study of Poetry*. Kindle Edition, 22 Feb., 2018.
- Butcher, S. C. *Poetics*. New Delhi: Kalyani Publishers, 1978.
- Bywater, Ingram. *Aristotle's Poetics*. Oxford: Atthe Clarendon Press, 1976.
- Cuddon, J. A. *The Penguin Dictionary of Literary Terms and Literary Theory* (4th Edition). London and New York: Penguin, 2000.
- Davis, Joseph, K. Pathea, R Broughton and Michael Wood. *Literature*. Illinois: Scott, Foresman and Comp. Glenviews, 1977.
- Eliot, T.S. *The Sacred Wood – Essays on Poetry and Criticism*. (Seventh edition), 1950.
- Enright, D.J. & Ernst De Chickera. *English Critical Texts: 16th Century to 20<sup>th</sup> Century*. OUP, 1968.
- Fyfe, Hamilton. *Aristotle's Art of Poetry*. London: OUP, 1940.
- Gray, Martin. *A Dictionary of Literary Terms* (York Handbooks), Pearson Education, 2009.
- Hudson, W. H. *An Introduction to the Study of Literature*. New Delhi: Atlantic, 2007.
- Richards, I. A. *Practical Criticism: A Study of Literary Judgment*. New Delhi: UBS Publishers, 2002.
- Scott James, R. A. *The Making of Literature*. Mumbai: Allied Publishers Pvt. Ltd., 1963.
- Sherbo, Arthur(ed.). *The Yale edition of the works of Samuel Johnson*. Vol.7. New haven: Yale University Press, 1968.
- S. Ramaswami & V. S. Seturaman (ed.) *The English Critical Tradition: An Anthology of English Literary Criticism*, Volume 1,. New Delhi: Macmillan Publishers India Ltd. 1977/2009.
- Seturaman, V. S., C. T. Indra and T. Siraman. *Practical Criticism*. Madras: Macmillan India Ltd., 1995.
- Waugh, Patricia (ed.) *Literary Theory and Criticism: An Oxford Guide*. New York: Oxford University Press, 2006.
- Wimsatt, W. K. and Cleanth Brooks. *Literary Criticism: A Short History*. New Delhi: Oxford and IBH Publishing Company Pvt. Ltd., 1957.
- Wellek, Rene and Austin Warren. *Theory of Literature*. London: Jonathan Cape, 1949.
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**Shivaji University, Kolhapur**  
**B. A. Part III**  
**Special English**  
**ENGLISH DRAMA (CBCS)**  
**Discipline Specific Elective**  
**Semester V (Paper IX) ((DSE – E13) & Semester VI (Paper XIV) (DSE – E138)**  
**From June 2020 onwards**

**Course Objectives:**

- To make students understand different forms of drama
- To enable students to relate drama to their ideological or socio-political contexts
- To help students improve their creative and imaginative faculties through the reading of drama
- To enable students to know about various aspects of the drama

**Course Outcomes:**

- Students are able to understand different forms of drama.
- Students are able to relate drama to their ideological or socio-political contexts.
- Students are able to improve their creative and imaginative faculties through the reading of drama.
- Students are able to know about various aspects of the drama.

**Semester V (Paper IX) ((DSE – E13)**

**MODULE I**

Definition and Elements of Drama

**MODULE II**

Tragedy as a Form

**MODULE III**

*The Importance of Being Earnest* - Oscar Wilde

**MODULE IV**

*Hamlet* – William Shakespeare

**Division of Teaching Hours: 4 Modules X 15 Periods = 60 Periods**

**Prescribed Texts:**

Wilde, Oscar. *The Importance of Being Earnest*. New Delhi: General Press, 2018.  
Shakespeare, William. *Hamlet*. Penguin Books, 1980.

<b>*Note: Semester V: 10 Marks for Internal Evaluation: STUDENTS' SEMINAR</b>
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**Semester VI (Paper XIV) (DSE – E138)**

**MODULE V**

Types of Drama

**MODULE VI**

Comedy as a Form

**MODULE VII**

*Nagmandala* – Girish Karnad

**MODULE VIII**

*Harvest* – Manjula Padmanabhan

**Division of Teaching Hours: 4 Modules X 15 Periods = 60 Periods**

**Prescribed Texts:**

Karnad, Girish. *Nagmandala*. Oxford University Press, 1990.

Padmanabhan, Manjula. *Harvest*. Delhi: Penguin, 1997.

**\*Note: Semester VI: 10 Marks for Internal Evaluation: STUDENTS' GROUP PROJECT**

**Recommended Reading: Semester V and Semester VI**

Aasand, Hardin L. *Stage Directions in Hamlet: New Essays and New Directions*. NJ: Fairleigh Dickinson University Press, 2003.

Babu, Munchi Sarat. *Indian Drama*. New delhi: Prestige Books, 1997.

Bhatt, S.K. *Indian English Drama: A Critical Study*. New Delhi: Sterling Publishers Pvt. Ltd., 1987.

Bloom, Harold. *The Importance of Being Earnest: Modern Critical Interpretations*. Chelsea House Pub., 1988.

Driver, T.F. *Drama and History*. New York: Columbia University Press, 1967.

Ddiya, Jaydipsinh. (ed.) *The Plays of Girish Karnad: Critical Perspectives*. New Delhi: Prestige Books, 1999.

Gargy, Balwant. *Folk Theatre of India*. Calcutta: Rupa & Co., 1991.

Gillespie, Michael Patrick. *The Importance of Being Earnest*. (Norton Critical Editions). W.W.Norton and Co., 2006.

Hibbard, G.R. (ed.) *Hamlet*. OUP: 1988.

Hirsh, James. *Shakespeare and the History of Soliloquies*. NJ: Farleigh Dickinson University Press, 2003.

Joshi, R.G. *Myth in Indian Drama*. Delhi: B.R. Publishing Corporation, 1984.

Kumar, Nand. *Indian English Drama: A Study in Myths*. New Delhi: Sarup and sons, 2003.

MacCary, Thomas. *Hamlet: A Guide to the Play*. London: Greenwood Press, 1988.

Martin, James. *The Meaning of the 21<sup>st</sup> Century*. New York: Riverhead Penguin, 2007.

Priestley, J.B. *The Art of the Dramatist*. London: Heinemann, 1957.

Rajkumar, K. *Socio-Political Realities in Harvest*. Purna:RHI,Mahmul, 2012.

Robertson, Ronald. *Globalization: Social Theory and Global Culture*. London: Sage, 1992.

Sen,B. *The Importance of Being Earnest*. Unique Publishers,2015.

Styan, J.L. *The Elements of Drama*. Cambridge: Cambridge University Press, 1967.

Vaidyanathan, G. *The Importance of Being Earnest*. New Delhi: Narain Publications, 2018.

Worthen, W.B. (ed.). *Anthology of Drama* (Fourth edition). London: Cengage Learning EMEA, 2004.



**Shivaji University, Kolhapur**  
**B. A. Part III Special English**  
**ENGLISH NOVEL (CBCS)**

**Discipline Specific Elective**

**Semester V (Paper X) ((DSE – E14) & Semester VI (Paper XV) (DSE – E139)**

**From June 2020 onwards**

**Course Objectives:**

- To make students understand different forms of novel.
- To enable students to relate novels to their ideological or socio-political contexts.
- To help students to improve their creative and imaginative faculties through the reading of novels.
- To enable students to know about various aspects of the novel.

**Course Outcomes:**

- Students are able to understand different forms of novel.
- Students are able to relate novels to their ideological or socio-political contexts.
- Students are able to improve their creative and imaginative faculties through the reading of novels.
- Students are able to know about various aspects of the novel.

**SEMESTER V (Paper X) (DSE – E14)**

**MODULE I**

Rise and Development of the Novel

**MODULE II**

Aspects of the Novel

**MODULE III**

*The Old Man and the Sea* – Ernest Hemingway

**MODULE IV**

*The Power and the Glory* – Graham Greene

**Division of Teaching Hours: 4 Modules X 15 Periods = 60 Periods**

**Prescribed Texts:**

Hemingway, Ernest. *The Old Man and the Sea*. New York: Simon & Schuster, 1952.

Greene, Graham. *The Power and the Glory*. New York: Time Reading Special Edition. 1940, 1962.

**\*Note: Semester V: 10 Marks for Internal Evaluation: STUDENTS' SEMINAR**

**SEMESTER VI (Paper XV) (DSE – E139)**

**MODULE V**

Historical and Psychological Novel

**MODULE VI**

Satirical Novel and Epistolary novel

**MODULE VII**

*Animal Farm: A Fairy Tale* - George Orwell

**MODULE VIII**

*The Guide* - R. K. Narayan

**Division of Teaching Hours: 4 Modules X 15 Periods = 60 Periods**

**Prescribed Texts:**

Orwell, George. *Animal Farm: A Fairy Tale*. New York: Signet Classic, 1996.  
Narayan, R. K. *The Guide*. US: Viking Press, 1958.

**\*Note: Semester VI: 10 Marks for internal Evaluation: STUDENTS' GROUP PROJECT**

**Suggested Reading: for Semester V and Semester VI**

- Auden, W.H. *The Enchafed Flood: The Romantic Econography of the Sea*. New York: Random, 1950.
- Abrams, M. H. *A Glossary of Literary Terms* (8<sup>th</sup> Edition) New Delhi, Akash Press – 2007
- Bender, Bert. *Sea Brothers: The Tradition of American Sea Fiction from Moby-Dick to the Present*. Philadelphia: University of Pennsylvania Press, 1988.
- Bloom, Harold. *Ernest Hemingway's The Old Man and the Sea: Modern Critical Interpretations*. Cheasea House Publications, 2008.
- Bradbury, Malcolm. *The Novel Today*. Glasgow: F. C. Paperbacks, 1982.
- Brooks and Warren. *Understanding Fiction*. Prentice Hall, 1959.
- Dedria, Bryfonski & Hall, Sharon. *Twentieth Century Literary Criticism: George Orwell*. Michigan: Book Tower, 1979.
- Edel, Leon. *The Psychological Novel: 1900-1950*. Ludhiana: Kalyani, 1997.
- Forster, E. M. *Aspects of Novel*. London. 1949.
- Hynes, Samuel, ed. *Graham Greene: A Collection of Critical Essays*. New Jersey: Prentice Hall, Inc. 1973.
- Jones, David P. *Graham Greene*. Edinburgh: Oliver and Boyd. 1963.
- Kerala, Calling. *From Eric Blair to George Orwell, Biography*. London: Sage, 2003.
- Kermode, Frank. *Sense of an Ending*. OUP, 1967.
- Lall, Pamji. *Graham Greene: The Power and the Glory: A Critical Study*. New Delhi: Roma Brothers India Pvt. Ltd. 2005.
- Lewis, R.W.B. & Conn, Petr J. ed. *Graham Greene: The Power and the Glory: Text and Criticism*. New York: The Viking Press, 1970.
- Lubbock, Percy. *The Craft of Fiction*. London: Jonahan Cape, 1965.
- Matz, Jesse. *The Modern Novel: A Short Introduction*. Oxford Blackwell, 2004.
- Meyers, Jeffery. *George Orwell: The Critical Heritage*. Routledge, 1997.
- Rimmon-Kennan, Shlomith. *Narrative Fiction*. London and New York: Routledge, 2005.
- Roy, Ruby. *A Critical Study of R.K. Narayan's Swami and Friends and The Guide*. Delhi: Kalpaz Publications, 2015.
- Rees, R. J. *Introduction to English Literature*. London: Macmillan, 1966/1968.
- Singh, P.K. *The Novels of R. K. Narayan :A Critical Study*. New Delhi: Atlantic Publishers.
- Stade, George, ed. *Six Contemporary British Novelists*. New York: Columbia University Press, 1976.
- Subramaniam, K.S. *Graham Greene: A Study of Graham Greene's Works*. Bareilly: Prakash Book Depot, 1978.
- Vinson, James, ed. *Contemporary Novelists*. London: St. James Press, 1972.
- Watt, Ian. *Rise of the Novel*. London: Penguin, 1957.
- Woodcock, George. *20<sup>th</sup> Century Fiction*. London: The Macmillan Press Ltd., 1983.
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**Shivaji University, Kolhapur**  
**B.A. III**  
**English Special**  
**LANGUAGE AND LINGUISTICS (CBCS)**  
**Discipline Specific Elective**  
**Semester VI – Paper XVI (DSE - E140)**  
**From June 2020 onwards**

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**Course Objectives:**

- To acquaint students with structures and functions of words and phrases.
- To enable students to know and identify elements and types of clauses.
- To study Subordination and Coordination.
- To study different ways of structuring clauses.

**Course Outcomes:**

- Students know words and phrases.
- Students know and identify elements and types of clauses.
- Students know types of sentences.
- Students know the different ways of structuring clauses

**Semester VI – Paper XVI (DSE - E140)**

**MODULE V**

**Phrases**

**MODULE VI**

**Clauses**

**MODULE VII**

**Subordination and Coordination**

**MODULE VIII**

**Basic and Derived Structures**

- i) Inversion / Fronting
- ii. Negation
- iii. Interrogation
- iv. Exclamation
- v. Omission of Certain Elements  
( Relative Pronouns, Comparative Clauses, Tag Questions)
- vi. Passivisation
- vii. Subject Raising
- viii. Style Transformation

**Note: Semester VI: 10 Marks for Internal Evaluation: STUDENTS' GROUP PROJECT**

**Division of Teaching Hours: 4 Modules X 15 Periods = 60 Periods**

# SHIVAJI UNIVERSITY, KOLHAPUR



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**Accredited by NAAC 'A' Grade**  
**Revised Syllabus for**  
**Bachelor of Arts**  
**B.A. Part-III - MARATHI**  
**CHOICE BASED CREDIT SYSTEM**  
**(Syllabus will be implemented from June, 2020)**

**शिवाजी विद्यापीठ, कोल्हापूर**  
**SHIVAJI UNIVERSITY, KOLHAPUR**

मराठी अभ्यास मंडळ

Board of Studies in Marathi  
पसंतीवर आधारित श्रेयांक पद्धती  
Choice Based Credit System

बी.ए. भाग-३ (मराठी) : B.A. Part-III (Marathi)

अभ्यासक्रम : Syllabus

Introduced from June 2020 onwards

**समकक्षता / Equivalence**

		जुना अभ्यासक्रम		नवा अभ्यासक्रम
सत्र क्र. Sem.	अभ्यास- पत्रिका क्र. Paper No.	अभ्यासपत्रिकेचे नाव	अभ्यास- पत्रिका क्र. Paper No.	अभ्यासपत्रिकेचे नाव
V	VII	काव्यशास्त्र	VII	साहित्यविचार
V	VIII	भाषाविज्ञान आणि मराठी भाषा	VIII	मराठी भाषा व भाषाविज्ञान
V	IX	मराठी वाङ्मयाचा इतिहास	IX	मध्ययुगीन मराठी वाङ्मयाचा इतिहास (प्रारंभ ते इ.स.१५००)
V	X	मराठी भाषा : उपयोजन आणि सर्जन	X	मराठी भाषा व अर्थार्जनाच्या संधी
V	XI	वाङ्मयप्रवाहांचे अध्ययन (ग्रामीण साहित्य)	XI	वाङ्मयप्रवाहाचे अध्ययन : मध्ययुगीन
VI	XII	काव्यशास्त्र	XII	साहित्यविचार
VI	XIII	भाषाविज्ञान आणि मराठी भाषा	XIII	मराठी भाषा व भाषाविज्ञान
VI	XIV	मराठी वाङ्मयाचा इतिहास	XIV	मध्ययुगीन मराठी वाङ्मयाचा इतिहास (इ.स.१५०० ते १८००)
VI	XV	मराठी भाषा : उपयोजन आणि सर्जन	XV	मराठी भाषा व अर्थार्जनाच्या संधी
VI	XVI	वाङ्मयप्रवाहांचे अध्ययन (दलित साहित्य)	XVI	वाङ्मयप्रकाराचे अध्ययन : ललित गद्य (व्यक्तिचित्रे)

**सूचना :** १. सत्र पाच (V) साठी विद्यापीठाने प्रत्येक अभ्यासपत्रिकेनुरूप अंतर्गत मूल्यमापनासाठी १० गुणांसाठी सेमिनार सुचविला आहे. सदर सेमिनारसाठी त्या त्या अभ्यासपत्रिकेच्या अभ्यासक्रमानंतर सेमिनार विषय दिले आहेत. त्यापैकी एका विषयावर प्रत्येक विद्यार्थ्याने सादरीकरण करणे आवश्यक आहे. त्यामध्ये विषयानुसार उद्दिष्टे, प्रास्ताविक, विषयविवेचन, निष्कर्ष आणि संदर्भ या सूत्रानुरूप सादरीकरण गरजेचे आहे. ज्या विषयावर सेमिनार दिला आहे त्याची टिपणे विद्यार्थी व संबंधित विषय शिकविणाऱ्या शिक्षकांच्या स्वाक्षरीसह महाविद्यालयाच्या विभागात जतन करून ठेवणे आवश्यक आहे.

२. सत्र सहा (VI) साठी विद्यापीठाने प्रत्येक अभ्यासपत्रिकेनुरूप अंतर्गत मूल्यमापनासाठी १० गुणांचा गटप्रकल्प (Group Project) सूचविला आहे. सदर गटप्रकल्पासाठी त्या त्या अभ्यासपत्रिकेच्या अभ्यासक्रमानंतर गटप्रकल्प विषय सुचविले आहेत. त्यापैकी एका विषयावर गटप्रकल्प सादर करणे आवश्यक. गटप्रकल्प तयार करताना शीर्षक, उद्दिष्टे, प्रास्ताविक, गहीतके, विषयाचे महत्त्व, विषयविवेचन, निष्कर्ष आणि संदर्भ या क्रमाने गटप्रकल्प तयार करावा. एका गटप्रकल्पासाठी कमाल ५ विद्यार्थी मर्यादा असावी. ज्या विषयावर गटप्रकल्प तयार केला आहे; त्यावर गटप्रकल्पकांची व संबंधित विषय शिकविणाऱ्या शिक्षकांची स्वाक्षरी घेऊन सदर प्रकल्प विभागात जतन करून ठेवावेत.

३. सेमिनार व गटप्रकल्पसंदर्भात विषयाची निवड करताना विद्यापीठाने सूचित केलेल्या विषयाबरोबर त्या त्या अभ्यासपत्रिकेनुरूप आणखी काही नावीन्यपूर्ण विषयांची निवड करण्यास स्वातंत्र्य दिले आहे.

**शिवाजी विद्यापीठ, कोल्हापूर**  
**SHIVAJI UNIVERSITY, KOLHAPUR**

मराठी अभ्यास मंडळ

Board of Studies in Marathi  
पसंतीवर आधारित श्रेयांक पद्धती  
Choice Based Credit System

## Structure of Programme

Revised syllabus B. A. Part III (MARATHI)

Introduced from June 2020 onwards

Sr.No.	सत्र क्र. Sem.	अभ्यासपत्रिकेचे नाव	अभ्यास- पत्रिका क्र. Paper No.	Workload	Credits	Total Credits	Theory Marks	Term work/ Seminar
1	V	साहित्यविचार	VII	4 lectures/ week	4	20	40	10
2	V	मराठी भाषा व भाषाविज्ञान	VIII	4 lectures/ week	4		40	10
3	V	मध्ययुगीन मराठी वाङ्मयाचा इतिहास (प्रारंभ ते इ.स.१५००)	IX	4 lectures/ week	4		40	10
4	V	मराठी भाषा व अर्थार्जनाच्या संधी	X	4 lectures/ week	4		40	10
5	V	वाङ्मयप्रवाहाचे अध्ययन : मध्ययुगीन	XI	4 lectures/ week	4		40	10
Sr.No.	सत्र क्र. Sem.	अभ्यासपत्रिकेचे नाव	अभ्यास- पत्रिका क्र. Paper No.	Workload	Credits	Total Credits	Theory Marks	Term work/ Group project
6	VI	साहित्यविचार	XII	4 lectures/ week	4	20	40	10
7	VI	मराठी भाषा व भाषाविज्ञान	XIII	4 lectures/ week	4		40	10
8	VI	मध्ययुगीन मराठी वाङ्मयाचा इतिहास (इ.स.१५०० ते १८००)	XIV	4 lectures/ week	4		40	10
9	VI	मराठी भाषा व अर्थार्जनाच्या संधी	XV	4 lectures/ week	4		40	10
10	VI	वाङ्मयप्रकाराचे अध्ययन : ललितगद्य (व्यक्तिचित्रे)	XVI	4 lectures/ week	4		40	10

**शिवाजी विद्यापीठ, कोल्हापूर**  
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मराठी अभ्यास मंडळ

Board of Studies in Marathi

पसंतीवर आधारित श्रेयांक पद्धती

Choice Based Credit System

बी.ए. भाग-३ : B.A. Part-III

अभ्यासक्रम : Syllabus

June, 2020 onward

सत्र-५ : Semester No. V : अभ्यासपत्रिका क्र. VII

Discipline Specific Elective (DSE-E1)

विद्याशाखीय विशेष निवड (DSE-E1)

**साहित्यविचार**

उद्दिष्टे :

१. पौर्वात्य, पाश्चात्य व आधुनिक भारतीय साहित्यशास्त्राचे स्वरूप समजून घेणे.
२. ललित व ललितेतर साहित्याचे स्वरूप समजून घेणे.
३. साहित्य प्रयोजनांचे आकलन करून घेणे.
४. साहित्याची निर्मितिप्रक्रिया आणि त्याचे स्वरूप आकलन करून घेणे.
५. भाषेतील अलंकार समजून घेणे.

**अभ्यासक्रम**

अ. क्र. Sr. No.	घटक Topic	अध्यापन तासिका Teaching Hours	श्रेयांक Credit
विभाग १ Module I	<p>साहित्याचे स्वरूप</p> <p>■ साहित्याच्या व्याख्या</p> <ul style="list-style-type: none"><li>● पौर्वात्य - भामह, मम्मट, आनंदवर्धन, विश्वनाथ</li><li>● पाश्चात्य - वर्डस्वर्थ, कोर्टहोप, मॅथ्यू अर्नोल्ड, कार्लाइल</li><li>● आधुनिक - विनोबा भावे, अ. वा. कुलकर्णी, गंगाधर गाडगीळ, वि. ना. ढवळे,</li></ul> <p>■ ललित व ललितेतर साहित्य</p> <p>■ ललित साहित्यातून व्यक्त होणाऱ्या अनुभवांचे विशेष-संवेदनात्मकता, भावनात्मकता, वैचारिकता, सेंद्रियता, सूचकता, विशिष्टता, विश्वात्मकता</p>	१५	१

विभाग २ Module 2	<p>साहित्याचे प्रयोजन</p> <ul style="list-style-type: none"> <li>● प्रयोजन म्हणजे काय ?</li> <li>● प्रयोजन आणि परिणाम यातील फरक</li> <li>■ साहित्याची प्रयोजने :</li> <li>१) यश किंवा कीर्ती २) व्यवहारज्ञान ३) आनंद</li> <li>४) उद्बोधन ५) आत्माविष्कार ६) जिज्ञासापूर्ती ७) जीवनानुभूती</li> <li>८) इच्छापूर्ती अथवा स्वप्नरंजन ९) पलायनवाद (Escapism)</li> </ul>	१५	१
घटक ३ Module 3	<p>साहित्यनिर्मितीची कारणे</p> <ul style="list-style-type: none"> <li>● साहित्यनिर्मितीचे स्वरूप</li> <li>● साहित्यनिर्मितीची कारणे</li> <li>१) प्रतिभा - स्वरूप व वैशिष्ट्ये (प्रतिभाव्यापार, प्रतिभेचे अलौकिकत्व, अपूर्वनिर्मितिक्षम प्रतिभा, प्रतिभा ही वेडाची बहीण)</li> <li>२) बहुश्रुतता ३) अभ्यास ४) भावनात्मकता ५) संवेदनशीलता</li> <li>६) उत्प्रेक्षा ७) चमत्कृती ८) स्वास्थ्य (शारीरिक, मानसिक)</li> <li>९) साहित्यिकाचा जीवनविषयक दृष्टिकोण</li> </ul>	१५	१
घटक ४ Module 4	<p>अलंकार</p> <ul style="list-style-type: none"> <li>१) अतिशयोक्ती २) स्वभावोक्ती ३) दृष्टान्त ४) उपमा</li> <li>५) अनुप्रास ६) रूपक</li> <li>(व्याख्या, स्वरूप आणि उदाहरणे अपेक्षित)</li> </ul>	१५	१

\* प्रश्नपत्रिकेचे स्वरूप व गुणविभागणी \*

### Pattern of Question Paper

एकूण गुण - ४० : Total Marks-40

प्रश्न १	योग्य पर्याय निवडा	०५ गुण
प्रश्न २	अंतर्गत विकल्पासह दीर्घोत्तरी प्रश्न	१५ गुण
प्रश्न ३	अंतर्गत विकल्पासह लघूत्तरी प्रश्न (तीन पैकी दोन)	१० गुण
प्रश्न ४	अलंकार (चार पैकी दोन)	१० गुण

सूचना :

१. विभाग चार वर वस्तुनिष्ठ प्रश्न असणार नाहीत.
२. अंतर्गत मूल्यमापनाकरिता सेमिनारसाठी दहा गुण आहेत.

