



## Criterion 1 - Curricular Aspects

### Key Indicator- 1.3 Curriculum Enrichment

#### 1.3.1 Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability in transacting the Curriculum

Cross Cutting Issue	Programme/ Course	Integration of Cross Cutting Issues	
		Course/Paper	Unit
Professional Ethics	B.A,B.Com., B.Sc. and B.C.A part I	Democracy in India Elections and Good Governance (For Sem.I)	<ul style="list-style-type: none"> <li>▪ Democracy in India</li> <li>▪ Election of Local Self-Government Bodies</li> <li>▪ Good Governance</li> </ul>
		Personality development Skill (For Sem.II)	<ul style="list-style-type: none"> <li>▪ Self-Development Skills</li> <li>▪ Interpersonal Skills</li> </ul>
	B.A, B.Com., B.Sc. and, B.C.A part II	English for Business Communication	<ul style="list-style-type: none"> <li>▪ Oral Communication Skills</li> <li>▪ Written Conversation Skills</li> <li>▪ E-Communication</li> </ul>
	B.A, B.Com., B.Sc., and B.C.A., part III	Constitution of India and Local Self Government (Sem.V)	<ul style="list-style-type: none"> <li>▪ Indian Constitution &amp; Salient Features</li> <li>▪ Fundamental Rights &amp; Duties</li> </ul>
		Interview and Personal Presentation Skill (Sem.VI)	<ul style="list-style-type: none"> <li>▪ Interview</li> <li>▪ Personal Presentation Skill</li> </ul>
B.A, B.Com., B.Sc., and B.C.A	Certificate Course on Human Rights	<ul style="list-style-type: none"> <li>▪ Introduction to Human Rights.</li> <li>▪ To make the students aware of their Rights given to them in our Indian Constitution</li> </ul>	

	B.A, B.Com., B.Sc., and B.C.A	Certificate Course in Indian Constitution	<ul style="list-style-type: none"> <li>Legal literacy aims at bringing awareness to the masses regarding the laws of the land and the respective rights they entail.</li> </ul>
Gender Issues	B.A.III Hindi (Special)	<i>Vidha Vishesh Ka Adhyayan</i>	<ul style="list-style-type: none"> <li><i>Chandrakanta Ka Jeevan Parichay</i></li> </ul>
	B.A.II(History)	History of Modern Maharashtra	<ul style="list-style-type: none"> <li>Women's Rights</li> </ul>
	B.Sc. I(Zoology)	Genetics	<ul style="list-style-type: none"> <li>Introduction to Genetic Mutations</li> </ul>
	B.A, B.Com., B.Sc., and B.C.A	Certificate Course in Women's Self-Defense	<ul style="list-style-type: none"> <li>To educate the girl students about the different types of violence against them</li> </ul>
Human Values	B.A, B.Com., B.Sc., and B.C.A., part I	Human Rights and Ethical values	<ul style="list-style-type: none"> <li>Personal Presentation Skill</li> </ul>
	B.A, B.Com., B.Sc., and B.C.A., part II	Communication and Personality Development Skill	<ul style="list-style-type: none"> <li>Oral Skills</li> <li>Conversation Skills</li> <li>E-Communication</li> <li>Prose and Poetry on values and Ethics</li> </ul>
Environment and Sustainability	B.A, B.Com., B.Sc., and B.C.A., Part II	Environmental Studies (Sem. III & IV)	<ul style="list-style-type: none"> <li>Ecosystems</li> <li>Biodiversity &amp; Its Conservation.</li> <li>Environmental Pollution</li> <li>Social Issues &amp; Environment</li> <li>Environmental Protection</li> </ul>
	B.A.II(Geography)	Human Geography, Soil Geography and Oceanography	<ul style="list-style-type: none"> <li>Soil Geography</li> <li>Introduction to Oceanography</li> <li>Applied Oceanography</li> </ul>
	B.Sc. I(Botany)	Ecology	<ul style="list-style-type: none"> <li>Ecological Factors</li> <li>Ecosystem</li> </ul>
	M.Sc. (Analytical Chemistry)	Pest Control Analysis and Green Synthesis	<ul style="list-style-type: none"> <li>Hazardous Chemicals &amp; Environment</li> <li>Soil &amp; Water Pollution</li> </ul>
	M. Sc. (Physics)	Energy Conversion and Storage Devices	<ul style="list-style-type: none"> <li>Solar Photovoltaics</li> </ul>
	M.Sc. (Analytical Chemistry)	Soil & Water Analysis	<ul style="list-style-type: none"> <li>Soil Erosion: Concept, Causes and Controlling Factors. Degradation and Conservation of Soils.</li> </ul>
	M.Sc. (Analytical Chemistry)	Certificate Course in Identification, Cultivation and Conservation of Medicinal Plants	<ul style="list-style-type: none"> <li>Conservation of medicinal plants</li> <li>Cultivation of medicinal plants.</li> </ul>

# **SHIVAJI UNIVERSITY, KOLHAPUR.**



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Accredited By NAAC with 'A' Grade  
CHOICE BASED CREDIT SYSTEM

Syllabus For

**B.A. Part - I**

## **Political Science**

(Syllabus to be implemented from June, 2018 onwards.)

**CHOICE BASED CREDIT SYSTEM**  
**SYLLABUS**  
**B.A.I Political Science**  
**Discipline Specific Course (B4)**  
**DSC (B4) Paper-I --Introduction to Political Science**  
**Sem-I**

Sr. No.	Topic No. and Title of the Topic	Teaching Hours	Credits
1.	<b>Topic I- Introduction to Political Science</b> a) Meaning, Definition, Nature, and Scope b) Difference Between Political Science and Politics c) Importance of Political Science	15	01
2.	<b>Topic II- Introduction to Sub-disciplines of Political Science</b> a) Political Theory: Meaning, Nature and Scope b) Political Process: Meaning, Nature and Scope c) Public Administration: Meaning, Nature and Scope d) International Politics: Meaning, Nature and Scope	15	01
3.	<b>Topic III-State and Democracy</b> a) State : Meaning, Definition, Organs of State b) Democracy: Meaning, Types(Direct and Indirect or Representative Democracy), Features of Democracy c) Democracy: Importance and Challenges before Democracy	15	01
4.	<b>Topic IV- Key Concepts of Political Science</b> a) Rights: Meaning, and Types b) Liberty: Meaning, and Types c) Equality: Meaning, and Types d) Justice: Meaning, and Types	15	01

**B.A.I Political Science**  
**Discipline Specific Course (B18)**  
**DSC (B18) Paper-II --Indian Constitution**  
**Sem-II**

Sr. No.	Topic No. and Title of the Topic	Teaching Hours	Credits
1.	<b>Topic I- Introduction to Indian Constitution</b> a) Historical Background of Indian Constitution (Acts of 1909,1919,1935) b) Making of Indian Constitution :Constituent Assembly c) Basic Features of Indian Constitution	15	01
2.	<b>Topic II- Philosophy of Indian Constitution</b> a) Preamble b) Fundamental Rights c) Directive Principles of State Policy and Fundamental Duties	15	01
3.	<b>Topic III- Legislature and Executive in Indian Constitution</b> a) Parliament b) Prime Minister and his Cabinet c) President	15	01
4.	<b>Topic IV- Judiciary</b> a) Supreme Court: Composition, Powers and Functions b) Judicial Review	15	01

**SHIVAJI UNIVERSITY, KOLHAPUR**



**Revised Syllabus For**

**Bachelor of Arts (B. A. POLITICAL SCIENCE)**

**Faculty of Humanities B. A. Part - II (Sem. III and IV)**

**CBCS based Syllabus to be implemented from June 2019 onwards.**

**Course Structure for B.A.II Political Science**  
B.A.II

Sr. No.	Semester	Name of the Course	Discipline Specific Elective
1.	III	Political Process in India - III	Political Science Course - III
		Indian Political Thought Part I - IV	Political Science Course - IV
		Public Administration - I	Compulsory Generic Elective - I
2.	IV	Local Self Government in Maharashtra - V	Political Science Course - V
		Indian Political Thought Part II - VI	Political Science Course - VI
		Public Administration - II	Compulsory Generic Elective - II

**CHOICE BASED CREDIT SYSTEM**  
**SYLLABI AND READING LIST**  
**B.A.II Political Science**  
**Semester III**  
**Discipline Specific Course (D7)**  
**DSC (D7) Paper-III Political Process in India**

Sr. No.	Unit No. and Title of the Unit	Teaching Hours	Credits
1.	<b>Unit 1: Indian Federalism</b> a) Nature & Characteristics of Indian Federalism b) Centre-State Relations : Legislative, Administrative, Financial c) Changing nature of federal System	15	01
2.	<b>Unit 2: Electoral Process in India</b> a) Election Commission : Composition and Functions b) Review of Selected General Election 1952, 1977, 1989, 2014 c) Electoral Reforms - Corruption and Criminalization of Electoral Politics	15	01
3.	<b>Unit 3: Party System of India</b> a) Nature and Changing Pattern of Party System b) Selected National Political Parties: Indian National Congress, Bhartiya Janata Party, Communist Parties (CPM, CPI), Bahujan Samajwadi Party (BSP) c) Rise and Role of Regional Parties	15	01
4.	<b>Unit 4: Issues in Indian Politics</b> a) Caste and Politics of Identity b) Religion and Politics of Communalism c) Regionalism & Challenges before Development	15	01

**CHOICE BASED CREDIT SYSTEM**  
**B.A.II Political Science**  
**Semester III**

**Discipline Specific Course (D8)**  
**DSC (D8) Paper-IV Indian Political Thought Part -I**

Sr. No.	Unit No. and Title of the Unit	Teaching Hours	Credits
1.	<b>Unit 1: Kautilya</b> a) Nature of State - Saptang Theory b) King and His Administration, Council of Ministers c) Mandal Theory & Shadgunya Theory	15	01
2.	<b>Unit 2: Mahatma Phule</b> a) Theory of State – Concept of Balirajya b) Religion – Critique on Brahmanism c) Satyashodhak Samaj & it's Revolutionary Thought	15	01
3.	<b>Unit 3: Justice M. G. Ranade</b> a) Political Liberalism b) Thoughts on Social Reforms c) Economic Ideas	15	01
4.	<b>Unit 4: B. G. Tilak</b> a) Cultural Nationalism b) Concept on Swarajya (Four Fold Program) c) Right to Resist (Pratiryogita Sahakarita)	15	01

**Reference Books:**

- Altekar A.S., State and Government in India, Motilal Banarasidas , Delhi,1958
- Chakrabarty Bidyut & Pandey R.K., Modern Indian Thought, Sage, 2009
- Deshpande G.P. (ed.), 'Introduction', *Selected Writings of Jotirao Phule* , Leftword: New Delhi,2002
- Jayswal K.P. Hindu Polity: A Constitutional History of India in Hindu Times, Butterwort, Calcutta, 1924
- Kangale R.P. , Arthshastra of Kautilya , Motilal Banarasidas , Delhi,1965
- Omvedt Gail, Dalit Visions: *The Anti Caste Movement and the Construction of an Indian Identity*, Orient Longman Pvt. Ltd., 2006



**CHOICE BASED CREDIT SYSTEM**  
**B.A.II Political Science**  
**Semester IV**  
**Discipline Specific Course (D35)**  
**DSC (D35) Paper-V Local Self Government in Maharashtra**

Sr. No.	Unit No. and Title of the Unit	Teaching Hours	Credits
1.	<b>Unit 1: Historical Background of Local Self Government</b> a) Community Development Program b) Balawantrao Mehata Committee c) Vasantao Naik, L. N. Bongirwar, P. B. Patil Committee	15	01
2.	<b>Unit 2: Rural Local Self Government</b> a) Gram Panchayat b) Panchayat Samiti c) Zilla Parishad	15	01
3.	<b>Unit 3: Urban Local Self Government</b> a) Municipal Council b) Municipal Corporation	15	01
4.	<b>Unit 4: Constitutional Amendments &amp; Challenges</b> a) 73 <sup>rd</sup> Constitutional Amendment Importance & Features b) 74 <sup>th</sup> Constitutional Amendment Importance & Features c) Challenges before local self Government	15	01

**Reference Books:**

- Maheshwari S.R. - Local Government in India, 2004
- Gadkari S.S. - Organization of the State Government in Maharashtra, 1965
- Bhat K.S. - Panchayat Raj Administration in Maharashtra, 1974
- Government of Maharashtra - Maharashtra Zilla Parishads and Panchayats Act.1961
- Government of Maharashtra – Municipal Act,1965
- पाटील पी. बी., पंचायत राज्याकडून ग्राम स्वराज्याकडे, समाजवादी प्रबोधिनी, इचलकरंजी
- शिरसाठ शाम, भारतीय स्थानिक स्वशासन, विद्या बुक्स, औरंगाबाद, २०१०

**CHOICE BASED CREDIT SYSTEM**  
**B.A.II Political Science**  
**Semester IV**  
**Discipline Specific Course (D36)**  
**DSC (D36) Paper-VI Indian Political Thought Part -II**

Sr. No.	Unit No. and Title of the Unit	Teaching Hours	Credits
1.	<b>Unit 1: M. K. Gandhi</b> a) Satya, Ahimsa, Satyagraha b) Concept of Swaraj – Ramrajya & Trusteeship c) Theory of Gandhi's concept of Religion	15	01
2.	<b>Unit 2: Jawaharlal Nehru</b> a) Democratic Socialism b) Composite Nationalism & Secularism c) Panchsheel & Non-Alignment	15	01
3.	<b>Unit 3: Dr. B. R. Ambedkar</b> a) Critique of Caste System b) Social and Parliamentary Democracy c) State Socialism	15	01
4.	<b>Unit 4: M. N. Roy</b> a) Views on Marxism b) Radical Democracy c) New Humanism	15	01

**Reference Books:**

- Singh, M.P., Indian Political Thought- Themes and Thinkers, Pearson, New Delhi, 2011
- Chakrabarty Bidyut & Pandey R.K., Modern Indian Political Thought, Sage, 2009
- Pantham Thomas & Deutsch (ed.), Political Thought in Modern India, Sage, 1986
- चौसाळकर अशोक, आधुनिक भारतीय राजकीय विचार: प्रवाह आणि अंतः प्रवाह , प्रतिमा प्रकाशन, पुणे, २०१४
- भोळे भा.ल., आधुनिक भारतीय राजकीय विचार , पिंपलापुरे, नागपूर , २००३
- डोळे ना. य., भारतीय राजकीय विचारवंत , विद्या पब्लिशर्स , औरंगाबाद, १९९९

**CHOICE BASED CREDIT SYSTEM**  
**B.A.II Political Science**  
**Semester IV**  
**Compulsory Generic Elective - II**  
**CGE Paper-II Public Administration**

Sr. No.	Unit No. and Title of the Unit	Teaching Hours	Credits
1.	<b>Unit 1: Personnel Administration</b> a) Meaning, Definitions and Importance <b>b) Recruitment, Training and Promotion</b> <b>c) Political Neutrality of Civil Servants</b>	15	01
2.	<b>Unit 2: Financial Administration in India</b> a) Meaning, Definitions and Importance of Budget b) Preparation, Enactment and Execution of the Budget c) Financial committees – Public Accounts Committee, Estimates Committee, Public Undertakings Committee.	15	01
3.	<b>Unit 3: Delegated Legislation</b> a) Meaning, Definition and Causes of its growth b) Merits and Demerits d) Safeguards against Delegated Legislation	15	01
4.	<b>Unit 4: New Trends in Public Administration</b> a) E-Governance <b>b) Right to Information</b> <b>c) Peoples participation</b>	15	01

# **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

**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

**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

**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

**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.

Sr. No.	Unit No. and Title of the Unit	Teaching Hours	Credits
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

**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.

Sr. No.	Unit No. and Title of the Unit	Teaching Hours	Credits
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, पिंपळपुरे, 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

**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

**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 & comony 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  
CHOICE BASED CREDIT SYSTEM

Syllabus For

**B.A. Part - I**

**Economics**

(Syllabus to be implemented from June, 2022 onwards.)

**Choice Based Credit System**  
**B.A. Part - I**  
**Economics Course – 1**  
**June 2022 onwards**  
**Indian Economy - I**

**Preamble :**

This paper intends to acquaint the students with various dimensions of, as also the challenges, confronting the Indian economy. It endeavors to provide useful insights to the students about the present economic standing and composition of the Indian economy, the major sectors and their relative importance in the Indian economy and the major challenges faced by it.

**Course Outcome:**

1. Acquaint the students with Structure of the Indian economy and changes taking place therein.
2. Understanding population Problem of Indian Economy
3. Awareness regarding challenges before the Indian economy.
4. Able to formulate the strategy for economic development

Semester - I	Teaching Hours	Credits
<b>Module – I Economic Development Since Independence</b>	<b>15</b>	<b>01</b>
1.1 Major Features of the Indian Economy at Independence		
1.2 Structural Changes in Indian Economy		
1.3 Indian Economy and Inclusive growth		
1.4 Sustainable Development		
<b>Module – II Demographic status of India</b>	<b>15</b>	<b>01</b>
2.1 Size and Causes of growth of population India		
2.2 Broad features of Indian Population		
2.3 Impact of population growth on Economic development		
2.4 Population Policy 2000		
<b>Module – III Challenges before Indian Economy - I</b>	<b>15</b>	<b>01</b>
3.1 Poverty - Meaning and Types		
3.2 Poverty - Causes and measures		
3.3 Unemployment - Meaning and Types		

3.4 Unemployment - Causes and Measures

**Module – IV Challenges before Indian Economy - II**

**15**

**01**

4.1 Economic Inequality- Nature, Causes & Remedies

4.2 Social Inequality – Nature, Causes & Remedies

4.3 Regional Imbalance – Nature, Causes & Remedies

4.4 **Human Development Index** – Concept, Indicators and Trends

**REFERENCE BOOKS**

1. Puri V.K., Misra S.K. (Latest Edition) Indian Economy, Himalaya Publishing House, Mumbai.
2. Agrawal A.N. (Latest Edition) Indian Economy, New Age International Publishers, New Delhi.
3. Datt and K.P.M. Sundharam, (Latest Edition) Indian Economy, S.Chand and Company Ltd., New Delhi.
4. Chatterjee and Mani N. (2012-13), Economic Survey of India its states, New Century Publications, New Delhi.
5. Desai Mutalik and Bhalerao Nirmal (Latest Edition) Bharatiya Arthvyavasta, Nirali Prakashan, Pune.(In Marathi Language)
6. Dr.Wavare and Dr. Ghatage (2010), Bharatiya Arthvyavasta, Nirali Prakashan, Pune.(In Marathi Language)
7. India 2014-15.
8. Handbook of Indian Statistics - 2015.
9. Economic Survey of India - Various issues
10. World Development Report - Various issues



**SHIVAJI UNIVERSITY, KOLHAPUR**  
**REVISED SYLLABUS OF B.A. PART II**  
**SEMESTER- III**  
**PRINCIPLES OF CO-OPERATION**  
**Course – I GE (IDS)**

**PREAMBLE:**

The objective of this paper is to create awareness about the working of co-operatives in Rural and Urban area. The Co-operative movement has been considered as the third important sector in the economy followed by private and public sector. The principles of co-operation and the values of the co-operative institutions need to be studied in Indian Context.

**OUTCOMES:**

1. Recognize the nature of cooperative movement in India
2. Equip the long history of cooperative movement.
3. Identify the role of registrar and auditor in cooperative movement.
4. Analyze the importance of state aid in Cooperation.

**Unit I: Evolution of Cooperative Thought** **(15 Lectures)**

- 1.1 Origin of Cooperative Thought
- 1.2 Robert Owen, Dr. William King, Charles Fourier
- 1.3 Rochdale Pioneers
- 1.4 Raiffeisen And Scheultze Delitsche

**Unit II: Co-Operation- Meaning, Features and Principles** **(15 Lectures)**

- 2.1 Meaning and Definition of Co- Operation
- 2.2 Features and Importance of Co- Operation
- 2.3 **Development of Cooperative Principles, Manchester Co- Operative Principles.**
- 2.4 International Co-Operative Alliance (ICA) - Organization and Functions

**Unit III: Co-Operative Audit** **(15 Lectures)**

- 3.1: Meaning and Need of Cooperative Audit
- 3.2: Types of Co-Operative Audit
- 3.3: Role of Co-Operative Auditor – Duties Rights and Responsibilities
- 3.4: Merits and Demerits of Cooperative Audit System

**Unit IV: Role of State in Co-Operation** **(15 Lectures)**

- 4.1: Role of State in the Development of Co-Operative Movement

**SEMESTER-III**  
**MONEY AND BANKING**  
**( Paper-IV)**

Preamble:

The purpose of teaching this paper is to create the awareness about banking business and its regulation. To make student aware about various operations of banks and financial institutions and its relevance with overall economy.

Course Outcomes: Student will be able to

1. Understand the working of banks
2. Examine the role of RBI as a central bank.
3. Analyze the banking practices.
4. Elaborate the Credit (Loan) Appraisal and NPA.

**Unit I: Introduction to Banking**

**(15 Periods)**

- 1.1 Meaning and Functions of Commercial Banks
- 1.2 Types of Banks - Public, Private, Foreign, Cooperative and Small Finance banks
- 1.3 Principles and Investment Policy of Commercial Banks - Balance Sheet of banks
- 1.4 Processes of Credit Creation and its Limitations

**Unit II: Reserve Bank of India**

**(15 Periods)**

- 2.1 History and Functions
- 2.2 Monetary Policy - Meaning and Objectives
- 2.3 Instruments of Credit Control
- 2.4 Financial Inclusion: Meaning and measures

**Unit III: Banking Practices - I**

**(15 Periods)**

- 3.1 Types and features of Bank Accounts
- 3.2 Opening, KYC, Operating and Closing of an Account
- 3.3 **Banker's and Customer's Rights and Obligations**
- 3.4 Negotiable Instruments: Main Features

**Unit IV: Banking Practices – II**

**(15 Periods)**

- 4.1 Bank Ombudsman Scheme- Meaning, Power and Duties
- 4.2 Meaning, Process and Importance of Credit (Loan) Appraisal
- 4.3 Meaning, Causes and Remedies of NPA
- 4.4 CIBIL report

**SHIVAJI UNIVERSITY, KOLHAPUR**



Revised syllabus for  
Bachelor of Arts (Part – III)

SEMESTER V & VI

**ECONOMICS**

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

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

### **Principles of Micro Economics- I**

(Elective Course- 7) DSE E-71

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

- Explain what economics is and explain why it is important
- Understand consumer decision making and consumer behaviour
- Define the concept of utility and satisfaction
- Derive revenue and cost figures as well as curves
- Understand producer decision making and producer behaviour

#### **Module- I Introduction to Micro Economics (Teaching Hours- 15, Credits- 01)**

- 1.1 Meaning, nature and scope
- 1.2 Importance and limitations
- 1.3 The Economic Problem- Scarcity and Choice; concept of opportunity cost
- 1.4 Framework of economic analysis- Concept, module, parameters

#### **Module- II Consumer's Behaviour (Teaching Hours- 15, Credits- 01)**

- 2.1 Utility- concept, total and marginal utility
- 2.2 Cardinal utility approach: law of diminishing marginal utility
- 2.3 Ordinal utility approach: meaning and properties of indifference curve
- 2.4 Consumer's equilibrium and consumer's surplus

#### **Module- III Demand and Supply Analysis (Teaching Hours- 15, Credits- 01)**

- 3.1 Law of demand, demand function, determinants of demand
- 3.2 Elasticity of demand: price, income, cross and substitution
- 3.3 Measurement and importance
- 3.4 Law of supply, supply function and elasticity

#### **Module- IV Theory of Production (Teaching Hours- 15, Credits- 01)**

- 4.1 Law of variable proportions and law of returns to scale
- 4.2 Economies and diseconomies of scale
- 4.3 Revenue- total, marginal and average revenue
- 4.4 Cost concepts and their relationship, cost curves- short run and long run

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

1. Dominic Salvator (2012) – Principles of Micro Economics, 5<sup>th</sup> edition, Oxford University Press, Oxford.
2. John B. Taylor & Akila Weerapana, (2011) 'Principles of Economics', 7th Edition, Cengage Learning, India, New Delhi.

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

### **Economics of Development**

(Elective Course- 8) DSE – E - 72

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

- Identify the dimensions of development
- Distinguish the fundamental and contemporary development debate
- Know the theories of economic development
- Realise the role of state in economic development

#### **Module- I: Basic concepts of economic development (Teaching Hours- 15, Credits- 01)**

- 1.1 Meaning of economic development- Distinction between economic development and growth
- 1.2 Indicators of economic development
- 1.3 Obstacles to economic development
- 1.4 **Sustainable and green development**

#### **Module- II: Developing and developed countries (Teaching Hours- 15, Credits- 01)**

- 2.1 Underdevelopment and characteristics
- 2.2 Factors affecting economic development
- 2.3 Features of economic growth
- 2.4 Developmental status of Indian economy

#### **Module- III: Theories of economic development (Teaching Hours- 15, Credits- 01)**

- 3.1 Classical approach to development- Ricardian Theory
- 3.2 Myrdal's theory of economic development
- 3.3 Rostow's stages of economic growth
- 3.4 Theory of balanced and unbalanced growth

#### **Module- IV: Resources for economic development (Teaching Hours- 15, Credits- 01)**

- 4.1 Capital formation, Technology and economic development
- 4.2 **Human capital and economic development**
- 4.3 FDI, FIIs, Portfolio and Aid
- 4.4 Role of state in economic development

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

1. Adelman, Irma (1962), *Theories of Economic Growth and Development*, Stanford University Press, Stanford.
2. Behrman, S. and T.N. Srinivasan (1995), *Handbook of Development Economics*, Vol. 1 to 3, Elsevire, Amsterdam. Economics 31
3. Ghatak, Subrata (1986), *Introduction to Development Economics*, Allen and Unwin, London.
4. Hayami, Yujiro and Yoshihisa Godo (1997), *Development Economics*, Oxford University Press, New York.
5. Higgins, Benjamin (1980), *Economic Development*, Norton, New York.

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

### **History of Economic Thoughts- I**

(Elective Course- 11) DSE – E 75

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

- Understand the basic economic ideas of various economic thinkers of the world
- Understand the development of economic thoughts

#### **Module-I: Origin of Economic Thoughts (Teaching Hours- 15, Credits- 01)**

- 1.1 Early economic thought, rise of mercantilism, features of Mercantilism
- 1.2 Meaning and causes of emergence of Physiocracy
- 1.3 The concept of natural order and primacy of agriculture
- 1.4 Tableau economique

#### **Module- II: Classical Economic Thoughts (Teaching Hours- 15, Credits- 01)**

- 2.1 Adam Smith: Division of labour, theory of value and canons of taxation
- 2.2 David Ricardo: Theory of Value and views on distribution
- 2.3 **Thomas Malthus: Theory of Population**
- 2.4 Theory of Gluts

#### **Module- III: Economic Thoughts of Fredrick List (Teaching Hours- 15, Credits- 01)**

- 3.1 Criticism on Classical School
- 3.2 Stages of Economic growth
- 3.3 Concept of Nationalism
- 3.4 Theory of Protectionism

#### **Module- IV: Economic Thoughts of Karl Marx (Teaching Hours- 15, Credits- 01)**

- 4.1 The Concept of Scientific Socialism and Materialist approach
- 4.2 The Theory of Value
- 4.3 Theory of Surplus Value
- 4.4 Concept of Falling rate of profit

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

1. Dandekar V.M.and N.Nath (1971), Poverty in India, Indian school of political Economy, Pune.
2. Ganguli B. N. (1977): Indian Economic Thought - A 19<sup>th</sup> Century Perspectives, Tata Mc Grow Hill, New Delhi.
3. Rath Nilkanth(1995) V.M.Dandekar Social Scientist with a Difference : Journal of Indian School of Political Economy.Oct-Dec.1995, Vol-7 No-4.
4. Seshadri G.B.(1997): Economic Doctrines, Publishing Corporation, New Delhi.
5. चा.भ.खैरमोडे (१९७८) – डॉ.भीमराव रामजी आंबेडकर, खंड १ ला , खंड २ रा खंड ७ वा, प्रताप प्रकाशन.