सेमिनार विषय :

- विविध साहित्य प्रवाहातील कोणत्याही एका साहित्यकृतीचे किंवा अनुवादित साहित्यकृतीचे परीक्षण करून सादरीकरण करणे.
- कोणत्याही भाषेतील एका चित्रपट वा नाटकाचे परीक्षण करून सादरीकरण करणे.



**Pattern of Question Paper**

एकूण गुण - ४० : Total Marks-40

प्रश्न १	योग्य पर्याय निवडा	०५ गुण
प्रश्न २	अंतर्गत विकल्पासह दीर्घोत्तरी प्रश्न	१५ गुण
प्रश्न ३	अंतर्गत विकल्पासह लघूत्तरी प्रश्न (तीन पैकी दोन)	१० गुण
प्रश्न ४	टिपा लिहा (चार पैकी दोन)	१० गुण

सूचना : १. गटप्रकल्पासाठी अंतर्गत मूल्यमापनाकरिता प्रती विद्यार्थ्यांस दहा गुण आहेत.

**गटप्रकल्प विषय :**

\* आपल्या परिसरातील कोणत्याही ग्रंथालयातील किंवा ग्रंथालयाबाहेरील मध्ययुगीन मराठी ग्रंथकार आणि ग्रंथ यांची सूची तयार करावी.

\* मध्ययुगीन मराठी वाङ्मयातील निवडक शब्दांचा शब्दसंग्रह करणे आणि त्यांचे वर्गीकरण व विश्लेषण करणे.

**मूलभूत वाचन :**

१. नसिराबादकर, ल. रा.
२. देशपांडे, अ. ना.
३. पांगारकर, ल. रा.
४. मंचरकर, र. बा.
५. गवळी, अनिल
६. सपकाळे, प्रकाश
७. वाटवे, के. ना. (संपा.)
८. फाटक, न. र.
९. सरदेशमुख, चं. वि.
१०. हेरवाडकर, र. वि.
११. अदवंत, म. ना.
१२. सहस्त्रबुद्धे, म. ना.
१३. खरात, महेश (संपा.)

प्राचीन मराठी वाङ्मयाचा इतिहास, फडके प्रकाशन, कोल्हापूर  
 प्राचीन मराठी वाङ्मयाचा इतिहास खंड १ ते ४, व्हीनस प्रकाशन, पुणे  
 प्राचीन मराठी वाङ्मयाचा इतिहास खंड १ ते ३, महाराष्ट्र साहित्य परिषद, पुणे  
 धर्म संप्रदाय आणि मध्ययुगीन मराठी वाङ्मय, प्रतिमा प्रकाशन, पुणे  
 सर्वात्मभावी तुकाराम, सायन पब्लिकेशन प्रा. लि. पुणे  
 संत तुकाराम, प्रशांत पब्लिकेशन्स, जळगाव  
 प्राचीन मराठी पंडिती काव्य.  
 श्री एकनाथ वाङ्मय दर्शन आणि कार्य, मौज प्रकाशन गृह, मुंबई  
 रामदास : प्रतिमा आणि बोध, अस्मिता प्रकाशन, पुणे  
 मराठी बखर, व्हीनस प्रकाशन, पुणे  
 पंजण, साहित्य प्रसार केंद्र, नागपूर  
 मराठी शाहिरी वाङ्मय, ठोकळ प्रकाशन, पुणे  
 लोकसाहित्य : जीवन आणि संस्कृती, (प्रा.विश्वनाथ शिंदे गौरवग्रंथ), सायन पब्लिकेशन, पुणे

**पूरक वाचन :**

१. तुळपुळे, शं. गो. (संपा.)
२. तुळपुळे, शं. गो. (संपा.)
३. उपासे, शिवशंकर
४. पाटील, तानाजी
५. हेरवाडकर, र. वि.

मध्ययुगीन मराठी वाङ्मयाचा इतिहास, म. सा. प., पुणे  
 मराठी वाङ्मयाचा इतिहास, महाराष्ट्र साहित्य परिषद, पुणे  
 मराठी काव्यातील शिवदैवत दर्शन, आख्यानकाव्य व स्फुटकाव्य : १३ ते १८ वे शतक, शैवभारती शोध प्रतिष्ठान, जंगमवाडी मठ, वाराणसी  
 संत साहित्यातील सामाजिकता, विश्वकर्मा प्रकाशन, पुणे  
 मराठी बखर

**संदर्भ ग्रंथ :**

१. बडवे, सतीश
२. फाटक, न. र.
३. माटे, श्री. म.
४. होनमाने, धनंजय
५. होनमाने, धनंजय
६. ग्रामोपाध्ये, गं. ब.
७. शिंदे, विश्वनाथ
७. केळकर, य. न.
९. मोरजे, गंगाधर
१०. वर्दे, श्री. म.

मध्ययुगीन साहित्याविषयी, मीरा, औरंगाबाद  
 श्री. रामदास, वाङ्मय आणि कार्य  
 संत, पंत आणि तंत, ठोकळ प्रकाशन, पुणे  
 तंजावरची मराठी कीर्तनपरंपरा, स्नेहवर्धन, पुणे  
 पंत प्रतिनिधींची कीर्तनाख्याने, दर्या प्रकाशन, पुणे  
 मराठी बखर गद्य, व्हीनस बुक स्टॉल, पुणे  
 शाहिरी वाङ्मयाच्या धारा, प्रतिमा प्रकाशन, पुणे  
 मराठी शाहीर आणि शाहिरी वाङ्मय, पुणे विद्यापीठ, पुणे  
 मन्हाटी लावणी वाङ्मय, मोघे प्रकाशन, कोल्हापूर  
 मराठी कवितेचा उषःकाल किंवा मराठी शाहीर, मुंबई मराठी साहित्य संघ, मुंबई

**शिवाजी विद्यापीठ, कोल्हापूर**  
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मराठी अभ्यास मंडळ

Board of Studies in Marathi

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Choice Based Credit System

बी.ए. भाग-३ : B.A. Part-III

अभ्यासक्रम : Syllabus

June, 2020 onward

सत्र-६ : Semester No. 6 : अभ्यासपत्रिका क्र. XV

Discipline Specific Elective (DSE-E129)

विद्याशाखीय विशेष निवड (DSE-E129)

मराठी भाषा व अर्थार्जनाच्या संधी

पाठ्यपुस्तक : मराठी भाषा व अर्थार्जनाच्या संधी (संपादन)

शिवाजी विद्यापीठ प्रकाशन, कोल्हापूर

उद्दिष्टे :

१. प्रसारमाध्यमांतील अर्थार्जनाच्या संधी आणि भाषिक कौशल्ये यांचा परिचय करून घेणे.
२. स्पर्धा परीक्षांमध्ये मराठी भाषा विषयाचे महत्त्व समजून घेणे.
३. उद्योग व सेवा क्षेत्रात मराठी भाषेद्वारे अर्थार्जनप्राप्ती संदर्भात ज्ञान संपादन करणे.
४. मुद्रित शोधनाची पद्धत अभ्यासणे.

**अभ्यासक्रम**

अ. क्र. Sr. No.	घटक Topic	अध्यापन तासिका Teaching Hours	श्रेयांक Credit
विभाग १ Module I	प्रसारमाध्यमांतील अर्थार्जनाच्या संधी व भाषिक कौशल्ये ■ मुद्रित माध्यमे (Print Media) १. संपादन २. स्तंभलेखन ३. जाहिरात लेखन ४. शब्दांकन (नावीण्यपूर्ण उपक्रम, व्यक्तींचे अनुभव व मानपत्र) ■ आकाशवाणी १. निवेदन २. संहिता लेखन (कृषी, महिला व शैक्षणिक विषयक) ३. बातमी लेखन ■ चित्रवाणी १. निवेदन २. संहिता लेखन (साहित्य, युवा व मनोरंजन विषयक) ३. बातमी लेखन	१५	१

विभाग २ Module II	उद्योग व सेवाक्षेत्रातील अर्थार्जनाच्या संधी व भाषिक कौशल्ये <b>■ उद्योग व सेवाक्षेत्र आणि मराठी भाषा</b> <b>■ उद्योग व सेवाक्षेत्रातील अर्थार्जन संधी –</b> १. विपणन (Marketing) साठी संवाद कौशल्ये २. ग्राहक सेवा केंद्र (Call Centers) ३. अनुवाद ४. मराठी टंकलेखन, युनिकोड व पीपीटी (Power Point Presentation) परिचय	१५	१
विभाग ३ Module III	मुद्रितशोधन १. मुद्रितशोधन : संकल्पना, स्वरूप, प्रकार व महत्त्व २. महाराष्ट्र शासनाचे प्रमाणलेखनविषयक १८ नियम, अपवाद, उदाहरणे, विरामचिन्हे ३. मुद्रित शोधनाची पद्धत : सांकेतिक खुणा, त्याचे स्पष्टीकरण, पहिले वाचन व पुढील मुद्रितशोधन, संगणकीय मुद्रितशोधन ४. मुद्रितशोधनाचे प्रात्यक्षिक कार्य :वर्तमानपत्र, नियतकालिक, ग्रंथ, छापील मजकूर, लेख इ.	१५	१
विभाग ४ Module IV	स्पर्धा परीक्षांसाठी मराठी १. स्पर्धा परीक्षांचे स्वरूप : सरळसेवा, कम्बाईन, राज्यसेवा, संघ लोकसेवा आयोग २. स्पर्धा परीक्षांमधील मराठीचे स्वरूप : अभ्यासक्रम परिचय ३. स्पर्धा परीक्षेसाठी कौशल्ये : वाचन, नोट्स (टिपणे), लेखन, हस्ताक्षर, वेळेचे व्यवस्थापन, गटचर्चा,संदर्भ साहित्य ४. मुलाखतीची पूर्वतयारी व तंत्रे (मुलाखत कशी द्यावी)	१५	१

\* प्रश्नपत्रिकेचे स्वरूप व गुणविभागणी \*

### Pattern of Question Paper

एकूण गुण – ४० : Total Marks-40

प्रश्न १	योग्य पर्याय निवडा	०५ गुण
प्रश्न २	अंतर्गत विकल्पासह दीर्घोत्तरी प्रश्न	१५ गुण
प्रश्न ३	अंतर्गत विकल्पासह लघूत्तरी प्रश्न (तीन पैकी दोन)	१० गुण
प्रश्न ४	टिपा लिहा (चार पैकी दोन)	१० गुण

सूचना : १. गटप्रकल्पासाठी अंतर्गत मूल्यमापनाकरिता प्रती विद्यार्थ्यास दहा गुण आहेत.

### गटप्रकल्प विषय :

१. राष्ट्रीय, शैक्षणिक, सांस्कृतिक, सामाजिक, कृषी, आरोग्य, भाषा व साहित्य क्षेत्रातील ताज्या घडामोडी यापैकी एका विषयावर आकाशवाणी किंवा चित्रवाणीसाठी संहितालेखन.
२. उद्योग व सेवाक्षेत्रे आणि प्रसारमाध्यमे यांना भेटी देऊन तेथील भाषिक उपयोजनावर आधारित प्रकल्प तयार करणे.

### मूलभूत वाचन :

१. काणे, पुष्पा नभोवाणी कार्यक्रम : तंत्र आणि मंत्र, इंडिया बुक कंपनी, पुणे
२. भागवत, यशोदा बोलका कॅमेरा, मौज प्रकाशन, पुणे
३. राजाध्यक्ष, विजया (संपा.) मराठी वाङ्मय कोश, साहित्य आणि संस्कृती मंडळ, मुंबई
४. मोरे, सदानंद व लिंगाळे, शरणकुमार प्रबोधनपर वैचारिक वाङ्मय, य. च. म. मु. विद्यापीठ, नाशिक
५. रेगे, मे. पुं. व इतर मराठी विचारवंत आणि आपण, मौज प्रकाशन गृह, मुंबई
६. शेख, यास्मिन मराठी लेखन मार्गदर्शिका, राज्य मराठी विकास संस्था, मुंबई
७. फडके, अरुण मराठी लेखन-कोश, अंकुर प्रकाशन, ठाणे
८. धायगुडे, य. ए. मुद्रितशोधन, दि पूना प्रेस ओनर्स असो. लि. पुणे
९. खोपकर, अरुण चित्रव्यूह, लोकवाङ्मय गृह, प्रकाशन, मुंबई
१०. वरखेडे, रमेश सायबर संस्कृती, इन्स्टिट्यूट ऑफ नॉलेज इंजिनिअरिंग, नाशिक
११. कांबळे, अमर स्पर्धा परीक्षेला सामोरे जाताना, निर्मिती संवाद प्रकाशन, कोल्हापूर
१२. कांबळे, अमर मुलाखत कौशल्य, निर्मिती संवाद प्रकाशन, कोल्हापूर

### पूरक वाचन :

१. कुंभार, प्रकाश उपयोजित भाषाविज्ञान आणि प्रसारमाध्यमे, अक्षरदालन, कोल्हापूर
२. जोशी, प्रभाकर उपयोजित मराठी, प्रशांत पब्लिकेशन्स, जळगाव
३. तौर, पृथ्वीराज मराठी भाषिक कौशल्ये विकास, अथर्व पब्लिकेशन्स, धुळे
४. फडके, अरुण शुद्धलेखन मार्गप्रदीप, अंकुर प्रकाशन, ठाणे
५. दीक्षित, विजय चित्रपट : एक कला, रेणुका प्रकाशन, नाशिक
६. इनामदार, एस. डी. माध्यम, एस. डी. प्रकाशन, पुणे

### संदर्भ ग्रंथ :

१. देशपांडे, वि. भा. व जोगळेकर, सुषमा (संपा.) मराठी कलाभिरुची, कॉन्टिनेन्टल प्रकाशन, पुणे
२. पचिंद्रे, श्रीराम मुलाखत आणि शब्दांकन, अनुबंध प्रकाशन, पुणे
३. ढोले, विश्राम प्रसारमाध्यमे आणि प्रयोगकला, लोकवाङ्मय गृह, मुंबई
४. शिंदे, अरुण सत्यशोधकीय नियतकालिके, कृष्णा संशोधन व विकास अकादमी, मंगळवेढा
५. जोशी, प्रभाकर व वले, वासुदेव उपयोजित मराठी, प्रशांत पब्लिकेशन्स, जळगाव
६. रेगे, मे. पुं. (संपा.) नवभारत (मासिक), व्यावहारिक मराठी विशेषांक, प्राज्ञ पाठशाळा मंडळ, वाई (ऑगस्ट-सप्टेंबर १९८१)
७. भालके, रामचंद्र व इतर प्रबोधनपर साहित्य : स्वरूप आणि संकल्पना, य.च.म.मु. विद्यापीठ, नाशिक
८. चपळगावकर, नरेंद्र मराठीतील वैचारिक साहित्य : लेखक आणि समाज, नवभारत, जून २०१६ वर्ष २९, अंक ९
९. चौसाळकर, अशोक विचारवंत आणि समाज, युनिक अॅकॅडमी, पुणे
१०. गावडे, गोपाळ मामा वरेरकर : प्रयोगाची नांदी, मनोकामना प्रकाशन, इस्लामपूर, २०१७
११. कांबळे, विनोद सर्जननोंदी, वाचनकट्टा प्रकाशन, प्रा. लि., कोल्हापूर, २०१९

**शिवाजी विद्यापीठ, कोल्हापूर**  
**SHIVAJI UNIVERSITY, KOLHAPUR**

मराठी अभ्यास मंडळ

Board of Studies in Marathi

पसंतीवर आधारित श्रेयांक पद्धती

Choice Based Credit System

बी.ए. भाग-३ : B.A. Part-III

अभ्यासक्रम : Syllabus

June, 2020 onward

सत्र-६ : Semester No. 6 : अभ्यासपत्रिका क्र. XVI

Discipline Specific Elective (DSE-E-130)

विद्याशाखीय विशेष निवड (DSE-E-130)

वाङ्मय प्रकाराचे अध्ययन : ललित गद्य (व्यक्तिचित्रे)

पाठ्यपुस्तक : मुलखावेगळी माणसं (संपादन)

शिवाजी विद्यापीठ प्रकाशन, कोल्हापूर

उद्दिष्टे :

१. ललित गद्य वाङ्मयप्रकाराचे स्वरूप अभ्यासणे.
२. व्यक्तिचित्र संकल्पना व स्वरूप समजून घेणे.
३. प्रवाहानुरूप मराठीतील व्यक्तिचित्रांचे स्वरूप अभ्यासणे.
४. 'मुलखावेगळी माणसं'मधील व्यक्तिविशेषांचे आकलन करून घेणे.
५. 'मुलखावेगळी माणसं'मधील शैक्षणिक, सामाजिक, सांस्कृतिक, राजकीय पर्यावरण आणि कौटुंबिक भावविश्व अभ्यासणे.
६. 'मुलखावेगळी माणसं'मधील ग्रामीण व उपेक्षितांच्या जीवनाचे आकलन करून घेणे.
७. 'मुलखावेगळी माणसं'मधील अभिव्यक्ती, निवेदनशैली व भाषाविशेष अभ्यासणे.

अभ्यासक्रम

अ. क्र. Sr. No.	घटक Topic	अध्यापन तासिका Teaching Hours	श्रेयांक Credit
विभाग १ Module I	ललित गद्य : संकल्पना व स्वरूप व्यक्तिचित्रे : संकल्पना, स्वरूप/वैशिष्ट्ये आणि वाटचाल व्यक्तिचित्र लेखनासाठी आवश्यक गुण	१५	१
विभाग २ Module II	१. रामा मैलकुली - व्यंकटेश माडगूळकर २. मृत्यूचे चुंबन घेणारा महाकवी - प्र. के. अत्रे ३. निळू मांग - अण्णाभाऊ साठे ४. मोरणी - विभावरी शिरूरकर	१५	१
विभाग ३ Module III	५. जमीला जावद - हमीद दलवाई ६. यंकटाण्णा - व. वा. बोधे ७. दगडूमामा - उत्तम कांबळे ८. मुंबईचा चित्रकार - अरुण खोपकर	१५	१
विभाग ४ Module IV	९. हीरा - इंद्रजित भालेराव १०. बाबा मास्तर - दि. बा. पाटील ११. दादासाहेब वस्ताद - सयाजीराजे मोकाशी १२. डोकेवाला संशोधक : दादाजी रामजी खोब्रागडे - व्ही.एन.शिंदे	१५	१

\* प्रश्नपत्रिकेचे स्वरूप व गुणविभागणी \*

## Pattern of Question Paper

एकूण गुण - ४० : Total Marks-40

प्रश्न १	योग्य पर्याय निवडा	०५ गुण
प्रश्न २	अंतर्गत विकल्पासह दीर्घोत्तरी प्रश्न	१५ गुण
प्रश्न ३	अंतर्गत विकल्पासह लघूत्तरी प्रश्न (तीन पैकी दोन)	१० गुण
प्रश्न ४	टिपा लिहा (चार पैकी दोन)	१० गुण

### सूचना :

१. विभाग एक वर वस्तुनिष्ठ प्रश्न असणार नाहीत.
२. गटप्रकल्पासाठी अंतर्गत मूल्यमापनाकरिता प्रती विद्यार्थ्यास दहा गुण आहेत.

### गटप्रकल्प विषय :

आपल्या परिसरातील शैक्षणिक, सामाजिक, सांस्कृतिक, कला, क्रीडा, आरोग्य, राजकीय इत्यादी समाजजीवनाच्या कोणत्याही क्षेत्रातील व्यक्तींची व्यक्तिचित्रे लिखित स्वरूपात प्रती प्रकल्पनुरूप ५ (किमान एका प्रकल्पकास एक नुसार) तयार करून ती एकत्रित जमा करावीत.

### मूलभूत वाचन :

१. वास्कर, आनंद (संपा.) वाङ्मयप्रकार संकल्पना (डॉ. विजय निंबाळकर गौरवग्रंथ), अन्वय प्रकाशन, पुणे
२. चौधुले, वि. शं. मुक्तगद्य : संकल्पना आणि उपयोजन, मॅजेस्टिक प्रकाशन, मुंबई, २००८
३. शिंदे, रणधीर ललित गद्य ते मुक्तगद्य (लेख), दै. महाराष्ट्र टाईम्स, २९-१२-२०१३
४. मालशे, मिलिंद साहित्य प्रकाराची संकल्पना (लेख), साहित्य : अध्यापन आणि प्रकार, (संपा.) श्री. पु. भागवत, सुधीर रसाळ, मौज प्रकाशन, मुंबई, १९८७
५. हातकणंगलेकर, जहागीरदार, पवार, गो. मा. मराठी साहित्य : प्रेरणा आणि स्वरूप, पॉप्युलर प्रकाशन, मुंबई, १९८६
६. पुरोहित, के. ज. लघुनिबंध, साहित्य अकादमी, नवी दिल्ली

### पूरक वाचन :

१. माडगूळकर, व्यंकटेश माणदेशी माणसं, मेहता पब्लिशिंग हाऊस, पुणे, पुनर्मुद्रण, २०१८
२. अत्रे, प्र. के. मृत्यूचे चुंबन घेणारा महाकवी : साने गुरूजी, पार्श्व पब्लिकेशन, कोल्हापूर, १९६२
३. साठे, अण्णाभाऊ बरबाद्या कंजारी, श्रमिक प्रतिष्ठान, कोल्हापूर, लोकावृत्ती, २०१०
४. शिरूरकर, विभावरी दोघांचे विश्व आणि इतर काही कथा, कॉन्टेनेन्टल प्रकाशन, पुणे, १९५७
५. दलवाई, हमीद जमीला जावद आणि इतर कथा, साधना प्रकाशन, पुणे, २०१६
६. बोधे, व. वा. गावाकडची माणसं, अक्षरबंध प्रकाशन, पुणे, २००७
७. कांबळे, उत्तम कावळे आणि माणसं, मनोविकास प्रकाशन, पुणे, आ.दु., २०१०
८. खोपकर, अरुण चित्रव्यूह, लोकवाङ्मय गृह, मुंबई
९. भालेराव, इंद्रजित गाई घरा आल्या, प्रतिभास प्रकाशन, परभणी
१०. पाटील, दि. बा. भली माणसं, मनोकामना प्रकाशन, इस्लामपूर, २०१३
११. मोकाशी, सयाजीराजे पंधरा ऑगस्ट, मुक्तरंग प्रकाशन, लातूर, २०१६
१२. शिंदे, व्ही. एन. हिरव्या बोटोचं किमयागार, तेजस प्रकाशन, कोल्हापूर, २०१९

### संदर्भ ग्रंथ :

१. जोशी, प्र. न. मराठी वाङ्मयाचा विवेचक इतिहास, अर्वाचीन काळ (१८०० ते १९८०), स्नेहवर्धन प्रकाशन, पुणे
२. भागवत, श्री. पु. साहित्य अध्यापन आणि प्रकार (प्रा. वा. ल. कुलकर्णी गौरवग्रंथ), मौज प्रकाशन गृह, मुंबई

# **SHIVAJI UNIVERSITY, KOLHAPUR.**



**Accredited By NAAC with 'A' Grade**

**Revised Syllabus For**

**B.A. Part-III**

**Hindi.**

**Syllabus to be implemented from**

**June, 2020 onwards.**

शिवाजी विश्वविद्यालय, कोल्हापुर

हिंदी अध्ययन मंडल

जून 2020 से लागू

हिंदी स्पेशल बी.ए.-3 (कला)

सत्र-V, VI

Discipline Specific Elective

(शैक्षिक वर्ष -2020-21, 2021-22, 2022-23)

प्रस्तुत पाठ्यक्रम का निर्माण विश्वविद्यालय अनुदान आयोग, नई दिल्ली की मॉडल

पाठ्यचर्या (CBCS) के आलोक में किया गया है।

सत्र-V

- प्रश्नपत्र- VII : विधा विशेष का अध्ययन।  
प्रश्नपत्र- VIII : साहित्यशास्त्र ।  
प्रश्नपत्र- IX : हिंदी साहित्य का इतिहास।  
प्रश्नपत्र- X : प्रयोजनमूलक हिंदी ।  
प्रश्नपत्र- XI : भाषा विज्ञान और हिंदी भाषा ।

सत्र-VI

- प्रश्नपत्र- XII : विधा विशेष का अध्ययन।  
प्रश्नपत्र- XIII : साहित्यशास्त्र और हिंदी आलोचना।  
प्रश्नपत्र- XIV : हिंदी साहित्य का इतिहास।  
प्रश्नपत्र- XV : प्रयोजनमूलक हिंदी ।  
प्रश्नपत्र- XVI : भाषा विज्ञान और हिंदी भाषा ।

सत्र V और VI : परीक्षा में एक प्रश्नपत्र 50 अंकों का होगा, जिसमें 40 अंक लिखित परीक्षा के और 10 अंक अंतर्गत मूल्यांकन के लिए हैं। जिसमें सेमिनार, मौखिकी, परियोजना, (प्रोजेक्ट) गृहकार्य, में से एक देना अनिवार्य है।



शिवाजी विश्वविद्यालय, कोल्हापुर

हिंदी अध्ययन मंडल

जून 2020 से लागू

हिंदी स्पेशल बी.ए.-3 (कला)

सत्र -V प्रश्नपत्र- VII

विधा विशेष का अध्ययन

Discipline Specific Elective (D.S.E.-E6)

(शैक्षिक वर्ष -2020 -21, 2021-22, 2022-23)

प्रस्तुत पाठ्यक्रम का निर्माण विश्वविद्यालय अनुदान आयोग, नई दिल्ली की मॉडल

पाठ्यचर्या (CBCS) के आलोक में किया गया है।

**पाठ्यक्रम**

**उद्देश्य :**

- 1.नाटककार कुसुम कुमार की बहुमुखी प्रतिभा से परिचित कराना।
- 2.नाटककार कुसुम कुमार के साहित्य से परिचित कराना।
- 3.नाटककार कुसुम कुमार की विचारधारा से परिचित कराना।
- 4.नाटककार कुसुम कुमार के निर्धारित ग्रंथ का सूक्ष्म आलोचनात्मक अध्ययन कराना।
- 5.लेखिका के नाटककार के रूप में साहित्यिक स्थान को निर्धारित कराना।

**अध्यापन पद्धति**

- स्वाध्याय .
- व्याख्यान, विवेचन तथा विश्लेषण
- संगोष्ठी तथा समूह चर्चा का आयोजन।
- अतिथियों एवं विद्वानों के व्याख्यान।
- दृक श्राव्य माध्यमों का प्रयोग।
- संगणक तथा इंटरनेट आदि साधनों का प्रयोग।

# SHIVAJI UNIVERSITY, KOLHAPUR



Revised Syllabus for  
Bachelor of Arts (Part- III)

SEMESTER V & VI

HISTORY

(Syllabus to be implemented from June 2020 onwards)

EQUIVALANCE OF B.A. III HISTORY SEMESTER- V

Semester	Paper No	Title of Old Paper (June 2015)	Semester	Course No	Title of New Course (June 2020)
V	Paper No. VII	History of Ancient India (From Prehistory to 3rd c. BC)	V	Course No. VII	Early India (from beginning to 4th c. BC)
V	Paper No. VIII	Political History of Medieval India (1206 to 1707 A.D.)	V	Course No. VIII	History of Medieval India (1206-1526 AD )
V	Paper No. IX	India Since Independence -I	V	Course No. IX	Age of Revolutions
V	Paper No. X	History of the Marathas (1707-1818)	V	Course No. X	Political History of the Marathas
V	Paper No. XI	Introduction to Historiography	V	Course No. XI	History: Its Theory

#### EQUIVALANCE OF B.A. III HISTORY SEMESTER VI

Semester	Course No	Title of Old Paper	Semester	Course No	Title of New Course
VI	Paper No. XII	History of Ancient India (From 3 c. BC to 7th c. AD)	VI	Course No. XII	Ancient India (From 4th c. BC to 7th c. AD)
VI	Paper No. XIII	Socio-Economic and Cultural History of Medieval India (1206 to 1707 A.D. )	VI	Course No. XIII	History of Medieval India ( 1526-1707 AD )
VI	Paper No. XIV	India Since independence- II	VI	Course No. XIV	Making of the Modern World (16th to 19th Century)
VI	Paper No. XV	Modern Maharashtra (1960 to 2000)	VI	Course No. XV	Polity, Economy and Society under the Marathas
VI	Paper No. XVI	Applications of History	VI	Course No. XVI	Methods and Applications of History

**STRUCTURE OF PROGRAMME**  
**REVISED SYLLABUS B.A. PART III (HISTORY)**

Sr.No	Semester	Title of Course	Course No.	Credit	Workload	Total Credits	Theory Marks	Term Work/ Seminar
1	V	Early India (from beginning to 4th c. BC)	Course No. VII	04	4 lectures/ Week	20 Credits	40	10
2	V	History of Medieval India (1206-1526 AD )	Course No. VIII	04	4 lectures/ Week		40	10
3	V	Age of Revolutions	Course No. IX	04	4 lectures/ Week		40	10
4	V	Political History of the Marathas	Course No. X	04	4 lectures/ Week		40	10
5	V	History: Its Theory	Course No. XI	04	4 lectures/ Week		40	10
Sr.No	Semester	Title of Course	Course No.	Credit	Workload	Total Credits	Theory Marks	Term Work/ Group Project
6	VI	Ancient India (From 4th c. BC to 7th c. AD)	Course No. XII	04	4 lectures/ Week	20 Credits	40	10
7	VI	History of Medieval India ( 1526-1707 AD )	Course No. XIII	04	4 lectures/ Week		40	10
8	VI	Making of the Modern World (16th to 19th Century)	Course No. XIV	04	4 lectures/ Week		40	10
9	VI	Polity, Economy and Society under the Marathas	Course No. XV	04	4 lectures/ Week		40	10
10	VI	Methods and Applications of History	Course No. XVI	04	4 lectures/ Week		40	10

### Module IV -Understanding Heritage Tourism

- a) Concept, Scope and Significance of Heritage Tourism
- b) Meaning and Historical Perspective of Tourism
- c) World Heritage Sites in India

#### Select Reference books:

- B. Shaik, Ali., History:Its Theory and Method, Macmillan India Ltd, Madras, 1978
- Chitnis, K. N., Research Methodology in History, Poona, 1979
- Bajaj, S. K., Research Methodology in History, Anmol Publications Pvt. Ltd., New Delhi, 1998
- Sreedharan, E., A Textbook of Historiography 500 BC to AD 2000, Orient Longman, Hyderabad, 2000
- Sarkar, H., Museums and Protection of Monument and Antiquities in India, New Delhi, 1980
- Agarwal, O. P. Conservation of Manuscripts and Pantings of South East Asia, London, 1984
- कोठेकर, शांता., इतिहास तंत्र आणि तत्त्वज्ञान, श्री साईनाथ प्रकाशन, नागपूर, २००५
- गायकवाड, आर. डी., सरदेसाई, बी. एन. आणि हनमाने, व्ही. एन. इतिहासलेखन पद्धत व ऐतिहासिक स्मारके यांचा अभ्यास, फडके प्रकाशन, कोल्हापूर, १९८८
- गद्रे, प्रभाकर., इतिहास लेखनाच्या परंपरा, श्री मंगेश प्रकाशन, नागपूर, २००४
- सरदेसाई, बी. एन., इतिहासलेखनपद्धती, फडके प्रकाशन, कोल्हापूर, २००४
- राजदेरकर, सुहास., इतिहासलेखनशास्त्र, विद्या प्रकाशन, नागपूर, १९९८
- सरदेसाई, बी. एन., इतिहासलेखन परिचय, फडके प्रकाशन, कोल्हापूर, २००६
- देशमुख, प्रशांत., इतिहासाचे तत्त्वज्ञान, विद्या बुक्स पब्लिशर्स, औरंगाबाद, २००५
- बेंद्रे, वा. सी., शिवशाहीचा चर्चात्मक इतिहास: साधन चिकित्सा, लोकवाङ्मय गृह, मुंबई, १९७६
- आठवले, सदाशिव., इतिहासाचे तत्त्वज्ञान, प्राज्ञपाठशाला, वाई, १९६७
- धाटावकर, भास्कर., महाराष्ट्रातील शासकीय पुरालेखागारांची निर्मिती आणि कार्य, चेतन प्रकाशन, मुंबई, २०१०
- खोबरेकर, वि. गो., महाराष्ट्रातील दफतरखाने वर्णन व तंत्र, मुंबई, १९८८
- बोरकर, रघुनाथ, संग्रहालयशास्त्र, पिंपळापुरे बुक, नागपूर, २००७
- खतीब, के. ए., पर्यटन भूगोल, मेहता पब्लिशिंग हाऊस, पुणे, २००६

# **SHIVAJI UNIVERSITY, KOLHAPUR.**



**Accredited By NAAC with 'A' Grade**

**Revised Syllabus For**

**B.A. Part-III**

**Sociology**

**Syllabus to be implemented from**

**June, 2020 onwards.**

# Shivaji University, Kolhapur.

## REVISED SYLLABUS OF B. A. III SOCIOLOGY

### Choice Based Credit System (CBCS)

Semester – V, DSE – E66 SOCIOLOGY – VII

### WESTERN SOCIOLOGICAL THINKERS

(June, 2020 onwards)

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#### A) Course Objectives

Objective of teaching sociological Thinkers to undergraduate students is to enable them to apply theory to their own everyday life experiences.

This requires that students develop their sociological imagination and the capacity to read each situation sociologically and then to think about it theoretically.

To this end, it is imperative that sociological theory courses demonstrate the applicability of theory to students.

#### B) Course Learning Outcomes:

1. Understanding the grand foundational themes of sociology.
2. Application of theories and concepts from classical sociological theories to develop intellectual openness and curiosity.
3. Appreciation of the classical concepts and theories to develop awareness of the limits of current knowledge.

#### C) Course Content:

Module	Topic and Sub-Topic	Teaching Hours	Credits
Module -I	<b>AUGUSTE COMTE</b> A) Law of Three Stages B) Concept of Positivism. C) Social Statics and Social Dynamics.	15	1
Module -II	<b>KARL MARX</b> A) Dialectical Materialism B) Theory of Class Conflict C) Theory of Alienation	15	1

<b>Module -III</b>	<b>EMILE DURKHEIM</b> A) The Study of Social Facts B) Theory of Division of Labour C) Theory of Suicide	<b>15</b>	<b>1</b>
<b>Module -IV</b>	<b>MAX WEBER</b> A) The Ideal Type B) Theory of Social Action C) Types of Authority.	<b>15</b>	<b>1</b>

#### **D) Teaching Learning Process:**

1. The students are encouraged to read the original texts and the teacher often participates in the reading process. Thereby the teacher engages in active, rather than passive, pedagogy.
2. It is important that the classroom sessions, initiated either by the student or the teacher, would encourage teamwork and draw students towards learning, yet there are other means available now which add to that. The use of digital/ICT generated techniques (audio-visual aids).

#### **E) Assessment Methods:**

1. Class assignments/term papers, theme(s) of which are chosen following teacher student discussion, is one of the ways of assessing the subject and writing skill of the students.
2. Tutorial discussion oral presentations and viva-voce, short individual/team led field studies/projects and seminars/workshops are other modes of assessment. These are included in the Internal Assessment (IA) system.
3. Mid-semester examination is another mode of assessment. Here again, the topic(s) on which the students are to be examined are chosen through teacher-student consultation. Mid-semester examination tests the students on the grasp of the topic(s) in particular and the discipline in general.
4. The end-semester examination is conducted by the university and the student is tested and evaluated on the basis of the entire paper (syllabus). S/he is expected to have a full knowledge of the paper and prescribed readings.

NOTE: Visit to University Library



**F) REFERENCES:**

1. Abraham Francis Modern sociological Theory, Delhi Oxford University press,1982
2. Abraham Francis 'Sociological Thought', Madras Macmillan,1991
3. Aron Raymond Main Currents In Sociological Thought,Vol.I & II
4. Coser A.Lewis 'Masters of Sociological Thought' Rawat publications Jaipur 1996
5. Delaney Tim 'Contemporary Social Theory,Investigation and Application'
6. Haralambos & Holborn Sociology : Themes and Perspectives Published by  
Harper Collins Publishers Ltd.London W6 8JB 2008
7. Ritzer George Classical Sociological Theory, 4th edition,Nework, Mc-grawhill  
publication. 1996.

## REVISED SYLLABUS OF B. A. III SOCIOLOGY

### Choice Based Credit System (CBCS)

Semester – V, DSE – E67 SOCIOLOGY– VIII

### METHODS OF SOCIAL RESEARCH (Part-I)

(June, 2020 onwards)

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#### A) Course Objective:

1. The course is a general introduction to the methodologies of sociological research. It will provide the student with elementary knowledge of the complexities and philosophical underpinnings of research.

#### B) Course Learning Outcomes:

1. Students are introduced to the concept of conducting research, which is inclusive of formulating research designs, methods and analysis of data. Some knowledge of elementary statistics is also provided to the students to acquaint them with quantification of data.

2. The thrust of the course is on empirical reasoning, understanding and analysis of social reality, which is integral to the concepts of quantitative research. Students learn to differentiate between qualitative and quantitative aspects of research in terms of collection and subsequent analysis of data.

3. Through the competing theoretical perspectives and methodologies, students are able to understand that social reality is multi-faceted, heterogeneous and dynamic in nature.

4. By imparting the knowledge of theory and praxis of research, students are prepared to arrive at a critical understanding of the course. It also equips them with necessary skills for employment in any social research organization.

#### C) Course Content:

Module	Topic and Sub- Topic	Teaching Hours	Credits
Module-1	<b>Introduction to social Research</b> a. Philosophy of social science b. Meaning and objectives of social research c. Scientific Steps in Social Research d. Relation between theory and fact	15	01
Module -2	<b>Research Design</b> a. Meaning and Nature of Research Design b. Explorative c. Descriptive d. Experimental	15	01
Module -3	<b>Basic Elements of Social Research</b> a. Concepts-meaning and characteristics		

	b. Variable- meaning and Types c. Hypothesis- meaning and Sources	15	01
<b>Module -4</b>	<b>Modes of Enquiry</b> a. Quantitative Research : meaning and characteristics b. Qualitative Research: meaning and characteristics c. Importance of Quantitative and Qualitative Research	15	01

**D) Teaching - learning process:**

- a. A research methods course will require a robust class room discussion on various aspects of the course leading to a clearer understanding of concepts and research methods and the production of knowledge.
- b. Interactive classroom sessions contribute to the development of group skills including listening, brainstorming, communicating and negotiating with peers.

**E) Assessment Methods:** Assessment for this course will be based on written assignments, projects, project designs and presentations.

**NOTE: Organise One Day Workshop on Research Methodology**

**F) Reference Book :**

- Durkheim, E.** 1958, The Rules of Sociological Method, New York: The Free Press
- Weber, Max.** 1949, The Methodology of the Social Sciences, New York: The Free Press
- Radcliffe-Brown, A.R.** 1958, Methods in Social Anthropology, Delhi: Asia Publishing Corporation
- Beitelle, A.** 2002, Sociology: Essays on Approach and Method, New Delhi
- Goode, W. E. and P. K. Hatt.** 1952. Methods in Social Research. New York: McGraw Hill.
- Srinivas, M.N.** et al 2002(reprint), The Fieldworker and the Field: Problems and Challenges in Sociological Investigation, New Delhi
- Bryman, Alan.** 2004, Quantity and Quality in Social Research, New York: Routledge
- Merton, R.K.** 1972, Social Theory & Social Structure, Delhi: Arvind Publishing House

# REVISED SYLLABUS OF B. A. III SOCIOLOGY

## Choice Based Credit System (CBCS)

Semester – V, DSE – E68 SOCIOLOGY – IX

### POLITICAL SOCIOLOGY

(June, 2020 onwards)

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#### A) Course Objective:

This course aims to acquaint the students with the major concepts, theoretical approaches and perspectives of political sociology. It seeks to prepare the students to apply these concepts and approaches to the understanding of the nature of the political processes and institutions in India. The course also exposes the students to the emerging perspective on the polity-society relationship in contemporary times.

#### B) Course Learning Outcomes:

1. An ability to comprehend the embeddedness of political and the social in each other.
2. Familiarity with different theoretical and conceptual issues in political sociology and a capacity to use them to grasp political phenomena in a cross-cultural and comparative perspective
3. Be able to understand and appreciate the diversity of ways in which politics operates historically and spatially to generate a more expansive notion of the realm of the political.
4. Be able to understand the relationship between state and society in shaping politics in India both historically and analytically.
5. Be able to generate hypotheses and research questions within the theoretical perspectives and ethnographic contexts in political sociology.

#### C) Course Content:

	Topic and Sub- Topic	Teaching Hours	Credits
Module - I	<b>Nature of Political Sociology</b> A) Definition and Subject Matter of Political Sociology B) Emergence of Political Sociology C) Importance of Political Sociology	15	1

<b>Module - II</b>	<b>Basic Concepts in Political Sociology</b> A) Power: Meaning and Nature B) State: Meaning and Nature C) Civil Society: Meaning and Nature	15	1
<b>Module - III</b>	<b>Study of Perspectives to Political Sociology</b> A) Perspectives on Power: Weberian, Marxist and Ambedkarian B) Perspectives on State: Liberal, Pluralist, Power-elite, Post-modernist	15	1
<b>Module - IV</b>	<b>Political parties in India</b> A) Political parties: characteristics and social composition. B) Pressure groups and Interest groups: characteristics and political significance. C) Major Political Parties and Their Principles	15	1

**D) Teaching-Learning Process:**

Teaching learning process in this paper has to be interactive and reflective as majority of students are more often disinterested in questions concerning the political. Teachers should encourage students to read the daily newspaper and peruse electronic journals which would animate the conceptual and analytical aspects of the course with real socio-political events from the students' immediate contexts. Use of audio-visual resources, mainly documentaries will be made an integral part of learning in this course.

**E) Assessment Methods:**

Assessment in this paper will be in the form of written assignments, book reviews, film reviews, class presentations, projects, and class test.

**F) Keywords:**

Power, Authority, Resistance, Politics, Elite, State, Democracy, Citizenship, Rights, Para-Political Systems, Post-Colonialism

**NOTE: 1) Visit to Vidhansabha / Vidhanparishad**

**2) Visit to any Gram Sachivalaya / Corporation**

### **G) Reference Book(s)**

1. Bendix, R. and S. M. Lipset (Eds.). *Class, Status and Power*. London: RKP, 1966.
2. Bhargava, R. *Secularism and its Critics*. New Delhi: OUP, 1999.
3. Bottomore, T. *Elites and Society*. Harmondsworth: Penguin, 1966.
4. Chakravarty, A. *Contradiction and Change*. Delhi: OUP, 1975.
5. Dahl, R. *Who Governs?* New Haven: Yale University P, 1961.
6. Desai, A.R. *State and Society in India: Essays in Dissent*. Bombay: Popular Publication, 2000
7. Gerth, H.H. and C.W. Mills (Eds.). *From Max Weber: Essays in Sociology*. London: RKP, 1948.
8. Key, V.O. *Politics, Parties and Pressure Groups*. NY: Crowell, 1964.
9. Kohli, A. *India's Democracy: An Analysis of Changing State-Society Relations*. Princeton: Princeton University P, 1990.
10. Kohli, A. *The State and Poverty in India: The Politics of Reform*. Cambridge: Cambridge University P, 1999.
11. Kothari, R. *Caste in Indian Politics*. Delhi: Orient Blackswan, 2008.
12. Laclau, E. *Politics and Ideology in Marxist Theory*. London: Verso, 2012.
13. Miller, D. *On Nationality*. Oxford: Clarendon Press, 1995.
14. Mills, C.W. *The Power Elite*. NY: OUP, 2000.
15. Nash, K. *Contemporary Political Sociology*. Massachusetts: Blackwell Publishers, 2000.
  
16. Robinson, M. S. *Local Politics: the Law of the Fishes*. Delhi: OUP, 1988.
17. Runciman, W.G. *Social Science and Political Theory*. Cambridge: CUP, 1969.
18. Taylor, G. *The New Political Sociology: Power, Ideology and Identity in an Age of Complexity*. London: Palgrave Macmillan, 2010.
19. Vora, R. and S. Palshikar (Ed.) *Indian Democracy*, Delhi: Sage, 2004.
20. Weber, M. *Economy and Society*. Berkeley: University of California P, 1978.

## REVISED SYLLABUS OF B. A. III SOCIOLOGY

### Choice Based Credit System (CBCS)

Semester – V, DSE – E69 - SOCIOLOGY – X

### HUMAN RIGHTS

(June 2020 onwards)

#### **A) OBJECTIVES:-**

- 1.To Provide the conceptual understanding about the human rights.
2. To understand the nature and role of Human Rights in India.
3. To understand violation of Human Rights in India.

#### **B) Course Learning Outcomes:**

##### **After completion of program students will able to-**

- 1)Conceptual understanding about the Human Rights
- 2)Identify issues and problems relating to the realization of human rights
- 3)Understand the nature & role of human rights in India
- 4) Contribute to the resolution of human rights issues and problems
- 5)Educate the society about the human rights and duties in order to create responsible citizenry

#### **C) Course Content:**

	<b>Topic and Sub- Topic</b>	<b>Teaching Hours</b>	<b>Credits</b>
<b>Model - I</b>	<b>HUMAN RIGHTS</b> A) Meaning and Characteristics of Human Rights B) History of Human Rights in India ( Ancient Period to After Independent Period ) C) Perspectives of Human Rights. (Sociological Perspective and Modern Perspectives -Jeromi J.Shestoak)	15	1
<b>Model - II</b>	<b>UNITED NATIONS ORGANIZATIONS AND HUMAN RIGHTS</b> A)Universal Declaration of Human Rights,1948 B)International Covenant on Economic ,Social and cultural Rights,1966 C) International Covenant on civil and Political Rights,1966	15	1
<b>Model - III</b>	<b>HUMAN RIGHTS IN INDIA</b> A)Indian Constitutions and Human Rights B) National Human Rights Commission in India (Structure and Role) C) Function of National Scheduled Castes and Scheduled Tribe commission in India	15	1
<b>Model - IV</b>	<b>VIOLATION OF HUMAN RIGHTS IN INDIA</b> A)Human Trafficking B)Mob Lynching C)Honor Killing	15	1

#### **D) Teaching-Learning Process:**

Teaching learning process in this paper has to be interactive and reflective as majority of students are more often disinterested in questions concerning the human rights. Teachers should encourage students to read the daily newspaper and peruse electronic journals which would animate the conceptual and analytical aspects of the course with real sociological Perspective events from the students' immediate contexts. Use of audio-visual resources, mainly documentaries will be made an integral part of learning in this course.

#### **E) Assessment Methods:**

Assessment in this paper will be in the form of written assignments, book reviews, film reviews, class presentations, projects, and class test, Seminar .

#### **F) Keywords:**

Human Rights, Castes ,Tribe ,Political Rights, Violation ,Human Trafficking  
Moab Lynching, Honor Killing

S

**NOTE: 1) Visit to Old Age Home, Orphanage, etc**

#### **G ) REFERENCE :**

<b>Anthony M.J</b>	<b>Social action through courts ,ISI ,New Delhi ,1997.</b>
<b>Bhatia K.L</b>	<b>Law and social change Towards 21<sup>st</sup> Century, Deep and Deep ,New Delhi ,1994</b>
<b>Bose A.B</b>	<b>Social Security for the old myth and reality ,Center for Public&amp; Governance Institute of applied Manpower Research by Concept Pub. Company .New Delhi,2006</b>
<b>Crampton Helen M.</b>	<b>Social welfare :Institution and Process,Random and Keiser Keneth K. House Inc ,New York,1970</b>
	<b>Social Policy and Social Development in India</b>
<b>Kulkarni P.D</b>	<b>Social Policy and social Development in India,ASSWI,Madras,1979</b>
<b>Pathak s.</b>	<b>Social;An Evolutionary and Development Perspective,Welfare McMillan ,Delhi,1981.</b>
<b>Patil</b>	<b>The Economics of Social Welfare in India, Somayya, Bombay,1978</b>
<b>कोतापल्ले लक्ष्मण</b>	<b>भारतातील सामाजिक कल्याण, प्रशासन आणि समाज कार्य, विद्या प्रकाशन, औरंगाबाद</b>
<b>जी.एल.शर्मा</b>	<b>सामाजिक मुद्दे, रावत पब्लिकेशन्स, २०१५</b>
<b>य.च.म.मु.वि.नाशिक</b>	<b>मानवी हक्क आणि भारतीय राज्यघटना</b>
<b>य.च.म.मु.वि.नाशिक</b>	<b>मानवी हक्क आणि अंमलबजावणी यंत्रणा</b>



## REVISED SYLLABUS OF B. A. III SOCIOLOGY

### Choice Based Credit System (CBCS)

Semester – V, DSE – E70 SOCIOLOGY – XI

### SOCIOLOGY OF RELIGION

(June, 2020 onwards)

#### A) COURSE OBJECTIVE

1. This course exposes students to the distinctiveness of the sociological approach to the study of religion.
2. The individual and the group encounter religion and/or religious phenomenon in myriad ways be it through custom, ritual, beliefs or other practices. Students will be familiarized with the basic theoretical and methodological perspectives on the study of religion and also exposed to ethnographic texts on various aspects of religious phenomenon.
3. The last section of the course touches upon some aspects of religion in contemporary times such as secularization and multiculturalism.

#### B) COURSE LEARNING OUTCOMES:

1. Students will be acquainted with representative texts that symbolize the development of knowledge in the field of Sociology of Religion. They will be able to identify different theories, approaches and concepts that make up the study of religion, distinguish between them and also use terms specific to the field in specific context.
2. Students will be able to make a link between texts and paraphrase their arguments and use these to communicate their ideas in research papers, projects and presentations.
3. By encompassing contemporary developments the course enables students to think about linkages between religion and society at various levels.