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

### History of Economic Thoughts- II

(Elective Course- 16) DSE – E 200

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

- Understand the economic concepts and theories of Neo-Classical and Indian thinkers.
- Understand the development of economic thoughts

#### Module- I: Neo- Classical Economic Thought – Alfred Marshall

(Teaching Hours- 15, Credits- 01)

- 1.1 Theory of Value
- 1.2 The concept of representative firm
- 1.3 Consumer's surplus, elasticity of demand
- 1.4 Quasi rent

#### Module- II: Indian Economic Thought

(Teaching Hours- 15, Credits- 01)

- 2.1 Mahatma Phule: Views on agriculture and education
- 2.2 Rajarshi Shahu Maharaj: Policy for agriculture development and co-Operation
- 2.3 Dr. Babasaheb Ambedkar: Views on money, agriculture and development policy
- 2.4 Dadabhai Nauroji: Drain theory

#### Module- III: Mahatma Gandhi

(Teaching Hours- 15, Credits- 01)

- 3.1 Concept of village development
- 3.2 Importance of decentralization
- 3.3 Basic principle of development: swadeshi
- 3.4 Concept of Gram Swarajya

#### Module- IV: Economic Thoughts of Modern Indian Economist

(Teaching Hours- 15, Credits- 01)

- 4.1 Gopal Krishna Gokhale's views on public finance
- 4.2 D. R. Gadgil: Views on co-operative development and decentralization of power, co-operative commonwealth
- 4.3 V. M. Dandekar: Views on poverty
- 4.4 Amartya Sen: Concept of social choice, choice of techniques, Sen's views on poverty and public action

#### BASIC READING LIST:

1. Dandekar V.M.and N.Nath (1971), Poverty in India, Indian school of political Economy, Pune.

# SHIVAJI UNIVERSITY KOLHAPUR



ESTD. 1962  
NAAC A++ Grade

**Bachelor of Commerce (B. Com.)**  
**Under the Faculty of Commerce and**  
**Management Choice Based Credit System (CBCS)**  
(Regulations in accordance with **National Education**  
**Policy** with effect from Academic Year 2022-23)



1. George Terry, Principles of Management, Richard D. Irwin
2. Newman, Summer, and Gilbert, Management, PHI
3. James H. Donnelly, Fundamentals of Management, Pearson Education.
4. B.P. Singh and A.K.Singh, Essentials of Management, Excel Books
5. Griffin, Management Principles and Application, Cengage Learning
6. Robert Kreitner, Management Theory and Application, Cengage Learning
7. Peter F Drucker, Practice of Management, Mercury Books, London
8. Organisation and Management- Dr. C.B. Gupta
9. Business Organisation and Management –M.C.Shukla
10. Essentials of Management- Koontz and O' Donnell
11. Management: Stoner
12. Principles of Management- P.C. Tripathi and P.H.Reddy
13. Management- Principles and practice- Shrinivas&Chunawala

## Shivaji University Kolhapur

Syllabus in accordance with NEP- 2020  
with effect from Academic Year 2022-23

### B.Com-I (Semester-I)

DSC-3: Discipline Specific Course

### Subject– Micro Economics Paper I

Objective:

1. Objective of the course is to acquaint students with the concepts of micro economics dealing with consumer behaviour. The course also makes the student understand the supply side of the market through the production and the cost behaviour of firm.
2. Learning outcomes –The student should be able to apply tools of consumer behavior and firm theory to business situation.

**Credits: 04**

60 hours Course	Course Content	Total 50 Marks
<b>Course Outcome s:</b>	The student should be able to apply tools of consumer behavior and firm theory to business situation.	(Marks: 40 for Examination 10 for Internal Assessment)
<b>Unit-I:</b>	<b>Demand and consumer behavior</b>	<b>(15 hours)</b>
	Concept of demand, Defects of Cardinal Approach Indifference Curve Analysis – Meaning, indifference curve map, properties, Marginal rate of substitution (MRS) Consumer's equilibrium and Consumer Surplus 1.4Application of indifference curve.	
<b>Unit-II:</b>	<b>Demand forecasting:</b>	<b>(15 hours)</b>
	Meaning and Objectives Factors influencing demand forecasting Methods of Demand Forecasting – Market Survey, Time series and Graphical method. Importance of demand forecasting in Business decision making.	
<b>Unit-III:</b>	<b>Production function:</b>	<b>(15 hours)</b>
	Concept of production function - fixed and variable inputs. Theories of production: Law of variable proportions and Law of	

4. Newman, Summer, and Gilbert, Management, PHI
5. James H. Donnelly, Fundamentals of Management, Pearson Education.
6. B.P. Singh and A.K.Singh, Essentials of Management, Excel Books
7. Griffin, Management Principles and Application, Cengage Learning
8. Robert Kreitner, Management Theory and Application, Cengage Learning
9. TN Chhabra, Management Concepts and Practice, DhanpatRai& Co. (Pvt. Ltd.),New Delhi
10. Peter F Drucker, Practice of Management, Mercury Books, London
11. SharuRanganekar–In the World of Corporate Managers.
12. Organisation and Management- Dr. C.B. Gupta
13. Business Organisation and Management –M.C.Shukla
14. Essentials of Management- Koontz and O’ Donnell
15. Management: Stoner
16. Principles and Practice of Management- L.M. Prasad
17. Management: Moshal
18. Principles of Management- P.C. Tripathi and P.H. Reddy
19. Management- Principles and practice- Shrinivas&Chunawala
20. Principles of management: Terry, G.R. and Stephen Franklin

## Shivaji University Kolhapur

Syllabus in accordance with NEP- 2020  
with effect from Academic Year 2022-23

### B.Com-I (Semester–II)

DSC-6: Discipline Specific Course

### Micro Economics Paper II

#### Objective:

1. Objective of the course is to acquaint students with the concepts of microeconomics dealing with consumer behaviour. The course also makes the student understand the supply side of the market through the production and the cost behaviour of firm.

**Credits: 04**

60 hours Course	Course Content	Total 50 Marks
<b>Course Outcomes:</b>	The student should be able to apply tools of consumer behaviour and firm theory to business situation.	(Marks: 40 for Examination 10 for Internal Assessment)
<b>Unit-I:</b>	<b>Perfect competition:</b>	<b>(15 hours)</b>
	Meaning and characteristics Equilibrium of firm in short run and long run. Equilibrium of industry in short run and long run. Measuring producer’s surplus under perfect competition.	
<b>Unit-II:</b>	<b>Monopoly:</b>	<b>(15 hours)</b>
	2.1 Meaning and Characteristics 2.2 Price determination under monopoly. Concept and degree of price discrimination. Measurement of monopoly power	
<b>Unit-III:</b>	<b>Monopolistic competition and Oligopoly</b>	<b>(15 hours)</b>
	3.1 Monopolistic competition – Meaning and Characteristics	

# **SHIVAJI UNIVERSITY, KOLHAPUR.**



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Accredited By NAAC with 'A' Grade  
CHOICE BASED CREDIT SYSTEM

Syllabus For

**B.A. Part - I**

**Geography**

**(Syllabus to be implemented from June, 2018 onwards.)**

**B. A. Part - I**  
**DSE (Discipline Specific Elective) - I Geography**  
**June 2018 onwards**

**Physical Geography**

**Preamble:** This paper intends to acquaint the students with various dimensions of, as also the challenges, confronting the physical geography. The Geography students of B. A. Part-I can betterly understand all latest concepts in Physical Geography and Human Geography in brief but in adequate manner.

The objective of this course is to introduce the latest concepts in Physical Geography and Human Geography, Specifically in Atmosphere, Lithosphere, Fluvial Cycle, Hydrosphere, Human races, Population growth, Characteristics of Population and Settlements.

**Semester - I**

	Teaching Hours	Credits
<b>Module – I Introduction to Physical Geography</b>	<b>15</b>	<b>01</b>
1.1 Meaning and Definitions		
1.2 Scope of Physical Geography		
1.3 Branches of Physical Geography		
1.4 Importance of Physical Geography		
<b>Module- II      <b>Atmosphere</b></b>	<b>15</b>	<b>01</b>
2.1 Composition and Structure of Atmosphere		
2.2 Insolation: Factors affecting on Insolation		
2.3 Temperature: Distribution of temperature (Vertical and Horizontal)		
2.4 Atmospheric Pressure: Belts and Planetary Winds.		
<b>Module – III      <b>Lithosphere</b></b>	<b>15</b>	<b>01</b>
3.1 Interior of the earth		
3.2 Wagner’s Continental Drift Theory		
3.3 Earthquakes – Causes and Effects		
3.4 Volcano – Causes and Effects		
<b>Module – IV      <b>Denudation</b></b>	<b>15</b>	<b>01</b>
4.1 Weathering: Concept and Types		

**B. A. Part - I**  
**DSE (Discipline Specific Elective) - II Geography**  
**Semester-II**

**Human Geography**

**Preamble :** This paper intends to acquaint the students with various dimensions of, as also the challenges, confronting the Indian economy. It endeavors to provide useful insights to the students about the present economic standing and composition of the Indian economy, the major sectors and their relative importance in the Indian economy and the major challenges faced by it.

**Semester – II**

	<b>Teaching Hours</b>	<b>Credits</b>
<b>Module- I      Human Geography</b>	<b>15</b>	<b>01</b>
1.1 Definitions of Human Geography		
1.2 Scope of Human Geography		
1.3 Branches of Human Geography		
1.4 Importance of Human Geography		
<b>Module –II      Population</b>	<b>15</b>	<b>01</b>
2.1 Factors affecting on distribution of population		
2.2 Malthus' theory of Population Growth		
2.3 Demographic Transition Theory		
2.4 Migration: Types and Effects		
<b>Module –III      Settlement</b>	<b>15</b>	<b>01</b>
3.1 Types and patterns of rural settlements		
3.2 Functions of Rural Settlements		
3.3 Factors affecting on urbanization		
3.4 Functions of Urban Centers		
<b>Module – IV      Agriculture</b>	<b>15</b>	<b>01</b>
4.1 Origin and History of Agriculture		
4.2 Types of Agriculture		
4.3 Factors affecting on agriculture		
4.4 Problems of Agriculture		

**Reference Books**

1. Chandna, R.C. (2010) Population Geography, Kalyani Publisher.
2. Hassan, M.I. (2005) Population Geography, Rawat Publications, Jaipur

# SHIVAJI UNIVERSITY, KOLHAPUR



Accredited By NAAC with 'A' Grade

## CHOICE BASED CREDIT SYSTEM

Syllabus For

B.A. Part - II

Geography

(Syllabus to be implemented from June, 2019 onwards.)

**NEW/REVISED SYLLABUS FOR  
B. A. Part-II Geography  
(Introduced from June 2019 onwards)  
Semester - III**

**(i) Course / Paper No. III**

**(ii) Title of Paper: - SOIL GEOGRAPHY**

**(iii) Specific Objectives: - -----**

**(iv) A brief note: - (On expected level of study from examination and assessment point of view):- -----**

Module	Teaching Hours	Credits
<b>Module I: Basics of Soil Geography</b>	<b>12 Lectures</b>	<b>01</b>
1.1 Definition, Nature and Scope of Soil Geography		
1.2 History of Soil Geography and Pedology		
1.3 Significance of Soil Geography		
<b>Module II: Soils: Formation and Properties</b>	<b>18 Lectures</b>	<b>01</b>
2.1 Jenny's Factorial Model of Soil Formation: Parent Material, Biotic, Climatic, Relief and Time factor.		
2.2 Process of Soil Formation: Physical, Biotic and Chemical.		
2.3 Physical Properties of Soils: Morphology, Texture, Structure, Water, Air and Temperature.		
2.4 Chemical Properties of Soils: P <sup>H</sup> , Organic Matter, NPK (Nitrogen, Phosphorous and Potassium).		
<b>Module III: Soils: Classifications and Distribution</b>	<b>18 Lectures</b>	<b>01</b>
3.1 Genetic Classification of Soils.		
3.2 Soil Characteristics and Major Soils Distribution in Maharashtra.		
3.3 Soil Degradation: Concept, Causes, Consequences and Measures		
<b>Module IV: Practical (Theory Only)</b>	<b>12 Lectures</b>	<b>01</b>
4.1 Soil Profile		
4.2 Soil Sample: Tools		
4.3 Soil Analysis: Saline and Alkaline		
4.4 Vermicompost Process		

**REFERENCES**

NEW/REVISED SYLLABUS FOR  
**B. A. Part – II, DSC Geography**  
**(Introduced from June 2019 onwards)**  
**Semester - III**

**(i) Course / Paper No. IV**

**(ii) Title of Paper: Resource Geography**

**(iii) Specific Objectives:-**

**(iv) A brief note:- (On expected level of study from examination and assessment point of view) :- -----**

Module	Teaching Hours	Credits
<b>Module I: Introduction to Resource Geography</b>	<b>10 Lectures</b>	<b>01</b>
1.1 Definition and Scope of Resource Geography		
1.2 Resource: Concept and Classification		
1.3 Importance of Resource Geography		
<b>Module II: Major Resources</b>	<b>20 Lectures</b>	<b>01</b>
2.1 Water Resources: Distribution, Utilization and Problems		
2.2 Forest Resources: Distribution, Utilization and Problems		
2.3 Energy Resources: Distribution, Utilization and Problems		
2.4 Human Resources: Distribution, Utilization and Problems		
<b>Module III: Sustainable Resource Development</b>	<b>18 Lectures</b>	<b>01</b>
3.1 Concept of Sustainable Resource Development		
3.2 Sustainable Natural Resource Development: Water, Forest and Energy		
3.3 Sustainable Human Resource Development		
<b>Module IV: Practical (Theory Only)</b>	<b>12 Lectures</b>	<b>01</b>
4.1 Proportional Circle		
4.2 Choropleth Map		
4.3 Dot Map		
4.4 Isopleth Map		

**References :**

1. Cutter S. N., Renwich H. L., and Renwick W., (1991): Exploitation, Coservation, Preservation: A Geographical Perspective on Natural Resources Use, John Wiley and Sons, New York.





NEW/REVISED SYLLABUS FOR  
**B. A. Part – II, DSC Geography**  
**(Introduced from June 2019 onwards)**  
**Semester - IV**

**(i) Course / Paper No. VI**

**(ii) Title of Paper: Agricultural Geography**

**(iii) Specific Objectives:-**

**(iv) A brief note:- (On expected level of study from examination and assessment point of view) :- ----**

Module	Teaching Hours	Credits
<b>Module I: Introduction to Agricultural Geography</b>	<b>12 Lectures</b>	<b>01</b>
1.1 Definition, Nature, Scope and Significance of Agricultural Geography		
1.2 Evolution of agriculture: Ancient, Medieval and Modern Period		
1.3 Determinants of Agriculture: Physical and Human (economic, social, cultural, political and administrative)		
<b>Module II: Agriculture: Systems and Land-use Theory</b>	<b>18 Lectures</b>	<b>01</b>
2.1 Major Agricultural Systems: Nomadic Herding, Livestock Ranching, Shifting Cultivation, Intensive Subsistence Farming, Commercial Farming and Horticulture		
2.1 Von Thunen's Theory of Agricultural land-use		
<b>Module III: Regionalization, Problems and Modern Concepts in Agriculture</b>	<b>18 Lectures</b>	<b>01</b>
3.1 Methods of Agricultural Regionalization: Crop Combination and Crop Diversification		
3.2 Agricultural Problems: Physical and Non-Physical (Economic, Social, Cultural, Political and Administrative)		
3.3 Sustainable Agriculture		
<b>Module IV: Practical (Theory Only)</b>	<b>12 Lectures</b>	<b>01</b>
4.1 Line Graphs		
4.2 Bar Graphs		
4.3 Divided Circle		
4.4 Proportional Square		

# **SHIVAJI UNIVERSITY, KOLHAPUR.**



Accredited By NAAC with 'A' Grade

Revised Syllabus For

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

**Geography**  
(Economic Geography)

**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**

16. SPECIAL INSTRUCTIONS, IF ANY – Nil

**New/ Revised syllabus for  
B. A. Part-III and B. A. B. Ed. (Semester -V)  
(Syllabus to be implemented from June 2020 onwards)**

**(i) Paper – E107 or VIII**

**(ii) Title of Paper - Geography of India.**

**(iii) Specific Objectives: -----**

**(iv) A brief note: - (On expected level of study from examination and assessment point of view) :- -----**

<b>Module</b>	<b>Lectures</b>	<b>Credit</b>
<b>Module -I) Physical Profile of India</b>	<b>20</b>	<b>1</b>
1.1) Location (Absolute and Relative)		
1.2) Physiographic Divisions (Characteristics and Importance)		
1.3) Climate: Summer, Rainy and Winter Seasons in India (weather conditions and Characteristics)		
1.4) Major Drainage Systems: a) Northern River Systems (Sindhu, Ganga & Brahmaputra) b) Southern River Systems (Godavari, Krishna & Cauvery) (Characteristics and Importance)		
<b>Module -II) Soils and Forests</b>	<b>14</b>	<b>1</b>
2.1 Major soil types, characteristics and its distribution in India		
2.2 Soil degradation and soil conservation in India		
2.3 Major forest types: characteristics and their distribution		
2.4 Deforestation and conservation of forests in India		
<b>Module -III) Mineral and Power Resources</b>	<b>13</b>	<b>1</b>
3.1 Conventional Resources: Iron Ore and Manganese (Distribution, Production and Trade)		
3.2 Power Resources: Coal and Mineral Oil (Distribution, Production and Trade)		

# **SHIVAJI UNIVERSITY, KOLHAPUR.**



Accredited By NAAC with 'A' Grade

Revised Syllabus For

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

**Geography (Practical)**  
**(Advanced Tools, Techniques & Field Work in Geography)**

**CBCS PATTERN**

(Subject to the modifications to be made from time to time)  
Syllabus to be implemented from June 2020 onwards

**Revised Syllabus for B. A. – III and B. A. B. Ed.**

(Introduced from June 2020 Onwards)

Revised Syllabus for

B. A. (Part III) Geography

**DSE-E235 or Paper No. XIV (Practical Paper -II)**

**(ii) Title of Paper - Advanced Tools, Techniques & Field Work in  
Geography(100 Marks)**

**Module-I: Introduction to Computer**

**Lectures- 50**

**Marks-10**

1.1: Introduction to Computer

1.2: Application of computer in geography

1.2.1: Construction of Line Graphs, Bar Graphs

1.2.2: Construction of Pie Diagram and Scatter Diagram

1.3: Application of Excel for Data Analysis

**Module-II: Remote Sensing**

**Lectures- 50**

**Marks-15**

2.1 Definition of Remote Sensing

2.2 Fundamentals of Remote Sensing: EMR, Sensors and Platforms

2.3 Application of Remote Sensing in Geography

2.4 Aerial photographs and Satellite imagery: Definition, types and difference between them

2.5 Determination of Photo Scale

2.6 Elements of image interpretation

2.7 Identification of Physical and cultural features from Aerial Photographs or Satellite Imagery

**Module-III: GIS and GNSS**

**Lectures- 50**

**Marks-15**

3.1 Geographical Information System (GIS)

3.1.1 Definition and components

3.1.2 GIS Data Structure: Types (spatial and non-spatial), Raster and Vector data

3.1.3 Georeferencing, Digitization, Map Layout Preparation

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

बी.ए. भाग-२ : B.A. Part-II

अभ्यासक्रम : Syllabus

June, 2019 onward

मराठी अभ्यास मंडळ

Board of Studies in Marathi

Choice Based Credit System

सत्र-३ : Semester No. III

Discipline Specific Core Course (DSC-C1) Marathi Paper No.III

विद्याशाखीय विशेष गाभा (DSC-C1) (अभ्यासपत्रिका - ३)

साहित्यकृती : काय डेंजर वारा सुटलाय! (नाटक)

जयंत पवार, पॉप्युलर प्रकाशन, मुंबई, २०११

: मराठी भाषिक कौशल्ये

शिवाजी विद्यापीठ प्रकाशन, कोल्हापूर, २०१९

उद्दिष्ट्ये:

१. नाटक या वाङ्मय प्रकाराचे आकलन करून घेणे.
२. समकालीन नाटकातून नाटककाराच्या समकालाचे प्रतिबिंब कशाप्रकारे प्रकट होते याचा अभ्यास करणे.
३. नाट्याभ्यासाद्वारे प्रयोगरूप नाटक व नाट्यक्षेत्रातील ज्ञानसंपादनास चालना देणे.
४. नाट्याभ्यासातून सभ्यता, संस्कृती, राष्ट्रीय एकात्मता व बंधुता वाढीस लावणे.
५. विद्यार्थ्यांमध्ये संवादलेखन कौशल्ये विकसित करणे.

अ. क्र. Sr. No.	घटक Topic	अध्यापन तासिका Teaching Hours	श्रेयांक Credit
विभाग १ Module I	काय डेंजर वारा सुटलाय! – आशयसूत्रे	१५	१
विभाग २ Module II	काय डेंजर वारा सुटलाय! – पात्रे, घटनाप्रसंग, संवाद व संघर्षाचे स्वरूप	१५	१
विभाग ३ Module III	काय डेंजर वारा सुटलाय! – नाट्यविशेष व भाषाविशेष	१५	१
विभाग ४ Module IV	उपयोजित मराठी – संवाद लेखन ● संवाद : स्वरूप आणि व्याख्या ● संवाद कौशल्यासाठी आवश्यक बाबी ● संवादाचे प्रकार ● उदाहरणदाखल कथानकावर संवादलेखन	१५	१

# शिवाजी विद्यापीठ, कोल्हापूर

SHIVAJI UNIVERSITY, KOLHAPUR

बी.ए. भाग-२ : B.A. Part-II

अभ्यासक्रम : Syllabus

June, 2019 onward

मराठी अभ्यास मंडळ

Board of Studies in Marathi

Choice Based Credit System

सत्र-३ : Semester No. III

Discipline Specific Core Course (DSC-C2) Marathi Paper No. IV

विद्याशाखीय विशेष गाभा (DSC-C2) (अभ्यासपत्रिका - ४)

पाठ्यपुस्तक : काव्यगंध

शिवाजी विद्यापीठ प्रकाशन, कोल्हापूर, २०१९

: मराठी भाषिक कौशल्ये

शिवाजी विद्यापीठ प्रकाशन, कोल्हापूर, २०१९

उद्दिष्ट्ये:

१. मराठी काव्यपरंपरा व प्रवाहांची ओळख करून घेणे.
२. मराठी काव्यातून प्रकट होणारे माणूस आणि समाज यातील परस्पर संबंध शोधणे.
३. कवितेच्या कलात्मक आकृतीबंधाचे मोल अभ्यासणे.
४. काव्यप्रवाहानुरूप काव्यलेखनाचे विशेष अभ्यासणे.
५. प्रात्यक्षिकाद्वारे काव्यलेखन कौशल्ये रुजविणे.

अ. क्र. Sr. No.	घटक Topic	अध्यापन तासिका Teaching Hours	श्रेयांक Credit
विभाग १ Module I	केशवसुत- १. अंत्यजाच्या मुलाचा पहिला प्रश्न २. नवा शिपाई (सामाजिक) ३. तुतारी ४. मजुरावर उपासमारीची पाळी ५. गोफण केली छान! वसंत बापट- १. फुंकर २. जपावयाला शिकली होतीस ३. आज (प्रेमविषयक) अचानक ४. नाजुक रुपडे ५. विस्मृती	१५	१
विभाग २ Module II	नारायण सुर्वे- १. दोन दिवस २. माझी आई ३. गिरणीची लावणी (श्रमविषयक) ४. पोष्टर ५. नेहरू गेले त्या वेळची गोष्ट वसंत आबाजी डहाके- १. त्या संध्याकाळी समुद्र २. आख्यान (महानगरीय) ३. खेळ ४. पुतळे ५. वास्तववाद	१५	१
विभाग ३ Module III	अजीम नवाज राही- १. दुष्काळ : काही संदर्भ (वंचितांची कविता) २. जातीय दंगल : बारा भानगडींची तेरा वळणे ३. सुरक्षेची हमी देणारा कळपवाद! ४. मोडतोडीतून डागडुजीची भाषा शिकताना ५. मोहल्ला, पक्षी आणि कातरवेळ कल्पना दुधाळ- १. बाय आणि गाय २. झुलत्या फांदीला (कृषी जाणीव) ३. घोषणा ४. खस्ता ५. धग असतेच आसपास	१५	१
विभाग ४ Module IV	उपयोजित मराठी - काव्यनिर्मिती प्रक्रिया १. प्रसंगावर २. घटनेवर ३. चित्रावर ४. अनुभवावर	१५	१



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बी.ए. भाग-२ : B.A. Part-II

अभ्यासक्रम : Syllabus

June, 2019 onward

मराठी अभ्यास मंडळ

Board of Studies in Marathi

Choice Based Credit System

सत्र-४ : Semester No. IV

Discipline Specific Core Course (DSC-C25) Marathi Paper No. V

विद्याशाखीय विशेष गाभा (DSC-C25) (अभ्यासपत्रिका - ५)

साहित्यकृती : माती, पंख आणि आकाश (आत्मचरित्र)

ज्ञानेश्वर मुळे, मनोविकास प्रकाशन, पुणे, आवृत्ती अकरावी, २०१७

: मराठी भाषिक कौशल्ये

शिवाजी विद्यापीठ प्रकाशन, कोल्हापूर, २०१९

उद्दिष्ट्ये:

१. आत्मचरित्र या वाङ्मयप्रकाराची ओळख करून घेणे.
२. इतर वाङ्मयप्रकार आणि आत्मचरित्र यातील अभिव्यक्ती रूपांचा अभ्यास करणे.
३. आत्मचरित्रकाराच्या व्यक्तिमत्त्वाची जडण-घडण आणि त्याचा समकाल समजून घेणे.
४. वेगवेगळ्या भारतीय प्रांतातील व परदेशातील जीवनदर्शन समजून घेणे.
५. आत्मवृत्तपर लेखन कौशल्ये विकसित करणे.

अ. क्र. Sr. No.	घटक Topic	अध्यापन तासिका Teaching Hours	श्रेयांक Credit
विभाग १ Module I	माती, पंख आणि आकाश - जीवनानुभवाचे स्वरूप	१५	१
विभाग २ Module II	माती, पंख आणि आकाश - शैक्षणिक, सामाजिक आणि सांस्कृतिक पर्यावरण	१५	१
विभाग ३ Module III	माती, पंख आणि आकाश - वाङ्मयीन गुणविशेष	१५	१
विभाग ४ Module IV	उपयोजित मराठी - आत्मवृत्तलेखनाचे स्वरूप १. आत्मकथन/स्वकथन २. प्रवास वर्णन ३. रोजनिशी	१५	१

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**SHIVAJI UNIVERSITY, KOLHAPUR**

बी.ए. भाग-२ : B.A. Part-II

अभ्यासक्रम : Syllabus

June, 2019 onward

मराठी अभ्यास मंडळ

Board of Studies in Marathi

Choice Based Credit System

सत्र-४ : Semester No. IV

Discipline Specific Core Course (DSC-C26) Marathi Paper No. 6

विद्याशाखीय विशेष गाभा (DSC-C26) (अभ्यासपत्रिका - ६)

साहित्यकृती : जुगाड (कादंबरी)

किरण गुरव, दर्या प्रकाशन, पुणे, २०१८

: मराठी भाषिक कौशल्ये

शिवाजी विद्यापीठ प्रकाशन, कोल्हापूर, २०१९

उद्दिष्ट्ये:

१. कादंबरी वाङ्मयप्रकाराची ओळख करून घेणे.
२. समकालीन कादंबरीतील नव्या अवकाशाचा शोध घेणे व आधुनिकतेमधील अंतर्विरोध समजून घेणे.
३. मानवी मूल्यांविषयी जाणीव निर्माण करणे.
४. कादंबरीलेखनाचे विशेष अभ्यासणे.
५. वृत्तांतलेखन कौशल्ये रुजविणे.