#### C) Course Content:

Module	Topic and Sub-Topic	Teaching Hours	Credits
Module -I	<b>Understanding Religion</b> A) Sociology of Religion: Meaning , Scope and Subject matter B) Religion : Definition and Characteristics C) Basic Concepts in Religion 1) Belief and Rituals 2) The Sacred and Profane	15	1
Module -II	<b>Perspectives to Study of Religion</b> A) Perspectives of Religion: Durkheim and Weber B) Perspectives of Religion in India: Mahatma Phule and Dr. B. R. Ambedkar	15	1

<b>Module -III</b>	<b>Religions in India</b> A) Hinduism, Islam B) Buddhism, Christianity C) Jainism, Sikhism D) Satya Dharma and Shiv Dharm	15	1
<b>Module -IV</b>	<b>Religion and Social Change</b> A) Socio- Religious Movements B) Religion and Violence C) Religion and Commercialization D) Secularism and National Integration	15	1

**D)Teaching -Learning Process:**

Teaching learning process in this paper has to be interactive and reflective. Teacher should encourage students to utilize print and electronic media for acquiring knowledge regarding recent status and trends of religion.

**E) Assessment Methods:**

Assessment in this paper will be from of written assignments, seminars and class test.

**F)Key Words;**

Religious Belief, Rituals, Sacred, Profane, Magic, Violence, Secularism, National Integration.

**NOTE: Visit to Any Religious place and Understand its Structure and Functioning**

**G)Reference Books**

1. Baird, Robert D. "Religion in Modern India". Manohar, Delhi, 1995.
2. Madan, T.N.(Ed), Religion in India", Oxford University Press, New Delhi, 1992.
3. Muzumdar, H.T. "India's Religious Heritage", Allied New Delhi, 1996.
4. Roberts, Keith A. "Religion in Sociological Perspective", Donsey Press, New Delhi, 1984.
5. Prabhu, Pandharinath H. "Hindu Social organization: A Study in Socio-Psychological and ideological Foundations", Popular Prakashan, Bombay, 1963.
6. Dsouza, Leela. "Sociology of Religion".
7. Pias, Richard. "Sociology of Religion".
8. Salve, R.N. "Buddhism and Education", Shruti, Jaipur, 2008.
9. डॉ. विधाधार पुंडलिक . " धर्माचे समाजशास्त्र" कॉन्टीनेटल प्रकाशन २००३,
10. डॉ. प्रदीप आगलावे . " समाजशास्त्र संकल्पना आणि सिद्धांत " साईनाथ प्रकाशन नागपूर २००९
11. डॉ. दा . धो . काचोळे . " भारतीय समाजरचना " कैलाश प्रकाशन औरंगाबाद १९९८
12. डॉ. बी . एम . कऱ्हाडे " समाजशास्त्र मुलभूत संकल्पना " पिंपळापुरे प्रकाशन , नागपूर २०११
13. मंगला आठलेकर " धर्म आणि हिंसा " राजहंस प्रकाशन पुणे २०१७
14. डॉ. ज्योती डोईफोडे " भारतीय समाज " विद्या प्रकाशन औरंगाबाद

# REVISED SYLLABUS OF B. A. III SOCIOLOGY

## Choice Based Credit System (CBCS)

Semester – VI, DSE – E191 SOCIOLOGY – XII

### INDIAN SOCIOLOGICAL THINKERS

(June 2020 onwards)

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#### A) Course Objectives

Objective of teaching Indian Sociological Thinkers to undergraduate students is to enable them to apply theory to their own Indian Social life experiences. This requires that students develop their sociological imagination and the capacity to read each situation sociologically and then to think about it theoretically. To this end, it is imperative that sociological theory courses demonstrate the

applicability of theory to students.

#### B) Learning Outcomes:

1. Understanding the characteristics and dynamics of the social world, and how postclassical sociologists attempt to understand the social world.
2. Appreciating the relevance and limits of the contemporary theories or theoretical approaches to make sense of social reality.
3. Understanding the basic methodological approaches of the thinkers, through some original texts and their role in building sociological knowledge.

#### C) Course Content:

Module	Topic and Sub-Topic	Teaching Hours	Credits
Module -I	<b>G.S.GHURYE</b> A) Ideas on National Unity and Interaction B) Study on Caste C) Study on Indian Tribes	15	1
Module -II	<b>A.R.DESAI</b> A) Study of Village Structure in India B) Study of Indian Nationalism C) Analysis of Indian Society through Marxian Perspective	15	1

<b>Module -III</b>	<b>M. N. SRINIVAS</b> A) Concept of Sanskritization B) Concept of Westernization C) Concept of Dominant Caste	<b>15</b>	<b>1</b>
<b>Module -IV</b>	<b>IRAWATI KARVE</b> A) Concept of Kinship Relations B) Hindu Culture: An Interpretation C) Views on Maharashtra	<b>15</b>	<b>1</b>

#### **D)Teaching learning process:**

The students are encouraged to read the original texts and the teacher often participates in the reading process. Thereby the teacher engages in active, rather than passive, pedagogy.

It is important that the classroom sessions, initiated either by the student or the teacher, would encourage teamwork or draw students towards learning, yet there are other means available now which add to that. The use of digital/ICT generated techniques (audio-visual aids).

#### **E)Assessment Methods:**

1. Class assignments/term papers, theme(s) of which are chosen following teacherstudent discussion, is one of the ways of assessing the subject and writing skill of the students.
2. Tutorial discussion oral presentations and viva-voce, short individual/team led field studies/projects and seminars/workshops are other modes of assessment. These are included in the Internal Assessment (IA) system.
3. Mid-semester examination is another mode of assessment. Here again, the topic(s) on which the students are to be examined are chosen through teacher-student consultation. Mid-semester examination tests the students on the grasp of the topic(s) in particular and the discipline in general.
4. The end-semester examination is conducted by the university and the student is tested and evaluated on the basis of the entire paper (syllabus). S/he is expected to have a full knowledge of the paper and prescribed readings.

**NOTE: Visit to University Library**

## **F) REFERENCES:**

1. Nagala B.K. 'Indian Sociological Thought' '
2. V.S.Upadhyay and Gaya Pandey 'History of Anthropological Thought'
3. Narendra K. Singh 'Theory and Ideology in Indian Sociology'
4. T. K. Ommen and P.N. Mukharjee 'Indian Society: Reflections and Introspections'
5. A.R. Desai 'Social Background Of Indian Nationalism'
6. A.R. Desai 'Rural India In Transition'
7. T. N. Madan 'Western Sociologists on Indian Society'
8. Yogendra Singh 'Indian Sociology : Social Conditioning and Emerging Concerns'
9. S.K. Pramanik 'Sociology of G.S. Ghurye'
10. Devdas Pillai 'Indian Sociology Through Ghurye : A Dictionary'
11. A.R. Momin 'The Legacy Of G.S. Ghurye'
12. M.N. Srinivas 'Social Change In Modern India'

## REVISED SYLLABUS OF B. A. III SOCIOLOGY

### Choice Based Credit System (CBCS)

Semester – VI, DSE – E192 SOCIOLOGY – XIII

### METHODS OF SOCIAL RESEARCH (Part-II)

(June, 2020 onwards)

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#### A) Course Objectives

1. The course provides an introductory, yet comprehensive engagement with social research.
2. Through theoretical and practical knowledge students are acquainted with the different stages of the research process like creation of research design, methods of data collection and analysis.
3. The imparted knowledge and training will enable students to develop a sound understanding of both quantitative and qualitative research.

#### B) Course Learning Outcomes:

1. Students are introduced to the concept of conducting research, which is inclusive of formulating research designs, methods and analysis of data. Some knowledge of elementary statistics is also provided to the students to acquaint them with quantification of data.
  2. The thrust of the course is on empirical reasoning, understanding and analysis of social reality, which is integral to the concepts of quantitative research. Students learn to differentiate between qualitative and quantitative aspects of research in terms of collection and subsequent analysis of data.
  3. Through the competing theoretical perspectives and methodologies, students are able to understand that social reality is multi-faceted, heterogeneous and dynamic in nature.
  4. By imparting the knowledge of theory and praxis of research, students are prepared to arrive at a critical understanding of the course. It also equips them with necessary skills for employment in any social research organization.
3. Periodic tests/mid-semester examination of the covered syllabus is also undertaken by the students during the academic session. End-semester examination is conducted by the University of Shivaji.

#### C) Course Content:

Module	Topic and Sub- Topic	Teaching Hours	Credits
Module -1	<b>Sampling and Data collection</b> a. Meaning and Purpose of Sampling b. Types of sampling c. Advantages and Limitation of Sampling d. Primary and secondary Data collection	15	01
Module -2	<b>Observation</b> a. Observation: Meaning and characteristics b. Types of Observation c. Advantages and limitations of observation	15	01

<b>Module -3</b>	<b>Interview and Questionnaire</b> a. Interview-meaning and Types b. Advantages and limitations of interview c. Questionnaire- meaning and Types d. Advantages and limitations of Questionnaire	15	01
<b>Module -4</b>	<b>Data Analysis and Report Writing</b> a. Use of computer in data analysis b. Statistical methods c. Report Writing	15	01

#### **D) Teaching-Learning Process:**

1. Classroom lectures interlink the sociological theories previously taught with the methods and techniques of data collection. Students are encouraged to construct questionnaires and conduct interviews, use technology like online surveys to develop practical research skills.
2. The use of statistics enables the students to understand both qualitative and quantitative aspects of social research.
3. Alternative pedagogical techniques like outdoor learning through field trips and research projects, audio-visual technology in classrooms provides them with both research related knowledge and experience.

#### **E) Assessment Methods:**

1. Tutorials are given regularly to students after the completion of a topic. The objective is to assess the understanding of the student regarding the covered topic.
2. Students are expected to submit individual/team project reports, along with making oral presentations of the same in class.

<p><b>NOTE: Organise Guest Lecture/Seminar on Social Research Methodology</b></p>
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#### **F)Books for References:**

- Ahuja Ram:** Research Methods, Rawat Publication, Jaipur 2015
- Ghosh B.N.:** Scientific Methods and Social Research, Sterling Publishers, New Delhi,1982
- Kothari C.R.:** Research methodology: Methods and Techniques, Wiely Eastern, New Delhi, 1992
- Lal Das D.K:** Designs of social Research, Rawat Publication, Jaipur,2008
- Young P.V.:** Scientific Social Surveys and Research, Prentice -Hall of India, New Delhi, Fourth edition fifteen Reprint,2003

संदर्भा साठी ग्रंथ (मराठी)

आगलावे प्रदीप : संशोधन पद्धती: शास्त्र व तंत्रे, विद्या प्रकाशन, नागपूर  
घाटोळेरा.ना.: सामाजशास्त्रीयसंशोधन -पद्धती आणि तत्त्वे, मंगेश प्रकाशन

नागपूर,

बोधनकर सुधीर : सामाजिक संशोधन पद्धती,साईनाथ प्रकाशन,नागपूर

रानडे पुष्पा : प्राथमिक सांखिकी आणि संशोधन पद्धती,डायमंड प्रकाशन, पुणे,

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REVISED SYLLABUS OF B. A. III SOCIOLOGY  
**Choice Based Credit System (CBCS)**  
 Semester – VI, DSE – E193 SOCIOLOGY – XIV  
**SOCIAL ANTHROPOLOGY**  
 (June, 2020 onwards)

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1. To provide the conceptual understanding about anthropology
2. To understand the social aspects of tribal's in India.

	Topic	Teaching Hours	Credits
<b>Model - I</b>	<p style="text-align: center;"><b>INTRODUCTION TO SOCIAL ANTHROPOLOGY</b></p> A) Social Anthropology: Meaning and Characteristics B) Relation Between Social Anthropology and Sociology C) Field work Method and its Characteristics D) Importance of Social Anthropology	<b>15</b>	<b>1</b>
<b>Model – II</b>	<p style="text-align: center;"><b>TRIBAL SOCIETY IN INDIA</b></p> A) Tribal Society : meaning and Characteristics B) Social life : Family ,and Marriage - Characteristics C) Economic Life : Characteristics D) Religious Life : Beliefs and practices	<b>15</b>	<b>1</b>
<b>Model – III</b>	<p style="text-align: center;"><b>TRIBAL PROBLEMS</b></p> A) Poverty and Indebtedness B) Land Alienation C) Illiteracy and Exploitation D) Religious Crisis	<b>15</b>	<b>1</b>
<b>Model - IV</b>	<p style="text-align: center;"><b>Tribal Community in Maharashtra: Pardhi</b></p> A) Socio-Cultural life : Tradition and Change B) Economic life : Tradition and Change C) Religious life : Tradition and Change D) Social Movements for Development of Pardhi Community	<b>15</b>	<b>1</b>

<b>NOTE: Visit to Any Tribal and Nomadic Tribe Community</b>
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## REFERENCE:-

- Vidyarthi L.P. Tribal Culture of India, Concept Publishers, New Delhi, 1976.  
E.E. Evans Pritchard Social Anthropology and Other Essays, The free Press, New York, 1962.  
Mujumdar D.N. and Madam T.N An Introduction to Social Anthropology, Asia Publishing House, Bombay, 1973.  
*संगवे विलास सामाजिक मानवशास्त्र, पॉप्युलर प्रकाशन, मुंबई, १९६९.*  
*नाडगोडे गुरुनाथ भारतीय आदिवासी, कॉन्टीनेंटल प्रकाशन, पुणे, १९९८.*  
*संगवे विलास आदिवासींचे सामाजिक जीवन ए पॉप्युलर प्रकाशन, मुंबई*  
K. S. Tribal Situation in India, Indian Institute of Advanced Study, Simla, 1972.  
S.L. Doshi & P. C. Jain  
Social Anthropology Rawat Publicaiton, 2001.  
Mane Lximan , Vimuktayan , Yashvantrav chavan prtishthan, Satara 1994 (Marathi)  
Prabhune Girish, Pardhi, Rajhans Prakashan, pune. 2006 (Marathi)

- Pawar Deepak, Pardhi Samajache Antrang,  
Shree Sainath Prakashan, Nagapur. 2014 (Marathi)  
Chavan Ramnath, Bhatakya vimukantanchi Jatpanchayat, Deshmukh ani company  
Pune. 2006 (Marathi)

## Journals:

- i) हाकारा (Hakara)
  - ii) Social Change (New Delhi)
  - iii) Man in India (Ranchi)
  - iv) Tribal research bulletin (Marathi and English)  
Tribal Research Institute Pune.
  - v) Human Ecology : Journal of manenvironmental relationship Kamlaraj,  
Enterprises Delhi.
- Ritzer George Sociological Theory, Tata Mcgraw Hill, 1996  
Morrison, Ken Marx,  
Durkheim, Weber  
Formation of Modern Social Thoughts, Sage london 1995.

**REVISED SYLLABUS OF B. A. III SOCIOLOGY**  
**Choice Based Credit System (CBCS)**  
Semester – VI, DSE – E194 SOCIOLOGY – XV  
**RURAL SOCIOLOGY**  
(June, 2020 onwards)

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**A) Course Objectives:**

1. To communicate Agriculture as the foundational material practices at the heart of the formation of social collectivities and make sense of South Asian societies agrarian formations.
2. To familiarize students with rural situation past and present with the help of necessary theories and categories.
3. To make sense of rural communities, their structure, transformation and trials and tribulations in modern world.
4. To introduce students to the rich legacy of theoretical and empirical work in rural sociology and its continued relevance.

**A) Course Learning Outcomes:**

1. An empathy for and ability to engage rural communities as living societies and understand grasp they condition as human condition.
2. An appreciation of rural world and familiarity with the trajectory of theoretical conversation on rural issues and their social, political and policy implications.
3. An understating of emerging as well as enduring issues of concern in Indian rural society
4. To be ready for a range of academic and professional roles that may require a knowledge of rural societies.

**C) Course Content:**

<b>Module</b>	<b>Topic and Sub- Topic</b>	<b>Teaching Hours</b>	<b>Credits</b>
<b>Module -1</b>	<b>Introduction to Rural Sociology</b> A) Meaning of Rural Sociology B) Origin, Scope and Subject Matter of Rural Sociology C) Importance of Rural Sociology with the reference of India	<b>15</b>	<b>01</b>
<b>Module-2</b>	<b>Indian Rural Community</b> A) Village studies in India B) Classification of Indian Villages C) Changing Nature of Rural Community in India	<b>15</b>	<b>01</b>

<b>Module -3</b>	<b>Social Institutions in Rural Society</b> A) Marriage, Family and kinship Institution B) Caste and Balutedari C) Political life : structure and change	<b>15</b>	<b>01</b>
<b>Module-4</b>	<b>Changing Indian Agrarian Society</b> A) Rural Cooperative and Rural Industry B) Markets, Land Reforms and Green Revolution C) The Agrarian Issues	<b>15</b>	<b>01</b>

**D) Teaching Learning Process:**

The teaching learning for this course involves lectures, tutorial conversations around contemporary issues of concern for agrarian societies and extensive usage of imaginative literature and films that makes the lived world of peasantry and rural communities come alive to the students.

**E) Assessment Methods:**

Recommended evaluation would be an assignment that tests the conceptual grasp of the students and a project that prompts students to engage in research about a historical or contemporary rural issue.

**NOTE: Visit to village and Grampanchayat and Understand its Structure and Rural Development Programs**

**F) References:(English)**

**Beteille Andre:** Caste, Class and Power, Oxford University press, (India), New Delhi, (2012).

**Beteille Andre:** 'The Study of Agrarian Systems: An Anthropological Approach', from Marxism and Class Analysis, New Delhi: Oxford. 2007.

**Bandopadhyay :** 'Reflections on Land Reform in India since Independence' from T. V. Satyamurthy (Ed.) Industry and Agriculture in India Since Independence, Delhi: Oxford University Press.

**Desai A.R.:** Rural Sociology in India Popular Prakashan, Bombay, (1969 reprint 2009) .

**Dhanagare, D. N.:** 'Green Revolution and Social Inequalities in Rural India' from, Economic and Political Weekly, Vol. 22, No. 19/21, Annual Number (May, 1987),

**Dube SC:** Indian Village, Routledge, New York, (Second edition 2018)

**Mukherjee Ramkrishna:** The Dynamics of a Rural Society, Akademie -Verlag, Berlin, (1957)

**Oommen T.K.:** Green Revolution and Agrarian Conflicts, Economics and Political weekly, Vol.-6, Issue-26(1971)

**Shah, A.M.:** Changes in the Indian Family: An Examination of Some Assumptions', in The Family in India: Critical Essays, New Delhi: Orient Longman (1998)

**Srinivas M.N.:** India: Social Structure, Hindustan Publishing Corporation, Delhi (1980)

मराठी ग्रंथ

जयपूर(२००९ ).

## REVISED SYLLABUS OF B. A. III SOCIOLOGY

### Choice Based Credit System (CBCS)

Semester – VI, DSE – E195 SOCIOLOGY – XVI

### URBAN SOCIOLOGY

(June,2020 onwards)

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#### **A)Course Objectives:**

1. Urbanization is an important aspect of modern society. This course is will provide an Exposure to key theoretical perspectives for understanding urban phenomena in historical and contemporary contexts.
2. It also reflects on vital concerns of urban living while narrating the subjective experiences of urban communities. With case studies from India and other parts of the world this course will help students understand and relate to the complexities of urban living.
3. The course seeks to evolve critical thinking and develop a policy perspective on the urban.

#### **B)Course Learning Outcomes:**

1. To appreciate the significance of the city and the process of urbanization and its Consequences across the globe, through cross disciplinary texts and ethnographic studies.
2. To understand the urban in the historical as well as modern contexts - the idea of Urbanism and urban space and the intersections in these of institutions, processes and Identities. This is to be achieved by exposing students to critical theoretical debates which help them to gain a deeper understanding of city life and urban environment which can Also help them understand their own social environment better.
3. To learn about key urban processes such as migration, displacement and urban slums, as

Well as critical contemporary issues such as resettlement and rehabilitation and also engage in issues of public policy, urban transformation and change. Knowledge of such Themes will help students pursue further studies in academic areas such as development and also engage in research on public policy, urban transformation and change.

4. To develop critical thinking and a reflective perspective through exposure to multicultural Thought; to enhance disciplinary knowledge, research-related skills and develop a problem-solving competence.

### C) Course Content:

Module	Topic and Sub- Topic	Teaching Hours	Credits
Module I	Introduction to Urban Sociology A) Definition, Meaning & Nature of Urban Sociology. B) Subject Matter of Urban Sociology. C) Importance of the Study of Urban Sociology	15	01
Module II	Major Concepts in Urban Sociology. A)Urban Community. B)Urbanism. C)Rural- Urban differences- continuum	15	01
Module III	Process of Urbanization A) Meaning and Nature of Urbanization	15	01

	<p>B) Causes of Urbanization.</p> <p>C) Consequences of Urbanization</p>		
Module IV	<p>Urban Social Structure.</p> <p>A) Urban Family : Characteristics and Change</p> <p>B) Urban Social stratification: Caste &amp; Class.</p> <p>C) Urban Occupations: Characteristics and Change</p>	15	01

**D) Teaching Learning Process:**

The sociology of the urban is simultaneously theoretical and yet deeply experiential. The teaching learning for this course necessarily has to be deliberative, drawing from the multicultural exposure to city living. There will be an emphasis on blended learning supported by debates and discussions. Classroom lectures shall be supplemented by power point presentations and film screenings on various contemporary urban issues. Invited lectures by policy makers, activists, practitioners and other stake holders would be integral to the curriculum. Students would be encouraged to set out into the field to grasp issues with greater clarity. City walks will be encouraged to enrich the experiential understanding of the urban. Learning would also involve a multi-disciplinary perspective, collaborating with other social sciences that engage with the urban as well as the disciplines of urban planning and architecture, in order to enhance problem solving and critical thinking ability.

**E) Assessment Methods:**

Assessment for this paper would be in the form of tests, written assignments, projects' reports and presentations.

**F) Key Words:**



Urban, Urbanism, Urbanisation, City, Migration, Settlement, Space, Ecology.

NOTE: 1) Visit to any Slum Area in City and Understand their Problems

2) Visit to any City and Observe its Ecosystem

### G) References:-

1. Wilson R.A & Schlutz David : Urban Sociology, Prentice Hall, England, 1978
2. Rao M.S.A. : Urban Sociology in India, Orient Longman  
New Delhi, 1974.
3. D Souza Alfred : The Indian city: Poverty Ecology and Urban  
Development, Manohar, New Delhi,1978.
4. Dube K.K. and Singh A.K. : Urban Environment in India, Inter India, New Delhi  
1980.
5. Mitra, Ashok et.al. : Indian cities, abhinav, New Delhi,1980.
6. Berge E.E. : Urban Sociology, Free Press, New York,1962
7. Bose, Ashish : Studies in India's Urbanisation, Tata McGraw Hill,  
New Delhi,1973
8. Singh Pramod : Ecology and Urban India, Vol.II Ashish, New  
Delhi, 1987.
9. Urban Sociology : Rajendra K. Sharma Atlantic Publishers &  
Distributers, New Delhi,1997
10. Urbanization : Concept & Growth: A.K. Shrivastava,  
H.K.Publishers and Distribtors, New Delhi,1989

## **B.A. Sociology Outcome**

Sociology is the most contemporary and versatile of the Social Sciences. It trains students to grasp social structures, understand social processes map the dynamics of social change, decipher social interactions and make sense of individual and collective experiences in their social, historical and cultural context. Sociology is at once critical and constructive; conceptual and applied; theoretical and empirical. It is a science that cohabits comfortably with literary flair, speculative sensibility, historical imagination and statistical rigour. It is incessantly reflexive about its methods, demanding about its research techniques and standards of evidence. Sociology is ever so subtle about the conceptual distinctions it draws and zealous about its disciplinary boundaries and identity. At the same time, sociology is the most open and interdisciplinary of social sciences. The Pursuit of sociology is a systematic effort at recovering, mapping and making sense of our kaleidoscopic collective self under the sign of modernity. It is both historical and comparative. Sociology as an academic discipline is committed to the ideal of generating public knowledge and fostering public reason. It embodies best of enlightenment virtues: scientific reason, tolerance of diversity, humanistic empathy and celebration of democratic ideals. It is the science of our times.

### **Teaching Learning Process**

Multiple pedagogic techniques are used in imparting the knowledge both within and outside the classrooms. Listed below are some such techniques:

- Lectures
- Tutorials
- Power-point presentations
- Project work
- Documentary Films on relevant topics
- Debates, Discussions, Quiz
- Talks /workshops

- Interaction with experts
- Academic festivals
- Classics and other sociologically meaningful films
- Excursions and walks within the city
- Visit to the museums
- Outstation study tours ..... Survey designs
- Internships

### **A note on Assessment Methods**

Besides the formal system of University exams held at the end of each semester as well as mid-semester and class tests that are held regularly, the students are also assessed on the basis of the following:

- Written assignments
- Projects Reports
- Presentations
- Participation in class discussions
- Ability to think critically and creatively to solve the problems
- Application of classroom concepts during fieldwork
- Reflexive Thinking
- Engagement with peers
- Participation in extra and co-curricular activities
- Critical assessment of Films /Books etc.