अ. क्र. Sr. No.	घटक Topic	अध्यापन तासिका Teaching Hours	श्रेयांक Credit
विभाग १ Module I	जुगाड - आशयसूत्रे	१५	१
विभाग २ Module II	जुगाड - घटना, प्रसंग आणि व्यक्तिरेखांचे स्वरूप व पर्यावरण	१५	१
विभाग ३ Module III	जुगाड - वाङ्मयीन विशेष	१५	१
विभाग ४ Module IV	उपयोजित मराठी - वृत्तांतलेखन : <ul style="list-style-type: none"><li>● वृत्तांतलेखनाचे स्वरूप</li><li>● वृत्तांतलेखनाचे घटक आणि वैशिष्ट्ये</li><li>● वृत्तांतलेखकाच्या अंगी आवश्यक गुण</li><li>● साहित्य/संशोधन/शैक्षणिक स्थळास अभ्यास सहलीद्वारे प्रत्यक्ष भेट देऊन त्यावर आधारित वृत्तांतलेखनाचा सराव करवून घेणे</li></ul>	१५	१

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## SHIVAJI UNIVERSITY, KOLHAPUR

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अभ्यासक्रम : Syllabus

June 2018 onward

Board of Studies in Marathi

Choice Based Credit System

Compulsory Generic Elective (CGE-1) : Marathi (Course - A)

आवश्यक अनुषंगिक निवड (CGE-1) : मराठी (अभ्यासपत्रिका - अ)

सत्र १ : Semester - I

पाठ्यपुस्तक - शब्दसंहिता

१. नापास मुलांची गोष्ट (निवडक लेख)

संपा. अरुण शेवते, ऋतुरंग प्रकाशन, मुंबई.

२. व्यक्तिमत्त्व विकास आणि भाषा

उद्दिष्टे :

१. विद्यार्थ्यांची मराठी भाषा आणि साहित्याविषयी अभिरूची विकसित करणे.
२. मराठी साहित्य परंपरा, लेखक, कवी यांचा परिचय करून देणे.
३. विद्यार्थ्यांमध्ये मातृभाषा, राष्ट्रीय एकात्मता आणि उच्च मानवी मूल्यांविषयी जाणीव निर्माण करणे.
४. विद्यार्थ्यांचा व्यक्तिमत्त्व विकास घडवून विविध परीक्षा आणि स्पर्धा परीक्षांची पूर्वतयारी करून घेणे.
५. निबंधलेखनाच्या माध्यमातून भाषा उपयोजनाची कौशल्ये विकसित करणे.

अ.क्र. Sr.No.	घटक Topic	अध्यापन तासिका Teaching Hours	श्रेयांक Credit
विभाग १ Module I	१) निवड - यशवंतराव चव्हाण २) वाटेवरच्या सावल्या - कुसुमाग्रज ३) पन्नास पैकी शून्य मार्कस् - शांताबाई शेळके	१५	१
विभाग २ Module II	४) शब्दांचे मोल - चंद्रशेखर धर्माधिकारी ५) संगमनेरचे दिवस - दया पवार व्यक्तिविशेष लेख : ६) संकल्प सिद्धीला नेणारा महापुरुष : डॉ. बापूजी साळुंखे - बळवंत देशमुख	१५	१
विभाग ३ Module III	● व्यक्तिमत्त्व संकल्पना ● व्यक्तिमत्त्व विकासासाठी आवश्यक घटक ● व्यक्तिमत्त्व विकासात भाषेचे महत्त्व	१५	१
विभाग ४ Module IV	● भाषिक कौशल्ये(श्रवण, वाचन, भाषण आणि लेखन कौशल्ये) ● कार्यक्रमाचे संयोजन - स्वागत, प्रास्ताविक, परिचय, मनोगत, आभार, सूत्रसंचलन आणि कार्यक्रमाचे फलकलेखन	१५	१

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**SHIVAJI UNIVERSITY, KOLHAPUR**

बी.ए.१/बी.कॉम.१ : B.A. I/B.Com I

अभ्यासक्रम : Syllabus

June 2018 onward

Board of Studies in Marathi

Choice Based Credit System

Compulsory Generic Elective (CGE-2) : Marathi (Course - B)

आवश्यक अनुषंगिक निवड (CGE-2) : मराठी (अभ्यासपत्रिका - ब)

सत्र २ : Semester - II

पाठ्यपुस्तक - शब्दसंहिता

अ.क्र. Sr.No.	घटक Topic	अध्यापन तासिका Teaching Hours	श्रेयांक Credit
विभाग १ Module I	१. संत नामदेव १) पतितपावन २) पंढरीस जावे २. अनंत फंदी १) जमाना आला उफराटा २) हे मुखी खूण तर्का ३. महात्मा फुले १) मानवांचा धर्म एक २) धीर ४. बालकवी १) फुलराणी २) अप्सरांचे गाणे	१५	१
विभाग २ Module II	५. विंदा करंदीकर १) माझ्या मना बन दगड २) झपताल ६. वाहरू सोनवणे १) गोधड २) चळवळ म्हणजे ७. प्रज्ञा दया पवार १) माणसासारखा माणूस असूनही २) आग आणि फुफाटा ८. एकनाथ पाटील १) शहर एक उदास पोकळी २) शोधयात्रा	१५	१
विभाग ३ Module III	● निबंधाचे स्वरूप, व्याप्ती ● निबंधाचे घटक ● निबंधाचे प्रकार ● निबंधाची वैशिष्ट्ये	१५	१
विभाग ४ Module IV	● निबंध लेखन (प्रात्यक्षिकासह वर्गात सराव करून घेणे)	१५	१

# शिवाजी विद्यापीठ, कोल्हापूर

## SHIVAJI UNIVERSITY, KOLHAPUR

बी.ए.१ : B.A. I

अभ्यासक्रम : Syllabus

June 2018 onward

Board of Studies in Marathi

Choice Based Credit System

Discipline Specific Core (DSC-A1) : Marathi (Course - I)

विद्याशास्त्रीय विशेष गाभा (DSC-A1) : मराठी (अभ्यासपत्रिका - १)

सत्र १ : Semester - I

पाठ्यपुस्तक - अक्षरबंध

१. कथा - निवडक भास्कर चंदनशिव - लाल चिखल (निवडक कथा)

संपा. इंद्रजित भालेराव, लोकवाङ्मय गृह, मंबई.

२. चित्रपट : आस्वाद प्रक्रिया

उद्दिष्ट्ये :

१. विद्यार्थ्यांची मराठी भाषा आणि साहित्याविषयी अभिरूची विकसित करणे.
२. मराठी साहित्य परंपरा, लेखक, कवी यांचा परिचय करून देणे.
३. विद्यार्थ्यांमध्ये मातृभाषा, राष्ट्रीय एकात्मता आणि उच्च मानवी मूल्यांविषयी जाणीव निर्माण करणे.
४. विद्यार्थ्यांचा व्यक्तिमत्त्व विकास घडवून विविध परीक्षा आणि स्पर्धा परीक्षांची पूर्वतयारी करून घेणे.
५. चित्रपट आणि प्रसारमाध्यमे यांच्या लेखन आणि उपयोजनाच्या आकलनाचा अवकाश वाढविणे.

अ.क्र. Sr.No.	घटक Topic	अध्यापन तासिका Teaching Hours	श्रेयांक Credit
विभाग १ Module I	कथा - निवडक भास्कर चंदनशिव • उमाळं • जांभळढव्ह • तडा	१५	१
विभाग २ Module II	• वासना • लाल चिखल • पाणी	१५	१
विभाग ३ Module III	• चित्रपट म्हणजे काय ? • चित्रपट : एक दृक श्राव्य माध्यम • चित्रपट : माध्यमांतर • दिग्दर्शकाचा दृष्टिकोन • छायाचित्रण	१५	१

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

बी.ए.१ : B.A. I

अभ्यासक्रम : Syllabus

June 2018 onward

Board of Studies in Marathi

Choice Based Credit System

Discipline Specific Core (DSC-A13) : Marathi (Course - II)

विद्याशाखीय विशेष गाभा (DSC-A13) : मराठी (अभ्यासपत्रिका - २)

सत्र २ : Semester - II

पाठ्यपुस्तक - अक्षरबंध

१. कविता : ... बाकी सर्व ठीक आहे - लोकनाथ यशवंत (निवडक कविता)

प्रकाशक - समुद्र पब्लिकेशन, नागपूर

२. वृत्तपत्रीय व स्पर्धा परीक्षेसाठी लेखन

अ.क्र. Sr.No.	घटक Topic	अध्यापन तासिका Teaching Hours	श्रेयांक Credit
विभाग १ Module I	...बाकी सर्व ठीक आहे - लोकनाथ यशवंत (निवडक कविता) १) जीवाचा आटापिटा २) मुख्यप्रवाह ३) एका वृक्षाची गोष्ट ४) राग ५) जीवन सुंदर आहे ६) भविष्य ७) तडजोड ८) पर्सनल मुलाखत	१५	१
विभाग २ Module II	९) गौडबंगाल १०) पर्यावरण ११) सोन्याचा दात १२) मांजर १३) स्पर्श १४) युद्ध असे सुरू होते १५) जन्म आईचा १६) शेतमजूर	१५	१
विभाग ३ Module III	वृत्तपत्रीय लेखन ● बातमी ● अग्रलेख ● वाचकांचा पत्रव्यवहार ● नाटक/चित्रपट परीक्षण	१५	१

# SHIVAJI UNIVERSITY, KOLHAPUR

Syllabus

B.A.-II

SEMESTER - III

## PAPER III- HISTORY OF MODERN MAHARASHTRA (1900 to 1960)

(CHOICE BASED CREDIT SYSTEM – (CBCS)

Credits: 04

(introduced from June 2019)

The first sixty years of 20<sup>th</sup> century was a period of great upheaval in Maharashtra. The events and changes that took place during this period made a lasting impact on the polity, society and economy of the region. The identity of Maharashtra region was forged during this period. This course introduces the students to the key historical events and transformations which have played an important role in making of modern Maharashtra

### After studying the course the student will be able to...

CO1. Understand the beginnings and growth of nationalist consciousness in Maharashtra

CO2. Explain the contribution of Maharashtra to the national movement

CO3. Give an account of various movements of the peasants, workers, women and backward classes

CO4. Know the background and events which led to the formation of separate state of Maharashtra.

### MODULE-1 Rise and Growth of Nationalism

- a) Rise of Nationalism 15
- b) Contribution of Gopal Krishna Gokhale
- c) Contribution of Lokmanya Tilak

### MODULE -2 Role of Maharashtra in the National Movement

- a) Revolutionary Movement 15
- b) Non-Cooperation Movement
- c) Civil Disobedience Movement with special reference to the uprising in Solapur
- d) Quit India Movement with special reference to Prati Sarkar Movement

### MODULE -3 Social Movements

- a) Peasants and Workers 15
- b) **Women's rights**
- c) Emancipation of Backward Classes

### MODULE -4 Samyukta Maharashtra Movement

- a) Background 15
- b) Contribution of the Samyukta Maharashtra Samiti
- c) Events leading to the formation of Maharashtra State

# **SHIVAJI UNIVERSITY, KOLHAPUR.**



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Accredited By NAAC with 'A++' Grade  
(CBCS Syllabus with MEME in accordance with NEP)  
For

**B.A. Part - I**

**English (Discipline Specific Core)**

**(Syllabus to be implemented from June, 2022 onwards.)**



**B.A. Part I (Discipline Specific Core) (DSC-A3)**  
**(English Paper–I) (Semester–I)**  
**Modern Indian Writing in English Translation**  
**(CBCS with MEME in**  
**accordance with NEP)**  
**Detailed Syllabus**

**Course Objectives:**

1. To acquaint the students with translated Modern Indian literature in English.
2. To introduce the students to short story as a form of literature with reference to the texts prescribed.
3. To develop literary competence among students.

**Short Stories-**

**Unit1.** Short Story as a Minor Form of Literature: Characteristic Features

**Unit2.** Short Story as a Minor Form of Literature: Types

**Unit3.A)** Premchand's 'The Shroud'

**B)** Saratchandra Chatterji's 'Laloo'

**Unit4.A)** Gurdial Singh 'A Season of No Return'

**B)** Fakir Mohan Senapati 'Rebati'

Division of Teaching: 4 X 15 Periods = 60 Periods

**\*Note: Semester I: 10 Marks for Internal Evaluation: Home Assignment**

**Short Stories Prescribed from:**

Premchand 'The Shroud' in *Penguin Book of Classic Urdu Stories*, ed. M. Assaduddin (New Delhi: Penguin/Viking, 2006).

Saratchandra Chatterji 'Laloo', in *Indian Short Stories*, ed. Manmohan Saksena (Oxford University Press, Amen House, London E.C.4, 1951).

Gurdial Singh 'A Season of No Return', in *Earthy Tones* tr. Rana Nayar (Delhi Fiction House, 2002).

Fakir Mohan Senapati 'Rebati', in *Oriya Stories*, ed. Vidya Das, tr. Kishori Charan Das (Delhi: Shrishti Publishers, 2000).

**B.A. Part I (Discipline Specific Core) (DSC–A15)**  
**(English Paper–II) (Semester–II)**  
**Modern Indian Writing in English Translation**  
**(CBCS with MEME in accordance with NEP)**

**Detailed Syllabus**

**June 2022 onwards**

**Course Objectives:**

1. To acquaint the students with translated Modern Indian literature in English.
2. To introduce the students to poetry and play as forms of literature with reference to the texts prescribed.
3. To develop literary competence among students.

**Poems–**

**Unit1.**

**Rabindranath Tagore:**

- i) Light, Oh Where is the Light?
- ii) When My Play Was With Thee

**Amrita Pritam:**

- i) I Say Unto Waris Shah

**Unit2.G.M.Muktibodh:**

- i) The Void
- ii) So Very Far

**Play-**

**Unit 3. Satish Alekar– *The Dread Departure (Mahanirvan)*.**

**Unit 4. Satish Alekar– *The Dread Departure(Mahanirvan)*.**

Division of Teaching: 4X15 Periods=60 Periods

**\*Note: Semester II: 10 Marks for Internal Evaluation: Unit Test**

**Poems/ Play Prescribed from:**

Rabindranath Tagore i) ‘Light, Oh Where is the Light?’ and ii) ‘When My Play Was With Thee’ in *Gitanjali: A new Translation with an Introduction* by William Radice, (New Delhi: Penguin India, 2011).

G.M.Muktibodhi) ‘The Void’, (tr. Vinay Dharwadker) and ii) ‘So Very Far’, (tr. Vishnu Khare and Adil Jussawala), in *The Oxford Anthology of Modern Indian Poetry*, ed. Vinay Dharwadker and A.K. Ramanujan (New Delhi: OUP, 2000).

Amrita Pritam ‘I Say Unto Waris Shah’, (tr. N.S. Tasneem) in *Modern Indian Literature: An Anthology, Plays and Prose Surveys and Poems*, ed. K. M. George, Vol. 3 (Delhi Sahitya Academy, 1992).

# SHIVAJI UNIVERSITY, KOLHAPUR



Estd. 1962

“A<sup>++</sup>” Accredited by NAAC (2021) With CGPA 3.52

Faculty of Humanities

CHOICE BASED CREDIT SYSTEM

Revised Syllabus in accordance with NEP, 2020

Syllabus for

**B.A. Part II (Sem. III & IV)**

**English (Compulsory)**

(Ability Enhancement Compulsory Course)

(Revised syllabus to be implemented from June, 2023 onwards)

## Semester–III

## AECC-III (Paper-C)

### Module I

A) Oral Skills

B) A Real Good Smile – Bill Naughton

C) Mending Wall – Robert Frost

### Module II

A) Conversation Skills

B) The Highway – Ray Bradbury

### C) Module III

A) Developing Writing Skills

B) Whitewashing the Fence – Mark Twain

### Module IV

A) Father Returning Home – Dilip Chitre

B) There is a Garden in Her Face – Thomas Campion

### Division of Teaching hours (Total 60 Periods)

1. Communication Skills: 3X12 = 36periods

2. Reading Comprehension: 6X4 =24periods

**\*Note: Semester III: 10 Marks for Internal Evaluation: Group Activity**

## PATTERN OF QUESTION PAPER

(June 2023 Onwards)

Semester III (Paper C)

Total Marks: 40

Q. No	Sub Q.	Type of Question	Based on	Marks
Q. 1	A.	Five multiple choice questions with four alternatives to be set	Prose and Poetry	05
	B.	Two different <b>Vocabulary Exercises</b> to be set for 1 mark each	Prose and Poetry	02
Q.2	A.	Answer the following questions in 3-4 sentences each. ( 3 out of 5)	3 on Prose and 2 on Poetry	06
	B.	Write <b>Short Notes</b> on the following in about 5-6 sentences each. ( 2 out of 3)	1 on Prose and 2 on Poetry	06
Q.3	A.	Question to be set on ORAL SKILLS	Module I A	04
	B.	Question to be set on ORAL SKILLS	Module I A	03
Q.4	A.	Question to be set on CONVERSATION SKILLS	Module II A	04
	B.	Question to be set on CONVERSATION SKILLS	Module II A	03
Q.5	A.	Question to set on DEVELOPING WRITING SKILLS	Module III A	04
	B.	Question to set on DEVELOPING WRITING SKILLS	Module III A	03

# **SHIVAJI UNIVERSITY, KOLHAPUR.**



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Accredited By NAAC with 'A++' Grade

**(CBCS Syllabus with MEME in accordance with NEP)**

Syllabus For

**B.A. Part-I**

**English**

**(Ability Enhancement Compulsory Course)**

**(Syllabus to be implemented from June, 2022 onwards.)**

**B.A. Part I – Ability Enhancement Compulsory Course (AECC1)  
(Compulsory English)  
(CBCS with MEME in accordance with NEP)  
English for Communication Detailed Syllabus  
June 2022 onwards**

**Course Objectives:**

1. To acquaint students with communication skills.
2. To inculcate human values among the students through poems and prose.
3. To improve the language competence of the students

**Semester–I                      AECC1                      (Paper-A)**

**Module I**

- A) Developing Vocabulary
- B) On Saying Please-A. G. Gardiner

**Module II**

- A) Narration
- B) **In Passion’s Shadow-Mohan Rakesh**

**Module III**

- A. English for General Purposes
- B. **The Solitary Reaper-William Wordsworth**

**Module IV**

- A. **My School**, by Rabindranath Tagore
- B. **All the World is a Stage**-William Shakespeare
- C. **The Street**-Kusumagraj

**Division of Teaching hours (Total 60 Periods)**

1. Communication Skills: 3X12=36 periods
2. Reading Comprehension: 6X4=24 periods

**\*Note: Semester I: 10 Marks for Internal Evaluation: Home Assignment**

**B.A. Part I– Ability Enhancement Compulsory Course (AECC2)**

**(Compulsory English)**

**(CBCS with MEME in accordance with NEP)**

**English for Communication Detailed Syllabus**

**June 2022 onwards**

**Semester –II**

**(AECC2)**

**(Paper–B)**

**Module V**

A. Making Inquiries

**B. The Lost Child-Mulk Raj Anand**

**Module VI**

A. Telephonic Communication

**B. To My Countrymen- A P J Abdul Kalam**

**Module VII**

A. Description

**B. A Village Girl-Mohan Singh**

**Module VIII**

**A. My Elder Brother-Premchand**

B. The Tiger-William Blake

C. A Poet-ChandrakantPatil

**Division of Teaching hours(Total 60 Periods)**

1. CommunicationSkills:3X12=36periods
2. ReadingComprehension:6X4=24periods

**\*Note: Semester II: 10 Marks for Internal Evaluation: Unit Test**

# **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.**



**Shivaji University, Kolhapur**  
**B. A.III**  
**Compulsory English**  
**Ability Enhancement Compulsory Course (CBCS)**  
**ENGLISH FOR COMMUNICATION**  
**From June 2020 Onwards**

**Course Objectives:**

- To enhance students' communication skills
- To impart employability skills to students
- To prepare students for competitive examinations
- To enable students to acquire professional skills such as media writing
- To enable students to learn manners and etiquettes required at workplace
- To enhance students' reading comprehension skills
- To create interest in English literature among students
- To inculcate human values and ethics in order to enable students' to become good citizens of the country

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

- Communicate in English, in oral and written modes, in their day-to-day lives as well as at workplaces.
- Face job interviews confidently and efficiently.
- Acquire soft skills required at workplaces and in real life.
- Learn group behavior and team work.
- Learn to value and respect others' opinions and views and develop democratic attitude.
- Face competitive examinations confidently and efficiently with adequate linguistic confidence.
- Acquire professional skills required in media writing such as writing editorials.
- Learn to appreciate and enjoy reading poetry and prose passages.
- Acquire human values and develop cultured outlook.

**SEMESTER V      AECC 5**

**MODULE I**

A. Interview Skills

B. The Interview -V.V. John

**MODULE II**

A. Grammar for Competitive Examinations

B. The Lottery - Shirley Jackson

**MODULE III**

A. Writing Skills for Competitive Examinations

B. After Twenty Years - O' Henry

**MODULE IV**

A. I Shall Return To This Bengal - Jibananda Das

B.(i) Song of Youth - A. P. J. Abdul Kalam

(ii) The Orphan Girl - Henry Derezio

**\*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 Aristotle's <i>Poetics</i> )
<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 William Wordsworth's <i>Preface to Lyrical Ballads</i> )
<b>Module VI</b>	<b>Victorian Criticism:</b> Matthew Arnold's Touchstone Method ( From Matthew Arnold's <i>The Study of Poetry</i> )
<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.III

English Special

ENGLISH POETRY (CBCS)

Discipline Specific Elective

Semester V (Paper VIII) (DSE – E12) and Semester VI (Paper XIII) (DSE – E137)

(From June 2020 Onwards)

**Course Objectives:**

- To make students engaged and curious readers of poetry
- To introduce students to poetry from various cultures and traditions
- To make students understand that poetry gives intellectual, moral and linguistic pleasures
- To make students hear and read poems aloud and to memorize lines

**Course Outcomes:**

- Students will be able to trace the development of the poetry in English from the days of Shakespeare to the contemporary India.
- Students will be able to appreciate and analyze the poems properly.
- Students will have a fairly comprehensive view of the Western and Eastern poetic tradition and they will be able to relate it to various literary movements.
- Students will have an insight into poetry and they will be able to make a lively and interesting reading.

SEMESTER V (Paper VIII) (DSE – E12)		
MODULE NO.	TITLE OF THE MODULE	NAME OF THE POET
<b>I. Topics For Background Readings:</b>		
1.	Elizabethan Poetry	
2.	Metaphysical Poetry	
3.	Romantic Poetry	
<b>II. Selections from Elizabethan Poetry:</b>		
1.	Sweet Warrior (Sonnet 57)	Edmund Spenser
2.	Sonnet To The Moon	Sir Philip Sydney
3.	Full Many A Glorious Morning... (Sonnet 33)	William Shakespeare
<b>III. Selections from Metaphysical Poetry:</b>		
1.	The Sun Rising	John Donne
2.	The Retreat	Henry Vaughan
3.	The Collar	George Herbert
<b>IV. Selections from Romantic Poetry:</b>		
1.	My Heart Leaps Up	William Wordsworth
2.	The Rime of the Ancient Mariner	S. T. Coleridge
3.	Ozymandias	P. B. Shelley
4.	When We Two Parted	Lord Byron
<b>*Note: Semester V: 10 Marks for Internal Evaluation: STUDENTS' SEMINAR</b>		

SEMESTER VI (Paper XIII) (DSE – E137)		
MODULE NO.	TITLE OF THE MODULE	NAME OF THE POET
<b>V. Topics For Background Readings:</b>		
1.	Victorian Poetry	
2.	Modern English Poetry	
3.	Modern Indian English Poetry	
<b>VI. Selections from Victorian Poetry:</b>		
1.	The Lady Of Shallot	Alfred Lord Tennyson
2.	My Last Duchess	Robert Browning
3.	Love Came Down At Christmas	Christiana Rossetti
<b>VII. Selections from Modern English Poetry:</b>		
1.	No Second Troy	W. B. Yeats
2.	The Hollow Men	T. S. Eliot
3.	Tonight I Can Write	Pablo Neruda
<b>VIII. Selections from Modern Indian English Poetry:</b>		
1.	The Professor	Nissim Ezekiel
2.	A Hot Noon in Malabar	Kamala Das
3.	A River	A. K. Ramanujan
4.	A Kind of Happiness	Jayanta Mahapatra
<b>*Note: Semester VI: 10 Marks for internal Evaluation: STUDENTS' GROUP PROJECT</b>		

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

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

- Appelbaum, Stanley. *English Romantic Poetry: An anthology*. Dover Publications Inc. 1996.
- Burrow, Colin. *Metaphysical Poetry*. Penguin Classics. 2006.
- Chaudhuri, Roshinka. *A History of Indian Poetry in English*. Cambridge University press. 2016.
- Chaudhuri, Sukanta. *Modern Indian Literature*, New Delhi: OUP, 2004.
- Courthope, W.J. *A History of English Poetry*. Vol.I Macmillan, 1995.
- Craig, W.J. (ed.). *The Complete works of William Shakespeare*. Oxford: OUP., 1905.
- Fenton, James. *An Introduction to English Poetry*. New York: Farrar, Strauss and Giroux, 2004.
- Gardner, Martin, *The Annotated Ancient Mariner*, New York:Clarkson Potter,1965.
- Harold Bloom and Lionel Trilling. (ed.) *Romantic Prose and Poetry*, New York: OUP, 1973.
- Mitra, Zinia(ed.). *Indian Poetry in English:Critical Essays*. New Delhi: PHI Learning Pvt Ltd.,2012.
- Naik, M.K. *A History of Indian English Literature*. Delhi, 1982.
- Narasimhaiah, C.D., (ed.) *An Anthology of Commonwealth Poetry*,Delhi: Macmillan, 1990.
- Negri,Paul. *English Victorian poetry*. Dover Publications Inc. 1998
- Ramanan, M.G. *Modern English Poetry: A Selection*. New Delhi:Orient Blackswan,2013.
- Samuel Taylor Coleridge, *Biographia Literaria*, ed. George Watson. London: Everyman, 1993.

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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.

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

**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*

**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**



# SHIVAJI UNIVERSITY KOLHAPUR



ESTD. 1962  
NAAC A++ Grade

**Bachelor of Commerce (B. Com.)**  
**Under the Faculty of Commerce and**  
**Management Choice Based Credit System (CBCS)**  
(Regulations in accordance with **National Education**  
**Policy** with effect from Academic Year 2022-23)

## B. Com. Part-I (Level-5) SEMESTER-I

### Shivaji University Kolhapur

Syllabus in accordance with NEP- 2020  
with effect from Academic Year 2022-23

#### B.Com-I (Semester-I)

Course Code: DSC-1 Discipline Specific Course

#### Financial Accounting Paper-I

Credits: 4

60 hours Course	Course Content	Total 50 Marks
<b>Course Outcomes:</b>	After completing this course, students will be able: 1. To get an idea about the basic of accounting, accounting concepts and conventions and accounting process. 2. To acquaint with skill of recording transactions related to amalgamation of partnership firm. 3. To apply skills of accounting for consignment transactions. 4. To make use of knowledge and skill for accounting of professionals.	(Marks: 40 for Examination 10 for Internal Assessment)
<b>Unit-I:</b>	<b>Introduction to Accounting:</b>	<b>(15 hours)</b>
	Basic Accounting Concepts and Conventions, Accounting Process, Accounting Standards- Need & Procedure, Concept of IFRS	
<b>Unit-II:</b>	<b>Accounting for Amalgamation of Partnership:</b>	<b>(15 hours)</b>
	Amalgamation of Partnership Firms	
<b>Unit-III:</b>	<b>Consignment Accounting:</b>	<b>(15 hours)</b>
	Consignment Accounts- Important Terms and Accounting in the books of Consignor and Consignee.	
<b>Unit-IV:</b>	<b>Accounting of Professionals:</b>	<b>(15 hours)</b>
	Accounts of Professionals- preparation of Receipts and Expenditure Account and Balance sheet of Medical Practitioners and Professional Accountants.	

#### Reference Books:

1. Gupta R.L. and Radhaswamy M- 'Financial Accounting' Sultan Chand Sons, New Delhi.
2. Shukla M.C. Grewal T.S. and Gupta S.C.- 'Advanced Accounts' S. Chand and Company, New Delhi.
3. Agarwala A.N. Agarwala K.N.- 'Higher Science of Accountancy' Kitab Mahal Allahabad.
4. Jain and Narang- 'Advanced Accountancy' Kalyani Publications, New Delhi.
5. S.N. Maheswari- 'Advanced Accountancy'
6. Compendium of statement and standard of Accounting. The Institute of Chartered Accountants of India.
7. Rajan Chougule, Dhaval Chougule- "Theory and practice of Computer Accounting" Modern Publication, Kolhapur.

Note- College should make a provision of necessary computers for commerce department to train the students in computer Accounting as prescribed in the syllabus.

## Shivaji University Kolhapur

Syllabus in accordance with NEP- 2020  
with effect from Academic Year 2022-23

### B.Com-I (Semester-I)

Course Code: DSC-2: Discipline Specific Course  
**Management Functions and Application-Paper-I**

**Credits: 04**

60 hours Course	Course Content	Total 50 Marks
<b>Course Outcomes:</b>	After completing this course, students will be able: 1. To get an idea about the basic managerial process and planning works in real life 2. To develop decision making skills to evaluate various alternatives and situations. 3. To acquaint with the knowledge of organizing various resources. 4. To understand the concepts of authority and process of delegation of authority. 5. To understand importance of proper direction and to develop their communication skill.	(Marks: 40 for Examination 10 for Internal Assessment)
<b>Unit-I:</b>	<b>Introduction to the Management:</b>	<b>(15 hours)</b>
	Meaning, Definition, Concept, Characteristics, Need for Management Study, Levels of Management, <b>Contribution Towards Development of Management Theory</b> a) Elton Mayo- Hawthorne Experiments and their findings. b) Peter Drucker- Management by Objectives (8), Its Merits and Demerits. c) C.K Prahlad- Core Competence	
<b>Unit-II:</b>	<b>Planning and Decision Making:</b>	<b>(15 hours)</b>
	Meaning and techniques of Forecasting, SWOC Analysis. Meaning and Definition of Planning - Types of Planning – Steps in Planning Process <b>Decision Making- Concept, Importance, Decision-making</b> Process, Techniques of Decision making -qualitative and quantitative, Six Thinking Hats.	
<b>Unit-III:</b>	<b>Organizing and Staffing Organizing:</b>	<b>(15 hours)</b>
	Meaning, Concept, Steps of organization, Principles of organizing Delegation of Authority: Meaning, Elements, Difficulties in delegation, Guidelines for making effective delegation. Centralization and Decentralization: Meaning, Merits and Demerits <b>Staffing: Concept Need and importance of Staffing, Sources of Recruitment, Scientific Selection Process</b>	
<b>Unit-IV:</b>	<b>Direction and Communication Direction:</b>	<b>(15 hours)</b>
	<b>Direction:</b> Meaning, Elements, Principles & Techniques of Direction Concept of Team Work, Group Dynamics <b>Communication: Meaning and Process of Communication, Types of Communication, Barriers to Communication, Overcoming Barriers to Communication</b>	

**List of Reference Books - Management Functions and Application Paper- I (Semester I)**

<b>Unit-I:</b>	<b>Introduction:</b>	<b>(15 hours)</b>
	Nature, Scope and importance of marketing; Evolution of marketing concepts; marketing environment.	
<b>Unit-II:</b>	A. <b>Consumer Behaviour:</b> B. Market Selection :	<b>(15 hours)</b>
	A. An Overview: consumer buying process; factors influencing consumer buying decisions. B. Market segmentation - concept, importance and bases: Target market selection; positioning concept and importance product differentiation vs. market segmentation.	
<b>Unit-III:</b>	<b>Rural marketing:</b>	<b>(15 hours)</b>
	Growing importance; Distinguishing characteristics of rural marketing; Understanding rural consumers and rural markets. Marketing mix planning for rural markets.	
<b>Unit-IV:</b>	<b>Recent developments in marketing:</b>	<b>(15 hours)</b>
	<b>Social Marketing</b> , Online marketing, <b>green marketing</b> . Marketing Information System-concept and components: Marketing Research and its process.	

**List of Reference Books:**

1. Kotler Philip, Gary Armstrong, Prafulla Agnihotri and Ahsan UI Haque. Principles of Marketing. 13th edition. Pearson Education.
2. Michael, J. Etzel, Bruce J. Walker, William J. Stanton and Ajay Pandit. Marketing Concept and Cases. (Special Indian Edition)
3. McCarthy, E. Jerome and William D. Perreault, Basic Marketing, Richard D. Irwin.
4. Lamb, Charles W, Joseph F. Hair, Dheeraj Sharma and Carl Mc Daniel Marketing: A South Asian Perspective Cengage Learning.
5. Pride William M. D. C. Ferrell Marketing: Planning, Implementation & Control, Cengage Learning.
6. Majaro, Simon The Essence of Marketing Perentice Hall, New Delhi
7. Zikmund William Gand Michael D's Amico Marketing: Creating and Keeping Customers in an E- Commerce World. Thomson Learning.
8. Chhabra, T.N, and S.K. Grover Marketing Management. Fourth Edition Dhanpat Rai & Company.
9. The Consumer Protection Act-1986.
10. Iacobucci and Kapoor, Marketing Management : A South Asian Perspective, Engage Learning

# Shivaji University Kolhapur

Syllabus in accordance with NEP- 2020  
with effect from Academic Year 2022-23

## B.Com-I (Semester-I)

GEC-BB1: General Elective Course

### Insurance Paper-I

Objectives:

1. The objective of this course is to provide basic knowledge of Principles and practice insurance and life insurance.

**Credits: 04**

60 hours Course	Course Content	Total 50 Marks
<b>Course Outcomes:</b>	1. To enable the students to know the fundamentals of Insurance. 2. To give exposure to the students about life insurance products, Procedural part and life insurance business in India.	(Marks: 40 for Examination 10 for Internal Assessment)
<b>Unit-I:</b>	<b>Introduction to Insurance:</b>	<b>(15 hours)</b>
	Definition, characteristics and need of insurance, Economic and commercial significance of insurance, Insurance as a social security tool, Types of insurance in brief, Principles of insurance. Insurance contract and wagering contract.	
<b>Unit-II:</b>	<b>Life Insurance:</b>	<b>(15 hours)</b>
	Meaning and Nature of life insurance. Life insurance products, -whole life, endowment, term plans, pension and annuity plans, unit linked Insurance plans.	
<b>Unit-III:</b>	<b>Life Insurance Policy:</b>	<b>(15 hours)</b>
	Meaning, Procedure of taking life insurance policy, policy conditions, settlement of claims.	
<b>Unit-IV:</b>	<b>Life Insurance Business in India:</b>	<b>(15 hours)</b>
	Growth of life insurance business after privatization, Evaluation of performance of LIC of India and private companies, Insurance Regulatory and Development Authority Act, 1999- structure. Organizational setup and functions.	

**Note-**visit to Life Insurance Company&/ or Guest lecturers may be arranged.

#### List of Reference books:

1. G.S. Panda-' Principles and Practices of Insurance' Kalyani Publishers, Ludhiana
2. M. Arif khan' and Practice of Insurance' Educational Book House, Aligarh.
3. M.N. Mishra-'Insurance Principles and Practice' S. Chand & Company Ltd. New Delhi.
4. Kothari & Bahl, Principles and Practice of Insurance' SahityaBhawan, Agra.
5. S. Balachandran, General Insurance, Insurance Institute of India, Mumbai.
6. S. Balachandran, Life Insurance, Insurance Institute of India, Mumbai.
7. Insurance Regulatory Development Authority Act-1999.

Note- Latest edition of text books may be used.

Q.3	-- -	Doas directed. 3 different exercises to be set for 2markseach.	<b>Unit I-A</b>	06
Q.4	A	I) Describingplaces/dailyroutine II) Describingobjects/persons(4 markseach).	<b>Unit II - A Description</b>	<b>08</b>
	B	Question to beseton <b>Narration</b>	<b>Unit III-A</b>	06

## B. COM. PART-I (LEVEL-5) SEMESTER-II

### Shivaji University Kolhapur

Syllabus in accordance with NEP- 2020  
with effect from Academic Year 2022-23

#### B.Com-I (Semester-II)

Course Code: DSC-4 Discipline Specific Course

#### Financial Accounting Paper-II

**Credits: 4**

60 hours Course	Course Content	Total 50 Marks
<b>Course Outcomes:</b>	After completing this course, students will be able: 4. To acquaint with skill of recording transactions related to single entry system. 5. To apply skills of accounting for conversion of partnership firm into a limited company. 6. To make use of knowledge and skill for accounting of branches. 7. To understand the knowledge about computerized accounting.	(Marks: 40 for Examination 10 for Internal Assessment)
<b>Unit-I:</b>	<b>Accounting for Incomplete Record:</b> Single Entry System-Conversion Method only	<b>(15 hours)</b>
<b>Unit-II:</b>	<b>Accounting for Conversion of Partnership into a Limited Company:</b> Conversion of Partnership Firm into a Limited Company- Accounting in the books of partnership firm only	<b>(15 hours)</b>
<b>Unit-III:</b>	<b>Branch Accounting:</b> Branch Accounts-Dependent Branch-preparation of Branch Account, Branch Trading and Profit and Loss Account and Stock and Debtors Method	<b>(15 hours)</b>
<b>Unit-IV:</b>	<b>Computerized Accounting System:</b> <b>Computerized Accounting System:</b> Introduction to Computerized Accounting, Accounting softwares 'Tally'-preparation of Vouchers, Feeding of Data and Generating of various Reports	<b>(15 hours)</b>

#### Reference Books:

- Gupta R.L. and Radhaswamy M-  
'Financial Accounting' Sultanchand Sons, New Delhi.
- Shukla M.C. Grewal T.S. and Gupta S.C.-  
'Advanced Accounts' S.Chand and Company, New Delhi.
- Agarwala A.N. Agarwala K.N.-  
'Higher Science of Accountancy' Kitab Mahal Allahabad.

4. JainandNarang–‘AdvancedAccountancy’KalyaniPublications,NewDelhi.
5. S.N.Mheswari–‘AdvancedAccountancy’
6. CompendiumofstatementandstandardofAccounting.TheinstituteofCharteredAccountsofIndia.
7. RajanChougule,Dhavalchougule–  
“TheoryandpracticeofComputerAccounting”ModernPublication,Kolhapur.

Note- College should make a provision of necessary computers for commerce department to train the students in computer Accounting as prescribed in the syllabus.

## Shivaji University Kolhapur

Syllabus in accordance with NEP- 2020  
with effect from Academic Year 2022-23

### B.Com-I (Semester–II)

DSC-5: Discipline Specific Course

### Management Functions and Application-Paper-II

**Credits: 04**

60 hours Course	Course Content	Total 50 Marks
<b>Course Outcomes:</b>	After completing this course, students will be able: 1. To get an idea about motivation concept and theories 2. To develop their leadership skill 3. To understand and utilize techniques of coordination and control 4. To understand various emerging issues in management like green management and to understand concept of Change	(Marks: 40 for Examination 10 for Internal Assessment)
<b>Unit-I:</b>	<b>Motivation</b>	<b>(15 hours)</b>
	Motivation: Concept, Importance, Financial and Non - financial Motivation, Human Relationship approach. <b>Theories of Motivation - Maslow’s Need-Hierarchy Theory; Hertzberg’s Two-factor Theory, Douglas McGregor’s Theory X and Y</b>	
<b>Unit-II:</b>	<b>Leadership</b>	<b>(15 hours)</b>
	<b>Leadership - Concept, Importance, Qualities of Leader, Styles of Leadership, Case study of leadership of Shivaji Maharaj, Mahatma Gandhi and Dr. Babasaheb Ambedkar.</b>	
<b>Unit-III:</b>	<b>Co-ordination and Control</b>	<b>(15 hours)</b>
	<b>Co-ordination: Concept, Need and Techniques of Co-ordination. Control-Concept, Need of control, Process of Controlling, Techniques of Control –Traditional and Modern.</b>	
<b>Unit-IV:</b>	<b>Emerging issues in Management Corporate Social Responsibility:</b>	<b>(15 hours)</b>
	<b>Meaning and Importance. Green Management – Concept and Importance. Change Management: Concept, Need for Change, Resistance to Change, Overcoming Resistance to Change</b>	

### List of Reference Books - Management Functions and Application Paper- II (Semester II)

1. Harold Koontz and Heinz Weihrich, Essentials of Management: An International and Leadership Perspective, McGraw Hill Education.
2. Stephen P Robbins and Madhushree Nanda Agrawal, Fundamentals of Management: Essential Concepts and Applications, Pearson Education.
3. George Terry, Principles of Management, Richard D. Irwin

	Equilibrium of firm in short run and long run. Oligopoly market- Meaning and Characteristics. Duopoly Market- Meaning and Characteristics	
<b>Unit-IV:</b>	Factor Pricing	<b>(15 hours)</b>
	Rent-Meaning-Ricardo's & Modern theory of rent Wage-Meaning-Money and Real wage. Wage differentials. Interest-Meaning Liquidity preference theory of interest Profit – Meaning. Gross and Net profit – Risks – Bearing and Uncertainty theories of profit.	

**List of Reference Books:**

- 13) Ahuja H.L. (2010). Business Economics. S. Chand & Company New Delhi-110055
- 14) Mithani D.M. and Murthy G.K. (2007). Fundamentals of Business Economics. Himalaya Publishing House, New Delhi.
- 15) Zambre G.N. (2004). Business Economics. Pimplapure Publisher, Nagpur.
- 16) Mankar V.G. (2000). Business Economics. Himalaya Publishing House, New Delhi.
- 17) Koutsoyiannis (1979). Modern Micro Economics. MacMillan Press Ltd. London.
- 18) Dewett K. K. (2006). Modern Economic Theory. S.Chand and Company Ltd., New Delhi.
- 19) Jhingan M. L.(2012) Micro Economic Theory.Vrinda Publication (p) Ltd.
- 20) Dominick Salvatore (2011). Microeconomics. Shaum series, McGraw Hill Education.
- 21) Mithani D.M. (2011) Managerial Economics. Himalaya Publishing House, New Delhi,
- 22) Seth M. L. (1996).Micro Economics. Lakshmi Narain Agarwal Edn. Publishers, Agra.
- 23) Patil K.E. (2007) Uchattar Arthik Sidhant. Mangesh Publication, Nagpur.
- 24) Zamare G.N. (2011) Sukshama Arthashastra. Pimpalpure and Company Publishers, Nagpur

**Shivaji University Kolhapur**

Syllabus in accordance with NEP- 2020  
with effect from Academic Year 2022-23  
**B.Com-I (Semester-II)**

GEC-AA2: General Elective Course  
**Principles of Marketing Paper-II**

Objective:

1. To understand 4 Ps of marketing in detail.
2. To know management of retailing and changing scenario of retailing business.

**Credits: 04**

<b>60 hours Course</b>	<b>Course Content</b>	<b>Total 50 Marks</b>
<b>Course Outcomes:</b>	<ol style="list-style-type: none"> <li>1. The students will be aware with four basic elements of marketing i.e.4Ps in detail and he will be armed with various Skills about branding, labeling and advertisement.</li> <li>2. The students will know about management of retailing operations and changing scenario of retail business in India.</li> </ol>	(Marks: 40 for Examination 10 for Internal Assessment)
<b>Unit-I:</b>	<b>Product:</b>	<b>(15 hours)</b>
	Meaning and importance, Product classifications; Concept of product mix; Branding, packaging and labeling; Product-Support; Product life-cycle; New Product Development..	
<b>Unit-II:</b>	<b>Pricing and Promotion:</b>	<b>(15 hours)</b>
	A. Pricing: Significance, Factors affecting price of a product. <b>Pricing policies and Strategies.</b>	



	B. Promotion: Nature and Importance of promotion Promotion tools: advertising, personal selling, public relation & sales promotion –concept and their distinctive characteristics; Promotion mix and factors affecting promotion mix decisions.	
<b>Unit-III:</b>	<b>Distribution: Channels of distribution–meaning and importance:</b>	<b>(15 hours)</b>
	Types of distribution channels; Wholesaling and retailing; Factors affecting choice of distribution channel; <b>Physical Distribution.</b> Direct marketing and Services marketing-concept and characteristics.	
<b>Unit-IV:</b>	<b>Retailing:</b>	<b>(15 hours)</b>
	Types of retailing: store -based and non-store based retailing, chain stores, specialty stores, supermarkets, retail vending machines, mail order houses, retail cooperatives; <b>Management of retailing operations; an over view; Retailing in India: changing scenario.</b>	

### List of Reference Books:

11. Kotler Philip, Gary Armstrong, Prafulla Agnihotri and Ahsan UI Haque. Principles of Marketing. 13th edition. Pearson Education.
12. Michael, J. Etzel, Bruce J. Walker, William J Stanton and Ajay Pandit. Marketing Concept sand Cases.(Special Indian Edition)
13. McCarthy, E Jerome and William D. Perreault, Basic Marketing, Richard D. Irwin.
14. Lamb, Charles W, Joseph F. Hair, Dheeraj Sharma and Carl Mc Daniel Marketing: A South Asian Perspective Cengage Learning.
15. Pride William M. D. C. Ferrell Marketing: Planning, Implementation & Control, Cengage Learning.
16. Majaro, Simon The Essence of Marketing Perentice Hall, New Delhi
17. Zikmund William Gand Michael D's Amico Marketing: Creaingand Keeping Customers in an E- Commerce World. Thomson Learning.
18. Chhabra, T.N, and S.K. Grover Marketing Management. Fourth Edition Dhanpat Rai & Company.
19. The Consumer Protection Act-1986.
20. Iacobucci and Kapoor, Marketing Management : A South Asian Perspective, Engage Learning

# Shivaji University Kolhapur

Syllabus in accordance with NEP- 2020  
with effect from Academic Year 2022-23

## B.Com-I (Semester-II)

GEC-BB2: General Elective Course

### Insurance Paper-II

Objectives: The objective of this course is to enable students to know the fundamentals of general insurance. Credits: 04

60 hours Course	Course Content	Total 50 Marks
<b>Course Outcomes:</b>	1. To enable the students to know the fundamentals of General Insurance. 2. To give exposure to the students about general insurance, procedural part, general insurance business and FDI in insurance in India.	(Marks: 40 for Examination 10 for Internal Assessment)
<b>Unit-I:</b>	<b>Fire Insurance:</b>	<b>(15 hours)</b>
	Meaning, Procedure of taking fire Insurance policy, Policy conditions, kinds of policies, cancellation and forfeiture of policy, Renewal of policy, settlement of claims.	
<b>Unit-II:</b>	<b>Marine Insurance:</b>	<b>(15 hours)</b>
	Meaning, Procedure of taking marine insurance policy, Difference between fire and marine Insurance, clauses of marine insurance policy, marine losses and perils, Types of policies	
<b>Unit-III:</b>	<b>Miscellaneous Insurance</b> (only nature & cover)	<b>(15 hours)</b>
	(A) Personal Accident Insurance (B) Health Insurance (C) Motor Insurance (D) Burglary Insurance (E) Liability Insurance (F) Fidelity Guarantee Insurance (G) Cattle Insurance (H) Crop Insurance	
<b>Unit-IV:</b>	<b>General Insurance Business in India</b>	<b>(15 hours)</b>
	Growth of general insurance business after privatization, Evaluation of performance of public and private companies, Foreign Direct Investment (FDI) in insurance business, merits and demerits, current scenario, Banc assurance.	

Note: Visit to general insurance company and/or a Guest lecturer may be arranged.

#### List of Reference books:

1. G.S. Panda-' Principles and Practices of Insurance' Kalyani Publishers, Ludhiana
2. M. Arif khan' and Practice of Insurance' Educational Book House, Aligarh.
3. M.N. Mishra-'Insurance Principles and Practice' S. Chand & Company Ltd. New Delhi.
4. Kothari & Bahl, Principles and Practice of Insurance' Sahitya Bhawan, Agra.
5. S. Balachandran, General Insurance, Insurance Institute of India, Mumbai.
6. S. Balachandran, Life Insurance, Insurance Institute of India, Mumbai.
7. Insurance Regulatory Development Authority Act-1999.

Note- Latest edition of text books may be used.

# SHIVAJI UNIVERSITY, KOLHAPUR



Estd. 1962

“A<sup>++</sup>” Accredited by NAAC (2021) With CGPA 3.52

Faculty of Commerce and Management

Revised Syllabus in accordance with NEP, 2020

Syllabus for

**B. Com. Part II (Sem. III & IV)**

(Revised Syllabus to be implemented from June, 2023 onwards)

**Shivaji University, Kolhapur**  
**B.Com (NEP)**  
**Part – II Semester-III**  
**Fundamentals of Entrepreneurship- Paper-I**  
**Discipline Specific Elective - 8**  
**Introduced from June-2023-24**

Credits-4

## Objectives-

1. To impart theoretical knowledge of Entrepreneurship
2. To develop Entrepreneurship qualities and skills
3. To acquaint students with Steps involved in the formation of Small Enterprises
4. To enlighten students with Recent Trends and Concepts in Entrepreneurship

Unit-I	<b>Entrepreneur:-</b> Evolution, Meaning and Definition, Functions, Qualities of <b>successful entrepreneur</b> , Types of Entrepreneur, Obstacles to become an Entrepreneur, Challenges before existing entrepreneur in modern era.	15 Hours
Unit-II	<b>Entrepreneurship and Entrepreneurship Development:</b> Concept, Definitions, Importance, Theories- Joseph Schumpeter's Theory of Innovation, Hagen's theory of Status Withdrawal, David McClelland's Need for Achievement theory, Knight's Risk-Taking theory, Entrepreneurship Development- Concept and Process. Introduction, Functions and Performance of – EDI, MCED And DIC	15 Hours
Unit-III	<b>Micro, Small and Medium Enterprises (MSME):</b> Definition, Importance, Problems of MSME and Remedies, Government Policy and Support, Steps involved in the formation of Small Enterprises- Location, Clearances, Permits required, Formalities, Licensing and Registration Procedure.	15 Hours
Unit-IV	<b>Recent Trends and Concepts in Entrepreneurship:</b> Recent Trends- Start up, Stand up, Skill India, Make in India, Incubation Centre- Concept and Importance. Concepts- Sociopreneur, Edupreneur, Ecopreneur, Netpreneur, Intrapreneur(Only concept and Characteristics)	15 Hours

**Note – Group Activity should be taken for 10 marks as Internal Evaluation**

## Objectives-

1. To acquaint students with family business in India
2. To impart conceptual knowledge of Service and Agro Entrepreneurship
3. To aware students about Business Plan and Project Report
4. To inspire the students through successful stories of Entrepreneurs

Unit-I	<b>Family Business:</b> Meaning, Types, Advantages and Disadvantages of Family Business, Challenges before family business in India, Business Succession Planning, Making family business more effective.	15 Hours
Unit-II	<b>Service and Agro Entrepreneurship:</b> A) Service Entrepreneurship- Meaning and Concept, Role of Service sector in National Economy, Opportunities in Servicesector. B) Agro Entrepreneurship- Meaning and Concept, Importance, Entrepreneurial Opportunities in Agro Sector, Challenges before Agro Entrepreneurship	15 Hours
Unit-III	<b>Business Plan and Project Report:</b> Meaning and Concept of Business Plan, Key elements of business plan Meaning, Concept and classification of project. Project for Retail store, Beauty parlor, Oil Mill, Cold Storage, Eco friendly Bag production- Reasons for failure of project.	15 Hours
Unit-IV	<b>Women Entrepreneurship and Successful Entrepreneurs</b> Women Entrepreneur- Concept and causes of limited growth of women entrepreneurs in India. Successful Entrepreneurs- Male- Jeff Bezos (Amazon), Hanmantrao Gaikwad (BVG), Chitale Brothers (Chitale Dairy), Ramdas Mane (Mane Group of Industries) Female- Aditi Gupta (Whisper Girl), Chetana Gala-Sinha (Manadeshi Foundation), Vandana Luthra (VLCC),	15 Hours

**Note – Case Study/Oral Exam. should be taken for 10 marks as Internal Evaluation.**

## Shivaji University, Kolhapur

B.Com. Semester-III NEP

Syllabus to be introduced from June 2023

### Money and Financial System

B.Com. II SEM III Money and Financial System (DSC 09) (Paper No – 1 )

#### Course Outcomes:

1. Students explain the concept of money, its new incarnations and flow in to the economy
2. Students understood the financial system and its operation
3. Students understand the nature of banking business and practices

Marks : 50

Credits : 4

Unit No	Unit Name	Lectures
<b>Unit 1</b>	<b>Introduction to Money</b> 1.1 Evolution, Meaning and Functions of Money 1.2 Meaning and Features of Crypto Currency, Digital Rupee 1.3 Approaches to the Measurement of Money supply; RBI's Measures of Money Supply 1.4 Factors affecting Money Supply	15
<b>Unit 2</b>	<b>Financial System</b> 2.1 Structure and Importance of Financial System 2.2 Features and structure of Money Market in India 2.3 Features and structure of Capital Market in India 2.4 Important Reforms in Indian Money and Capital Market	15
<b>Unit 3</b>	<b>Introduction to Banking</b> 3.1 Meaning and Functions of Commercial Banks 3.2 Types and Features of Banks - Commercial, Cooperative, Public and Private, Foreign. 3.3 Payment Banks, Small Finance Banks 3.4 Process of Credit Creation and its limitations	15
<b>Unit 4</b>	<b>Banking Business and Practices</b> 4.1 Meaning, Types and Features of Bank Deposits 4.2 Meaning, Types and Features of Bank Loans 4.3 Sources of Funds and Income for Banks 4.4 Changing nature of Banking Business	15

#### References

1. Bhole L.M. (2009), Financial Institutions and Market, Tata McGraw Hill, New Delhi
2. Bhasin Nitin (2010), Financial Institutions and Financial Markets in India :Functioning and Reforms. New Century Publications, New Delhi
3. Berg Braam van den (2015), Understanding Financial Markets & Instruments, Academy of Financial Market, <https://eagletraders.com/books/afm/afm4.php>
4. Cade, Eddie (1998) Managing Banking Risks, Woodhead Publishing Ltd., in association with The Chartered Institute of Bankers, England.
5. Gupta, L.C (1997), Stock Exchange Trading in India; Society for Capital Market Research and Development
6. Sethi Jyotsna and Bhatia Nishwan (2003), Elements of Banking and Insurance, Prentice Hall of 4 India, New Delhi
7. National Stock Exchange (2015), Securities Market (Basic) Module, NCFM, National Stock Exchange of India Limited
8. Joshi Vasant C. and Joshi Vinay V (1998), Managing Indian Banks: The Challenges Ahead, Response Books, New Delhi.
9. [Vyuptakesh Sharan](#) (2009) India's Financial Sector: An Era of Reforms, SAGE Publications