**A note on career trajectories for Sociology Graduates and (for)  
Prospective employers:**

Students with a grounding in Sociology have contributed immensely to the following fields :

- Academics
- Bureaucracy
- Social Work
- Law
- Journalism both print and visual
- Management
- Policy Making
- Developmental Issues
- Designing and Conducting surveys
- Human Resource Development
- Competitive Examinations
- Advocacy
- Performing Arts
- Research in contemporary issues of Gender, Development, Health, Urban Studies, Criminology etc.

# **SHIVAJI UNIVERSITY, KOLHAPUR.**



' A' Reaccredited By NAAC

Revised Syllabus for Bachelor of Arts (CBCS)

**B. A. in Political Science**

Faculty of Humanities B.A. Part – III

( Sem. V and VI)

Syllabus to be implemented from June, 2020

**Shivaji University, Kolhapur**  
**Revised Syllabus from June, 2020**  
**Bachelor of Arts Part III – Political Science - Sem – V and VI**

- 1) **Title:** Subject: Political Science (Paper No. 7 to 11) Optional under the Faculty of Arts.
- 2) **Year of Implementation:** Revised Syllabus will be implemented from June 2020 onwards.
- 3) **Duration:** The course shall be a full time course. The duration of course shall be three years.
- 4) **Pattern:** Pattern of examination will be Semester.
- 5) **Eligibility For Admission:** As per eligibility criteria prescribed for each course and the merit list in the qualifying examination.
- 6) **Medium of Instruction:** The medium of instruction shall be English or Marathi
- 7) **Equivalence In Accordance With Titles And Content Of Papers:** For Revised Syllabus As follows:

**SEMESTER V**

Sr No	Paper No	Title of Old Paper	Paper No	Title of New Paper
1	VII	Modern Government	VII	Political Theory
2	VIII	Public Administration	VIII	Public Administration
3	IX	International Politics	IX	International Politics
4	X	Constitution of United States of America	X	Comparative Politics
5	XI	Classical Western Political Thought	XI	Western Political Thought I

**SEMESTER VI**

Sr No	Paper No	Title of Old Paper	Paper No	Title of New Paper
1	XII	Modern Political Concepts	XII	Modern Political Concepts
2	XIII	Administrative Thinkers	XIII	Politics and Movements in Maharashtra
3	XIV	Foreign Policy of India	XIV	Foreign Policy of India
4	XV	Constitution of China and Sweden	XV	Comparative Government (With special reference to UK & USA)
5	XVI	Modern Western Political Thought	XVI	Western Political Thought II

## Structure of Course

### Revised syllabus of B.A. Part III (Political Science) From June, 2020

Semester	Paper No.	Title of the Paper	Theory Marks	Term work
<b>Sem V</b>	Paper VII	Political Theory	<b>40</b>	<b>10</b>
	Paper VIII	Public Administration	<b>40</b>	<b>10</b>
	Paper IX	International Politics	<b>40</b>	<b>10</b>
	Paper X	Comparative Politics	<b>40</b>	<b>10</b>
	Paper XI	Western Political Thought I	<b>40</b>	<b>10</b>
<b>Sem-VI</b>	Paper XII	Modern Political Concepts	<b>40</b>	<b>10</b>
	Paper XIII	Politics and Movements in Maharashtra	<b>40</b>	<b>10</b>
	Paper XIV	Foreign Policy of India	<b>40</b>	<b>10</b>
	Paper XV	Comparative Government (With special reference to UK & USA)	<b>40</b>	<b>10</b>
	Paper XVI	Western Political Thought II	<b>40</b>	<b>10</b>

**Revised Syllabus B.A. III- Political Science (CBCS) From June 2020**

**Semester - V Paper No. VII DSE E-76**

**Title: Political Theory**

**Course Outcome:**

- 1) Getting basic knowledge of Political Theory
- 2) Understanding of approaches to Political Theory
- 3) Knowing Behavioural movement in Political Science
- 4) Acquiring knowledge about concepts of Power, Authority and Legitimacy

Sr. No.	Unit No. and Title of the Unit	Teaching Hours	Credits
1.	<b>Unit 1:</b> Political Theory. a. Nature and scope of Political Theory. b. Political Philosophy and Political Theory c. Decline, Resurgence and Importance of Political Theory.	15	01
2.	<b>Unit 2:</b> Approaches to Political Theory a) Normative Approach b) Empirical Approach	15	01
3.	<b>Unit 3:</b> Behaviouralism & Post Behaviouralism a) Behavioral Approach—Meaning, Characteristics & Evaluation b) Post Behavioral Approach –Meaning, Characteristics & Evaluation	15	01
4.	<b>Unit 4:</b> Concepts in Political Theory a) 1)Political Power—Meaning, &Types, 2)Theories of Political Power—Psycho-Analytical Theory, Sociological Theory, Liberal Democratic Theory, Marxian Theory b) Authority –Meaning & Types c)Legitimacy –Meaning , Basis of Legitimacy	15	01

**References:**

- 1) Freidrich C. H. An Introduction to Political Theory.
- 2) Ernest Barkar, Principles of Social & Political Theory, Oxford, 1976
- 3) Ashirvadam & Misra, Political Theory, S Chand, Delhi 2004.
- 4) Dr. A.H. Doctor, Issues in Political Theory
- 5) Lass let Peter & Runciman W.C.(ed) Philosophy, Politics & Society, (3rd Series) Oxford, Blackwell, 1976
- 6) Mac Iver, Modern State, OUP, 1926
- 7) Verma S.P. Modern Political Theory, Vikas, Delhi, 1913
- 8) Carnoy, State and Political Theory, Princeton, 1984
- 9) Strauss L. What is political Philosophy & other essays, Glencoe, Free Press, 1959.
- 10) A Brecht, Political Theory-Foundations of 20th century Political Theory, Bombay, 1965.
- 11) David Held, Political Theory & Modern State, Polity, 1984.
- 12) Cresingay D. and Minogue (Ed) Contemporary Political Thinkers, Methuan, London, 1975.
- 13) Quinton A (Ed) Political Philosophy, Oxford, 1967.
- 14) Bena and Peters Social Principles & Democratic State, George Alien & Unwin, 1959
- 15) Einstein Mathew, Kenny Micheal,(ED) Political Ideologies: A Reader & Guide OUP; 2005



- 16) Bhargava Rajeev & Acharya Ashok, Political Theory, Pearson,2015
- 17) गर्दे दि.का.,राजकीय सिद्धांत ,महाराष्ट्र विद्यपीठ ग्रंथ निर्मिती मंडळ,नागपूर ,१९७८
- 18) भोळे भास्कर ,राजकीय सिद्धांत आणि विश्लेषण, श्रीविद्या, नागपूर,२००४
- 19) देव विजय आणि इतर , राजकीय संकल्पना आणि सिद्धांत, डायमंड ,पुणे, २०१५

**Semester - 5 Paper No. VIII DSE E-77**  
**Title: Public Administration**

**Course Outcome:**

- 1) Acquiring information about various concepts in Public Administration.
- 2) Getting knowledge about Organization, its Bases, Principles and Units.
- 3) Getting acquainted with the budgetary process in India.
- 4) Understanding the interface between citizens and Public Administration; and other agencies in society and Public Administration.

Sr. No.	Unit No. and Title of the Unit	Teaching Hours	Credits
1.	<b>Unit 1: Introduction to Public Administration</b> a) Meaning, Nature and Scope b) Politics and Administration Dichotomy c) Evolution of the Discipline and its Present Status	15	01
2.	<b>Unit 2: Organization</b> a) Meaning and Bases of Organization b) Principles of Organization c) Units of Organization	15	01
3.	<b>Unit 3: Financial Administration:</b> a) Meaning and definition of Budget b) Budgetary Process in India c) Parliamentary Control of the Budget in India.	15	01
4.	<b>Unit 4: Accountability and Control</b> a) Concepts of Accountability and Control b) Legislative, Executive and Judicial Control over Public Administration c) Citizen and Administration d) Citizen's Charter, Role of: Media, Interests Groups, Voluntary Organizations, and Civil Society.	15	01

**Recommended Books**

1. Dr.Sharma M. P. : Public Administration in theory and practice, Kitab Mahal, Allahabad.
2. Dr.Avasthi A.; Dr.Maheshwari S., Public Administration, Lakshmi Narain Agrawal,Agra.6
3. Basu R.,Public Administration - Concept and Theories, Sterling Publisher Pvt.Ltd.,New Delhi.
4. White L. D. : Introduction to the study of public administration
5. Bhattacharya M., Restructuring of Public Administration, Jawahar Publishers, New Delhi.
6. Laxmikanth M, Public Administration, McGraw Hill Education (India) Private Limited, Chennai.
7. Prof. Fadia B. L. and Fadia K, Public Administration in India, Sahitya Bhawan, Agra.
- 8 बोरा पारस, शिरसाट शाम, लोकप्रशासनशास्त्र,ज्ञानसमिधा,औरंगाबाद
- 9 गर्दे दि.का. लोकप्रशासन तत्व व तंत्र, नागपूर ,1980
- 10 इनामदार एन.आर.लोकप्रशासन, महाराष्ट्र विद्यापीठ ग्रंथ निर्मिती मंडळ ,नागपूर,1975
- 11 माहेश्वरी श्रीराम, भारतीय प्रशासन ,(अनुवाद : साधना कुलकर्णी ), ओरिएण्ट लॉगमन,हैद्राबाद,2002

- 12 काणे प.सि.,लोकप्रशासनाचे सिद्धांत ,विद्या प्रकाशन,नागपूर
- 13 भोगले शांताराम ,लोकप्रशासन सिद्धांत व कार्यपद्धती ,कैलाश ,औरंगाबाद
- 14 दर्शनकार अर्जुन, लोकप्रशासन, कैलाश ,औरंगाबाद

**Semester – V - Paper No. IX DSE E-78**  
**Title: International Politics**

**Course Outcome :**

- 1) Getting acquainted with the concepts and dimension of International Politics.
- 2) To understand main theories of International Politics.
- 3) To know the working of international and regional organizations and the new world order that emerged after the end of cold war.

<b>Sr. No.</b>	<b>Unit No. and Title of the Unit</b>	<b>Teaching Hours</b>	<b>Credits</b>
1.	<b>Unit – 1. Nature of International Politics</b> a) Meaning, Nature and Scope of International Politics b) Theories of International Politics: Idealist and Realist.	15	01
2.	<b>Unit – 2. National Power :</b> a) Meaning of National Power b) Elements of National Power.	15	01
3.	<b>Unit – 3. Diplomacy :</b> a) Meaning of Diplomacy, b) Kinds and Functions of Diplomacy.	15	01
4.	<b>Unit – 4. New World Order :</b> a) Post Cold-War International Order b) Regional Organizations: European Union, ASIAN c) Economic Organizations: WTO and BRICS	15	01

**Recommended Books:**

1. Vinoy Kumar Malhotra - International Relation (New Delhi: Anmol Publication 1999)
2. Joshna Goldstein - International Relation (New York: Longman, 2003)
3. Hans Morgenthau - Politics Among Nation (New York: Alfred Knopf, 1985)
4. देवळाणकर शैलेंद्र, आंतरराष्ट्रीय संबंध, विद्या, औरंगाबाद, 2005
5. रायपूरकर वसंत, आंतरराष्ट्रीय संबंध, मंगेश, नागपूर, 2006
6. फादिया बी.एल. आंतरराष्ट्रीय राजनीती, साहित्यभवन, आग्रा, 2004
7. लोटे रा.ज, आंतरराष्ट्रीय संबंध, पिंपळापुरे, नागपूर, 2018
8. पाटील वा.भा., आंतरराष्ट्रीय संबंध, प्रशांत, जळगाव,
9. तोडकर बी.डी., आंतरराष्ट्रीय संबंध—महत्वाच्या संकल्पना, डायमंड, पुणे, 2012
10. वराडकर र.घ., आंतरराष्ट्रीय संबंध आणि राजकारण, विद्या, नागपूर

**Semester – V Paper No. X DSE E-79**  
**Title : Comparative Politics**

**Course Outcome:**

- 1) Students will be familiar with basic theory of comparative politics
- 2) Students be able to understand constitutionalism, federalism.
- 3) Students shall understand party system and pressure groups and its functioning.
- 4) Students shall understand classification of political parties and pressure groups.

Sr. No.	Unit No. and Title of the Unit	Teaching Hours	Credits
1.	<b>Unit – 1. Comparative Politics</b> a) Meaning, Nature and Scope of Comparative Politics b) Structural Functional Approach to the study of Comparative Politics c) System Approach to the study of Comparative Politics d) Marxian Approach to the study of Comparative Politics	15	01
2.	<b>Unit – 2. Constitutionalism</b> a) Meaning and Definition Constitutionalism b) Constitutionalism in United Kingdom c) Constitutionalism in United States of America	15	01
3.	<b>Unit – 3. Federalism</b> a) Meaning and Nature federalism b) Essential Conditions of Federation c) Challenges before Federation	15	01
4.	<b>Unit – 4. Political Party and Pressure Groups</b> a) Meaning and types of Political Party b) Meaning and Classification of Pressure Groups c) Role of Political Parties and Pressure Groups	15	01

**Recommended Books:**

1. Harry Eckstein & David E. Apter- Comparative Politics, A Reader (New York, The Free Press, 1969.
2. J Blondel- An Introduction to comparative Government, London, 1969.
3. Herman Finer- The theory and Practice of Modern Government, Mathuen and Company, London 1969
4. S. R Maheshwari – Comparative Government and Politics ,Laxmi Narayan Agrwal, Agra, 1983
5. V.N Khanna– Major Political Systems, Chand and Chand company , Delhi
6. J.C Johari – Comparative Politics, sterling Delhi.
7. VidyaBhushan – Comparative Politics , Atlantic Publication and Distributers.
8. H,Denis Derbyshire, Ian Derbyshire – Political system of the world, Alied Publishers.Ltd.
9. D. Deol – Comparative Government and Poltics, sterling Publisher Pvt. Ltd
10. V.D. Mahajan- Select Modern Government, S Chand &Co.Ltd, New Delhi

- 11 लोटे रा.ज, तुलनात्मक शासन आणि राजकारण ,पिंपळापुरे ,नागपूर, 2015
- 12 गांधीजी राय ,तुलनात्मक शासन एवं राजनीती,भारती भवन पब्लिशर, 2017
- 13 जोहरी जे.सी.. तुलनात्मक राजनीती,स्टर्लिंग ,2008
- 14 गाबा ओमप्रकाश, तुलनात्मक राजनीती कि रूपरेखा, मयूर बुक्स, 2018
- 15 बिस्वाल तपन, तुलनात्मक राजनीती-संस्थाए और प्रक्रियाए,द ओरिएन्ट ब्लाकस्वान, 2016
- 16 गर्ग सुषमा,तुलनात्मक शासन एवं राजनीती,अग्रवाल प्रकाशन ,2012
- 17 देशपांडे म.द., शासन राज्यपद्धती तौलनिक विचार,महाराष्ट्र विद्यापीठ ग्रंथ निर्मिती
- 18 घांगरेकर चि.ग.तुलनात्मक शासन आणि राजकारण
  
- 19 शास्त्री चंद्रशेखर ,प्रमुख देशांची शासन प्रणाली ,पायल,नागपूर
- 20 देशमुख अलका ,तौलनिक शासन आणि राजनीती,नाथ,नागपूर
- 21 देवगावकर रा.गो.आधुनिक राजकीय व्यवस्था, साईनाथ नागपूर

**Semester – V, Paper No. XI DSE E-80**  
**Title of the Paper: Western Political Thought – I**

**Course Outcome :**

- 1) Students will get acquainted with the western tradition from Plato to Rousseau.
- 2) Students will understand the evolution of western Political idea.
- 3) Students will be able to study historical aspects of western state and society.

Sr. No.	Unit No. and Title of the Unit	Teaching Hours	Credits
1.	<b>Unit – 1. Plato</b>	15	01
2.	<b>Unit – 2. Aristotle</b>	15	01
3.	<b>Unit – 3. Machiavelli</b>	15	01
4.	<b>Unit – 4. Rousseau</b>	15	01

**Recommended Books:**

- 1) Francis W. Coker - Recent Political Thought, The world Press Pvt. Ltd.
- 2) George H. Sabine - A History of Political theory, George G. Harrap&comoany Ltd. London.
- 3) C.L. Wayper - Political thought, S.T. Pauls, Honce Warwick lane London, Ec. 4
- 4) V.D. Mahajan & R.R. Seth, Recent Political Thought, Premier Publishing Co, Delhi.
- 5) William Ebenstein, Great Political Thinkers – Plato To the present Modern Political thought, The great Issues, IInd Edition, Oxford & IBH Publishing company.
- 6) Radhey Sham Chourasia, History of western Political thought – Volume I & II
- 7) Suda J.P., History of Political Thought, K.Nath, Meerut, Vol. 1 to 3, Reprint, 2017

- 8 शृंगारपुरे अरविंद, भारतीय तथा पाश्चिमात्य राजकीय विचार, मंगेश, नागपूर
- 9 भोळे भा.ल., भारतीय आणि पाश्चिमात्य राजकीय विचार, पिंपळापुरे, नागपूर
- 10 गर्दे दि.का., पाश्चिमात्य राजकीय विचार प्रवाह, महाराष्ट्र राज्य ग्रंथ निर्मिती, पुणे
- 11 डोळे ना.य., राजकीय विचारांचा इतिहास, कॉन्टीनेटल, पुणे
- 12 कुलकर्णी सुधाकर, निवडक राजकीय विचारवंत, विद्याभारती, लातूर

**B. A. Part III – Political Science - Semester – VI**  
Semester VI, Paper No. XII DSE E- 201

**Title of the Paper: Modern Political Concepts**

**Course Outcome**

1. Student will know modern concepts such as Feminism, Multiculturalism, Environmentalism and Civil Society etc.
2. This will enable students to have comprehensive idea of contemporary scenario in political science.

Sr. No.	Unit No. and Title of the Unit	Teaching Hours	Credits
1.	<b>Unit – 1. : Feminism</b> I. Meaning, Origin and Development of Feminism. II. Characteristic of Feminism III. Theories of Feminism	15	01
2.	<b>Unit – 2. Multiculturalism</b> I. Meaning and Development of Multiculturalism II. Will Kymlicka's theory of Multiculturalism III. Nationalism and Multiculturalism	15	01
3.	<b>Unit – 3. Environmentalism</b> I. Origin and Causes of Environmentalism II. Characteristics of Environmentalism III. International Efforts for protection of Environment IV. Global Warming	15	01
4.	<b>Unit – 4. Civil Society</b> I. Meaning and Development of Civil Society II. Civil Society—Liberalism and Political Economy III. Locke, Hegel, Marx and Antonio Gramsci on Civil Society IV. Post Colonialism and Civil Society	15	01

**Recommended Books:**

- 1 Kymlicka Will, Multicultural Citizenship :Liberal Theory of Minority Rights, Clarendon Press, 1995
- 2 Kymlicka Will, Contemporary Political Philosophy, Oxford, 2001
3. Bhargava Rajeev and Acharya Ashok, Political Theory : An Introduction, 1st. Edition, Pearson, New Delhi, 2008
- 4 राठी शुभांगी डी. आधुनिक राजकीय विचारप्रणाली, अथर्व, धुळे, 2014
- 5 भार्गव राजीव , आचार्य अशोक, (संपा.) राजकीय सिद्धांत परिचय (अनुवाद: हेमंत खानझोडे) पिअर्सन , नवी दिल्ली, 2011
- 6 खेडेकर दिगंबर , राजकीय सिद्धांतातील मुलभूत संकल्पना, चिन्मय , औरंगाबाद, 2009
- 7 भागवत वंदना , संदर्भासहित स्त्रीवाद
- 8 भागवत विद्युत , स्त्रीवादी सामाजिक विचार : सहा महत्वाच्या विचारवंत स्त्रियांचा परिचय, डायमंड, पुणे, 2008



**Semester VI Paper N0. XIII DSE E- 202**

**Title of the Paper: Politics and Movements in Maharashtra**

**Course Outcome :**

- 1) Student will know the Political System of Maharashtra.
- 2) They will understand the process of formation of Maharashtra State
- 3) Student will know the movements, pressure groups and political parties in Maharashtra.
- 4) This will provide comprehensive idea of contemporary politics of Maharashtra.

<b>Sr. No.</b>	<b>Unit No. and Title of the Unit</b>	<b>Teaching Hours</b>	<b>Credits</b>
1.	<b>Unit -1 Samyukta Maharashtra</b> a. Movement of Samyukta Maharashtra and formation of Maharashtra State b. Developments in Politics of Maharashtra after 1960 c. The Politics of Regional Imbalance – Cooperative Sector and Economy	15	01
2.	<b>Unit – 2 Organization of State Government</b> a. Executive: Governor, Chief Minister and Council of Ministers – Composition, Powers and Functions b. Legislature: Legislative Assembly and Legislative Council- Composition, Powers and Functions.	15	01
3.	<b>Unit – 3. Politics of Maharashtra</b> a. Major Political Parties in Maharashtra b. Regional Parties in Maharashtra c. Coalition Politics	15	01
4.	<b>Unit – 4. Political and Social Movements in Maharashtra</b> a. Peasant Movements b. Dalit Movements c. Superstition Eradication Movements d. Student Movements	15	01

**References:**

- 1- Usha Thakkar and Mangesh Kulkarni (Ed.) Politics in Maharashtra
- 2- M.S.A. Rao/Francis Frankel (Ed.) Politics in Maharashtra – Vol 2. Oxford Uni. Press, 1990.
- 3 Murugkar Lata, Dalit Panther Movement in Maharashtra :A Sociological Appraisal, South Asia Books, 1991
- 4 Shah Ghanshyam, Social Movements in India, sage, 1991
- 5 जैन अशोक ,महाराष्ट्राचे शासन आणि राजकारण, सेठ ,मुंबई ,1998
- 6 पळशीकर सुहास आणि बिरमल नितीन, महाराष्ट्राचे राजकारण, प्रतिमा, पुणे ,2005
- 7 पळशीकर सुहास आणि कुलकर्णी सुहास, महाराष्ट्रातील सत्तासंघर्ष, समकालीन प्रकाशन, पुणे ,2007
- 8 भोळे भा.ल., यशवंतराव चव्हाण विचार व राजकारण, साकेत, औरंगाबाद, 2007

- 9 जाधव तुकाराम आणि इतर (संपादक), महाराष्ट्राचे राजकारण नव्या वळणावर? ,युनिक अकाडेमी, 2015
- 10 काळे भगवानराव, संयुक्त महाराष्ट्र:काल आणि आज ,1998
- 11 फडके य.दि.व्यक्ती आणि विचार, श्रीविद्या, पुणे
- 12 सुमंत यशवंत आन डी.डी.पुंडे (संपा.) महाराष्ट्रातील जातीव्यवस्थात्मक विचार,प्रतिमा ,पुणे
- 13 व्होरा राजेंद्र (संपा.) परंपरा आणि आधुनिकता, प्रतिमा ,पुणे
- 14 भोळे भा.ल., बेडकिहाळ किशोर (संपा.) बदलता महाराष्ट्र, आंबेडकर अकादमी,सातारा,2003
- 15 चौसाळकर अशोक , कॉ.श्रीपाद अमृत डांगे,कॉ.गोविंद पानसरे अमृत महोत्सव समिती,कोल्हापूर,2011

**Semester VI Paper No. XIV DSE E- 203**

**Title: Foreign Policy of India**

**Course Outcome:**

1. Student will understand, 'what is Foreign Policy and what are the objectives of Foreign Policy.
2. This will provide comprehensive idea of foundation of Indian Foreign Policy
3. Student will come to know India's relation with super powers and neighboring countries.
4. It will bring attention of the students towards the current national and international political situation and foreign policy.