# **SHIVAJI UNIVERSITY, KOLHAPUR.**



NAAC 'A' Grade

**Faculty of Commerce and Management**

Syllabus For

**B. Com. Part – III (Sem V & VI) (CBCS)**

(To be implemented from June 2020 onwards)

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

**Shivaji University, Kolhapur**  
**B.Com (CBCS Pattern) Part – III (Semester-V)**  
**Modern Management Practice- Paper-I**

**Core Course**

**Introduced From June- 2020**

Credit - 4

**Objectives:**

1. To impart knowledge of modern management
2. To understand concepts of CRM
3. To know the concepts of emotional and social intelligence
4. To understand the concept of lean and talent management

<b>Unit-I</b>	<p><b>Contribution to Modern Management Practice</b></p> <ol style="list-style-type: none"> <li>a. Concept of Modern Management</li> <li>b. Contribution of Vijay Govindarajan: Three Box Solution and Reverse Innovation</li> <li>c. Contribution of C.K. Prahalad : The Fortune at the Bottom of the Pyramid.</li> <li>d. Michael Porter : competitive advantage.</li> </ol>	15 periods
<b>Unit-II</b>	<p><b>Emotional and Social Intelligence in Management</b></p> <ol style="list-style-type: none"> <li>a. Emotional Intelligence: Concept, Components, Importance of emotional intelligence in leadership, Advantages and Disadvantages of emotional intelligence, emotional intelligence skills</li> <li>b. Social intelligence: Concept, Importance, Advantages and Disadvantages of social intelligence, Models of emotional and social intelligence:</li> </ol>	15 periods
<b>Unit-III</b>	<p><b>Customer Relationship Management (CRM) and Supply Chain Management (SCM)</b></p> <ol style="list-style-type: none"> <li>a. Customer Relationship Management (CRM) : Concept, Importance, Elements, Process, e-CRM</li> <li>b. Supply Chain Management (SCM): Concept, Importance, Components, Process, Benefits of SCM</li> </ol>	15 periods
<b>Unit-IV</b>	<p><b>Lean Management and Talent Management</b></p> <ol style="list-style-type: none"> <li>a. Lean Management: Concept, Principles, Benefits and disadvantages, tools of lean Management, lean management best practices</li> <li>b. Talent Management: Concept, Importance, Process, Components, benefits</li> </ol>	15 periods



Shivaji University, Kolhapur

B.Com (CBCS Pattern) Part – III (Semester-VI)

## Modern Management Practice- Paper-II

Core Course

Introduced From June- 2020

Credit - 4

### Objectives:

1. To impart knowledge of total quality management
2. To understand the Japanese and Chinese Management Practices
3. To know the concept of Event and Performance Management
4. To understand the concept of time and stress management

<b>Unit-I</b>	<b>Total Quality Management (TQM) and Quality Standards</b> a. Total Quality Management (TQM) : Concept, Principles, Elements of TQM, Benefits and Disadvantages of TQM b. Quality Standards: Benchmarking(concept and types) Six Sigma,(concept and levels) ISO: 9000, (Importance and elements)	15 periods
<b>Unit-II</b>	<b>Japanese and Chinese Management Practice</b> a. Japanese Management: Concept, Characteristics and 8 Key Japanese Quality Management techniques b. Chinese management: Concept, Characteristics, Chinese Leadership Style, Difference between Chinese and Western Management	15 periods
<b>Unit-III</b>	<b>Event and Performance Management</b> a. Event Management: Concept, Importance, Procedure, Types of events, benefits of event Management b. Performance Management : Concept, Evolution, Need, Process of Performance Management	15 periods
<b>Unit-IV</b>	<b>Time and Stress Management</b> a. Time Management: Concept, Importance, Techniques b. Stress Management: Meaning of Stress, Causes, Effects, Techniques of stress management	15 periods

**Paper I : CC-C3 : Business Regulatory Framework**

<b>Credit –I</b>	<b>Law of Contract- 1872</b>	Hours
	Definition of Business Law and its sources Definition of contract, Essential element and Kinds of Contract Offer and Acceptance, Capacity of Parties, Consideration, Free Consent and Legality of objectives, Void Contracts Discharge of Contract, Remedies for breach of contract	15 Hrs
<b>Credit-II</b>	<b>Labour Laws</b>	15 Hrs
	<b>A) Employees Provident Fund Act- 1952-</b> Meaning and its applicability criteria, Rates of Contribution , Periodicity of Payment and Return, Mandatory Records, Consequences of Non compliances	5 Hrs
	<b>B) Employees State Insurance Act-1948-</b> Meaning and its applicability criteria, Rates of Contribution , Periodicity of Payment and Return, Mandatory Records, Consequences of Non compliances	5 Hrs
	<b>C) Payment of Gratuity (Amendment)Act-2018-</b> Meaning and its applicability criteria, Rates of Contribution , Payment calculation, Mandatory Records, Consequences of Non compliances	5 Hrs
<b>Credit-III</b>	<b>Sale of Goods Act,1932 and Goods and Services Tax(GST)</b>	15 Hrs
	A) Sale of Goods Act- Contract of Sale of goods concept and essentials, Sale and Agreement to sell, Conditions and Warranties, Performance of Contract of Sale	10 Hrs
	B) Goods and Services Tax- Basic framework of GST, Applicability criteria, General understandings of legal provisions regarding invoices, GST Returns , Consequences of Non compliances	5 Hrs
<b>Credit- IV</b>	<b>Indian Partnership Act-1932 and Limited Liability Partnership Act-2008</b>	15 Hrs
	A) Indian Partnership Act-1932- Partnership Deed meaning and general terms and conditions, Role and Responsibilities of Partners.	5 Hrs
	B) Limited Liability Partnership Act- 2008- Nature and Silent features of LLP, Incorporation of LLP, Limitations of liability of LLP and Partners, Difference between Partnership and LLP.	10 Hrs

**Reference-**

- 1) Business Law- Kavita Krishnamurthi
- 2) Essentials of Business and Industrial Laws- B.S. Moshal
- 3) Business Law- M.C. Kuchhal
- 4) Elements of Mercantile Law- N.D. Kapoor
- 5) Mercantile Law- Arun Kumar
- 6) Mercantile Law- S.S.Gulshan
- 7) The Principles of Mercantile Law- Avtarsingh
- 8) Commercial and Industrial Law-A.K. Sen and J.K. Mitra
- 9) Textbook on Indian Partnership Act with Limited Liability Partnership Act- by Madhusudan Saharay
- 10) GST – Law and Procedure by Anananday Mishra – Taxman

**Paper II : CC-C4 : Business Regulatory Framework**

<b>Credit- I</b>	<b>Company Act- 2013</b> Meaning, Features and Types of Company, Process of Incorporation of Company, Role, Responsibilities and Powers of Directors, Auditors and Company Secretary. Rights of Share holders, Company meetings and Resolutions Winding up of Company	<b>15 Hrs</b>
<b>Credit-II</b>	<b>Security Exchange Board of India Act-1992, Consumer Protection Act-1986 and Competition Act-2002</b>	<b>15 Hrs</b>
	A) Security Exchange Board of India Act-1992(SEBI)- Role , Powers and Functions of SEBI, Listing and Trading of Securities	<b>5 Hrs</b>
	B) <b>Consumer Protection Act-1986</b> - Definitions- Consumer, Complaint, Complainant, Unfair Trade Practices, Restrictive Trade Practices, Rights of Consumer, Consumer Redressal Agencies- Composition and Jurisdiction.	<b>5 Hrs</b>
	C) <b>Competition Act-2002</b> - Objectives, Powers and duties of Competition Commission	<b>5 Hrs</b>
<b>Credit-III</b>	<b>Business Transactions and Cyber Laws</b>	<b>15 Hrs</b>
	a) E-commerce: Nature, formation, legality and recognition b) Intellectual Property Rights: Patent, Copy Right, Trademark and Industrial Design (only concepts) c) Digital Signature: Need, formation, functions, Digital Significance Certificate and Revocation of Digital Signature d) Cyber crimes and offences e) Penalties for cyber crimes	
<b>Credit-IV</b>	<b>Negotiable Instrument (Amendment) Act-2015</b>	<b>15 Hrs</b>
	Meaning and Features of Negotiable instrument, Kinds of Negotiable instrument, Promissory Note, Bill of Exchange and Cheque, Crossing of Cheque and Its kinds- Dishonour of Negotiable instrument and its consequences and Remedies thereon	

**Reference Books:**

- 1) Business Law- M.C. Kuchhal
  - 2) Business Law- KavitaKrishanmurthi
  - 3) Cyber Laws- Dr. Farooq Ahmed
  - 4) Elements of Company Law- V.S. Datey
  - 5) The Consumer Protection Act- ArshadSubzawari
  - 6) The Consumer Protection Act- C.M. Dhopare
  - 7) Cyber Laws- Krishna Kumar
  - 8) Consumer Protection Act- Niraj Kumar
  - 9) SEBI Act- Agarwal and Baby- Taxman
  - 10) Competition Act- Dr.Rattan- Bharat Publication
- Concerned Bare Act should be referred

**Nature of Question Paper**

**Total Marks-40**

Instructions – 1) All questions carry equal marks.

2) Attempt any FIVE Questions out of seven

Q.1	Short Notes (Any Two)	4 Marks Each
Q.2	Long Answers	8 Marks
Q.3	Long Answers	8 Marks
Q.4	Long Answers	8 Marks
Q.5	Long Answers	8 Marks
Q.6	Long Answers	8 Marks
Q.7	Short Answers (Any Two)	4 Marks Each

**B.Com (CBCS) Part-III (Semester-V)**  
**Paper – II : DSE-A2 : Advanced Accountancy (Auditing)**  
Discipline Specific Course

**4 Credits**

**Course Outcomes:**

1. To understand the concept and types of audit
2. To identify the residential status and its implication on tax liability
3. To understand the concept of exemption from income
4. To know the computation of income from various sources as well as total income

**Syllabus Content**

<b>Unit- I</b>	<b>Nature and Scope of Audit:</b> Audit – Meaning and Nature, Scope of Audit, Objectives of Audit, Relationship of Audit with other disciplines, Difference between Audit and Investigation, Basic Principles Governing Audit, Statutory Audit, Internal Audit, Cost Audit, Tax Audit, Management Audit, Concept of Vouching, Verification and Valuation.	15 Lectures
<b>Unit- II</b>	<b>Audit of Specific Items in Financial Statements:</b> A) Audit of sale of Products and Services; Audit of Interest Income, Rental Income, Dividend Income, Net gain/loss on sale of Investments; Audit of Purchases, Depreciation, Interest expense, Rent, Repair to building, Repair to Machinery, Insurance, Taxes, Travelling Expenses, Miscellaneous Expenses B) Audit of Share Capital, Reserve & Surplus, Long Term Borrowings, Trade Payables (creditors), Provisions, Short Term Borrowings and Other Current Liabilities, Audit of Land, Buildings, Plant and Equipment, Furniture and Fixtures, Goodwill, Brand/Trademarks, Computer Software, Audit of Loans and Advances, Trade Receivables, Inventories, Cash and Cash Equivalents, Other Current Assets, Audit of Contingent Liabilities.	15 Lectures
<b>Unit- III</b>	<b>Company Audit:</b> Eligibility, Qualifications and Disqualifications of Auditors; Appointment of auditors; Removal of auditors; Remuneration of Auditors; Powers and duties of auditors; Branch audit; Joint audit; Reporting requirements under the Companies Act, 2013 including CARO.	15 Lectures
<b>Unit- IV</b>	<b>Special Audit and Audit Report:</b> Audit of special entities like Bank, Insurance Companies, Charitable Trust, Hotel and Hospital, Elements of Audit Report; Types of Reports – Clean, Qualified, Adverse, Disclaimer of Opinion;	15 Lectures

**Reference Books:**

- 1) Tandon B.N., : Pracial Auditing, S.Chand, New Delhi
- 2) Kumar, A., Sharma, R.; : Auditing Theory and Practice, Atlantic Publishers, New Delhi
- 3) Johnson S., Wiley L. : : Auditing – A Practical Approach, Wiley Publishing House
- 4) Garg Pankaj : Auditing and Assurance, Taxmann Publications, New Delhi
- 5) Bansal, Surabhi : Auditing and Assurance, Wolters Kluwel Publicattion
- 6) Sekhar G, Prasath B. : Auditing and Assurance, Taxmann, New Delhi
- 7) Dinkar Pagare :
- 8) The Institute of Chartered Accountants of India, Study Material for CA Inter/Final for Auditing

**Nature of Question Paper**  
 B.Com (CBCS) Part-III (Semester-VI)  
 Advanced Accountancy Paper-III  
 Discipline Specific Course  
 (Introduced from June-2020)

Instructions:	i)	All the questions are compulsory.	Total : 40 Marks
	ii)	Figures to the right indicate full marks.	
	iii)	Use of calculator is allowed.	
Question 1	Problem		16 Marks
Question 2	Attempt any one problem (out of two)		16 Marks
Question 3	Write short notes (Attempt any two out of four)		08 Marks

Notes:

- 1) Practical examination for 10 marks will be conducted on Unit-IV of Paper-III.
- 2) External examiner will be appointed by the university to conduct this practical examination.
- 3) There will be 40 marks for University Written examination and 10 marks for practical examination. Thus Total marks will be 50.

**B.Com (CBCS) Part-III (Semester-VI)**  
**Paper – IV : DSE-A4 : Advanced Accountancy (Taxation)**  
 Discipline Specific Course

**4 Credits**

**Course Outcomes:**

1. To understand the basic concepts of income tax and basis of charge
2. To identify the residential status and its implication on tax liability
3. To understand the manner of computation of total income
4. To know the basic concepts about GST

<b>Unit- I</b>	<b>Basic Concepts:</b> A) Meaning of <b>Income Tax</b> , Basis of Charge, Rates of Tax, Concepts of Previous Year, Assessment Year, Person, Income, Assessee. B) Residential Status and Taxability - Meaning of Residential Status, Provisions for determination of Residential status and tax liability in respect of individual and HUF, Determination of Residential Status of Firms and Companies.	15 Lectures
<b>Unit- II</b>	<b>Exemptions and Deductions from total income</b> (in respect of individual only)	10 Lectures
<b>Unit- III</b>	<b>Heads of Income, Computation of total income and tax liability:</b> Income from Salary, Income from House Property, Income from Business/Profession, Income from Capital Gain, Income from Other Sources, Computation of Gross Total Income and Tax Liability in respect of Individuals only.	25 Lectures
<b>Unit- IV</b>	<b>Basics of GST:</b> Meaning and Features of GST, Benefits of GST, Need of GST, Constitutional Provisions of GST, Levy and Collection of GST, Introduction to CGST, SGST, IGST, UTGST.	10 Lectures

**Reference Books:**

- 1) Singhania, V.K. : Students' Guide to Income Tax, Taxmann Publication, New Delhi
- 2) Manoharan, T.N. : Direct Taxes : Snow White Publications, New Delhi
- 3) Singhania, Monica : Students' Guide to Income Tax and GST, Taxmann, New Delhi
- 4) Sury, M.M. : Goods and Services Tax in India,
- 5) Agarwal, CA VK : GST Guide for Students, Neelam Book House, Delhi
- 6) Datey, V.S. : GST Ready Reckoner, Taxmann, New Delhi
- 7) Thakkar, Vishal : GST for the Layman, TV18Broadcast Ltd.,



**B.Com. Part-III; SEM-V - Under CBCS**  
**Paper-I : CC-C5 : Cooperative Development**

**Course Outcomes:**

1. To study the meaning and principles of Co-operation.
2. To study the agricultural and Non-agricultural Credit Co-operative institutions.
3. To study the Co-operative credit system
4. To Study the important cooperative organizations

**Expected Skills Impartation**

1. Ability to explain cooperatives principles
2. Ability to applications of cooperative principles
3. Interpretation and comparison of different cooperative organizations

Marks : 40

Total Lectures of Teaching : 60

Credits : 4

<b>Unit-1:</b>	<p><b>Introduction to Co-operative movement in India</b></p> <p>1.1. Meaning, definition and features of Co-operation.</p> <p>1.2. Principles of Co-operation - ICA and Manchester Principles</p> <p>1.3. Role of Co-operation in economic development.</p> <p>1.4. Review of Committees on Cooperative Development since 1991 (Vaidhyathan Committee, Shivajirao Patil Committee and Kuraian and Alagh Committee )</p>	15 Periods
<b>Unit-2:</b>	<p><b>Agricultural Co-operatives in India</b></p> <p>2.1. Co-operative Marketing- Types, functions, problems and remedies</p> <p>2.2. NAFED- Objectives, Management, Functions and Progress</p> <p>2.3. Co-operative Farming - Types, problems and remedies</p> <p>2.4. Role of Dairy Cooperatives - National Dairy Development Board.</p>	15 Periods
<b>Unit-3:</b>	<p><b>Co-operative Banking &amp; Credit Societies in India</b></p> <p>3.1. Review of Co-operative credit movement - Three Tier and Two Tier Structure</p> <p>3.2. Primary Agricultural Cooperative Societies -Functions, Problems and Remedies</p> <p>3.3. DCC Banks - Administrative Structure, Progress, Problems and Remedies</p> <p>3.4. State Cooperative Banks - Administrative Structure, Progress, Problems and Remedies</p>	15 Periods
<b>Unit-4:</b>	<p><b>Important Cooperative Organizations in India</b></p> <p>4.1. Urban Cooperative Banks - Types, Management, Progress and Problems</p> <p>4.2. Non-Agriculture Credit Cooperatives - Functions and Problems</p> <p>4.3. Consumer Cooperatives - Types, Role and Problems</p> <p>4.4. Sugar Co-operatives - Role, Progress, problems and remedies</p>	15 Periods

**References :**

1. Dwivedi Ramesh Chandra, (2005), 'Hundred Years of Cooperative Movement in India'-Centre for Promotion of Cooperativism
2. Garg M. C. And Joshi N. N., (2009), 'Cooperative Credit And Banking –Strategies For Development', Deep And Deep Publication, New Dehli-110027
3. Hajela T.N., (1994) Cooperation: Principles, Problems and Practice, Konark Publishers, New Delhi.
4. Krishnaswamy O.R. and Kulandhiswamy V., (2000) Cooperation: Concept and Theory, Arudra Academy,
5. Kulkarni P. R. (2007) Laws of Co-operative Banking', Macmillan Publisher India Ltd. pp. 24-25 (2007)
6. Maharashtra Rajya Sahakari Dudh Mahasangh Maryadit <http://www.mahanand.in/>
7. NAFED <http://www.nafed-india.com>
8. Nakkiran S (2006) Cooperative Management : Principles and Techniques, Deep and Deep, New Delhi, 2006
9. National Dairy Development Board- <https://www.nddb.coop/>
10. Review of Co-operative Movement in India's Agricultural Credit Department, RBI. pp. 59-60, (1955)
11. Strickland C.F., (2010) 'An Introduction To Cooperation In India' Humphery Milford Oxford University Press.
12. The Maharashtra Co-operative Quarterly, The Maharashtra Rajya Shahakar Sanghah

B.Com Part III Semester – V (CBCS)

**Paper I : CC-C7 : Business Environment**

(Indian Economic Environment)

(Compulsory Paper)

Credits : 4

**COURSE OUTCOMES:**

- 1 Student should be able to understand the significance and position of Indian economy at the world level.
- 2 Students should study the scenario of agricultural and industrial sectors.
- 3 Student should be aware regarding Indian economy is facing some of the fundamental economic problems. They should be able to make plans and solutions to these being as a citizen.
- 4 Student should understand the correlations between economical and social problems.

Unit No.	Unit Name	Periods
1	<b>Business Environment</b> 1.1 Concept 1.2 Components 1.3 Importance 1.4 Business environment and sustainable development	15
2	<b>Agricultural Development</b> 2.1 Present status of Indian Agriculture and Agricultural crisis 2.2 Agricultural Marketing-Problems, Agricultural price policy 2.3 Food security in India 2.4 National Commission on farmers- Agricultural Renewal Action Plan	15
3	<b>Industrial Development</b> 3.1 Industrial policy -1991 3.2 Concepts of Micro, Small and Medium Enterprises (MSMEs) 3.3 Progress of industrial sector in globalization era 3.4 Trade union movement – Problems and measures.	15
4	<b>Problems of Indian Economy</b> 4.1 Features of Indian population 4.2 Unemployment and poverty – causes and remedies 4.3 Inequality of Income and wealth, Black Money - Causes and remedies 4.4 Problems of rural and urban economy	15

**References –**

1. Mead R. (2004) International Management: Cross Cultural Dimensions, 3<sup>rd</sup> ed. New York Wiley
2. Vyuptakesh Sharan, (2004) International Business: Concept, Environment and Strategy, Pearson education, Singapore
3. Yarbrough B V (2005) The World Economy: Trade and Finance, 7<sup>th</sup> Ed Thomas south western USA
4. Manab Adhikari, Global (2006) Business Management( An International economic environment), Macmillan India Ltd
5. Hill C.W. L. and Jain A. K.(2007) International Business Competing in Global market Place, McGraw Hill New Delhi
6. Graham John L, Salwan Prashant, Cateora Philip R, (2008) International Marketing 13<sup>th</sup> Ed. Tata McGraw- Hill,
7. Jeevnandam C. International Business S.Chand New Delhi 2008
8. Paul Justein International Business, 5<sup>th</sup> Ed (2011) Prentice Hall of India, Pvt Ltd new Delhi
9. Keegan Warren J. and Green Mark C. Global Marketing, 4<sup>th</sup> Ed.(2009) Prentice Hall India, Pvt Ltd
10. Bhalla V. K. and Ramu S.S.(2009) International Business Environment, Anmol Prakashan New Delhi
11. Varshney R.L. and Bhattacharya B, (2012) International Marketing Management -An Indian Perspective, 24<sup>th</sup> Ed S.Chand New Delhi.



# **SHIVAJI UNIVERSITY, KOLHAPUR.**



CHOICE BASED CREDIT SYSTEM

## **Syllabus**

For

**B.Sc. Part – I**

**Statistics**

**SEMESTER I AND II**

**AS PER NEP 2020**

To be implemented from academic year 2022-23

**B. Sc. Part – I Semester – I**  
**DSC –7A – STATISTICS – I**  
**(DESCRIPTIVE STATISTICS – I)**

**Theory: 30 hrs. Marks -50 (Credits: 02)**

**Course Outcomes:** The students will acquire knowledge of

- i. meaning and scope of Statistics, various statistical organizations,
- ii. data and types of data, various data presenting methods,
- iii. population, sample and various methods of sampling,
- iv. various measures of central tendencies and dispersion,
- v. moments, skewness and kurtosis.

**CONTENTS:**

**Unit - 1**

**(15 hrs.)**

**1.1 Introduction to Statistics:** Meaning of Statistics as a Science, Importance of Statistics, Definition of Statistics, Various fields where Statistics is used, Names of various statistical organizations in India.

**1.2 Population and Sample:** Statistical population. Finite population, Infinite population, Census method, Sampling method, Advantages of sampling method over census method.

**Methods of sampling (Description only):** Sample and Random sample, Simple random sampling with and without replacement (SRSWR and SRSWOR), Stratified random sampling, Systematic sampling.

**1.3 Nature of Data:** Primary and Secondary data, Time series data, Quantitative and Qualitative data, Attributes, Variables, Discrete and Continuous variables, Scales of measurement - Nominal, Ordinal, Interval and Ratio scale, illustrative examples.

**1.4 Presentation of Data:**

**Classification:** Raw data and its classification, Discrete frequency distribution, Continuous frequency distribution, Cumulative frequency distribution, Inclusive and Exclusive methods of classification, Open end classes, Relative frequency distribution, illustrative examples.

**Tabulation:** Parts of table, Characteristics of good table, Types of table, illustrative examples.

**Diagrammatic Presentation:** Introduction to Simple Bar Diagram, Multiple Bar Diagram, Sub-Divided Bar Diagram, Pie Diagram.

**Graphical Presentation:** Histogram, Frequency Polygon, Frequency Curve, Ogive curves and Box plot.

**Unit - 2**

**(15 hrs.)**

**2.1 Measures of Central Tendency:** Mathematical and positional, Concept of central tendency of statistical data, statistical average, requirements of good statistical average.

8. Kore B. G. and Dixit P. G.: “Descriptive statistics-I”, Nirali Prakashan, Pune.
9. Mood A. M., Graybill F. A. and Boes D. C. (1974): Introduction to the Theory of Statistics, McGraw Hill.
10. Snedecor G.W. and Cochran W. G. (1967): Statistical Methods, Iowa State University Press.
11. Waiker and Lev.: Elementary Statistical Methods.

**Note:** 1. In theory examination, the weightage to numerical problems should not exceed 30%.  
2. Students can use scientific calculators in theory examination.

**B. Sc. Part – I Semester – I**  
**DSC –8A – STATISTICS – II**  
**(ELEMENTARY PROBABILITY THEORY)**  
**Theory: 30 hrs. Marks -50 (Credits: 02)**

**Course outcomes:** Students will be able to;

- i. distinguish between random and non-random experiments
- ii. acquire knowledge of concepts of probability
- iii. use the basic probability rules, including additive and multiplicative laws
- iv. understand concept of conditional probability and independence of events.
- v. understand concept of univariate random variable and its probability distributions
- vi. acquire knowledge of mathematical expectation of univariate random variable.

**CONTENTS:**

**Unit – 1** **(15 hrs.)**

**1.1 Sample space and events:** Concepts of experiments and random experiments. Definitions: Sample space, Discrete sample space (finite and countably infinite), Event, Elementary event, Compound event. Algebra of events (Union, Intersection, Complementation). Definitions of mutually exclusive events, Exhaustive events, Impossible events, Certain event. Power set  $|P(\Omega)$  (sample space consisting at most 3 sample points). Symbolic representation of given events and description of events in symbolic form. Illustrative examples.

**1.2 Probability:** Equally likely outcomes (events), apriori (classical) definition of probability of an event. Equiprobable sample space, simple examples of computation of probability of the events based on permutations and combinations. Definition of probability in terms of odd ratio with illustrative examples. Axiomatic definition of probability. Proof of the results: i)  $P(\Phi) = 0$ , ii)  $P(A^C) = 1 - P(A)$ , iii)  $P(A \cup B) = P(A) + P(B) - P(A \cap B)$  (with proof) and its generalization (Statement only), iv) If  $A \subseteq B$ ,  $P(A) \leq P(B)$ , v)  $0 \leq P(A \cap B) \leq P(A) \leq P(A \cup B) \leq P(A) + P(B)$ .

**Unit – 2** **(15 hrs.)**

**2.1 Conditional Probability and Independence of events:** Definition of conditional probability of an event. Multiplication theorem for two events. Examples on conditional

**B. Sc. Part – I Semester – II**  
**DSC –7B – STATISTICS – III**  
**(DESCRIPTIVE STATISTICS – II)**

**Theory: 30 hrs. Marks -50 (Credits: 02)**

**Course Outcomes:** Students will acquire knowledge of;

- i. correlation coefficient and interpret its value.
- ii. regression coefficients, interpret its value and use in regression analysis.
- iii. qualitative data including concept of independence and association between two attributes
- iv. vital statistics and concept of mortality and fertility and growth rates.

**CONTENTS:**

**Unit – 1**

**(15 hrs.)**

**1.1 Correlation:** Bivariate data, Need of analysis of bivariate data, Concept of correlation between two variables, Types of correlation.

**Methods of studying correlation:** 1) Scatter diagram, its utility, Covariance: Definition, Effect of change of origin and scale, 2) Karl Pearson's coefficient of correlation ( $r$ ): Definition, Computation for ungrouped and grouped data. Properties: i)  $-1 \leq r \leq 1$ , Interpretation for different values of  $r$ , ii) Effect of change of origin and scale, 3) Spearman's rank correlation coefficient: Definition, Computation (with and without ties). Derivation of the formula for without ties and modification of the formula for with ties. Illustrative examples.

**1.2 Regression:** Concept of regression, Lines of regression of Y on X ( $Y = a + bX + \epsilon$ ) and X on Y, fitting of lines of regression by the least square method, Regression coefficients  $b_{xy}$ ,  $b_{yx}$  and their geometric interpretations

Properties: i)  $b_{xy} \times b_{yx} = r^2$ , ii)  $b_{xy} \times b_{yx} \leq 1$ , iii)  $\frac{b_{xy} \times b_{yx}}{2} \geq r$ , iv) Effect of change of origin and scale on regression coefficients, The point of intersection of two regression lines, Derivation of acute angle between the two lines of regression, Concept of residual, Mean residual sum of squares, Residual Plot (Residual versus fitted value) and its interpretation, Explained and unexplained variation, coefficient of determination, Illustrative examples.

**Unit – 2**

**(15 hrs.)**

**2.1 Attributes:** Introduction and Notations of Attribute, Dichotomy, class, order of class, positive and negative class, class frequency, ultimate class frequency, fundamental set of class frequency, relationships among different class frequencies (up to three attributes), Concept of consistency, Concept of independence and association of two attributes, Yule's coefficient of association ( $Q$ ): Definition,  $-1 \leq Q \leq +1$ , interpretation, Coefficient of colligation ( $Y$ ): Definition, interpretation, Relation between  $Q$  and  $Y$ : 1)  $Q = \frac{2Y}{1+Y^2}$ , 2)  $|Q| \geq |Y|$ , Correlation Coefficients: 1) Point Biserial Correlation

# **SHIVAJI UNIVERSITY, KOLHAPUR.**



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

**Revised Syllabus For  
Bachelor of Science**

**Part-II**

**Statistics**

**CBCS PATTERN**

**Syllabus to be implemented from**

**June, 2019 onwards.**

**SHIVAJI UNIVERSITY, KOLHAPUR**  
**CBCS SYLLABUS WITH EFFECT FROM JUNE, 2019**

**B. Sc. Part-II: SEMESTER III**

**SUBJECT: STATISTICS -V**

**DSC - 7C: Probability Distributions–I**

**Theory: 36 Hrs. Marks-50 (Credit 2)**

**OBJECTIVES:**

The main objective of this course is to acquaint students with the basic concepts of discrete distributions defined on countably infinite sample space, continuous univariate and bivariate distributions, transformation of univariate continuous random variable.

By the end of the course students are expected to be able to:

- a) understand concept of discrete and continuous probability distributions with real life situations.
- b) distinguish between discrete and continuous distributions.
- c) find the various measures of random variable and probabilities using its probability distribution.
- d) know the relations among the different distributions.
- e) understand the concept of transformation of univariate and bivariate continuous random variable.

**CONTENTS:**

**Unit-1:**

**(18 hrs.)**

**1.1 Discrete Distributions: Poisson, Geometric and Negative Binomial Distribution:**

Definition of random variable (defined on countably infinite sample space). Poisson Distribution: Definition of Poisson with parameter  $\lambda$ . Mean, variance, probability generating function (p. g. f.). Recurrence relation for successive Probabilities, Additive property of Poisson distribution. Poisson distribution as a limiting case of Binomial distribution, examples. **Geometric Distribution:** Definition of Geometric with parameter p. Mean, Variance, distribution function, p. g. f., Lack of memory property, examples. Negative Binomial Distribution: Definition of Negative Binomial with parameters (k, p), Geometric distribution is a particular case of Negative Binomial distribution, Mean, Variance, p. g. f., Recurrence relation for successive probabilities, examples.

**1.2: Continuous Univariate Distributions:** Definition of the continuous sample space with illustrations, Definition of continuous random variable (r. v.), probability density function (p. d. f.), cumulative distribution function (c. d. f.) and its properties. Expectation of r. v., expectation of function of r. v., mean, median, mode, quartiles, variance, harmonic mean, raw and central moments, skewness and kurtosis, examples. Moments generating function (m. g. f.): definition and properties (i) Standardization property  $M_X(0) = 1$ , (ii) Effect of change of origin and scale, (iii) Uniqueness property of m. g. f., if exists, (statement only). Generation of raw and central moments. Cumulant generating function (c. g. f.): definition, relations between cumulants and central moments (up to order four). Examples.

**Unit-2:**

**(18 hrs.)**

**2.1 Continuous Bivariate Distributions:** Definition of bivariate continuous r. v. (X, Y), Joint p. d. f., c. d. f with properties, marginal and conditional distribution, independence of r. vs., evaluation of probabilities of various regions bounded by straight lines. Expectation of function of r. vs., means, variances, covariance, correlation coefficient, conditional expectation, regression as conditional expectation if it is linear function of other variable and conditional variance, proof of i)  $E(X \pm Y) = E(X) \pm E(Y)$ , ii)  $E[E(X/Y)] = E(X)$ . If X and Y are independent r. vs. then (i)  $E(XY) = E(X)E(Y)$ , (ii)  $M_{X+Y}(t) = M_X(t) \times M_Y(t)$ . Examples.

Examples and problems.

**Unit-2:**

**(18 hrs.)**

**2.1 Sampling Theory:** Concept of distinguishable elementary units, sampling units, sampling frame, random sampling and non-random sampling. Advantages of sampling method over census method, objectives of a sample survey. Designing a questionnaire, Characteristics of a good questionnaire, Concept of sampling and non-sampling errors. Handling of non-response cases.

**Simple random sampling:** Simple random sampling from finite population of size N with replacement (SRSWR) and without replacement (SRSWOR): Definitions, population mean and population total as parameters. Following results with proof.

- i. In SRSWOR, the probability of a specified unit being selected in sample at any given draw is equal to  $1/N$ .
- ii. In SRSWOR, the probability of a specific unit included in the sample is  $n/N$ .
- iii. In SRSWOR, the probability of drawing a sample of size 'n' from a population of size N units is  $\frac{1}{\binom{N}{n}}$ .
- iv. In SRSWR, the probability of a specific unit included in the sample is  $1 - \left(1 - \frac{1}{N}\right)^n$ .
- v. In SRSWR, the probability of drawing a sample of size 'n' from a population of size N units is  $\frac{1}{N^n}$ .

**2.2 Demography:** Introduction and need of vital statistics. Mortality rates: Crude death rate (CDR), Specific Death Rate (SDR), Standardized Death Rate (STDR). Fertility Rates: Crude Birth Rate (CBR), Age Specific Fertility Rate (ASFR), General Fertility Rate (GFR), Total Fertility Rate (TFR). Reproduction Rate: Gross Reproduction rate (GRR), Net Reproduction Rate (NRR).

**References and Recommended Readings**

1. Cochran, W.G: Sampling Techniques, Wiley Eastern Ltd., New Delhi.
2. Des Raj: Sampling Theory.
3. Gupta S. C. and Kapoor V. K., "Fundamentals of Applied Statistics", Sultan and Chand, (2010).
4. Dr. Kore B. G. and Dr. Dixit P. G.: "Statistical Methods-I", Nirali Prakashan, Pune.
5. Mukhopadhyay, Parimal: Theory and Methods of Survey Sampling, Prentice Hall.
6. Srivastav D. S: A Text book of Demography.
7. Sukhatme, P.V. and Sukhatme, B.V.: Sampling Theory of Surveys with Applications, Indian Society of Agricultural Statistics, New Delhi.

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**SHIVAJI UNIVERSITY, KOLHAPUR  
CBCS SYLLABUS WITH EFFECT FROM JUNE, 2019**

**B. Sc. Part-II: SEMESTER IV**

**SUBJECT: STATISTICS -VII**

**DSC-7D: Probability Distributions-II**

**Theory: 36 Hrs. Marks-50 (Credit 2)**

**OBJECTIVES:**

The main objective of this course is to acquaint students with the Uniform, Exponential, Gamma and Beta, Normal distributions and Exact Sampling distributions.

By the end of the course students are expected to be able to:

- a) know some standard continuous probability distributions with real life situations.
- b) distinguish between various continuous distributions.
- c) find the various measures of continuous random variable and probabilities using its probability distribution.

- d) understand the relations among the different distributions.
- e) understand the Chi-Square, t and F distributions with their applications and inter relations.

## CONTENTS:

### Unit-1:

(18 hrs.)

- 1.1 Uniform and Exponential Distribution:** Uniform distribution: Definition of Uniform distribution over (a, b), c.d.f., m.g.f., mean, variance, moments. Distribution of (i)  $(X-a)/(b-a)$ , ii)  $(b-X)/(b-a)$ , (iii)  $Y = F(x)$  where  $F(x)$  is c.d.f. of any continuous r.v. Exponential distribution: p.d.f. (one parameter),

$$f(x) = \theta e^{-\theta x}, x \geq 0, \theta > 0$$

$$= 0, o.w$$

c.d.f., m.g.f., c.g.f., mean, variance, C.V., moments, Cumulants, median, quartiles, lack of memory property, and distribution of  $-(1/\theta) \log X$  where  $X \sim U(0, 1)$ .

- 1.2: Gamma and Beta Distributions:** **Gamma distribution:** Gamma distribution with scale parameter  $\theta$  and shape parameter  $n$ , special case  $\theta = 1, n = 1$ , m.g.f., c.g.f., mean, mode, variance, moments, cumulants,  $\beta_1, \beta_2, \gamma_1$  and  $\gamma_2$  coefficients, additive property: distribution of sum of i.i.d. exponential variates. **Beta distribution of first kind:** Beta distribution of first kind with parameters  $m$  &  $n$ . mean, mode, variance, symmetric when  $m = n$ , Uniform distribution as a particular case when  $m = n = 1$ , distribution of  $(1-X)$ . **Beta distribution of second kind:** Beta distribution of second kind with parameters  $m$  &  $n$ . mean, mode, variance, relation between beta distribution of first kind and second kind, distribution of  $X+Y, X/Y$  and  $X/(X+Y)$  where  $X$  and  $Y$  are independent gamma variate.

### Unit-2:

(18 hrs.)

- 2.1 Normal distribution:** Normal distribution with parameters  $\mu$  &  $\sigma^2$ , Definition of standard normal distribution, properties of normal curve, m.g.f., c.g.f., mean, variance, median, mode, mean deviation, moments, cumulants, measures of skewness & kurtosis, distribution of linear combination of variates. Distribution of  $X^2$  if  $X \sim N(0, 1)$ .

- 2.2: Exact Sampling Distributions:** **Chi-Square distribution:** Definition of chi square, derivation of p.d.f. of chi square distribution with  $n$  degrees of freedom using m.g.f., c.g.f., mean, variance, moments, cumulants, mode, skewness and kurtosis, additive property.

**Student's t- distribution:** Definition of student's t variate. Derivation of p.d.f., mean, mode, variance, moments,  $\beta_1, \beta_2, \gamma_1$  and  $\gamma_2$  coefficients.

**Snedecor's F distribution:** Definition of F variate, derivation of p.d.f., mean, variance and mode. Distribution of  $1/F$ . Inter relation between t, F and  $\chi^2$  (Without Proof).

### References and Recommended Readings

1. Trivedi R. S.: Probability and Statistics with Reliability and Computer Science Application, Prentice – Hall of India Pvt. Ltd., New Delhi.
2. Parimal Mukhopadhyaya: An Introduction to the Theory of Probability. World Scientific Publishing.
3. Hogg R.V. and Criag A.T.: Introduction to Mathematical Statistics (Third edition), Macmillan Publishing, New York.
4. Goon, A.M., Gupta M.K. and Dasgupta B: Fundamentals of Statistics Vol. I and Vol. II World Press, Calcutta.
5. Gupta S. C. & Kapoor V.K.: Fundamentals of Mathematical Statistics. Sultan Chand & sons, New Delhi.
6. Gupta S. C. & Kapoor V.K.: Applied Statistics. Sultan Chand & sons, New Delhi.
7. Dr. Kore B. G., Dr. Dixit P. G. and Mr. P. S. Kapre: "Probability Distributions-II",



Nirali Prakashan, Pune.

8. Mood A.M., Graybill F.A.: Introduction to theory of Statistics. (Chapter II, IV, V, VII) and Boes D.C. Tata, McGraw Hill, New Delhi. (Third Edition)
9. Walpole R.E. & Mayer R.H.: Probability & Statistics. (Chapter 4, 5, 6, 8, 10) MacMillan Publishing Co. Inc, New York

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**SHIVAJI UNIVERSITY, KOLHAPUR**  
**CBCS SYLLABUS WITH EFFECT FROM JUNE, 2019**

**B. Sc. Part-II: SEMESTER IV**  
**SUBJECT: STATISTICS - VIII**  
**DSC-8D: Statistical Methods-II**

**Theory: 36 Hrs. Marks-50 (Credit 2)**

**OBJECTIVES:**

The main objective of this course is to acquaint students with the concepts of Time Series, Statistical Quality Control, Testing of Hypothesis.

By the end of the course students are expected to be able to:

- a) know the concept and use of time series.
- b) understand the meaning, purpose and use of Statistical Quality Control, construction and working of control charts for variables and attributes
- c) apply the small sample tests and large sample tests in various situations.

**CONTENTS:**

**Unit-1: (18 hrs.)**

1.1 **Time Series:** Meaning and need of time series analysis, components of time series; (i) Secular trend (ii) Seasonal Variation (iii) Cyclical Variation (iv) Irregular Variation, Additive and Multiplicative model, utility of time series. Measurement of trend: (i) Moving averages method (ii) Progressive average method (iii) Least square method. (iv) Measurement of seasonal indices by simple average method.

1.2 **Statistical Quality Control:** Meaning and purpose of S.Q.C., Process control, Product control, chance causes, assignable causes, Shewhart's control chart- construction & working, lack of control situation. Control charts for variables - control chart for mean, control chart for range, construction and working of mean & range charts for unknown standards, revised control limits. Control charts for Attributes – Defects, defectives, fraction defective, control chart for fraction defective (p-chart) for fixed sample size and unknown standards, construction and working of chart. Control charts for number of defects (C-chart), for unknown standards, construction and working of C-chart.

**Unit 2: (18 hrs.)**

2.1 **Testing of Hypothesis - I:** Notion of Population, Sample, Parameter, Statistic, Sampling distribution of Statistic, hypothesis, Simple and composite hypothesis, Null and alternative hypothesis, type I and type II errors, Critical region, level of significance. one and two tailed test, power of test. Large Sample Tests: General procedure of testing of hypothesis. a) Tests for means: i) testing of population mean;  $H_0: \mu = \mu_0$ , ii) testing equality of population means;  $H_0: \mu_1 = \mu_2$  b) Tests for Proportion: i) testing of population Proportion;  $H_0: P = P_0$  ii) testing equality of population Proportion;  $H_0: P_1 = P_2$  c) test for population correlation: i)  $H_0: \rho = \rho_0$  ii)  $H_0: \rho_1 = \rho_2$  (by Z-transformation)

2.2: **Testing of Hypothesis - II (Small sample tests):** Definition of Fisher's t- variate, t - test: a) test for means: i)  $H_0: \mu = \mu_0$ , ii)  $H_0: \mu_1 = \mu_2, (\sigma_1^2 = \sigma_2^2)$ , iii) Paired t- test,

# **SHIVAJI UNIVERSITY, KOLHAPUR.**



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

**Revised Syllabus For**

**B.Sc Part- III**

**Physics**

**Syllabus to be implemented from**

**June, 2020 onwards.**

**B.Sc. Part-III Semester-VI**  
**PHYSICS Paper-XVI**  
**DSE-F4 Energy Studies and Materials Science**  
**Theory: 36 Hours (45 lectures)**  
**Marks 50 (Credits: 02)**

**UNIT-I**

**1. Energy and Wind Energy ( 8 hrs)**

Energy, Forms of energy, Man and environment, Energy chains, Classification of energy resources, Energy demands, Age of renewable and alternatives, Wind energy, Wind energy chains, Wind energy quantum, Planning of wind farm, Wind power density, Efficiency factor of wind turbine (P-H graph), Power of wind turbine for a given incoming wind velocity, Types of a wind turbine generator unit, Horizontal axis propeller type wind turbine generator unit.

**2. Solar Energy ( 8 hrs)**

Solar energy, Solar energy spectrum (UV, Visible and IR), Utilization of solar energy-thermal route, photovoltaic route, Essential subsystems in solar energy plant, Solar constant, Clarity index, Solar insolation, Solar energy from satellite station through microwave to earth station, Solar photovoltaic systems, Merits and limitations of solar PV systems, Prospects of solar PV systems, Power of a solar cell and solar PV panel.

**3. Biomass Energy ( 2 hrs)**

Origin of biomass, Biomass energy resources (biomass from cultivated crops, biomass from waste organic matter), Biomass conversion process (biochemical conversion-anaerobic digestion and fermentation)

**UNIT-II**

**1. Superconductivity ( 6 hrs)**

Idea of superconductivity, Critical temperature, Critical magnetic field, Meissner effect, Type-I and Type-II superconductors, London equation and penetration depth, Isotope effect, Application (magnetic levitation)

**2. Nanotechnology ( 12 hrs)**

Introduction to nanoscience and nanotechnology, Length scales relevant to nanoscience, Nanostructures: 1D, 2D and 3D nanostructures, Size effects in nanosystems, Quantum

# **SHIVAJI UNIVERSITY, KOLHAPUR.**



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Accredited By NAAC with 'A' Grade  
CHOICE BASED CREDIT SYSTEM

Syllabus For

**B.Sc. Part - I**

**Botany**

**SEMESTER I AND II**

**(Syllabus to be implemented from June, 2018 onwards.)**

**B.Sc.Part I : Subject: Botany**

SHIVAJI UNIVERSITY, KOLHAPUR  
Choice Based Credit System (CBCS)

Syllabus with effect from 2017

B.Sc.Part I : Subject: Botany

SEMESTER –II

Botany Paper III: DSC- 13 B: PLANT ECOLOGY

**CREDITS: 2, LECTURE PERIODS: 2.5 PER WEEK- LECTURE HOURS: 2 PER WEEK, MARKS: 50**

UNIT	SUB-UNIT	TOPICS	LECTURE PERIOD
1.	1.a	<b>ECOLOGICAL FACTORS AND ADAPTATIONS</b>	
1.	1.a	<b>INTRODUCTION, DEFINITION AND SCOPE OF ECOLOGY</b>	01
1.		<b>ECOLOGICAL FACTORS:</b> <b>Edaphic factors:</b> Soil- Origin and formation, Composition, soil profile. Water- States of water in environment. <b>Climatic factors:</b> Light and Temperature as ecological factors, Optimum and limiting factors. <b>Ecological Adaptations:</b> Ecological adaptations in, Hydrophytes, Xerophytes, Epiphytes and parasites.	07
1.		<b>PLANT COMMUNITIES AND SUCCESSION</b>	
	1.b.	<b>Plant communities:</b> Introduction, general Characters, forms and structure, Raunkier's life forms. <b>Plant Succession :</b> Characters and Process and types – Hydrosere, Xerosere.	07
2.		<b>Ecosystem and Phyto-geography</b>	
	2.a	<b>Ecosystem:</b> Introduction, Composition- Abiotic and Biotic components, Types of ecosystems – Aquatic and Terrestrial (one example of each type). <b>Food chain and web.</b> <b>Ecological pyramids-</b> Number, Biomass and Energy with suitable example.	10
	2.b	<b>Biogeochemical cycles-</b> Introduction, Phosphorus and Nitrogen cycle. Phytogeographical regions as per Chatterji and Mani	05
		<b>Total</b>	<b>30</b>

# **SHIVAJI UNIVERSITY, KOLHAPUR.**



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Accredited By NAAC with 'A' Grade

**CHOICE BASED CREDIT SYSTEM**

Syllabus For

**B.Sc. Part - I**

**Chemistry**

**SEMESTER I AND II**

**(Syllabus to be implemented from June, 2018 onwards.)**

**B.Sc. I Semester II****DSC-4B-Chemistry Paper IV (Analytical Chemistry)****(Theory Credits:02, Lectures-30)**

- 1. Introduction to analytical Chemistry (06)**
  - 1.1 Introduction
  - 1.2 Importance of analysis
  - 1.3 Analytical processes (Qualitative and Quantitative)
  - 1.4 Methods of analysis (Only classification)
  - 1.5 Sampling of solids, liquids and gases
  - 1.6 Errors, types of errors (determinate and indeterminate), methods of expressing accuracy (Absolute and relative error)
  - 1.7 Significant figures, mean, median, standard deviation (Numerical problems expected)
  
- 2. Chromatography (06)**
  - 2.1 Introduction, Basic Principle of Chromatography, Basic terms, Classification of Chromatography
  - 2.2 Paper Chromatography- Principle, Methodology-types of papers and treatment, sample loading, choice of solvent, development-ascending, descending, circular, location of spots, determination of  $R_f$  value, Applications, advantages and disadvantages
  - 2.3 Thin layer chromatography; Principle, Solvent system, stationary phases, preparation of TLC plate, Detecting reagents, methodology-sample loading, development, detection of spot,  $R_f$  value, Applications, advantages and disadvantages
  - 2.4 Comparison of paper chromatography and TLC
  
- 3. Theory of titrimetric Analysis (06)**
  - 3.1 Introduction
  - 3.2 Acid-base indicators
  - 3.3 Theory of indicators w.r.t. Ostwald's ionization theory and quinoid theory
  - 3.4 Neutralization curves and choice of indicators for
    - a. Strong acid-strong base
    - b. Strong acid-weak base
    - c. Strong base-weak acid
  - 3.5 Complexometric titrations
    - a. Introduction
    - b. Types EDTA titrations
    - c. Metallochromic indicators-Eriochrome black- T
    - d. Indicator Action of Eriochrome black- T

- 4. Water Analysis** (06)
- 4.1 Physical analysis of water – pH, Conductance, Colour, odour, Turbidity and taste
- 4.2 Chemical Analysis – Total Dissolved solids , Hardness, Salinity, Alkalinity, Acidity, Sulphates, Nitrates, Dissolved Oxygen, Chemical Oxygen Demand, Biological Oxygen Demand
- 5. Analysis of Fertilizers** (06)
- 5.1 Introduction
- 5.2 Types of fertilizers
- 5.3 Necessity and requirements of good fertilizers
- 5.4 Sampling and sample preparation
- 5.5 Analysis of Nitrogen by Kjeldahl's method
- 5.6 Analysis of Phosphorus by phosphomolybdate method
- 5.7 Analysis of Potassium by sodium tetraphenyl borate method

**References:**

1. Textbook of quantitative Inorganic analysis-A.I. Vogel
2. Instrumental methods of Chemical analysis-H. Kaur
3. Instrumental methods of Chemical analysis-B.K. Sharma
4. Instrumental methods of Chemical analysis-Chatwal Anand
5. Fundamental of analytical Chemistry-Skoog and West
6. Basic Concepts of analytical Chemistry-S.M. Khopkar
7. Analytical Chemistry-Alka Gupta (Pragati Prakashan)
8. Indian Pharmacopoeia
9. Chromatography-H. Kaur
10. Chemistry for Degree students(B.Sc. First Year): R. L. Madan (S. Chand and Company)



# **SHIVAJI UNIVERSITY, KOLHAPUR.**



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

**Revised Syllabus For  
Bachelor of Science**

**Part-II  
Chemistry  
CBCS PATTERN**

**Syllabus to be implemented from**

**June, 2019 onwards.**

## B.Sc.Part II (CBCS) Sem III

### Paper No. DSC-C4- Chemistry paper No. VI (Industrial Chemistry)

(Theory Credits: 02 : 30 hours, 38 lectures)

Expected learning Outcomes :

Name of the topic	Expected Learning Outcome
1.Basic concepts in Industrial Chemistry	a.Learning and Understanding basic concepts and concentration terms b.Distinguish between classical and industrial chemistry c. Distinguish between unit operations and unit processes
2. Unit Operations	Knowledge of some unit operations
3.Corrosion and Electroplating	Understanding the process of corrosion and Knowledge of prevention from corrosion
4.Paper Industry	Knowledge of Indian paper industry
5.Soap and Detergents	Knowledge about the chemical nature and cleansing action of soap

#### Unit I Basic Concepts in Industrial Chemistry(10)

The difference between classical chemistry and industrial chemistry, Raw material for the Chemical Industry,Material Safety data sheets,Units that make up a chemical process-unit operation and unit processes, Flow Diagrams,Block Diagram, Process flow diagram / flow sheets, Material Balances-The purpose of mass balance calculations,Material Balance Equations,Mass balance calculation procedure and simple example

Definition and Explanation of terms -Normality, Equivalent weight, Molality, Molecular weight,Molarity, Molarity of mixed solution, Acidity of base, Basicity of acid,ppt, ppm, ppb solutions, Mole Fraction, Weight fraction, Percentagecomposition by W/W, W/V, V/V, Problems based on Normality, Molarity, mole fraction, mixed solution, etc.

#### Unit II Unit Operations(06)

Size reduction- Principle,Jaw crusher,ball mill

Size Enlargement –Principle,Pellet mill,tumbling agglomerators

Separation – Magnetic separation,Froth flotation,Distillation-Distillation of liquid mixtures, Types of distillation, Types of columns and packings, Condensers, Vacuum distillation, Spinning-banddistillation, Steam distillation.

#### Unit III. Corrosion and Electroplating (09)

Introduction of corrosion, Electrochemical theory of corrosion,Factors affecting on corrosion -i. Position of metals in the electrochemical series on the basis of standard reduction potential ii. Purity of metal iii. Effect of moisture iv. Effect of oxygen (differential aeration principle) v. Hydrogen overvoltage, Methods of protections of metals from corrosion, Electroplating: Electrolysis, Faraday's laws, Cathode current Efficiency, Basic principles of electroplating, Cleaning of articles, Electroplating of chromium, Anodising

#### Unit IV Paper Industry (06)

Manufacturing of Pulp,Types of pulp-Sulphate and soda ,Manufacturing of paper, calendaring ,ecological problems of Indian Paper industry, Features of good paper industry

## Unit V Soaps and Detergents (07)

Introduction, Soaps - Raw materials, Types of soaps, Cleansing action of soap, Manufacture of soap - Boiled or Hot Process, Detergents - Raw Materials, Types of Detergents: Anionic, cationic and amphoteric, Preparation of Teepol and Deriphath, Comparisons between soaps and detergents.