<b>Sr. No.</b>	<b>Unit No. and Title of the Unit</b>	<b>Teaching Hours</b>	<b>Credits</b>
1.	<b>Unit 1: Foreign Policy</b> a) Meaning and Objectives of Foreign Policy. b) Determinants and Basic Principles of Indian Foreign Policy	15	01
2.	<b>Unit – 2. India and Global Powers</b> a) India – US Relations b) India – USSR and Russia Relations c) India – China Relations	15	01
3.	<b>Unit – 3. India's Relations with her Neighbors</b> a) India – Pakistan b) India – Bangladesh c) India – Shrilanka	15	01
4.	<b>Unit – 4. Continuity and Change in India's Foreign Policy</b> a) Foreign Policy of India in Cold War Era b) Foreign Policy of India in Post Cold War Era	15	01

**Recommended Books :**

1. Vinoy Kumar Malhotra - International Relation (New Delhi: Anmol Publication 1999)
2. Joshna Goldstein - International Relation (New York: Longman, 2003)
3. Hans Morgenthau - Politics Among Nation (New York: Alfred Knopf, 1985)
4. देवळाणकर शैलेंद्र, आंतरराष्ट्रीय संबंध, विद्या, औरंगाबाद, 2005
5. रायपूरकर वसंत, आंतरराष्ट्रीय संबंध, मंगेश, नागपूर, 2006
6. फादिया बी.एल. आंतरराष्ट्रीय राजनीती, साहित्यभवन, आग्रा, 2004
7. लोटे रा.ज, आंतरराष्ट्रीय संबंध, पिंपळापुरे, नागपूर, 2018
8. पाटील वा.भा., आंतरराष्ट्रीय संबंध, प्रशांत, जळगाव,
9. तोडकर बी.डी., आंतरराष्ट्रीय संबंध—महत्वाच्या संकल्पना, डायमंड, पुणे, 2012
10. वराडकर र.घ., आंतरराष्ट्रीय संबंध आणि राजकारण, विद्या, नागपूर
11. देवळाणकर शैलेंद्र, समकालीन जागतिक राजकारण व भारताचे परराष्ट्र धोरण, क्रोनिकॅल, 2012
12. देवळाणकर शैलेंद्र, भारत व जग, सकाळ, पुणे, 2014

13 देवळाणकर शैलेन्द्र, भारताचे परराष्ट्र धोरण : सातत्य व स्थित्यंतर , प्रतिमा पुणे, 2007

**Title: Comparative Government (With special reference to UK & USA)**

**Course Outcome:**

1. To familiarizes students with composition, functions, and law making process of legislative bodies in UK and USA.
2. To introduce the students with execution process of laws in UK and USA
3. To introduce the Judicial System in UK and USA and procedure of adjudication
4. Students will understand the role of Pressure Groups in the Politics of UK and USA.

Sr. No.	Unit No. and Title of the Unit	Teaching Hours	Credits
1.	<b>Unit 1: Legislature</b> a) Parliament of UK- Composition, Powers and Functions b) Congress of USA- Composition, Powers and Functions	15	01
2.	<b>Unit – 2 Executive</b> a) King, Prime Minister and Council of Minister in UK b) The President, Vice President, and Secretaries in USA	15	01
3.	<b>Unit – Judiciary</b> a) House of Lords and Supreme Court of Judicature in UK b) Supreme Court of USA- Composition, Powers and Functions	15	01
4.	<b>Unit – 4 Political Party and Pressure Group</b> a) Political Party system in UK- Conservative Party and Labour Party b) Political Party System in USA- Democratic and Republican Party c) Pressure Groups in UK and USA	15	01

**Recommended Books :**

1. **Harry Eckstein & David E. Apter-** Comparative Politics, A Reader (New York, The Free Press, 1969.
2. **J Blondel-** An Introduction to comparative Government, London, 1969.
3. **V.D. Mahajan-** Select Modern Government, S Chand &Co.Ltd, New Delhi
4. **Herman Finer-** The theory and Practice of Modern Government, Mathuen and Company, London 1969
5. **S. R Maheshwari –** Comparative Government and Politics ,Laxmi Narayan Agrwal, Agra, 1983
6. **V.N Khanna –** Major Political Systems, Chand and Chand company , Delhi
7. **J.C Johari –** Comparative Politics, sterling Delhi.
8. **Vidya Bhushan –** Comparative Politics , Atlantic Publication and Distributers.
9. **H,Denis Derbyshire, Ian Derbyshire –** Political system of the world, Alied Publishers.Ltd.
10. **D. Deol –** Comparative Government and Poltics, sterling Publisher Pvt. Ltd
- 11 लोटे रा.ज, तुलनात्मक शासन आणि राजकारण ,पिंपळापुरे ,नागपूर, 2015
- 12 गांधीजी राय ,तुलनात्मक शासन एवं राजनीती,भारती भवन पब्लिशर, 2017
- 13 जोहरी जे.सी.. तुलनात्मक राजनीती,स्टर्लिंग ,2008
- 14 गाबा ओमप्रकाश, तुलनात्मक राजनीती कि रूपरेखा, मयूर बुक्स, 2018

- 15 बिस्वाल तपन, तुलनात्मक राजनीती-संस्थाए और प्रक्रियाए,द ओरिएन्ट ब्लॉकस्वान, 2016
- 16 गर्ग सुषमा,तुलनात्मक शासन एवं राजनीती,अग्रवाल प्रकाशन ,2012
- 17 देशपांडे म.द., शासन राज्यपद्धती तौलनिक विचार,महाराष्ट्र विद्यापीठ ग्रंथ निर्मिती
- 18 घांगरेकर चि.ग.तुलनात्मक शासन आणि राजकारण
- 19 शास्त्री चंद्रशेखर ,प्रमुख देशांची शासन प्रणाली ,पायल,नागपूर
- 20 देशमुख अलका ,तौलनिक शासन आणि राजनीती,नाथ,नागपूर
- 21 देवगावकर रा.गो.आधुनिक राजकीय व्यवस्था, साईनाथ नागपूर

**Semester VI Paper No. XVI DSE E- 205**

**Title: Western Political Thought- II**

**Course Outcome:**

1. The students will understand Political views of J. S. Mill, Karl Marx, Gramsci & Hannah Arendt
2. The students will get acquainted with various aspects of state and society with western perspective.

Sr. No.	Unit No. and Title of the Unit	Teaching Hours	Credits
1.	<b>Unit 1: J.S. Mill</b>	15	01
2.	<b>Unit – 2 Karl Marx</b>	15	01
3.	<b>Unit 3 – Antonio Gramsci</b>	15	01
4.	<b>Unit – 4 Hannah Arendt</b>	15	01

**Re commended Books :**

- 1) Francis W. Coker - Recent Political Thought, The world Press Pvt. Ltd.
- 2) George H. Sabine - A History of Political theory, George G. Harrap & comoany Ltd. London.
- 3) C.L. Wayper - Political thought, S.T. Pauls, Honce Warwick lane London, Ec. 4
- 4) V.D. Mahajan & R.R. Seth, Recent Political Thought, Premier Publishing Co, Delhi.
- 5) William Ebenstein, Great Political Thinkers – Plato To the present Modern Political thought, The great Issues, IInd Edition, Oxford & IBH Publishing company.
- 6) Radhey Sham Chourasia, History of western Political thought – Volume I & II
- 7) Suda J.P., History of Political Thought, K.Nath, Meerut ,Vol. 1 to 3 ,Reprint,2017
- 8) Steve Buckler Hannah Arendt and Political Theory : Challenging the tradition, Edinburg University Press, 2011
- 9) Murray Forsyth and Muurice Keens- Soper The Political Classics : Green to Dworkin, OUP, 1996
- 10) Weisman Tama , Hannah Arendt and Karl Marx : On Totalitarianism and the Tradition of Western Political Thought
- 11 Buttigieg Joseph, (Ed.) Antonio Gramsci –Prision Notebooks, Columbia University Press,2011
- 12 Arendt Hannah, The Origins of Totalitarianism, Schocken Books,1951
- 13 शृंगारपुरे अरविंद, भारतीय तथा पाश्चिमात्य राजकीय विचार,मंगेश,नागपूर
- 14 भोळे भा.ल., भारतीय आणि पाश्चिमात्य राजकीय विचार, पिंपळापुरे, नागपूर
- 15 गर्दे दि.का., पाश्चिमात्य राजकीय विचार प्रवाह, महाराष्ट्र राज्य ग्रंथ निर्मिती , पुणे
- 16 डोळे ना.य.,राजकीय विचारांचा इतिहास,कॉनंटीनेटल,पुणे
- 17 कुलकर्णी सुधाकर ,निवडक राजकीय विचारवंत, विद्याभारती ,लातूर
- 18 देव विजय आणि इतर , पाश्च्यात्य राजकीय विचारवंत, डायमंड,पुणे,2012
- 19 चौसाळकर अशोक ,माक्सवाद –उत्तरमाक्सवाद,प्रतिमा,पुणे,2010

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# **SHIVAJI UNIVERSITY, KOLHAPUR.**



Accredited By NAAC with 'A' Grade

Revised Syllabus For

**B. A. Part-III & B. A. B. Ed.**

**Geography**

(Evolution of Geographical Thought)

**CBCS PATTERN**

Syllabus to be implemented from

(Subject to the modifications to be made from time to time)

**Syllabus to be implemented from June 2020 onwards**



- Introduction – Aims – Objectives - Review of the literature - Data collection –  
Methodology - Data Analysis – Interpretation - Findings – Suggestions - Bibliography
2. The duration of the field work should not exceed than 20 days.
  4. The word count of the report should be about 8000 to 12,000 excluding figures, tables, photographs, maps, references and appendices.
  5. One copy per student of the report as per research standard should be submitted at the time of examination.

### **Module- VII: Study Tour**

#### **Marks-10**

Maximum 15 days of Study Tour and preparation of Tour Report.

The Study Tour Report must be content of following points:

Introduction – Necessity – Importance - Route map – Objectives – Methodology -  
Geographical Profile (Natural, Socio-economic and Cultural) - Geographical importance of  
visited tourist places – Conclusion – References

#### **Journal and Viva Voce**

#### **Marks 10**

#### **Note :**

1. Use of stencils, log tables, computer and calculator is allowed.
2. Journal should be completed and duly certified by practical in-charge and Head of the Department.

#### **Reference:**

21. Lo C. P., Albert K. W. Yeung, (2011): Concepts and Techniques of Geographic Information Systems, PHI Learning Private Limited, New Delhi-110001.
22. Bygoot, J: An Introduction to Mapwork and Practical Geography, University Tutorial, London 1964.
23. Khan MD. Zulfequar Ahmad : Text Book of Practical Geography, Concept Publishing Company, New Delhi, 1998
24. Mishra, R.P. and Ramesh A. : Fundamentals of Cartography, Concept Publishing Company, New Delhi, 2000
25. Monkhouse F.J. and Wilkison, H.R.: Maps and Diagrams, Mathuen. London, 1971.
26. Negi. , Dr. Balbir Singh : Practical Geography, Kedar Nath Ram Nath, Meerut, Delhi.
27. Raisz, E.: Principals of Cartography, McGraw Hill Book Com., Inc, New York, 1962.
28. Robinson, A.H. and Sale, S.D.: Elements of Cartography, John Witey and Sons, Inc, New York, 1969.

30. Saha, Pijushkanti and Basu Partha : Advanced Practical Geography – A Laboratory Manual Books and Allied (P) Ltd, Kolkata. 2010.
  31. Sarkar, Ashis : Practical Geography: A systematic Approach, Orient Longman limited, Calcutta, 1997.
  32. Singh, Gopal : Map work and Practical Geography Vikas Publishing House Pvt. Ltd. New Delhi, 1996.
  33. Singh, R and Kanaujia, L.R.S.: Map Work and Practical Geography, Central Book Depot, Allahabad.
  34. Singh, R. L. and Rana P.B. : Elements of Practical Geography, Kalyani Publishers, New Delhi – Ludhiana, 1998.
  35. Aher A. B., Chodhari A. P. & Bharambe S. N. Techniques of Spatial Analysis Prashant Publication Jalgaon 2015
  36. Maurice Yeats, An Introduction to Quantitative Analysis in Human Geography, McGraw Hill, New York, 1974.
  37. P. Saha and P. Basu (2006): Advanced Practical Geography, Books and Allied Publication, Kolkata, India.
  38. Khullar, Essentials of Practical Geography, New Academic Publishing Co, India.
  39. Singh L R (2011): Fundamentals of Practical Geography
  40. Robinson Rep. (2010): Elements of Cartography 6/e
  41. Khan Za (1998): Text Book of Practical Geography
२२. कुंभार अर्जुन, प्रात्यक्षिक भूगोल,

**SHIVAJI UNIVERSITY, KOLHAPUR**



Revised syllabus for  
Bachelor of Arts (Part – III)

SEMESTER V & VI

**ECONOMICS**

**Syllabus to be implemented from June 2020 onwards**

## Equivalence B.A.III Economics Sem- V

<b>Sem No.</b>	<b>Paper No.</b>	<b>Title of Old Paper</b>	<b>Sem No.</b>	<b>Discipline</b>	<b>Title of New Paper</b>
V	VII	Micro Economics	V	Economics Course - 7	Principles of Micro Economics- I
V	VIII	Research Methodology in Economics (Part I)	V	Economics Course- 10	Research Methodology in Economics- I
V	IX	History of Economic Thoughts (Part I)	V	Economics Course - 11	History of Economic Thoughts- I
V	X	Economics of Development	V	Economics Course - 8	Economics of Development
V	XI	International Economics (Part I)	V	Economics Course - 9	International Economics- I

## Equivalence B.A.III Economics Sem- VI

<b>Sem No.</b>	<b>Paper No.</b>	<b>Title of Old Paper</b>	<b>Sem No.</b>	<b>Economics Course</b>	<b>Title of New Paper</b>
VI	XII	Market and Pricing	VI	Economics Course- 12	Principles of Micro Economics- II
VI	XIII	Research Methodology in Economics (Part II)	VI	Economics Course- 15	Research Methodology in Economics- II
VI	XIV	History of Economic Thoughts (Part II)	VI	Economics Course- 16	History of Economic Thoughts- II
VI	XV	Economics of Planning	VI	Economics Course- 13	Economics of Planning
VI	XVI	International Economics (Part II)	VI	Economics Course- 14	International Economics- II

Structure of Course  
Revised syllabus of B.A. Part III (Economics)

Sr. No.	Semester	Title of the Paper	Discipline	Distribution of Credit	Workload	Total Credits	Theory Marks	Term work seminar
1	V	Principles of Micro Economics- I	Economics Course- 7	4	4 Lectures / week	20	40	10
2	V	Economics of Development	Economics Course- 8	4	4 Lectures / week		40	10
3	V	International Economics- I	Economics Course- 9	4	4 Lectures / week		40	10
4	V	Research Methodology in Economics- I	Economics Course- 10	4	4 Lectures / week		40	10
5	V	History of Economic Thoughts- I	Economics Course- 11	4	4 Lectures / week		40	10
Sr. No.	Semester	Title of the Paper	Discipline	Distribution of Credit	Workload	Total Credits	Theory Marks	Term work Group Project
6	VI	Principles of Micro Economics- II	Economics Course- 12	4	4 Lectures / week	20	40	10
7	VI	Economics of Planning	Economics Course- 13	4	4 Lectures / week		40	10
8	VI	International Economics- II	Economics Course- 14	4	4 Lectures / week		40	10
9	VI	Research Methodology in Economics- II	Economics Course- 15	4	4 Lectures / week		40	10
10	VI	History of Economic Thoughts- II	Economics Course- 16	4	4 Lectures / week		40	10

## **B. A. III Economics (Semester V) (CBCS Pattern)**

### **Research Methodology in Economics- I**

(Elective Course- 10) DSE – E 74

**Course Outcomes:** After successful completion of this course, the students will be able to:

- Get acquainted with the basic concepts of research and its methodologies.
- Select and define appropriate research problem and parameters.

#### **Module- I: Introduction to research in economics (Teaching Hours- 15, Credits- 01)**

- 1.1 Meaning, definitions and objectives of research
- 1.2 Types of research
- 1.3 Significance of research
- 1.4 Areas of economic research

#### **Module- II: Literature review and research design (Teaching Hours- 15, Credits- 01)**

- 2.1 Literature review- meaning, need, how to carry out a literature review?
- 2.2 Research design- steps in research design
- 2.3 Features of good research design
- 2.4 Importance of research design

#### **Module- III: Hypothesis and concept (Teaching Hours- 15, Credits- 01)**

- 3.1 Meaning and definition, kinds of hypothesis
- 3.2 Features of hypothesis
- 3.3 Importance of hypothesis
- 3.4 Concept- meaning, conceptualization, formal and operational definition of concept

#### **Module- IV: Data collection (Teaching Hours- 15, Credits- 01)**

- 4.1 Primary and secondary data
- 4.2 Primary data collection methods- observation, questionnaire, interview
- 4.3 Sources of secondary data
- 4.4 Importance of data collection

#### **BASIC READING LIST:**

1. Goode and Hatt(1981), Methods in Social Research, McGraw Hill International Book Company, New Delhi.
2. Kerlinger F.N.(1983), Foundation of Behavioural Research, Surjeet Publication, Delhi.
3. Young P. V. (1960), Scientific Social Survey and Research, Asia Publication House, Mumbai.

4. Kothari C.R. (1993), Research Methodology-Methods and Techniques, Wiley Eastern Ltd.,New Delhi.
5. Lundbrg G.A.(1960), Social Research, Longmans Green and Company, New York.
6. Herekar P .M.(2019), Research Methodology and **Project** Work, Phadake Prakashan,Kolhapur.
7. Settiz Claire,Jahoda Marie and Others(1959), Research Methods in SocialResearch,Dryden New York.
8. Takur Dvendra(1997), Research Methodology in Social Sciences, Deep and Deep Publication,New Delhi.
9. Gupta S.P.and Gupta M.P.(2005), Business Statistics, Sultan Chand & Sons, New Delhi
10. Gupta C.B.(1996), An Introduction to Methods, Vikas Publication House,New Delhi.
11. देशमुख राम (जून 2005) : 'मूलभूत सांख्यिकी', विद्या प्रकाशन, नागपूर.
12. पाटील ज.फा., पठाण के.जी., ताम्हणकर पी.जे., संतोष यादव (2012) : 'अर्थशास्त्रीय संशोधनाची तोंडओळख', (सुधारित आवृत्ती), कॉन्टिनेंटल प्रकाशन, पुणे.
13. आगलावे प्रदीप (जानेवारी 2000) : 'संशोधन पध्दतीशास्त्र व तंत्रे', विद्या प्रकाशन, नागपूर.
14. खैरनार दिलीप (फेब्रुवारी 2009) : 'प्रगत सामाजिक संशोधन पध्दती व सांख्यिकी', डायमंडपब्लिकेशन्स, पुणे.
15. भांडारकर पु.ल. (1987) : 'सामाजिक संशोधन पध्दती', महाराष्ट्र विद्यापीठ ग्रंथनिर्मिती मंडळ, नागपूर.

## **B. A. III Economics (Semester VI) (CBCS Pattern)**

### **Economics of Planning** (Elective Course- 13) DSE – E 197

**Course Outcomes:** After successful completion of this course, the students will be able to:

- Get acquainted with economic planning and its importance in development
- Get acquainted with development of planning and planning machinery in India
- Evaluate sectoral performance of the Indian economy
- Compare and analyse Indian models of economic development

#### **Module- I: Introduction to economic planning (Teaching Hours- 15, Credits- 01)**

- 1.1 Meaning, Case for and against economic planning
- 1.2 Genesis of planning
- 1.3 Types of planning
- 1.4 Conditions of success of planning

#### **Module- II: Issues in economic planning (Teaching Hours- 15, Credits- 01)**

- 2.1 The choice of techniques: labour and capital intensive
- 2.2 Capital output ratio: Importance and factors affecting COR
- 2.3 Input output analysis
- 2.4 **Project** evaluation

#### **Module- III: Planning in India- I (Teaching Hours- 15, Credits- 01)**

- 3.1 Evolution of planning in India
- 3.2 Objectives and evaluation of planning
- 3.3 Planning Commission and National Development Council
- 3.4 NITI Ayog- Need for establishment, organization, objectives and work

#### **Module- IV: Planning in India- II (Teaching Hours- 15, Credits- 01)**

- 4.1 Plan models in Indian plans
- 4.2 Agricultural development under plans
- 4.3 Industrial development under plans
- 4.4 Services sector development under plans

#### **BASIC READING LIST:**

1. Behrman, S. and T.N. Srinivasan (1995), *Handbook of Development Economics*, Vol. 1 to 3, Elsevier, Amsterdam. Economics 31
2. Hayami, Yujiro and Yoshihisa Godo (1997), *Development Economics*, Oxford University Press, New York.
3. Kindleberger, C.P. (1965), *Economic Development*, 3e, McGraw Hill, New York.
4. Meier, Gerald M. and James E. Rauch (2005), *Leading Issues in Economic Development*, 6e, Oxford University Press, New Delhi.
5. Myint, Hla (1971), *Economic Theory and Under Developed Countries*, Oxford University Press, New York.
6. Thirlwall, A.P. (1999), (6th Edition), *Growth and Development*, Macmillan, London.



7. Bhagwati, J. and P. Desai (1970), *India : Planning for Industrialization*, Oxford University Press, London.
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10. Datta Gaurav and Ashwini Mahajan (2016), *Indian Economy*, S. Chand Publishing, New Delhi
11. Chakravarty, Sukhamoy (1987), *Development Planning : The Indian Experience*, Clarendon Press, Oxford.
12. Jhingan, M.L. ( 2005) *The Economics of Development and Planning* , Vrinda Publications Ltd. Delhi
13. Lekhi, R.K. ( 2005) *Economics of Development and Planning*, Kalyani Publishers, Delhi.
14. Patil, J. F. ( et al) (2005) *Economics of Growth and Development* (Marathi) , Phadake Publishers, Kolhapur.
15. Patil, J.F. & Tamhankar, P.J. (1990) *Economics of Development and Planning* (Marathi), Continental Publishers, Pune.

## **B. A. III Economics (Semester VI) (CBCS Pattern)**

### **International Economics- II**

(Elective Course- 14) DSE – E 198

**Course Outcomes:** After successful completion of this course, the students will be able to:

- Distinguish between balance of trade and balance of payments
- Analyse the balance of payments
- Understand the various types of foreign capital
- Analyse the impact of international institutions on Indian economy

#### **Module- I: Balance of Trade and Balance of Payments(Teaching Hours- 15, Credits- 01)**

- 1.1 Balance of Trade and Balance of Payments
- 1.2 Importance of Balance of Payments
- 1.3 Disequilibrium in Balance of Payments: Causes and Consequences
- 1.4 Measures to correct disequilibrium in Balance of Payments

#### **Module- II: Foreign Trade of India since 1991 (Teaching Hours- 15, Credits- 01)**

- 2.1 Volume, composition and direction
- 2.2 Exim Policy of 2014-19
- 2.3 Trade administration of India
- 2.4 Convertibility of Rupee: Meaning and types.

#### **Module- III: Foreign Capital in India (Teaching Hours- 15, Credits- 01)**

- 3.1 Need for Foreign Capital
- 3.2 Types of Foreign Capital
- 3.3 Foreign Capital Policy of Government of India
- 3.4 Trends in Foreign Direct Investment in India

#### **Module- IV: International Institutions and India (Teaching Hours- 15, Credits- 01)**

- 4.1 IMF: Objectives and Functions
- 4.2 IBRD: Objectives, Functions
- 4.3 ADB: Objectives, Functions
- 4.4 WTO: Objectives, Functions

#### **BASIC READING LIST:**

- 1 Aggarwal, M. R. (1979), Regional Economic Cooperation in South Asia, S. Chand and Co., New Delhi.
- 2 Bhagwati, J. (Ed.) (1981), International Trade, Selected Readings, Cambridge University Press, Mass.
- 3 Crockett. A. (1982), International Money: Issue and Analysis, ELBS and Nelson, London.