### Reference Books:

- 1) Principles of Physical Chemistry by Puri, Sharma and Pathania, Vishal Publishing company Jalindhar
- 2) Essential of Physical Chemistry by Bahl B.S., Tuli G.D. and Bahl Arun, S.Chand and Company Ltd. New Delhi
- 3) Modern Analytical Chemistry By David Harvey, McGRAW-Hill International Edition, 2000
- 4) Industrial chemistry by B.K.Sharma, Goel Publishing Housing, 16th edition 2011
- 5) Advanced Inorganic Chemistry, Vol.No.1, by Gurudeep Raj, Krishna Prakashan Media Ltd, Goel Publication, Meerut
- 6) Analytical chemistry by B.K.Sharma, Krishna Prakashan Media Ltd, Meerut, edition 3rd 2011
- 7) Principles of electroplating and electroforming by Blum and Hogaboom
- 8) Chemical Process Industries by Shreve and Brink
- 9) Industrial Chemistry by Loutfy Madkor and Helen Njenga
- 10) Elementary Principles of Chemical Processes by Richard Felder and Ronald Rousseau, John Wiley and Sons

# **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.**

**B.Sc. Part III (CBCS) SEMESTER-V**  
**Paper No. DSE-E8 Chemistry paper No. XII**  
**(Analytical Chemistry)**  
**(Theory Credits: 02, 30 hours, 38 lectures)**

**Expected learning Outcomes:**

<b>Name of the topic</b>	<b>Expected Learning Outcome</b>
1.Theory of Gravimetric Analysis	Learning and understanding the techniques of gravimetric analysis.
2.Flame Photometry	Knowledge of instrumental analysis of alkali and alkaline earth elements.
3.Colorimetry and Spectrophotometry	Understanding, working and applications of optical methods as an analytical tool.
4.Potentiometric titrations	Understanding theory and applications of potentiometric titrations.
5.Chromatographic techniques and Quality control	Understanding the basics of ion exchange and column adsorption chromatography, Quality control practices in analytical industries / laboratories.

**Unit 1. Theory of Gravimetric Analysis**

**[08 ]**

- 1.1 Introduction.
- 1.2 Gravimetric analysis by precipitation: nucleation, crystal growth, digestion/ageing, filtration, drying, ignition, weighing.
- 1.3 Optimum conditions for good precipitation.
- 1.4 Physical nature of precipitate.
- 1.5 Purity of precipitate: co-precipitation, post-precipitation.
- 1.6 Organic precipitants and their applications.

**Unit 2. Flame Photometry**

**[06 ]**

- 2.1 Introduction.
- 2.2 General principles of flame photometry.
- 2.3 Instrumentation: Block diagram, Burners (Premix and Lundergraph burners), mirror, slits, filters, detector (Photomultiplier tube).
- 2.4 Effect of solvent in flame photometry.

- 2.5 Experimental procedure of analysis (Standard addition and internal standard).
- 2.6 Interferences and Factors that influence the intensity of emitted radiation in a flame photometer.
- 2.7 Applications of flame photometry in real sample analysis.
- 2.8 Limitations of flame photometry.

### **Unit 3. Colorimetry and Spectrophotometry**

**[06]**

- 3.1 Theory of colorimetry and spectrophotometry.
- 3.2 Lambert Beer's law, deviation from Beer's law.
- 3.3 Terms used in colorimetry and spectrophotometry.
- 3.4 Classification of methods of 'colour' measurement or comparison.
- 3.5 Photoelectric colorimeter method–Single beam photo-electric colorimeter.
- 3.6 Spectrophotometer method–Single beam direct reading spectrophotometer.
- 3.7 Determination of unknown concentration by using concentration-absorbance plot.
- 3.8 Applications of colorimetry and spectrophotometry.

### **Unit 4. Potentiometric titrations**

**[07]**

- 4.1 Introduction.
- 4.2 Determination of pH.
- 4.3 Study of Quinhydrone and Glass electrodes and their use in determination of pH.
- 4.4 Potentiometric titrations: Classical and analytical methods for locating end points.
- 4.5 Acids- Bases titration with suitable example.
- 4.6 Redox titration with suitable example.
- 4.7 Precipitation titration with suitable example.
- 4.8 Basic circuit of direct reading potentiometer.
- 4.9 Advantages of potentiometric titrations.

### **Unit 5. Chromatographic techniques and Quality control**

**[10]**

- 5.1 Introduction, classification.

5.2 **Column chromatography:** Introduction, types, Principle of adsorption column chromatography, solvent system, stationary phases, Methodology-Column packing, applications of sample, development, detection methods, recovery of components, Applications.

5.3 **Ion exchange chromatography:** Introduction, Principle, Types and properties of ion exchangers, Methodology-Column packing, application of sample, elution, detection/analysis, Applications.

#### 5.4 **Concepts in Quality control**

i. Introduction and Concept of quality.

ii. Quality control.

iii. Quality assurance.

iv. ISO series.

v. Good laboratory practices.

#### **References**

1. Text Book of Quantitative inorganic analysis – A.I.Vogel.
2. Instrumental methods of chemical analysis –Willard, Merit & Dean.
3. Instrumentals methods of chemical analysis – Chatwal & Anand.
4. Vogel’s textbook of qualitative inorganic analysis – Bassett, Denny etc.
5. Textbook of qualitative inorganic analysis – Kolthoff and Sandel.
6. Fundamentals of analytical chemistry – Skoog and West.
7. Basic concepts of analytical chemistry – S.M. Khopkar.
8. Text book of qualitative chemical analysis – Vogel.
9. Handbook of quality assurance for the analytical chemistry laboratory – James P.Dux, Van Nostrand Reinhold, New York 1986.
10. Instrumental methods of chemical analysis – H.Kaur.
11. A text book of Quantitative chemical analysis Vogel’s by J.Mendham, R. C. Denney.
12. Quantitative Chemical Analysis – Daniel C. Harris.
13. Applying ISO 9000 Quality management system, International trade centre publishing genera, Indian edition printed by D. L. Shaha Trust.

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**B.Sc. Part III (CBCS) SEMESTER -VI**  
**Paper No. DSE-F5, Chemistry Paper No. –XIII**  
**(Inorganic Chemistry)**  
**(Theory Credits: 02, 30 hours, 38 lectures)**

**Expected Learning Outcome**

Name of the topic	Expected Learning Outcome
1.Coordination Chemistry	The topic focused on the mechanism of the reactions involved in inorganic complexes of transition metals. The students can understand the thermodynamic and kinetic aspects of metal complexes.
2.Nuclear Chemistry	The generation of nuclear power with the help of nuclear reactions is highlighted. Role of radio isotopes in medicinal, industrial and Archaeology fields is explained.
3.Chemistry of f-block Elements	The characteristics, properties and separation of lanthanides and Actinides are discussed. Synthesis and IUPAC Nomenclature of trans uranic elements (TU) explained.
4.Iron and Steel	The techniques involve in ore dressing and extraction of cast iron from its ore are discussed.
5.Bio –inorganic Chemistry	Role of various metals and non metals in our health are discussed.

**Unit 1. Coordination Chemistry**

[12]

**A. Inorganic Reaction mechanism**

- 1.1 Introduction.
- 1.2 Classification of Mechanism: Association, dissociation, interchange and the rate determining steps.
- 1.3  $S_N^1$  and  $S_N^2$  reactions for inert and labile complexes.
- 1.4 Mechanism of substitution in cobalt (III) octahedral complexes.
- 1.5 Trans effect and its theories.
- 1.6 Applications of trans effect in synthesis of Pt (II) complexes.

**B. Thermodynamic and Kinetic aspects of metal complexes.**

- 1.7 Introduction.
- 1.8 Thermodynamic stability.



## **B| Actinides**

3.7 Position in periodic table.

3.8 Electronic configuration.

3.9 General methods of preparation of transuranic elements.

i. Neutron capture – followed by  $\beta$  decay.

ii. Accelerated projectile bombardment.

iii. Heavy ion bombardment.

3.10 IUPAC nomenclature of the super heavy elements with atomic number (Z) greater than 100.

## **Unit 4. Iron and Steel.**

**[07]**

4.1 Occurrence and ores of iron.

4.2 Definition of the Terms- Ore, Mineral, Slag, Flux, Gangue, Matrix, Calcinations, Reduction, Roasting, Smelting and Leaching.

4.3 Extraction of iron by Blast furnace.

4.4 Steel: Definition and types.

4.5 Conversion of cast iron into steel by

i. Bessemer process.

ii. L.D. process.

4.6 Heat treatment on steel.

## **Unit 5. Bio-inorganic Chemistry.**

**[05]**

5.1 Introduction.

**5.2 Essential and trace elements in biological process.**

5.3 Metalloporphyrins with special reference to hemoglobin and myoglobin.

5.4 Biological role of alkali and alkaline earth metal ions with special referenc to  $\text{Na}^+$ ,  $\text{K}^+$  and  $\text{Ca}^{2+}$

## **Reference Books: (Use recent editions)**

1. Concise Inorganic Chemistry (ELBS, 5th Edition) – J. D. Lee.

**B. Sc. Part III (CBCS) SEMESTER-VI**  
**Paper No. DSE-F8 Chemistry Paper No. XVI**  
**(Industrial Chemistry)**  
**(Theory Credits: 02, 30 hours, 38 lectures)**

**Expected learning Outcomes:**

<b>Name of the topic</b>	<b>Expected Learning Outcome</b>
1.Sugar Industry	Learning and understanding the whole process of manufacture of sugar and byproducts of sugar industry.
2.Manufacture of industrial heavy chemicals	Learning and understanding of physico-chemical principles of production of ammonia, sulfuric acid, nitric acid and sodium carbonate along with its manufacturing plant.
3.Synthetic polymers	Understanding and learning the classification, synthesis and applications of various polymers.
4.Petroleum industry and eco-friendly fuels	Understanding the petroleum Industry, fuels and need of use of ecofriendly fuels.
5.Nanotechnology	Understanding and learning of nanotechnology including classification, optical properties, synthesis routes, characterization techniques and applications of nano-materials.

**Unit 1. Sugar Industry**

**[07]**

- 1.1 Introduction.
- 1.2 Manufacture of cane sugar in India: Extraction of juice, Clarification, Concentration, crystallization, centrifugation and other details of industrial process.
- 1.3 Byproducts of sugar industry.
- 1.4 Manufacture of Ethyl Alcohol from Molasses: by Fermentation.

**Unit 2. Manufacture of Industrial Heavy Chemicals**

**[08]**

- 2.1 Introduction
- 2.2 Manufacture of Ammonia (NH<sub>3</sub>)
  - i. Physico-chemical principles.

ii. Manufacture by Haber's process.

### 2.3 Manufacture of Sulphuric acid ( $\text{H}_2\text{SO}_4$ )

i. Physico-chemical principles.

ii. Manufacture by Contact process.

### 2.4 Manufacture of Nitric acid ( $\text{HNO}_3$ )

i. Physico-chemical principles.

ii. Manufacture by Ostwald's process (Ammonia oxidation process).

### 2.5 Manufacture of Sodium carbonate ( $\text{Na}_2\text{CO}_3$ ) (Washing soda).

i. Physico-chemical principles.

ii. Manufacture by Solvay process.

## Unit 3. Synthetic Polymers

[08]

3.1 Introduction.

3.2 Classification.

i. Based on origin.

ii. Based on composition-organic, inorganic polymers.

iii. Based on method of preparation.

iv. Based on general physical properties.

v. Based on structure.

3.3 Addition Polymerization: Free radical addition and ionic addition polymerization.

3.4 Ziegler-Natta polymerization.

3.5 Methods of preparation and applications of some organic polymers: Polyethylene, polystyrene, polyvinyl chloride, Phenol-formaldehyde resin.

3.6 Conducting organic polymers: Synthesis and properties of Polyaniline, polypyrrole.

3.7 Applications of conducting organic polymers.

## Unit 4. Petroleum industry and eco-friendly fuels

[07]

### A] Petroleum industry

Introduction, occurrence, composition of petroleum, resources, processing of petroleum, calorific value of fuel, cracking, octane rating (octane number), cetane

number, flash point, petroleum refineries, applications of petrochemicals, synthetic petroleum, lubricating oils & additives.

## **B| Fuels**

Fuels and eco-friendly fuels: liquid, gaseous fuel (LPG, CNG), fossil fuels, diesel, bio diesel, gasoline, aviation fuels. Use of solar energy for power generation.

### **Unit 5. Nanotechnology**

**[08]**

- 5.1 Introduction of nanotechnology, history, Classification of nanoparticles based on size.
- 5.2 Optical properties of Nanomaterial's
  - i. Semiconducting NPs.
  - ii. Metallic NPs.
- 5.3 Synthetic Routes of nanomaterials: Top-down and bottom-up approaches.
- 5.4 Synthesis methods: Sol-gel, precipitation, chemical reduction, chemical vapor deposition, hydrothermal, electrodeposition.
- 5.5 Characterization of nanomaterials: X-Ray diffractometer, Scanning Electron Microscope, Transmission electron microscope.
- 5.6 Applications of nanotechnology.

### **References:**

1. Industrial Chemistry-B.K. Sharma
2. Chemical process industries – Shrieve & Brink
3. Industrial chemistry – Kent
4. Industrial chemistry – Rogers
5. Industrial chemistry – R. K. Das
6. Mechanical chemistry – Burger
7. Nanotechnology: Principles and Practices – Sulbha Kulkarni
8. The Petroleum chemicals industry by R. F. Goldstine, e &Fn London
9. Fundamentals of petroleum chemical technology by P Below.
10. Petro Chemicals Volume 1 and 2 ; A Chauvel and Lefevrev ; Gulf Publishing company

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**SHIVJI UNIVERSITY, KOLHAPUR**

**M.Sc. Part I Chemistry Syllabus as per New CBCS PATTERN**

**Including 1st and 2nd semester Applied and Industrial Chemistry**

**Revised Implemented from 2019-2020**

**Applicable for University Departments & Affiliated Colleges Centers**

**M. Sc. Part – I (Inorganic, Organic, Physical, Analytical, Applied and Industrial Chemistry)**

**Semester I**

	<b>Course code</b>	<b>Paper No.</b>		<b>Title of course</b>	
CGPA	CC-101	I	CH.1.1	Inorganic Chemistry - I	All courses are compulsory.
	CC-102	II	CH.1.2	Organic Chemistry - I	
	CC-103	III	CH.1.3	Physical Chemistry - I	
	CC-104	IV	CH.1.4	Analytical Chemistry - I	
	CCPR-105		CHP.1.1	Practical- I	
Non-CGPA	AEC -106				

**Semester II**

	<b>Course code</b>	<b>Paper No.</b>		<b>Title of course</b>	
CGPA	CC-201	V	CH.2.1	Inorganic Chemistry – II	All courses are compulsory.
	CC-202	VI	CH.2.2	Organic Chemistry – II	
	<b>CC-203</b>	<b>VII</b>	<b>CH.2.3</b>	<b>Physical Chemistry – II</b>	
	CC-204	VIII	CH.2.4	Analytical Chemistry - II	
	CCPR-205		CHP.2.1	Practical -II	
Non-CGPA	SEC - 206				

7. Verify Beer-Lamberts Law by Colorimetric method.  
(Any other suitable experiments may be added).

#### **RECOMMENDED BOOKS**

1. A text book of practical organic chemistry- A. I. Vogel.
2. Practical organic chemistry- Mann and Saunders.
3. A handbook of quantitative and qualitative analysis- H. T. Clarke.
4. Organic Synthesis Collective Volumes by Blat.

### **Paper-VII, PHYSICAL CHEMISTRY – II (CH.2.3/APCH.2.3/IND.2.3)**

#### **UNIT-I: QUANTUM CHEMISTRY**

**15L**

Introduction: Wave particle duality of material and De Broglie's hypothesis, uncertainty principle, Schrodinger equation, wave function, conditions for acceptable wave functions and its interpretation, properties of wave functions, Operators and related theorems, algebra of operators, commutator, linear operators, Normalization and orthogonality, Eigen functions and Eigen values, postulate of quantum mechanics. Solutions of wave equation for a free particle and particle in a box problem, Transition dipole moment integral and selection rules, particle in a box application to electronic spectra of conjugated linear organic molecules.

Linear and angular momentum operators, eigen function and eigen values of angular momentum operator, Ladder operator, addition of angular momenta. Spin angular momenta, symmetric and antisymmetric wavefunctions, Pauli Exclusion Principle, spectroscopic term symbols.

#### **UNIT-II: PHOTOCHEMISTRY**

**15L**

Absorption of light, laws of photochemistry, electronic structure of molecules, molecular orbital, electronically excited singlet states, designation based on multiplicity rule, construction of Jablonski diagram, electronic transition, Frank Condon principle, selection rules, intensity of absorption bands, nature of electronic spectra and primary process, photo-dissociation, pre-dissociation, Photo physical phenomena: photo-

physical pathways of excited molecular system (radiative and non-radiative), prompt fluorescence, delayed fluorescence, and phosphorescence, fluorescence quenching: concentration quenching, collisional quenching, quenching by excimer and exciplex emission, fluorescence resonance energy transfer between photo-excited donor and acceptor systems. Stern-Volmer relation, critical energy transfer distances, energy transfer efficiency, examples and applications in chemical analysis. Photochemical reactions, photo-oxidation, photoreduction, photo-dimerization, photoisomerization and photosensitized reactions. **Photochemistry of environment: Greenhouse effect.**

### **UNIT-III: ELECTROCHEMISTRY**

**15L**

Activity and Activity coefficients: forms of activity coefficients and their interrelationship, Types of electrodes, Determination of activity coefficients of an electrolyte using concentration cells, instability constant of silver ammonia complex. Acid and alkaline storage batteries, Abnormal ionic conductance of hydroxyl and hydrogen ions.

Electrokinetic phenomena: Electrical double layer, theories of double layer-Helmholtz-Perrin theory, Gouy and Chapman theory, Stern theory. electro-capillary phenomena, electro-capillary curve. Electro-osmosis, electrophoreses. Streaming and Sedimentation potentials. Zeta potentials and its determination by electrophoresis, influence of ions on Zeta potential.

### **UNIT-IV: CHEMICAL KINETICS**

**15L**

Introduction to basic concepts, Experimental methods of following kinetics of a reaction, chemical and physical (measurement of pressure, volume, EMF, conductance, diffusion current and absorbance) methods and examples. Steady state approximation and study of reaction between  $\text{NO}_2$  and  $\text{F}_2$ , decomposition of ozone, and nitrogen pentoxide. Ionic reaction: Primary and secondary salt effect,

Catalysis: Classification of catalysis, mathematical expression of autocatalytic reactions, Michaelis–Menten enzyme catalysis, Homogeneous catalysis: acid and base catalyzed reactions, Heterogeneous catalysis: Adsorption of gas on a surface and its kinetics, Catalyzed hydrogen-deuterium exchange reaction.

#### **Recommended books:**

1. Introductory Quantum Chemistry - A. K. Chandra. Tata McGraw-Hill. 1988.





# **Shivaji University, Kolhapur**

Department of Chemistry

**M.Sc. Part-II Chemistry Syllabus as Per New CBCS PATTERN**

( Inorganic, Organic, Physical and Analytical)

To be implemented from June- 2020-2021

Applicable for University Department and Affiliated Colleges PG Center

**M. Sc. Part – II (Analytical Chemistry)**

**Semester III**

	<b>Course code</b>	<b>Paper No.</b>		<b>Title of course</b>	
CGPA	CC-301	IX	ACH 3.1	Advanced Analytical Techniques	Compulsory course
	CCS-302	X	ACH 3.2	Organo Analytical Chemistry	Compulsory course
	CCS-303	XI	ACH 3.3	Electroanalytical Techniques in Chemical Analysis	Compulsory course
	DSE-304(A)	XII(A)	ACH 3.4(A)	Environmental Chemical Analysis and Control	Choose any one
	DSE-304(B)	XII(B)	ACH 3.4(B)	Recent Advances in Analytical Chemistry	Choose any one
	CCPR-305		ACHP 3.1	Practical –III	Compulsory course
Non-CGPA	AEC-306				
	EC(SWMMOOC)-307				

**Semester IV**

	<b>Course code</b>	<b>Paper No.</b>		<b>Title of course</b>	
CGPA	CC-401	XIII	ACH 4.1	Modern Separation Methods in Analysis	Compulsory course
	CCS-402	XIV	ACH 4.2	Organic Industrial Analysis	Compulsory course
	CCS-403	XV	ACH 4.3	Advanced Methods in Chemical Analysis	Compulsory course
	DSE-404(A)	XVI(A)	ACH 4.4(A)	Industrial Analytical Chemistry	Choose any one
	DSE-404(B)	XVI(B)	ACH 4.4(B)	Quality Assurance and Accreditation	Choose any one
	CCPR-405		ACHP 4.1	Practical –IV	Compulsory course
Non-CGPA	SEC-406				
	GE-407				

- 3) Willard, Deritt, Dean and Settle, Instrumental methods of Analysis.
- 4) F. J. Welcher, Standard Methods of chemical Analysis Vol.3,PartA & B.
- 5) G.W. Ewing, Instrumental Methods of Analysis 4th and 5th editions.
- 6) Chatawal and Anand, Instrumental Methods of Analysis.
- 7) Bassett, Denney-Jeffer and Mendham, Vogel's Textbook of Quantitative Inorganic Analysis,(5th edition).
- 8) Electro-analytical chemistry, edited by H.W. Nurnberg.
- 9) Stulic, Ion selective electrodes (John Wiley).

## ELECTIVE PAPERS

### Paper No. –XII(A), ACH 3.4(A): ENVIRONMENTAL CHEMICAL ANALYSIS AND CONTROL

#### UNIT-I: Sampling in analysis (15)

Definition, theory and techniques of sampling, sampling of gas, liquids and solids, Criteria of Good sampling, Minimization of Variables, transmission and storage of samples, high pressure ashing techniques (HPAT), particulate matter, its separation in gas stream, Filtering and gravity separation. Analysis of particulate matter like asbestos, mica, dust and aerosols etc

#### UNIT-II: Electrochemical and spectral methods Environmental analysis (15)

Introduction to instrumental techniques, principle instrumentation and applications with respect to environmental analysis of Conductometry, Potentiometry, Ion selective electrodes, Cyclic voltammetry, Amperometry, Coulometry, Atomic absorption spectrometry, Atomic fluorescence spectrometry, Inductively coupled plasma spectrometry, Turbidimetry, Non Dispersive Infrared Analysis (NDIR).

#### UNIT-III: Air and Water Pollutant Analysis (15)

Chemistry of Air pollutants, characterization. source, methods of analysis of air pollutants; CO, CO<sub>2</sub>, NO<sub>x</sub>, NH<sub>3</sub>, H<sub>2</sub>S, SO<sub>2</sub> etc. Monitoring Instruments, Potable and Industrial water, major and minor components, dissolved oxygen (DO) Chemical oxygen demand(COD) Biochemical oxygen demand (BOD) and their measurements. Analysis of Pd, Cd, Hg, Cr, As and their physiological manifestations. Quality of industrial waste water analysis for organic and inorganic constituents. Chemistry of odour and its measurements.

#### UNIT-IV: Organic Pollutants and Their Analysis (15)

Sources, disposal, treatment and analysis of phenolic residues, methods of recovery of phenols from liquid effluents, Organomercurials and its analysis, Analysis of organochlorine pesticides, volatile organic pollutants and their analysis

#### Recommended books:

- 1) A.K. De : Standard Methods of Waste and Waste water analysis.
- 2) P. M. S. Monk Fundamentals of Electroanalytical chemistry-John Wiley & Sons (2001) 3. Instrumental methods of chemical analysis H. Kaur
- 3) S.M. Khopkar, Environmental Chemistry ; Environmental pollution analysis
- 4) M.S. Creos and Morr, Environmental Chemical Analysis, American publication(1988)

- 9) Y. Marcus and A. S. Kertes : Ion Exchange and solvent Extraction of metal complexes (Wiley – Interscience , 1969)
- 10) J. A. Marinsky and Y. Marcus : Ion exchange and solvent Extraction (Marcel Dekker, INC , New York, 1973)
- 11) G. H. Morrison and H, Freiser : Solvent Extraction in Analytical Chemistry (John Wiley, New York, 1958 )
- 12) A. K. Da, S. M .Khopkar and R. A. chalmers :solvents Extraction of metals (Von Nostrant Ravinhold, 1970)

### **Paper No. -XIV, ACH 4.2: ORGANIC INDUSTRIAL ANALYSIS**

#### **UNIT – I: Industrial Analysis**

##### **A) Analysis of oils, fats and Soaps (08)**

Introduction to natural fats and oils; isolation of oils from natural resources and their purification. Analysis of oils and fats: Softening point, Congeal point, Titre point, Cloud point, Iodine, saponification, acid, hydroxyl, R-M and Polenske value, Elaiden test, etc.

Introduction to soaps, manufacture of soaps (in brief), analysis of soaps: total anhydrous soap and combined alkali, potassium, water, free fatty acids, saponifiable and non-saponifiable matter in soaps, estimation of phenol, copper and germicidal agents in soaps, determination of inorganic fillers and soap builders, and other additives, estimation of soap in detergents (THAM method)

##### **B) Analysis of Detergents (07)**

Classification of detergents, analysis of raw materials, separation as alcohol soluble and alcohol insoluble matter, additives in detergent formulation (chlorides, sulfates, phosphates, silicates, borates, oxygen releasing substances, CMC, EDTA, etc.), their role and analysis; analysis of active ingredients in detergents (methylene blue and Hyamine-1622 method).

#### **UNIT – II: Food and Food Additive Analysis**

##### **A) Food Analysis (08)**

Food flavors, food colors, food preservatives, analysis of milk and milk products, adulterants in milk and their identification, analysis of honey, jam and their major component. Practical applications and examples in analytical chemistry and research.

##### **B) Food Additive Analysis (07)**

Additives in animal food stuff: Antibiotics: penicillin, chlorotetracyclin, oxytetracyclin in diet supplements; Identification and estimation of growth promoting drugs such as. sulfaquinoxaline, methyl benzoquate, sulfanitran, pyrimethamine, nitrovin, nitrofurazone, acinitrazole, etc

##### **UNIT-III: Analysis of cosmetics products (15)**

Introduction to cosmetics, definition, types of cosmetics, background, development in cosmetic industry, issues in cosmetic industries (contamination and adulteration), future scope and role of analytical chemistry.

##### **A) Analysis of cream and lotions (08)**

Composition of creams and lotions, determination of water, propylene glycol, non-volatile matter and ash content; estimation of borates, carbonates, sulphates, phosphates, chlorides,

# **SHIVAJI UNIVERSITY, KOLHAPUR.**



Accredited By NAAC with 'A++' Grade

**Syllabus For  
M.Sc. Physics  
(Semester Pattern)  
Sem. III to IV**

(As Per NEP-2020)

To be implemented From

**July, 2023 onwards**

**Department of Physics,  
Shivaji University,  
Kolhapur  
M. Sc. –Part-II (Physics) Course Structure**

**NOTE:**

The elective courses are offered during the second year. The following in a nutshell gives the scope and extent of each course offered. Each core theory course has two levels of teaching: Lectures and internal exam. There are common laboratories as well as special laboratories associated with electives. A Project Course, equivalent to two full theory courses enables the student to work on specific problems of her/his interest under a faculty member's guidance.

**M.Sc. (Physics) (Part-II)  
SEMESTER-III CORE PAPER  
(COMPULSORY)**

**M.Sc. (Physics)-Part-II Semester-III (Total 4-credits)**

Course Code	Paper Title	Credits
CC-301	Nuclear and Particle Physics	4-credits
CCS-302	Specialization Subject-I	4-credits
CCS-303	Specialization Subject-II	4-credits
DSE-304	Data Analysis and Statistical Software (2-credits) +Tutorials/LAB work (2-credits)	4-credits
	Numerical Computing Using MATLAB (2-credits) +Tutorials/LAB work (2-credits)	4-credits
	Computational Programming using Mathematica(2-credits) +Tutorials/LAB work (2-credits)	4-credits
CCPR-305	Project on Specialization Subject: Project -I	4-credits
	Practical on Specialization Subject: LAB-I	4-credits
<b>NON-CGPA</b>		
AEC-306	Communicative English	2-credits
EC-307	EC (SWAYAM / MOOC)	2-credits

**M.Sc. (Physics) (Part-II) SEMESTER-  
IV CORE PAPER  
(COMPULSORY)**

**M.Sc. (Physics)-Part-II Semester-IV (Total 4-credits)**

Course Code	Paper Title	Credits
CC-401	EXPERIMENTAL TECHNIQUES	4-credits
CCS-402	Specialization Subject-III	4-credits
CCS-403	Specialization Subject-IV	4-credits
DSE-404	Numerical Methods and Programming	4-credits
	MATLAB Programming and applications (2-credits) +Tutorials/LAB work (2 credits)	4-credits
	Energy Conversion and Storage Devices	4-credits
CCPR-405	Project on Specialization Subject: Project -II	4-credits
	Practical on Specialization Subject: LAB-II	4-credits
<b>NON-CGPA</b>		
SEC-406	Fundamentals of Information Technology	2-credits
GE-407	Observational Astronomy	2-credits

Reference books:

1. A guide to Matlab, B.R. Hunt, R.L. Lipsman, J.M. Rosenberg, Cambridge University Press, 2<sup>nd</sup> edition, 2006
2. Introduction to Numerical Analysis Using MATLAB, By Rizwan Butt
3. Users Guide' student edition of MATLAB latest version
4. Getting Started with MATLAB 5.0: - Rudra Pratap
5. Mastering MATLAB 5.0: - d. Hanselman & B. Littlefield

**M.Sc. (Physics) (Semester-IV)**

**Course Code:** DSE-404

**Total Credits:** 4-credits

**Paper title:** Energy Conversion and Storage Devices

**UNIT I: Solar Photovoltaics**

**(15)**

P-N junction under illumination, Light generated current, I-V equation, Characteristics, Upper limits of cell parameters, losses in solar cells, equivalent circuit, effects of various parameters on efficiency, Solar cell design, Design for high  $I_{sc}$ , Antireflective coating (ARC), Design for high  $V_{oc}$  and fill factor, Analytical techniques; solar simulator, Quantum efficiency, Minority carrier life time and diffusion length measurement. Thin film solar cells: Advantages, materials, a-Si, CdTe, CIGS

**UNIT II: Dye and Quantum Dot Sensitized Solar Cell**

**(15)**

Dye sensitized solar cells: - Operation, Materials and their properties, Advantages and Disadvantages  
Quantum dot sensitized solar cells: - What is quantum dot? Tuning the electronic properties of Quantum dot, Operation, Materials and their properties, Advantages and Disadvantages

**UNIT III: Perovskite and Organic Solar cell**

**(15)**

Perovskite sensitized solar cells: - Crystal Structure and Related Properties, Opto-electronic Properties, Device Structures, operation and Performances

Organic Photovoltaic Materials: - Organic Photovoltaic Materials properties, Principles of Operation and Device Concepts, Stability and Performance

**UNIT IV: Supercapacitors and Batteries:**

**(15)**

Supercapacitor: Comparison between capacitor, supercapacitor and battery; Capacitor principle, Types of capacitors; Electrochemical capacitor: Introduction, Ragone plot, Charge- discharge of supercapacitor and battery; Electric double layer capacitor: electrode-electrolyte interfaces (models),

# SHIVAJI UNIVERSITY KOLHAPUR



**Estd. 1962,**

**NAAC "A" Grade**

**Faculty of Commerce and Management**

**Syllabus for**

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

**(Regulations in accordance with National Education Policy to be  
implemented from Academic Year 2023-24)**

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



## Syllabus of BCA-II (Sem.- III & IV)

### BCA-II(Sem.-III)

Course Code	Title of Paper	Credit	Internal	External	Total
CC 301	RDBMS	4	20	80	100
CC 302	Computer Network and Internet	4	20	80	100
CC 303	Data Structure using C	4	20	80	100
AEC 304	Elements of Statistics	4	20	80	100
AEC305	Human Resource Management and Materials Management	4	20	80	100
CCL 306	Lab Course-V Based on CC301	2	-	50	50
CCL 307	Lab Course VI based on CC303	2	-	50	50
SECSB308	Skill Development III	2	50		50
AECC-EVS	Environmental Studies				
		26	150	500	650

### BCA-II (Sem.-IV)

Course Code	Title of Paper	Credit	Internal	External	Total
CC 401	Object Oriented Programming Using C++	4	20	80	100
CC 402	Software Engineering	4	20	80	100
CC 403	PHP	4	20	80	100
AEC 404	Entrepreneurship Development	4	20	80	100
AEC 405	ERP	4	20	80	100
CCL 406	Lab Course-VII Based on CC401	2	-	50	50
CCL 407	Lab Course-VIII Based on CC403	2	-	50	50
AEC 408	Mini Project	2		50	50
SECSB409	Environmental Studies	4	20	80	100
Total		30	120	630	750

<b>Course code:</b> AEC 404	<b>Entrepreneurship Development</b>	<b>Credit :04</b>	<b>Marks:100</b>
<b>Course Outcomes</b>	After completion of this course student should be able to 1. Define characteristics, function and types of entrepreneurs and know the role of Entrepreneurship in Economic Development. They should know the importance of women entrepreneurs. 2. Identify Business Opportunities and prepare business plan 3. Know project finance agencies. 4. Understand New Opportunities and Challenges in digital entrepreneurship		
<b>UNIT No.</b>	<b>Description</b>	<b>No. of Periods</b>	
I	<b>Introduction to Entrepreneurship:</b> Evolution, Concept and definition of an entrepreneur, Characteristics, functions and types of entrepreneurs, Qualities of an Entrepreneur, Growth of Entrepreneurship in India, Role of Entrepreneurship in Economic Development, Entrepreneurship development process, <b>Women Entrepreneurship</b> in India, problems faced by women entrepreneurs.	15	
II	<b>Business Opportunity Identification:</b> Search for Business Ideas, Market Assessment, Sources of Information and Environmental Analysis, Feasibility analysis- Market, Technical, finance, economic and social Entrepreneurial opportunities in India, Business Opportunity identification and selection.	15	
III	<b>Business Plan Preparation and Project Finance</b> Meaning of Business plan, Significance and Contents of a Business Plan, developing Business Plan, Presenting Business Plan. Preparation of project report, project life cycle, Project Finance: Introduction, Types of Finance – equity finance, Debt finance, Sources of Finance, Venture Capital, Start-up and Make-in-India program, MUDRA Support Agencies: Support to Entrepreneurs by DIC, SIDBI, SIDCO. Entrepreneurship promotion by Government through various schemes.	15	

# SHIVAJI UNIVERSITY, KOLHAPUR



Established 1962

NAAC A++ Grade

**Faculty of Commerce and Management**

**Syllabus for**

**B.C.A. Part- III (Sem – V and VI)(CBCS)**

**(To be implemented from June 2022 onwards)**

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

<b>GE 505</b> <b>(Elective-II)</b>			
Marks:100	Total Hours of Teaching: 60	External :70	Internal : 30
<b>Course Outcomes</b> <b>(Cos):</b>	At the end of the course the student should be able to: 1. Learn the applications of Digital Marketing 2. Analyze the different digital marketing avenues. 3. Examine digital marketing tools. 4. Build real life problems in the domain of digital marketing		
<b>Unit No.</b>	<b>Description</b>	<b>No. of Periods</b>	
I	<b>Digital Marketing:</b> Introduction, Definition, Meaning and Scope, Advantages of digital Medium over other media, Digital Marketing Plan. Digital Marketing Strategy-POEM framework, .Digital consumer behaviour.	15	
II	<b>Search Marketing :</b> Introduction, Meaning, Types ,Basics of Search marketing, SEO-Working, Search Engine marketing (SEM) :Introduction, Meaning, Types of SEM, Difference between SEO and SEM, Overview of Google Ad words, Keywords research and analysis, Tracking the success of SEM Search Engine	15	
III	<b>Types of Digital Marketing</b> <b>1.Mobile Marketing:</b> Different kinds of mobile marketing ,mobile marketing ecosystem <b>2. Social Media Marketing:</b> Different social Media Channels, Social media for various businesses B2C& B2B,Measuring social media ROI <b>3. Content Marketing:</b> story telling in Social media <b>4. E-Mail Marketing:</b> The basics of Email marketing <b>5. Display Marketing:</b> Different Kinds of Display marketing , The display Marketing ecosystem	15	
IV	<b>Affiliate Marketing:</b> Introduction, Meaning, Types of Affiliate Mktg., Future of Digital Marketing, Technological advancements in Digital Marketing, Practical Applications of Digital Marketing.	15	
<b>Books Recommended:</b>			
<ol style="list-style-type: none"> <li>1. Gupta Seema.-Digital Marketing,McGraw Hill Education(India) Pvt.Ltd.</li> <li>2. Ahuja Vandana-Digital Marketing,Oxford University Press, 2015.</li> <li>3. MohammedR.,—InternetMarketing,McGrawHill,NewYork,Vol.4,2001</li> <li>4. Krishnamurthy,S.&amp;Singh,N.(2005),TheInternationale-MarketingFramework(IEMF)</li> </ol>			
<b>Suggested Research Journal:</b> Vikalp – IIMAhmedabad			
<ul style="list-style-type: none"> <li>• Boudreau,M.-C.&amp;Watson,R.T.(2006),InternetAdvertisingStrategyAlignmentInternet Research,16,23-37.</li> <li>• ImportantDigitalMarketingChannelsYouShouldKnowAbout".DigitalDoughnut.Retrieved17 October2015.</li> </ul>			

**Shivaji University, Kolhapur**  
**Second year undergraduate compulsory course in**  
**ENVIRONMENTAL STUDIES**  
**Syllabus**

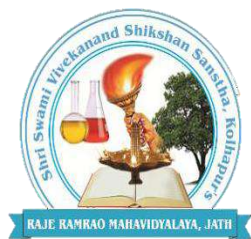
1. **Nature of Environmental Studies.** (4 lectures)  
Definition, scope and importance.  
Multidisciplinary nature of environmental studies  
Need for public awareness.
  
2. **Natural Resources and Associated Problems.** (4 lectures)
  - a) Forest resources: Use and over-exploitation, deforestation, 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: Solar energy, Biomass energy, Nuclear energy, Land as a resource, land degradation, man induced landslides, soil erosion and desertification.Role of an individuals in conservation of natural resources.
  
3. **Ecosystems** (6 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).
  
4. **Biodiversity and its conservation** (6 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-spot 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.

5. **Environmental Pollution** (6 lectures)  
Definition: Causes, effects and control measures of: Air pollution, Water pollution, soil pollution, Marine pollution, Noise pollution, Thermal pollution, Nuclear hazards.  
Solid waste Management: Causes, effects and control measures of urban and industrial wastes. Role of a individual in prevention of pollution.
6. **Social Issues and the Environment** (8 lectures)  
Disaster management: floods, earthquake, cyclone, tsunami and landslides.  
Urban problems related to energy  
Water conservation, rain water harvesting, watershed management  
Resettlement and rehabilitation of people; its problems and concerns.  
Environmental ethics: Issue and possible solutions.  
Global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust.  
Wasteland reclamation.  
Consumerism and waste products.
7. **Environmental Protection** (8 lectures)  
From Unsustainable to Sustainable development.  
Environmental Protection Act.  
Air (Prevention and Control of Pollution) Act.  
Water (Prevention and control of Pollution) Act.  
Wildlife Protection Act.  
Forest Conservation Act.  
Population Growth and Human Health, Human Rights.
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.

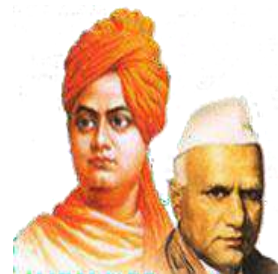
#### References :

- 1) Agarwal, K.C.2001, Environmental Biology, Nidi Pub. 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, Environmental Encyclopedia, Jaico Pub. Mumbai, 1196p
- 6) De A.K., Environmental Chemistry, Wiley Wastern Ltd.
- 7) Down to Earth , Centre for Science and Environment , New Delhi.(R)
- 8) Gleick, H.,1993, Water in crisis, Pacific Institute for studies in Dev., Environment & Security. Stockholm Env. Institute. Oxford Univ. Press 473p



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**Raje Ramrao Mahavidyalaya, Jath**



Dist: Sangli – 416404, Maharashtra, India (Affiliated to Shivaji  
University, Kolhapur)

**“CERTIFICATE COURSE IN  
HUMAN RIGHTS”**

**By**

**Coordinator**

**Mr. Navnath Govind Lawte**

**Mr. Dadasaheb Bhimrao Randive**

**Raje Ramrao Mahavidyalaya, Jath.**

**Academic Year**

**(2022 – 2023)**

# Course Syllabus

- 1. Program of Study:-** All College Students
- 2. Faculty/Institute/College:-** Raje Ramrao Mahavidyala, Jath.
- 3. Course Title:-** Certificate Course in Human Rights
- 4. Type of Course:-** General Education
- 5. Duration :-** 3 Months

## **6. Course Objectives:**

1. To spread the information about Human Rights and Duties.
2. To acquaint the student with organization structure on human rights.
3. To create interest on Human Rights education.
4. To create awareness about moral, ethical, social and democratic values.
5. To make the students aware of their Rights given to them in our Indian Constitution.

## **7. Course Outcomes:**

1. The Students will be able to take active part in Social, Political and Economic activities with responsibility.
2. This will be an additional advantage to teachers, lawyers, social workers, doctors etc.
3. This will add to the academic qualification.
4. It will encourage the students to further study in Human Rights.
5. The Students will gain thorough knowledge in the field of Human
6. Rights and they aware of Human Values in society.
7. Our society will be rich in Human Rights Education.



## 8. Evaluation:-

All Students performance will be evaluated through

a. Attendance	10 Marks
b. Assignments	20 Marks
c. Class Test	20 Marks
d. Written test	50 Marks
<hr/>	
	100 Marks

## 9. Syllabus of the Course:

### Module I

- Introduction to Human Rights, History and Evolution of Human Rights,
- Ideologies Associated with Human Rights Instruments
- Covenants associated with Universal Human Rights
- Mitigation techniques for human rights violation.

### Module II

- Conflict zones and violation of Human rights across the world
- State of Human Rights in India
- Child and Human Rights, Women and Human Rights
- Religion and Human Rights

### Module III

- Population and Human Rights.
- Human Rights Activision and role of Autonomous Human Rights Organizations
- International Human Rights Provisions
- Indian Constitution and Human Rights

### Module IV

- Introduction to National & State Human Rights Commission
- Human Rights and Police-Torture, Custodial Violence and Disappearances Draconian Laws
- Pre-Trial Detention, Under Trials and Prisoners
- Human Tights during Emergency

## **TITLE: Certificate Course in Indian Constitution**

### **CONDUCTING DEPARTMENT: Political Science**

To be implemented from the academic year 2022-2023 onward

#### **PREAMBLE:**

This course offers an introduction to the Constitution and landmark Supreme Court cases interpreting it. It explores the Constitution's origins, its amendment over the years, and methods of constitutional interpretation. Topics include the nature and structure of the federal government, the powers of the federal government, and individual rights.

#### **About the Course**

The chief architect of the Indian Constitution, Dr. B.R. Ambedkar regarded Constitutional morality as not a natural sentiment, rather one to be cultivated among the citizens. As elucidated in the Fundamental Duties of the Indian Constitution it is the duty of the citizens to oblige with the Constitution of India. Therefore, until one gains a basic understanding of how to safeguard one's life and livelihood through legal methods and guaranteed rights, the dream of a developed and progressive society shall remain an ideal-to-be-achieved. Legal Literacy is essential for the survival of our Constitutional Democracy. Legal literacy aims at bringing awareness to the masses regarding the laws of the land and the respective rights they entail.

## Course layout

### Unit.I            Week 1 :            6 Hours

#### **Constitutions and Democrac**

- Do democratic societies need a constitution?
- How is a constitution different from ordinary law?
- Is a constitution a political or a legal instrument?
- Does the Constitution

### Unit II            Week 2:            6 Hours

#### **Making a Constitution Democratic**

- How should a society make a constitution?
- How did India make its 1950 Constitution?
- Can Parliament amend the constitution?
- Can the Parliament replace the constitution?

### Unit III            Week 3            6 Hours

#### **Preamble to the Constitution**

- Does a Preamble have legl effect or is it symbolic?
- How was India's Preamble drafted?
- Does the Preamble help us interpret the constitution?

### Unit IV            Week 4:            6 Hours

#### **Citizens**

- Who is an Indian Citizen?
- Can Parliament decide Indian Citizenship without the Constitution?
- Are all constitutional protections confined to Indian Citizens?

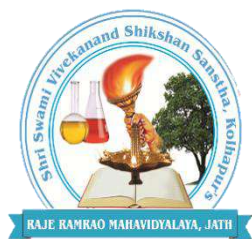
### Unit V            Week 5:            4 Hours

#### **Fundamental Rights**

- What Fundamental Rights do we have and are they absolute?
- Who can we exercise these FRs against?
- Who will protect these rights when they are violated?

### REFERENCE BOOKS:-

1. V.N Shukla's Indian Constitutional Law, M.P Singh 13th Edition
2. Uday Raj Rai, Constitutional Law-I
3. Democracy and Constitutionalism in India, Oxford University Press 2009



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Dist: Sangli – 416404, Maharashtra, India (Affiliated to Shivaji  
University, Kolhapur)

## Course syllabus

Of

**“Certificate Course in Women's Self-Defence”**

By

**WOMEN EMPOWERMENT CELL**

***Raje Ramrao Mahavidyalaya, Jath.***

**Academic Year**

**(2022 – 2023)**

# Course syllabus

- |                                  |  |
|----------------------------------|--|
| <b>1. Program of Study</b>       | All college Students                       |
| <b>Faculty/Institute/College</b> | Raje Ramrao Mahavidyala, Jath.             |
| <b>2. Course Title</b>           | Certificate Course in Women's Self-Defence |
| <b>3. Number of Credits</b>      | 1 (0-1-1) ( Lecture/Lab/Self-Study)        |
| <b>4. Type of Course</b>         | General Education                          |

## **5. Course Description:**

The women's self-defense is offline certificate course, aims to introduce women to array of subjects that concern their personal safety, from sexual assaults to potentially abusive partners(both emotionally and physically) each topic looks at a separate issue of self-protection and personal safety. At the end of the program girls students should be empowered to predict, Identify and avoid violent situations and the individuals who designs and orchestrate them. This Self- defence course, providing students with self-confidence and skills in assault situations; practical exercises focus on skills needed in different conditions.

## **6. Course Objective (s):**

1. To educate the girl students about the different types of violence against them.
2. To provide knowledge about the different tips of self-protection to keep in mind in different situations.
3. To show case and give demo on different self-defense techniques.
4. To educate girl how to take control for yourself and other women.
5. Teach girl student to use their own strengths and confidence by learning different types of yoga.

## 7. Approximate Course Schedule-10 days model:

- Day 1: Introduction to fighting stances
- Day 2: Ground fighting basics / standing fighting basics
- Day 3: Street fighting for self defence
- Day 4: Lathi-kathi Training for personal safety
- Day 5: Knockout fight for self defence
- Day 6: **Basic strategies to defend yourself**
- Day 7: Ground fighting test preparation / blocking test preparation
- Day 8: Skills test
- Day 9: Mental self-defence through Yoga
- Day 10: Self-defence mind-set techniques.

## 8. Course Outline

Day	Topic	Hour		
		Lecture	Lab	Self-Study
1	Introduction to Self Defense	0	1	1
2	Basic skills: Footwork + High kick Arm Grab Defense	0	1	1
3	Basic skills(Previous class):Front/Back kick	0	1	1
4	Lathi-kathi Training	0	1	1
5	Tackle Techniques Body throw + Defense	0	1	1
6	<b>Basic strategies to defend yourself</b>	0	1	1
7	Review Basic skills and techniques	0	1	1
8	Punching techniques	0	1	1
9	Meditation	0	1	1
10	Learning Human weak points	0	1	1
	Total	0	10	10



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**Dist- Sangli (Maharashtra) 416 404**

UGC Recognition under 2F & 12 (B) UGC Act 1956

(Affiliated to Shivaji University, Kolhapur)

NAAC Reaccredited : “B” (Third Cycle)

Office : (0234) 246251, Email : rajeramrao@gmail.com, Website : www.rrcollege.org

P. G. DEPARTMENT OF CHEMISTRY

# Certificate Course

## Soil & Water Analysis

2021-22

2. From Q-2 Long answer type any four questions to be solved (40 marks)

Grades: A grade= above 75, B grade = above 60, C grade = above 50

Certification: A certificate will be issued on successful completion of the course.

## **Paper- I [Total periods: 15]**

### **Soil Analysis**

#### **Unit – I Introduction and formation of soil**

**5L**

Definition of Soil, Concept of Lithosphere, Soil as a natural body, Soil Components: Air, Water, inorganic and organic solids, Formation of Soil, Factors of Soil Formation: Parent Material, Organic, Climatic, And Topographic.

#### **Unit – II Properties of soil**

**5L**

- A) Physical Properties:- Soil Separates, Texture, Aggregation and Structure, Temperature, Color, Properties of Soil Mixture, Pore Space, Bulk Density, Particle Density, Aeration and Drainage, Compaction, Surface area, Soil water relationships.
- B) Chemical Properties:- Morphology of Colloids, Chemistry of Clays, Ionic Exchange, Acidity, Alkalinity, pH, Salinity, Reactions in Liming and Acidification.

#### **Unit – III Classification, distribution and fertility status of soil**

**5L**

**Classification of soil, Characteristics and World Distribution of Soils, Soil Erosion: Concept, Causes and Controlling Factors. Degradation and Conservation of Soils.**

#### **REFERNCES**

1. Backman, H.O and Brady, N.C.( 1960.)The Nature and Properties of Soils, McMillan, NewYork.
2. Bennet, Hugh H.: Soil Conservation, McGraw Hill, New York .
3. Foth H.D. and Turk, L.M.(9172) Fundamentals of Soil science, John Wiley, New York.
4. Mc. Bride, M.B.(1999)Environmental Chemistry of Soils, Oxford University Press, New York.
5. GovindaRajan, S.V. and GopalaRao, H.G.(9178) Studies on Soils of India Vikas, New Delhi.
6. Raychoudhuri, S.P.(1958) Soils of India, ICAR, New Delhi.
7. Russell, Sir Edward J.:(1961) Soil Conditions and Plant Growth, Wiley, New York.



## Paper- II [Total periods: 15]

### Water Analysis

#### Unit – I

##### A) Earth's Natural Resources.

6 L

1. Hydrosphere
2. Introduction to Water cycle in Nature
3. Methods of Water sampling
4. Structure of Water molecule

##### B) Sources of Water

1. Rain, River, Ocean, Ground water
2. Origin of water
3. Forms of water – Solid, Liquid and Gas water.

#### Unit – II Types of water

4L

1. Hard and soft water
2. Fresh and Dense water
3. Ground water
4. Potable water & Portability of water
5. Saline water

#### Unit – III

##### A) Characteristics of Water

5L

1. Flowing, pouring and spilling
2. Storing and carrying
3. Evaporating and condensing
4. Boiling and freezing
5. Seeping and Rising
6. Alkalinity, Hardness, Total Solids, Transparency, Silica content.

##### B) Measurement of water quality

1. Chemical Methods
2. Physical Methods

#### REFERENCES:

1. The Chemical Analysis of Water, Hunt D.T.E., Royal Society of Chemistry, ISBN: 9780851867977
2. Water Analysis, Fresenius, Wilhelm, Quentin, Karl E., Schneider, Wilhelm, Springer, ISBN 978-3-642- 72610-1.
3. Chemistry and Water, AhujaSatinder, Elsevier Science Publishing Co Inc, ISBN: 9780128093306.
4. Standard Analytical Procedures for Water Analysis, Hydrology Project, Government of India and Netherland, 1999.
5. Drinking Water Chemistry, Hauser Barbara, Taylor & Francis Ltd, ISBN: 9781138475311.

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**Raje Ramrao Mahavidyalaya, Jath Dist. -Sangli**

**Post Graduate Department of Chemistry**

**A REPORT SUBMITTED**

**TO**

**Internal Quality Assurance Cell**

**Certificate Course in**

**Identification, Cultivation and**

**Conservation of Medicinal Plants**

**2021-22**

## **Aims:**

During the course of “Certificate Course in Identification, Cultivation and Conservation of Medicinal Plants” a candidate is trained on professional skill, professional knowledge and Employability skill related to job role. In addition to this a candidate is entrusted to undertake project work, extracurricular activities and on job training to build up confidence.

## **Introduction:**

Human being has developed intimate relationship with plant and plant products for his sustenance. Treating the ill-using natural herbal resources is one of such activities. India has a rich in herbal diversity and heritage of traditional herbal knowledge. The study and research in these areas need trained personnel, who are good at plant taxonomy, field work and the applied aspects of Botany, especially medicinal plants. There is a great demand and production of herbal Pharmaceuticals, Nutraceuticals and Cosmeceuticals in India. In that connection pharma companies are in need of trained personnel at their quality control department.

## **Objectives:-**

The main objectives of the course are to train the students to develop the following: -

- Capacity building of identification of medicinal plants from local Areas.
- To get the knowledge of medicinal uses of medicinal plants.
- To get the knowledge of collection, processing and storage of herbal raw material.
- To study the methods of cultivation
- Commitment for conservation of Medicinal Plants.

1. Duration of course: 3 months

2. Eligibility to course: 12<sup>th</sup> pass students

## **Paper- I [Total periods: 15L]**

### **Identification and Classification of medicinal plants their constituents.**

#### **Unit-1: Systematic study of medicinal plants. (4L)**

- A) General account of medicinal plants & their importance.
- B) Classification & morphological study of various medicinal plants.

#### **Unit-2: Pharma co-gnostic studies of medicinal plants. (4L)**

- A) Classification of crude drugs on the basis of their parts (stem, root, leaves, ruts)
- B) Macro & microscopically characters of crude canny fine medicinal plants locally available.
- C) Powder analysis & adulteration of any composite herbal drug.

#### **Unit-3: Medicinal Plants and Their Importance. (4L)**

Introduction, Scientific interest in herbal medicines with brief historical account of Traditional System of Medicine- Ayurveda, Siddha, Unani and, Homeopathy. Concept of herbalism and its Significance; phyto-medicines and herbal raw materials. Local health traditions, ethnomedicines. Methods of collection and Preservation of Medicinal plants in different seasons and Formulations: infusion, decoction, dosage, juices, powders, ointments etc.

#### **Unit-4: Adulterations of plants. (3L)**

Adulterations of plants and plant parts used in the formulation of Ayurvedic medicine and Methods of identification of adulterations.

## **Paper- II [Total periods: 15L]**

### **Conservation & Cultivation of medicinal plants.**

#### **Unit-1: Conservation of medicinal plants. (4L)**

- A) Methods of conservation (Ex-situ & In-situ)
- B) Conservation methods in medicinal plant conservation.
  - 1) Nursery techniques (Use of fertilizers water & disease management)
  - 2) Seed bank

#### **Unit-2: Advanced methods for medicinal plant conservation. (4L)**

- A) Tissue culture techniques
- B) Hardening & Greenhouse technology

#### **Unit-3: In situ and ex situ conservation of medicinal plants: (4L)**

- A) **In situ conservation:** Micro-propagation, factor affecting tissue culture, Tissue culture room, hardening, hardening of plants in nurseries, approaches in micro propagation.
- B) **Ex situ Conservation:** Plant Nursery, Methods propagation: sexual method- seed formation, production, seed dormancy, quality analysis treatment and asexual methods- Cutting, Budding, Grafting and Layering. and vegetative propagation. Seed Bank, Seed germination and dormancy.

#### **Unit-4: Cultivation of medicinal plants. (3L)**

Origin and distribution, important cultivars, propagation; Cultivation requirements including climate and soil, manuring, irrigation, weed management, plant growth regulators, integrated nutrient management, disease and pest control, maturity, harvesting, yield, processing, drying, storage.