- 4 Greenaway. D. (1983), International Trade Policy, MacMillan Publishers Ltd., London.
- 5 Heller, H. R. (1968), International Monetary Economics, Prentice Hall. India.
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- 11 Nayyar,D. (1976) : India's Exports and Export Policies in the 1960s, Cambridge University Press, Cambridge.
- 12 Panchmukhi, V. R. (1978), Trade Policies of India: A Quantitative Analysis, Concept University Press, Delhi.
- 13 Patel, S. J. (1995), Indian Economy Towards the 21st Century, University Press Ltd., India.
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- 15 Salvatore, D. L. (1997), International Economics, Prentice- Hall, Upper Saddle River, N. J.
- 16 Singh, M. (1964), India Export Trends and the Prospects for Self-sustained Growth, Oxford University Press, Oxford.
- 17 Sodersten, Bo (1991), International Economics, MacMillan Press Ltd. London

## **B. A. III Economics (Semester VI) (CBCS Pattern)**

### **Research Methodology in Economics- II**

(Elective Course- 15) DSE – E - 199

**Course Outcomes:** After successful completion of this course, the students will be able to:

- Understand the sampling techniques as a method of data collection
- Use techniques of data analysis in research
- Write a research report and thesis
- Write a research proposal (grants)

#### **Module- I: Sampling (Teaching Hours- 15, Credits- 01)**

- 1.1 Meaning and nature
- 1.2 Types of sampling
- 1.3 Criteria of good sampling
- 1.4 Optimum size of sampling

#### **Module- II: Processing and representation of data (Teaching Hours- 15, Credits- 01)**

- 2.1 Classification of data
- 2.2 Tabulation of data
- 2.3 Percentage
- 2.4 Graphs and diagrams

#### **Module- III: Techniques of data analysis (Teaching Hours- 15, Credits- 01)**

- 3.1 Need and importance of data analysis
- 3.2 Measures of central tendency: mean, mode, median (direct method)
- 3.3 Measures of variation: range, standard deviation (direct method)
- 3.4 Correlation- meaning and importance, Karl Pearson's coefficient of correlation

#### **Module- IV: Interpretation of data and report writing (Teaching Hours- 15, Credits- 01)**

- 4.1 Interpretation of data: meaning
- 4.4 Report writing: meaning, steps, precautions
- 4.5 Properties of good report writing
- 4.4 Writing a good research proposal

**BASIC READING LIST:**

1. Goode and Hatt (1981), Methods in Social Research, McGraw Hill International Book Company, New Delhi.
2. Kerliger F.N.(1983), Foundation of Behavioural Research, Surjeet Publication, Delhi.
3. Young P. V.(1960), Scientific Social Survey and Research, Asia Publication House, Mumbai.
4. Kothari C.R. (1993), Research Methodology-Methods and Techniques, Wiley Eastern Ltd., New Delhi.
5. Lundbrg G.A.(1960), Social Research, Longmans Green and Company, New York.
6. Herekar P .M.(2019), Research Methodology and **Project** Work, Phadake Prakashan, Kolhapur.
7. Settiz Claire, Jahoda Marie and Others(1959), Research Methods in Social Research, Dryden New York.
8. Takur Dvendra (1997), Research Methodology in Social Sciences, Deep and Deep Publication, New Delhi.
9. Gupta S.P. and Gupta M.P.(2005), Business Statistics, Sultan Chand & Sons, New Delhi
10. Gupta C.B. (1996), An Introduction to Methods, Vikas Publication House, New Delhi.
11. देशमुख राम (जून 2005) : 'मूलभूत सांख्यिकी', विद्या प्रकाशन, नागपूर.
12. पाटील ज.फा., पटाण के.जी., ताम्हणकर पी.जे., संतोष यादव (2012) : 'अर्थशास्त्रीय संशोधनाची तोंडओळख', (सुधारित आवृत्ती), कॉन्टिनेंटल प्रकाशन, पुणे.
13. आगलावे प्रदीप (जानेवारी 2000) : 'संशोधन पध्दतीशास्त्र व तंत्रे', विद्या प्रकाशन, नागपूर.
14. खैरनार दिलीप (फेब्रुवारी 2009) : 'प्रगत सामाजिक संशोधन पध्दती व सांख्यिकी', डायमंड पब्लिकेशन्स, पुणे.
15. भांडारकर पु.ल. (1987) : 'सामाजिक संशोधन पध्दती', महाराष्ट्र विद्यापीठ ग्रंथनिर्मिती मंडळ, नागपूर.



SHIVAJI UNIVERISTY, KOLHAPUR-416 004. MAHARASHTRA

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शिवाजी विद्यापीठ, कोल्हापूर – 416004.

दुरध्वनी (ईपीएवीएक्स) २६०९००० (अभ्यास मंडळे विभाग- २६०९०९४)

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

SU/BOS/6060

Date:- 19/06/2019

To,

**The Principal,**  
All Affiliated Colleges/Institutes,  
Shivaji University,  
Kolhapur

Subject: Regarding syllabi of **Environmental Studies for all under graduate degree Programme Part – II** of all faculties.

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 syllabi of **Environmental Studies for all under graduate degree programme Part – II** of all faculties.

The concerned syllabi shall be implemented from the academic year 2019-20 (i.e. from June, 2019) onwards. All these syllabi are also made available on University website [www.unishivaji.ac.in](http://www.unishivaji.ac.in).

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

Thanking you,

Yours faithfully,

Dy Registrar

Copy to:

1) I/c Dean, All Faculty	6) B.Sc. Section
2) Chairman, Ad-hoc Board of Environmental Studies	7) Computer Centre
3) Appointment Section	8) P.G.Admission
4) Affiliation Section	9) P.G.Seminar.
5) Eligibility Section	.....

# **SHIVAJI UNIVERSITY, KOLHAPUR.**



**Accredited By NAAC with 'A' Grade**

**Syllabus of Environmental Studies**

**As a Compulsory Paper for all  
Undergraduate Programme**

**(To be implemented from academic year 2019)**

**Shivaji University, Kolhapur**  
**Syllabus of Environmental Studies**  
**as a Compulsory Paper for all Undergraduate Courses**  
**2019-20**

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**Unit 1. Nature of Environmental Studies :**

**(3 lectures)**

Definition, scope and importance.

Multidisciplinary nature of environmental studies

Need for public awareness.

Concept of sustainability. Sustainable development and it's goals with Indian context.

**Unit 2. Ecosystems :**

**(9 lectures)**

Concept of an ecosystem.

Structure and function of an ecosystem.

Producers, consumers and decomposers.

Energy flow in the ecosystem.

Ecological succession.

Food chains, food webs and ecological pyramids.

Introduction, types, characteristics features, structure and function of the following ecosystem :-

a) Forest ecosystem, b) Grassland ecosystem, c) Desert ecosystem,

d) Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)

Degradation of the ecosystems and it's impacts.

**Unit 3. Natural Resources and Associated Problems :**

**(8 lectures)**

- a) Forest resources: Use and over-exploitation, deforestation, dams and their effects on forests and tribal people.
- b) Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams-benefits and problems.
- c) Mineral resources: Usage and exploitation. Environmental effects of extracting and using mineral resources.
- d) Food resources: World food problem, changes caused by agriculture ,effect of modern agriculture, fertilizer-pesticide problems.
- e) Energy resources: Growing energy needs, renewable and non- renewable energy resources, use of alternate energy sources. Solar energy , Biomass energy, Nuclear energy,
- f) Land resources: Land as a resource, land degradation, man induced landslides, soil erosion and desertification. Consumerism ,ecological foot prints, carbon foot prints, carbon credits.

Role of an individuals in conservation of natural resources. Equitable use of resources for sustainable lifestyles.



**Unit 4. Biodiversity and its conservation : (8 lectures)**

Introduction- Definition: genetic, species and ecosystem diversity.  
 Bio-geographical classification of India.  
 Value of biodiversity: consumptive use, productive use, social, ethical, aesthetic and option values.  
 India as a mega- diversity nation.  
 Western Ghat as a biodiversity region. Hot-spots of biodiversity.  
 Threats to biodiversity: habitat loss, poaching of wildlife, man- wildlife conflicts,  
 Endangered and endemic species of India, Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity. Convention on Biological Diversity.

**Unit 5. Environmental Pollution : (8 lectures)**

Definition: Causes, effects and control measures of: Air pollution,  
 Water pollution, Soil pollution, Marine pollution, Noise pollution, Thermal pollution,  
 Nuclear hazards.  
 Global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust.  
 Solid waste Management: Causes, effects and control measures of urban and industrial wastes. Solid waste management control rules.  
 Role of an individual in prevention of pollution.

**Unit 6. Social Issues and the Environment : (9 lectures)**

Human population growth, impact on environment. Human Health and welfare.  
 Environmental ethics: Role of Indian religious traditions and culture in conservation of the environment.  
 Environmental movements- Chipko Movement, Appiko Movement, Silent Valley.  
 Resettlement and rehabilitation of people; its problems and concerns.  
 Water conservation, rain water harvesting, watershed management. water conservation by Dr.Rajendra Singh, Anna Hazare etc.  
 Disaster management: floods, earthquake, cyclone, tsunami and landslides.  
 Wasteland reclamation.  
 Environmental communication and public awareness, case studies.

**Unit 7. Environmental Protection- Policies and practises : (5 lectures)**

Environmental Protection Act.  
 Air (Prevention and Control of Pollution) Act.  
 Water (Prevention and control of Pollution) Act  
 Wildlife Protection Act  
 Forest Conservation Act  
 National and International conventions and agreements on environment.

**Unit 8. Field Work :****(10 lectures)**

Visit to a local area to document environmental assets-

River/forest/grassland/hill/mountain.

or

Visit to a local polluted site – Urban/Rural/Industrial/Agricultural

or

Study of common plants, insects, birds.

or

Study of simple ecosystems - ponds, river, hill slopes, etc.

(Field work is equal to 10 lecture hours)

**References :**

- 1) Agarwal, K.C.2001, Environmental Biology, Nidi Pubi. Ltd., Bikaner.
- 2) Bharucha Erach, The Biodiversity of India, Mapin Publishing pvt. Ltd.,Ahmedabad 380013, India, Email:mapin@icenet.net (R)
- 3) Brunner R.C.,1989, Hazardous Waste Incineration, McGraw Hill Inc., 480p
- 4) Clank R.S. Marine Pollution, Clanderson Press Oxford (TB)
- 5) Cunningham, W.P. Cooper, T.H.Gorhani, E. & Hepworth, M.T.2001,
- 6) Environmental Encyclopedia, Jaico Publ. Hpise, Mumbai, 1196p
- 7) De A.K., Environmental Chemistry, Wiley Wastern Ltd.
- 8) Down to Earth , Cebtre fir Scuebce and Environment (R)
- 9) Gleick, H.,1993, Water in crisis, Pacific Institute for studies in Dev.,Environment & Security. Stockholm Env. Institute. Oxford Univ. Press 473p
- 10) Hawkins R.e., Encyclopedia of Indian Natural History, Bombay Natural History Society, Bombay (R)
- 11) Heywood, V.H.& Watson, R.T.1995, Global Biodiversity Assessment,Cambridge Univ. Press 1140p.
- 12) Jadhav, H.& Bhosale, V.M.1995, Environmental Protection and Laws, Himalaya Pub. Hcuse, Delhi 284p.
- 13) Mickinney, M.L.& School. R.M.1196, Environmental Science Systems & Solutions, Web enhanced edition, 639p.
- 14) Mhaskar A.K., Mastter Hazardous, Techno-Science Publications (TB)
- 15) Miller T.G.Jr., Environmental Science. Wadsworth Publications Co. (TB)
- 16) Odum, E.P.1971, Fundamentals of Ecology, W.B.Saunders Co. USA, 574p.
- 17) Rao M.N.& Datta, A.K.1987, Waste Water Treatment, Oxford & IBH Publ. Co. Pvt. Ltd., 345p
- 18) Sharma B.K., 2001, Environmental Chemistry, Gokel Publ. Hkouse, Meerut
- 19) Survey of the Environment, The Hindu (M)
- 20) Townsend C., Harper, J. and Michael Begon, Essentials of Ecology, Blackwell Science (TB)
- 21) Trivedi R.K. Handbook of Environmental Laws, Rules, Guidelines, Compliances and Standards, vol. I anfd II, Environmental Media (R)
- 22) Trivedi R.K. and P.K. Gokel, Intriduction to air pollution, Tecgbi-Science Publications (TB)
- 23) Wagner K.D.,1998, Environmental management, W.B. Saunders Co.Philadelphia, USA 499p.
- 24) Paryavaran shastra – Gholap T.N.
- 25) Paryavaran Sahastra – Gharapure  
M) Magazine (R) Reference (TB) Textbook

# SHIVAJI UNIVERSITY, KOLHAPUR

## SYLLABUS

For

**M.Sc. Botany**

(Semester Pattern)

**Sem. III to IV**



Estd. 1962

NAAC 'A' Grade

Choice Based Credit System  
(CBCS)

To be implemented From

**June, 2020 onwards**

A) Syllabus for the Semester System Examination (Choice Based Credit System) w.e.f. June 2019 for M.Sc. Part-I (Semester I & II) R. No. ....dated .... .....and for M. Sc. Part-II (Semester III & IV) R. No..... dated..... from June 2020.

B) Shivaji University Kolhapur, New Revised syllabus for Master of Science in Botany.

**1.Title : M. Sc. BOTANY REVISED SYLLABUS (Choice Based Credit System)**

**2.Faculty of Science and Technology**

**3. Year of Implementation –**

M.Sc.I- June 2019

M.Sc.II- June 2020

**4. Preamble :**

**5. General objectives of course:**

**a: Programme outcomes:**

1. Rational thinking: To check assumptions for their accuracy and validity
2. Biodiversity awareness: Understand the local and global issues of environment and its sustainable development.
3. Continuous learning: ability to engage independently on context of human society and technological changes.
4. Solving problems related to food scarcity.

**b: Course outcomes**

Working knowledge of the basic concepts of Botany i.e. cellular, ecological, molecular, physiological, ecological organizations and evolutionary biology of algae, fungi, bryophytes, pteridophytes, gymnosperms and angiosperms.

Students will learn several biophysical techniques such as electrophoresis, microscopy, biostatistics, bioinformatics, centrifugation, chromatography, spectroscopy, radioisotope, culture techniques.

Identification and understanding of basic concepts related diseases and several processes related to physiology, ecology, cell and molecular biology, biochemistry of plants under stress conditions.

Identification of classification of algae, fungi, bryophytes, Pteridophytes, gymnosperms, angiosperms, evolution of reproductive structures, phylogeny and interrelationship of the selected genus.

Understanding of basic concepts of population and how individuals of a population interact with the ecosystem.

Knowledge of plant pathology, identification of disease, their causal organisms, symptomology, defense mechanism of the selected diseases.

Study of organs, their development, experimental embryology, apomixes and its types, poly-embryony, experimental induction of poly-embryology, palynology and its role in horticulture, agriculture and oil exploration programs.

Understanding the processes of natural selection, migration, mutation, genetic drift and variation and application of this knowledge in crop improvement.

Acquisition of skills required for the production of disease free plants, development of hybrids, development of plants with novel traits. Intellectual property rights their importance, ecological risks and ethical concerns.

Commercial storage products, knowledge and value added structural components, information about active components.

**6** : The entire course of M. Sc. (Botany) will be of **four Semesters** spread over two years .

**7** : Pattern- M.Sc.I & M.Sc. II Theory semester and practical is Annual examination

**8** : Fee structure : As per university norms

**a.** Statutory University recognized as equivalent, and has kept four semester terms in the University as a post-graduate student be admitted to the degree of Master of Science in any of these subjects mentioned in R. M. Sc. No. 3.

**b.** A student shall be held eligible for admission to the M. Sc. Course provided he/she has passed the B. Sc. examination either with a principal subject or with a subsidiary/interdisciplinary/applied/ allied subjects and has passed the entrance examination conducted by the University.

**c.** The students with B. Sc. from other universities shall be eligible if they qualify through Entrance Examination and they score minimum 55 per cent B+ marks in the subject at the B. Sc.

**d.** While preparing the merit list for M. Sc. admission, the performance at B. Sc. III , B. Sc. II/ B.A. II, as the case may be, and the performance at the entrance examination will be given equal weight age (50.50).

**10:** Medium of Instruction –English

**11:** Structure of course:

There shall be **four theory courses** and **four practical courses** in every semester.

Each theory course shall have four units and each practical course shall have two units (based on the theory).

Department of Botany shall offer **one Generic elective paper** each of 50 marks for the students of other PG departments of the University. Generic Elective paper shall consist of two units having 30 lectures and will be available to PG Part-II students during Semester IV. **The decision regarding the admission to such other departmental students will be made by the Departmental Committee**

The Department offers following specializations<sup>#</sup> at M. Sc. II (Semester III and IV).

- Plant Physiology
- Mycology and Plant Pathology
- Cytogenetics and Plant Breeding
- Energy, Ecology and Environment
- Angiosperm Taxonomy
- Marine Botany
- Plant Biotechnology
- Palaeobotany (Presently suspended)

## 12. Scheme of teaching and Examination

Each unit in theory course shall comprise 15 lectures each of 60 minutes duration and there shall be four lectures per theory course per week. There shall be one practical (not less than three hours duration) for each theory course per week. Library/Reference-work/Excursion/Field work/Seminar/Group Discussion/**Project** work shall also be organized in every week.

**13. Standards of Passing:** Passing of each theory papers and internal examination is separately. It required 32 marks for theory paper and 8 marks for internal examination and for practical exam 20 marks are necessary out of 50.

## 14. Nature of Question paper and scheme of marking:

Entire course of M. Sc. Botany will be of **2400** marks. The Ist and IIIrd Semester will be of 800 marks and Sem. II and IV will be 1600 marks ( 800 marks for theory papers and 400 marks for practical for Sem. II and 400 marks for sem. IV).

Examination of each **theory course** shall be of **100 marks** [80 (university examination) + 20 (internal examination)]. University examination of 80 marks (03 hours duration) will be conducted at the end of each Semester. Internal examination of 20 marks (comprising 20 multiple choice questions) will be conducted before the semester examination during each semester. Each practical course examination will be based on the respective theory course and will be of **200 marks**. Duration of university practical examination shall be of five hours. The question paper of theory course (80 marks) will consist of seven questions, carrying 16 marks each, of which the student shall have to attempt **five** questions. The last question will be **compulsory** consisting of short answer type questions. The types of questions and their distribution will be as follows:

- i) Descriptive or essay type questions (50 – 60 %)

ii) Short answer type questions (20 – 30 %)

Examination :

Theory : 1 Internal Marks: 20 per paper theory

2 External Marks: 80 per theory paper (examination at the end of semester)

Practical: A total 800 marks examination will be conducted for practical courses at the end of 2<sup>nd</sup> semester (400 marks practical examination will be conducted) and at the end of 4<sup>th</sup> semester (350 marks examination will be conducted and 50 marks for **project** evaluation).

**Project** work Evaluation: By Internal and External Examiner at the end of Fourth Semester.

**15. Equivalence according with Titles and contents of papers**

<b>MSc II Semester III</b>	
<b>Old Titles</b>	<b>New Equivalence Titles</b>
Paper IX: Cytogenetics and Crop Breeding	CCS-301: Cytogenetics and Crop breeding
Paper XI : XI) Advanced plant physiology and Plant biochemistry XI) Taxonomy of Fungi XI) Cytogenetics XI) Environment and its aspects XI) The Evolution and Classification of Angiosperms XI) General Marine Botany XI) Plant Tissue culture	CCS -302: CCS 302.1- Advanced plant physiology and Plant biochemistry CCS 302.2- Taxonomy of Fungi CCS 302.3- Cytogenetics CCS 302.4- Environment and its aspects CCS 302.5- The Evolution and Classification of Angiosperms CCS 302.6- General Marine Botany CCS 302.7- Plant Tissue culture
Paper XII: XII) Plant Growth and Development Integrated XII) Disease management XII) Plant Breeding XII) Population and Community Ecology XII) Modern trend in Angiosperm Taxonomy XII) Physiology and biochemistry of Marine Plants XII) Molecular Biotechnology and Genetic engineering	CCS-303: CCS 303.1- Plant Growth and Development CCS 303.2- Integrated Disease management CCS 303.3- Plant Breeding CCS 303.4- Population and Community Ecology CCS 303.5- Modern trend in Angiosperm Taxonomy CCS 303.6- Physiology and biochemistry of Marine Plants CCS 303.7- Molecular Biotechnology and Genetic engineering
Paper X: Biotechnology and Genetic engineering	DSE-304: Biotechnology and Genetic Engineering
	CCPR-305: Practical (CCS-301, CCS-302, CCS-303, DSE-304)
	Non CGPA AEC-306
<b>MSc II Semester IV</b>	
Paper XIII: Plant Physiology and Metabolism	CC-401: Plant Physiology and Metabolism



<p>Paper XV:</p> <p>XV) Stress Physiology of Plants</p> <p>XV) Industrial Mycology</p> <p>XV) Molecular Genetics</p> <p>XV) Experimental Ecology and Energy Studies</p> <p>XV) Angiosperm Taxonomy Floristic and Biosystematics</p> <p>XV) Marine Ecology</p> <p>XV) Application and Prospects of Plant Tissue culture</p>	<p>CCS-402:</p> <p>CCS 402.1-Stress Physiology of Plants</p> <p>CCS 402.2- Industrial Mycology</p> <p>CCS 402.3-Molecular Genetics</p> <p>CCS 402.4-Experimental Ecology and Energy Studies</p> <p>CCS 402.5-Angiosperm Taxonomy Floristic and Biosystematics</p> <p>CCS 402.6-Marine Ecology</p> <p>CCS 402.7-Application and Prospects of Plant Tissue culture</p>
<p>Paper XVI:</p> <p>XVI) Applied Plant Physiology</p> <p>XVI) Integrated Disease Management</p> <p>XVI) Special Approaches in Genetic improvements of Crop plants.</p> <p>XVI) Environmental issues, assessment and Restoration</p> <p>XVI) Phylogeny and Floral Biology of Angiosperms</p> <p>XVI) Applied Marine Botany</p> <p>XVI) Application, Regulation and Patenting Biotechnology</p>	<p>CCS 403:</p> <p>CCS 403.1- Applied Plant Physiology</p> <p>CCS 403.2- Integrated Disease Management</p> <p>CCS 403.3- Special Approaches in Genetic improvements of Crop plants.</p> <p>CCS 403.4- Environmental issues, assessment and Restoration</p> <p>CCS 403.5- Phylogeny and Floral Biology of Angiosperms</p> <p>CCS 403.6-Applied Marine Botany</p> <p>CCS 403.7-Application, Regulation and Patenting Biotechnology</p>
<p>Paper XIV: Biodiversity : Conservation and Utilization</p>	<p>DSE 404: Biodiversity: Conservation and Utilization</p>
	<p>CCPR 405: Practical (401,402,403,DSE 404)</p>
	<p>Non CGPA- SEC:406</p> <p>GE-407-Horticulture and Green House Technology</p>

16. **Special instruction if any:** NA

17. **Table (Detailed titles of paper).**

<p><b>M. Sc. II Sem III</b></p> <p>CCS-301: Cytogenetics and Crop breeding</p>
<p>CCS -302:</p> <p>CCS 302.1- Advanced plant physiology and Plant biochemistry</p> <p>CCS 302.2- Taxonomy of Fungi</p> <p>CCS 302.3- Cytogenetics</p> <p>CCS 302.4- Environment and its aspects</p> <p>CCS 302.5- The Evolution and Classification of Angiosperms</p> <p>CCS 302.6- General Marine Botany</p> <p>CCS 302.7- Plant Tissue culture</p>
<p>CCS-303:</p> <p>CCS 303.1- Plant Growth and Development</p>

CCS 303.2- Integrated Disease management  
CCS 303.3- Plant Breeding  
CCS 303.4- Population and Community Ecology  
CCS 303.5- Modern trend in Angiosperm Taxonomy  
CCS 303.6- Physiology and biochemistry of Marine Plants  
CCS 303.7- Molecular Biotechnology and Genetic engineering  
DSE-304: Biotechnology and Genetic Engineering

**M.Sc II Sem IV**

CCS-402:  
CCS 402.1-Stress Physiology of Plants  
CCS 402.2- Industrial Mycology  
CCS 402.3-Molecular Genetics  
CCS 402.4-Experimental Ecology and Energy Studies  
CCS 402.5-Angiosperm Taxonomy Floristic and Biosystematics  
CCS 402.6-Marine Ecology  
CCS 402.7-Application and Prospects of Plant Tissue culture

CCS 403:  
CCS 403.1- Applied Plant Physiology  
CCS 403.2- Integrated Disease Management  
CCS 403.3- Special Approaches in Genetic improvements of Crop plants.  
CCS 403.4- Environmental issues, assessment and Restoration  
CCS 403.5- Phylogeny and Floral Biology of Angiosperms  
CCS 403.6-Applied Marine Botany  
CCS 403.7-Application, Regulation and Patenting Biotechnology  
DSE 404: Biodiversity, Conservation and Utilization

CCPR 405: Practical (401,402,403,DSE 404)

Non CGPA- SEC:406

GE-407-Horticulture and Green House Technology

18. Recommended reading material:

**C. Other features:**

**1. Intake capacity/Number of Students: 50**

**2. Library and Laboratory equipments**

**D General Guidelines:**

Schlegel, H. G.1995. General microbiology. Cambridge University Press.

Trehan, K.1994.Biotechnology.Wiley Eastern Ltd. New Delhi.

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**M. Sc. PART-II (SEMESTER IV)**

(CCS403.1): Plant Physiology

**(SPECIAL PAPER IV) APPLIED PLANT PHYSIOLOGY**

**Total Lectures: 60**

**UNIT I:**

**Crop growth and its regulation:** Growth analysis of crop plants and its significance. Factors controlling crop productivity, Harvest Index (HI), Water Use Efficiency (WUE). [5]

**Nutriophysiology:** Foliar diagnosis of critical nutrient status. Applications of lime and gypsum lime as soil additives. Role of chelates in mineral utilization. Foliar applications of mineral elements. Biofertilizers, CO<sub>2</sub> as a fertilizer. [10]

**UNIT II:**

**Reproductive physiology:** Role of PGRs in flowering, sex determination and fruit development. Ethylene and post harvest physiology. [9]

Source-Sink capacity in crop plants and its significance. [6]

**UNIT III**

**Plant growth regulators in agriculture and horticulture:** Mode of applications of PGR's

Pre sowing soaking treatment, foliar application and other modes

**Roles:** Ethylene and ethylene generating compounds, long chain alcohols, Brassinosteroids, plant growth retardants, amino acid mixtures and other commercial products. Biotonics. [15]

**UNIT IV:**

Invading weeds, crop-weed interaction, weedicides and their mode of action [8]

Physiological aspects of transgenic crops. [4]

A brief idea of crop physiological research in India. [3]

**CCPR 405.3.1 : PLANT PHYSIOLOGY PAPER XVI: PRACTICAL COURSE IV**

**Project** work based on special papers.

**Reference Books:-**

- Asana, R.D. and Sarin, M.N. (1968)** Crop physiology in India. Tech. Bull. 16.  
Indian Coun. Agric. Res. (Agric. Ser.)
- Buchnan, B.B., Gruissem, W. And Jones, R.L. (2000)** Biochemistry and Molecular Biology of  
Plants. Wiley-Blackwell
- Evans, L.T.(1972):** Crop Physiology. Some Case Histories. Cambridge, NY
- Fageria, N. K. (1992):** Maximizing crop yield. CRC Press
- Fitter, A.H. and R.K.M. Hay (1987)** Environmental Physiology of Plants.(Second Edition)  
Academic Press, San Diego, CA
- Gupta U.S. (1988)** Progress in Crop Physiology. Oxford and IBH. Pub. Co.
- Gupta U.S. (1995)** Production and Improvements of Crops for Drylands. Oxford and IBH. Pub.  
Co.
- Krishnamurthy, H.N. (1992):** Physiology of Plant Growth and Development. Atma Ram and  
Sons, Delhi.
- Nickell, L.G. (1982)** Plant Growth Regulators- Agricultural Uses. Springer-Verlag,New York
- Pessarakli, M. (Ed.). (2001).** Handbook of Plant and Crop Physiology, 2nd Edition, Revised and  
Expanded. Marcel Dekker, Inc., New York
- Taiz, L. and Zeiger, F. (1998, 2002, 2008):** The Plant Physiology. (Second Edition 1998,  
Third Edition 2002, Fourth Edition 2008) Sunderland: Sinauer Associates.

### **Journals**

- Annual Review of Plant Physiology and Molecular Biology.
- Annual Review of Plant Physiology
- Indian Journal of Plant Physiology.
- Journal of Experimental Botany.
- Physiologia Plantarum Sweden.
- Plant Physiology (Bethesda, USA).
- Plant Cell.
- .....

**M. Sc. PART-II (SEMESTER IV)**

(CCS403.2): Mycology and Plant Pathology

**(SPECIAL PAPER IV) INTEGRATED DISEASE MANAGEMENT**

**Total Lectures: 60**

**UNIT I:**

**Methods of disease diagnosis:** Field observation, isolation and identification of Pathogens.

[5]

**Integrated management of plant diseases:** Definition of IDM, international approach, Quarantine laws, Culture methods, avoidance of pathogen, breeding and use of disease resistant varieties. Seed certification.

[10]

**UNIT II:**

Chemical methods, formulation and classification of fungicides, contact and systemic fungicides, uptake and mode of action. Seed, soil, plant treatments of fungicides, fungicide resistance in plant pathogens and their management. Antibiotics and biological control of plant pathogenic fungi. Biological control agents, VA-Mycorrhiza, *Trichoderma viride*, *T. harzianum*, *Pseudomonas fluorescens*, *Glomus* spp. Use of botanicals and other biopesticides.

[15]

**UNIT III:**

**Integrated management of some important diseases-**History, symptomology, pathogen, etiology and management: Jowar (Head and Grain smut), Bajara (Green ear), Wheat (Rust and Bunt), Rice (Blast), Groundnut (Leaf spot and Rust), Sunflower (Downy mildew), Soybean (Mosaic), Cotton (Angular leaf spot).

[15]

**UNIT IV:**

**Integrated management of some important diseases-**Sugarcane (Whip smut and Grassy shoot), Banana (Blight), Citrus (Canker), Grapes (Powdery mildew, Anthracnose, Downy mildew), Pigeon pea (Wilt), Bhendi (Yellow vein mosaic virus), Potato (Early and late blight), Tomato (Early blight).

[15]

**CCPR 405.3.2: MYCOLOGY AND PLANT PATHOLOGY PAPER XVI: PRACTICAL COURSE IV**

**Project work based on special papers.**

**References Books:**

**Lalithakumari D.** (2000). Fungal Protoplast: A Biotechnological Tool: Oxford and IBH Publishing Co. Pvt.Ltd.

**Mathews, R. E. F.** (1970). Plant Virology. Academic Press, New York

**Tilak, S.T.** (1998). Aerobiology. Satyajeet Prakashan

**Kenneth M. Smith** (1968). Plant Viruses. Academic Press, New York

**Bawden, F. C.** (1964). Plant Viruses and Virus Diseases. Biotech Books, New Delhi

**Mehrotra, R. S.** (1980). Plant Pathology Tata McGraw-Hill Publishing Company Ltd.

**Agrios, G. N.** (2006). Plant Pathology (5th Edition). Academic Press, New York

**Ny Vall, R. F.** (1979). Field Crop Diseases Handbook. Wiley

**Singh, R. S.** (1963). Plant Diseases.—

**Padoley, S. K.** and **P. B. Mistry:** A manual of Plant pathology. International Book House, New Delhi

**Gangopadhyay, S.** (1984): Clinical Plant Pathology Kalyani Publishers

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**M.Sc. PART-II SEMESTER IV**

(CCS403.3): Cytogenetics and Plant Breeding

**(SPECIAL PAPER IV) SPECIAL APPROACHES IN GENETIC IMPROVEMENT OF  
CROP PLANTS**

**Total Lectures: 60**

**UNIT I:**

Functional genomics: Genome annotation

RNA interference mechanism, synthesis and its applications, Virus induced gene silencing (VIGS), VIGS in plant genomic research

Transcriptomics and methods of transcriptome analysis

**UNIT II:**

Quantitative trait loci (QTL), Methods of QTL analysis by using molecular markers.

Mapping population (RIL, NILS, DH, back cross) their mechanism and development.

Bulk segregation analysis. Allele Mining for crop improvement: Approaches for allele mining, significance of novel alleles, applications of allele mining.

Marker assisted selection for crop improvement: Selection of markers, breeding schemes involved, gene pyramiding applications of MAS.

Epigenetics and Epigenomics for crop improvement

**UNIT III:**

Tissue Culture: Anther culture, production of haploids, embryo rescuing and its uses in crop improvement.

Production of secondary metabolites, cell line isolation, hairy root culture with some important secondary metabolite production and use of bioreactors

Production of biotic and abiotic resistant plants using tissue culture.

**UNIT IV:**

- Transgenics: a) Methods of gene transfer and its expression  
 b) Transgenic crops for biotic and abiotic stresses, nutritional quality improvement,  
 c) Transgenic crops field testing and regulatory measures

**CCPR 405.3.3. :CYTOGENETICS AND PLANT BREEDING PAPER XVI: PRACTICAL COURSE IV**

**Project work based on special papers.**

**Reference Books:**

- Thimmaiah S. R.** 1999, Standard methods of biochemical analysis. Kalyani Publishers Ludhiana.
- Mitra Sandhya** 1996, Genetic Engineering Macmillan India Ltd.
- Lal R. and Lal S.** 1993, Genetic engineering of plants for crop improvement. CRC Press.
- Winkler, U. Ruger W. and Wackernagel W.** 1979. Bacterial phage and molecular genetics. Narosa Publication New Delhi.
- Chawala H. S.** 2000 Introduction to Plant Biotechnology. Oxford and IBH Publishing Co. Pvt. Ltd.
- Vidhyashekar P.** 1993 Molecular biology and tissue culture for crop pest and disease management. Daya Publishing House New Delhi.
- Kumar U.** 2005 Methods in Plant Tissue culture Agrobios Jodhpur India.
- Razdan M. K.** 2003 Introduction to plant tissue culture. Oxford and IBH publishing Co. Pvt. Ltd.
- Gustafson J. P.** 1990 Gene manipulation in plant improvement I and II. Plenum Press London.
- Old R. W. and Primrose S. B.** 1989 Principles of Gene Manipulation. Blackwell Scientific Publ Oxford UK.
- Razdan M. K. and Cocking E.C.** 2000 Conservation of plant genetic resources in vitro. Oxford and IBH publishing Co. Pvt. Ltd.
- Razdan M. K. and Bhojwani S. S.** 1996, Plant tissue culture: Theory and practice a revised edition. Elsevier Science.
- Gupta P. K.** 2010 Plant Biotechnology. Rastogi Publications Meerut.
- Singh B. D.** 2003 Biotechnology Expanding Horizons. Kalyani publishers Ludhiana.
- Trigiano R. N. and Gray D. J.** 2000 Plant tissue culture concepts and laboratory exercises. CRS press LLC.
- Manibhushanrao K. and Mahadevan A.** 1996 Recent developments in biocontrol of plant pathogens. Today and Tomorrow's printers and publishers New Delhi.
- Reinert J. and Bajaj Y. P. S.** 2000 Plant cell, Tissue and Organ culture. Springer –Verlag. New York,

- Chrispeels M. J. and Sadava D. E.** 1994 Plants, Genes and Agriculture. Jones and Barlett Publishers Boston, USA.
- Gustafson J. P.** 2000 Genomes. Kluwer Academic Plenum Publishers New York USA.
- Brown T. A.** 1999 Genomes. John Wiley and Sons Pvt. Ltd. Singapore.
- Liu Ben Hui** 1998 Statistical Genomics :Linkage Mapping and QTL Analysis. CRC Press LLC Florida USA.
- Wennacker Ernst L.** 1987 From Genes to Clones; Introduction to Gene Technology VCH publishers Weinheim ( Federal Republic of Germany)
- Mount D. W.** 2001 Bioinformatics Sequence and Genome Analysis. Cold Spring Harbour Laboratory. New York.
- Jagota A.** 2000 Data Analysis and Classification for Bioinformatics. Published by Bioinformatics by the bay Press. University of Michigan, USA
- Durbin R, Sean R., Eddy, Anders Krogh, Graeme M.**1999 Biological Analysis-Probabilistic Models of Proteins and Nucleic Acids. Cambridge University Press.
- Andreas Baxevanis, B. F. Francis Ouellette and B. F. Cuellette** 1998 Bioinformatics : A Practical Guide to the analysis of Genes and Proteins, Wiley Publishers, New York

**Journals:**

1. Indian Journal of Biotechnology
  2. Indian Journal of Experimental Biology
  3. Journal of Experimental Botany
  4. Trends in Biotechnology (Elsevier)
  5. Trends in biochemical Sciences (Elsevier)
  6. Journal of Molecular Plant Pathology
  7. Journal of Plant Biotechnology
  8. International Journal of Food Science and Technology.
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**M.Sc. II PART- II (SEMESTER IV)**  
(CCS403.4): Energy, Ecology and Environment  
**(SPECIAL PAPER IV) ENVIRONMENTAL ISSUES, ASSESSMENT AND  
RESTORATION**

**Total Lectures: 60**

**UNIT I:**

**Air pollution:** Classification, Acidic precipitation, causes and consequences. Air pollution monitoring devices. [6]

**Water pollution:** Classification of water pollutants. Oxygen demanding pollutants and their activity. Pathogens, nutrients, salts, heat, heavy metals and pesticides. Radioactive and oil pollutants. Self-purification of natural streams. Oxygen sag analysis. [9]

**UNIT II:**

**Environmental issues:** Ozone – Positive and negative influence of ozone.

Air quality loss, nuclear winter, vehicular and industrial gases, global climate change [9]

**Land degradation:** Loss of soil fertility, mining etc [6]

**Unit III :**

**Environmental impact assessment:** Concept, scope and objectives of EIA, Biological monitoring programme, Bio indicators and environmental monitoring [6]

Remote sensing and GIS, Environmental impact assessment, Methodology, Component of EIA  
Environmental management India environmental law.[ 9]

**UNIT IV:**

**Natural resources:** Conservation and management of natural resources such as Water, Soil, Forest, Wildlife etc. [9]

**Recycling of natural resources,** Waste management, Waste disposal [4]

**Ecotourism and Eco-friendly measures:** Guideline, Sustainability of ecotourism [2]

**CCPR 405.3.4 : ECOLOGY PAPER XVI: PRACTICAL COURSE IV**

**Project work based on special papers.**

**Reference Books:**

**Adriano, D. C. and Johnson, A. H.** (1989): Acidic precipitation, vol. II. John Wiley Publishers.

**Balkrishnan, M., Borgstrom, R. and Bie, S. W.** (1994): Tropical Ecosystems. Oxford and IBH Publishing Co.

- Dash, M. C.** (1993): Fundamentals of Ecology. Tata Mc.Graw Hill Publishing Company Ltd. New Delhi.
- De, A. K.** (1994): Environmental Chemistry. New Age international publishers.
- Good, R. E. et al** (1978): Fresh water wetlands. Margraf Publishers.
- Gregory S.** (1988): Recent climatic changes: A regional approach. Kluwer Academic Publisher.
- Lal, J. B.** (1987): Environmental Conservation. Publisher: International Book Distributors.
- Misra K. C.** (1989): Manual of plant ecology. Oxford and IBH Publishing Co., New Delhi.
- Owen, M. and Black, J. M.** (1990): Waterfall Ecology. Blackie Publishers, Glasgow, Scotland.

### M. Sc. PART-II (SEMESTER IV)

(CCS403.5): Angiosperm Taxonomy

#### (SPECIAL PAPER IV) PHYLOGENY AND FLORAL BIOLOGY OF ANGIOSPERMS

**Total Lectures: 60**

#### UNIT I:

**Origin of Angiosperms:** Pre-cretaceous and Cretaceous fossil angiosperms, time of origin of angiosperms, cradle of angiosperms, probable ancestors of angiosperms- *Isoetes*-monocotyledon theory, Coniferales-amentiferae theory, Gnetales-angiosperm theory, Anthostrobilus theory, Caytonian theory, Stachyosporo-phylosperrmae theory, Pteridosperm theory, Pentoxylales theory and Durian theory, monophyletic verses polyphyletic origin of angiosperms. [9]

**Fossil Angiosperms of India:** A brief account of fossil angiosperms of India- Palmae: *Palmoxylon*, *Rhizopalmoxylon*, *Palmocarpon*; Cyclanthaceae: *Cyclanthodendron*, *Tricoccites*; Pandanaceae: *Viracarpon*; Musaceae: *Musa cardiospermum*; Gramineae: *Graminocarpon*; Sonnertiaceae: *Sonnertioxylon*, *Sonnertiorhizos*, *Sahnianthus*, *Enigmocarpon*; Guttiferae: *Indocarpa*, Myrtaceae: *Sahnipushpam*; Malvaceae: *Sahniocarpon*, *Harissocarpon*, *Daberocarpon*, *Chitaleypushpam*. Fossil angiosperms and palaeoecology of India. [6]

#### UNIT II:

**Floral Biology-I:** Evolution of flower, evolution of floral biology in basal angiosperms, co-evolution of flowering plant and insects, sex in flowers, sex distribution in plants, types of pollination, chasmogamy and cleistogamy; biology of floral parts-calyx, corolla, androecium, pollen, style and stigma. [15]

#### UNIT-III

**Floral Biology-II:** Anemophily, haydrophily, ornithophily, cheiropterophily, entomophily- beetle, fly, bee, wasp, *Catsetum*, fig wasp, butterfly, moth, carpenter bee pollination; floral diversity and evolutionary steps toward asclepiad flowers. [15]

#### **UNIT IV**

**Morphological variations, systematic position, interrelationships, phylogeny and economic importance of following families:** ASTERIDS-Convulvaceae, Boraginaceae, Rubiaceae, Apocynaceae, Oleaceae, Scrophulariaceae, Bignoniaceae, Lentibulariaceae, Verbenaceae, Lamiaceae [15]

#### **CCPR 405.3.5: ANGIOSERM TAXONOMY PAPER XVI: PRACTICAL COURSE IV**

**Project** work based on special papers.

#### **Reference Books:**

**Cronquist, A.** 1988. The Evolution and Classification of Flowering Plants (2nd ed.) Allen Press, U.S.A.

**Cronquist, A.** 1981. An Integrated System of Classification of Flowering Plants. Columbia University Press, New York.

**Davis, P. H. and V. H. Heywood.** 1991. Principles of Angiosperm Taxonomy. Today and Tommorrow Publications, New Delhi.

**Manilal, K. S. and M. S. Muktesh Kumar [ed.].** 1998. A Handbook of Taxonomic Training. DST, New Delhi.

**Naik, V. N.** 1984. Taxonomy of Angiosperms Tata McGraw-Hill Publication Com. Ltd. New Delhi.

**Quicke, Donald, L. J.** 1993. Principles and Techniques of Contemporary Taxonomy. Blakie Academic & Professional, London.

**Rao, R. R.** 1994. Biodiversity of India (Floristic Aspects). Bishen Singh Mahendra Pal Singh, Dehra-Dun.

**Taylor, D. V. and L. J. Hickey.** 1997. Flowering Plants: Origin, Evolution and Phylogeny. CBS Publishers & Distributers, New Delhi.

**Lawrence, G. H. M.** 1951. Taxonomy of Vascular Plants. Oxford and IBH Publ. Co. Pvt. Ltd. New Delhi .

**Shivanna, K. R. and B. M. Johri.** 1985. The Angiosperm Pollen: structure and Function. Wiley Eastern limited, New Delhi.

- Endress Peter, K.** 1994. Diversity and Evolutionary Biology of Tropical Flowers. Cambridge.
- Richard, A. J.** 1997. Plant Breeding Systems. (2ed.) Chapman and Hall.
- Nayar, M. P.** 1996. Hot Spots of Endemic Plants of India, Nepal and Bhutan. Tropical Botanica Gardens and Research Institute, Palode, Kerala
- Ahmedullah, M. and M. P. Nayar.** 1987. Endemic Plants of the Indian Region Vol I. Botanical Survey of India.
- Synge, Hugh (ed.).** 1980. The biological aspects of Rare Plant Conservation. John Wiley & Sons.
- Judd Walter S., Campbell C. S., Kellogg, E. A., Stevens, P.F. and M. J. Donoghue.** 2008. Plant Systematics. Sinauer Associates, INC, Publishers. Sunderland, Massachusetts, USA.
- Percival, M. S.** 1965. Floral Biology. Pergamon Press, London.

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**M. Sc. PART-II (SEMESTER IV)**

(CCS403.6): Marine Botany

**(SPECIAL PAPER IV) APPLIED MARINE BOTANY**

**Total Lectures: 60**

**UNIT I:**

**Primary Production:** Overview, GPP and NPP, Oceanic Production, effect of light and nutrients, Biomass harvesting/ harvest method, litter fall, chlorophyll method, gas exchange technique. Standing crop, light and dark bottle method, ecological indices. [8]

**Methods of Mangrove Analysis:** Collection by field methods- Transect, Quadrat, Phytosurvey. Geological Methods- Location, Elevation, Use of remote sensing technique in mapping of vegetation, Use of GPS. [7]

**UNIT II:**

**Collection and Preservation of Marine Algae:** Methods of collection, chemical preservation, herbarium technique. [3]

**Seaweed Mariculture:** Commercial cultivation of economic seaweeds, Scientific bases for seaweed mariculture, Techniques of seaweed mariculture- *Porphyra*, *Laminaria*, *Undaria*, *Kappaphycus*, *Gracilaria* etc Future prospects: [12]

**UNIT III:**

**Utilization of Seaweeds:** Human food, sea vegetables, fodder, fertilizer and manure, kelp industry, antibiotics and drugs, phycocolloids and their applications. Algal Products- Soda and Potash, Iodine, Trace elements. Use of algae as Bio fuel. [10]

**Laboratory Culture of Algae :** Use of natural and synthetic culture media, types of culture, requirements/conditions of growth, difficulties in getting axenic culture. [5]

#### UNIT IV:

**Coastal Bioresources:** Bioresource profile. Wild bioresources - food , feed, fodder, fire wood, timber, medicinal products, potential genetic resources, ornamentals. Domestic bioresources - crops, cereals, pulses, oil crops, horticultural crops, live stock, aquaculture, apiculture. [5]

**Nursery Techniques in Mangroves:** Nursery practices-collection of seed/ propagule/seeding material, storage, sowing of seeds, shading, watering, disease control and transplantation. [6]

**Mangrove Plantation Techniques:** Direct and indirect methods, zonation, season, gap filling, soil condition etc. [4]

#### CCPR 405.3.6: MARINE BOTANY PAPER XVI: PRACTICAL COURSE IV

##### **Project** work based on special papers.

#### Reference Books:

**Beck.** Biotechnology of Microalgae.

**Bhosale, L. J.**(2005). Mangroves of Maharashtra. (Field Guide). Shivaji University,Kolhapur.

**Chapman,V. J.** (1976). Costal Vegetation. II nd edition Pergamon Press. New York.

**Jackson. D. F.** (1972). Algae and Man. Plenum Press.

**Kannupandi, T.** (1998). Coral Reefs of India. State of Art Report. ENVIS Publication Series 2/98.

**Krishnamurthy, V.** (1985). Marine Plants. ( A.G. Untawale, Asso. Editor), Seaweed Research and Utilization Association, Madras.

**Santhanam, R.;** Ramnathan,N.; Venkataramanjan K. & Jegathanam,G. (1987) .

Phytoplankton of Indian Seas. & Aspects of Marine Botany.Daya Publication Home. Delhi.

**Stein, J. R.** (1973) Handbook of Phycological Methods. Cambridge University Press.

**Stoermer, E. F. & Smol, J. P.** The Diatoms. Applications for Environment and Earth Sciences

**Swaminathan M. S.** Research foundation (2003). Bioresources Status in Selected Costal Location. National Bioresource Development Board (Department of Biotechnology) Govt. of India.

**Trainor, F. R.** Introductory Phycology.

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## M. Sc. PART-II (SEMESTER IV)

(CCS403.7): Plant Biotechnology

### APPLICATION, REGULATION AND PATENTING BIOTECHNOLOGY

**Total Lectures: 60**

#### UNIT I:

**Biotechnology in Agriculture:** Bioethical principles for agricultural biotechnology, ethical aspects and public acceptance [5]  
Biological Nitrogen Fixation: Mechanism of N<sub>2</sub> fixation, Symbiotic N<sub>2</sub> fixation, Mechanism of N<sub>2</sub> fixation in root nodules, Nod genes, Nif genes, Hup genes [7] Use of microbes in Industry and agriculture [3]

#### UNIT II:

Application of biotechnology in environmental protection: Pollution control, phytoremediation immobilized microbial cells, wastewater treatment, microbes in leaching of metals [10]  
Economic and legal issues of biotechnology [5]

#### UNIT III:

Regulating the use of biotechnology in recombinant DNA technology, food, food ingredients and GMO's – cost benefit analysis of GMO's [6]  
Global biotech scenario, public verses private enterprises, international organizations involved in biotechnological inventions, cooperative programmes [5]  
Biotechnological spotlights [4]

#### UNIT IV:

Intellectual property; Intellectual Property Rights (IPR) and its protection, IPR and Plant Genetic Resources, GATT and TRIPS [5]  
Patent systems in India, sources of patent information: a case study [5]  
Patenting biotechnological inventions: Patent of higher plants, patent of genes and DNA sequences, plant breeder's right and farmer's right [5]

### CCPR 405.3.7: PLANT BIOTECHNOLOGY PAPER XVI: PRACTICAL COURSE IV

**Project** work based on special papers.

#### Reference Books:

Altman, A. 1998. Agricultural Biotechnology. Marcel Dekker, New York.

**Gupta, P. K.** 2000. Elements of Biotechnology. Rastogi Publisher, Meerut, India.

**Glick, B. R. and Pasternak, J. J.** 1994. Molecular Biotechnology- Principles and applications of recombinant DNA. ASM Press, Washington.

**Mitra, S.** 1996. Genetic Engineering- principles and practice. Mcmilan, India ltd.

Technology information, forecasting and assessment council (**TIFAC**). 2002. Sources of patent information and patent agents. Technology Bhavan, New Delhi.

Technology information, forecasting and assessment council (**TIFAC**). 2002. Lecture notes on patents. Technology Bhavan, New Delhi.

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## **M. Sc PART-II (SEMESTER IV)**

### **PAPER-XIV (DSE- 404)**

#### **BIODIVERSITY: CONSERVATION AND UTILISATION**

**Lectures: 60**

#### **UNIT-I**

**BIOLOGICAL DIVERSITY:** Mega diversity countries, magnitude of biodiversity, direct, indirect and ethical values of biodiversity, loss of biodiversity, reasons for loss of biodiversity, Taxonomic initiatives, Systematic agenda 2020.

**ENDEMISM:** Definition, types of endemism, RED list categories of IUCN, Hot spots and Hottest hotspots, Keystone and Flagship species, Biodiversity of India, Hotspots of plant diversity in India, Plant endemism in India with special emphasis on Western Ghats.

#### **UNIT-II**

Principles of Biodiversity Conservation, Status of plants based on International Union for Conservation of Nature (IUCN), General account of activities of BSI, NBPGR, CSIR, DBT, NGOs. Convention on Biological diversity (CBD) and Documentation of biodiversity.

#### **UNIT -III**

*In- situ* conservation : concept, Protected areas – 1. Protected Areas category-system proposed by IUCN, 2. Protected Area Network of India including sanctuaries, National parks, conservation reserves, community reserves.3.Biosphere Reserves, Wetlands, Mangrove and Coral Reefs.

*Ex- situ* conservation: Concept, Botanical gardens, Gene banks, Seed banks, Pollen bank, Cryobanks.

#### **UNIT-IV**