

### 1.3.1

#### Gender Issues:

Class	Subject	Topic
B sc -I	Zoology	Paper-V : Human Genetics, Sex Determination, Blood Group.
B.A.-I	History	Paper-I: Role of Rajmata Jijabai in Rise of Maratha Power. Paper-II: 1. Participation of Annie Bezent in homrule movement. 2. Participation of women in Indian freedom movement. 3. Status of women in 19 <sup>th</sup> Century. 4. Work of mahatma Phule for empowerment of women. 5. Work of maharshidhondo Keshav karve.
B.A.-I	Economics	Paper-II: 1. Women empowerment, sex ratio. 2. Human Resource Development.
B.A.-I	Marathi	SL: Comparison of Man And Women- Tarabai Shinde. Paper II: Mulagi Zali Ho – Jyoti Mhapsekar
B.A.-I	Hindi	पेपर १.:स्त्री और पुरुष, हार की जीत,अमिता- स्त्रीवाद पर भाष्य. पेपर २.:गोदान- स्त्री पुरुष समानता, वर्ग व वर्णभेद प्रतिनिधि महिला एकांकी.
B.C.S.	Computer Science	Introduction to networking, network topology, LAN, WAN, MAN, Introduction to Internet, Requirement for Internet.
B SC II	Zoology	Paper- XI: 1. Human Genetic chromosomal Disorders. 2. Reproductive, Sex Harmons, Menstrual cycles, Harmonal Control of pregnancy.
B A II	Marathi(SL)	अरुंद दारातून बाहेर पडताना.
B.A.-III	History	Paper-Xi: 1. Women: Status, Property Rights, Reforms, Legislation and Political Participation. 2. Women in Indian History. 3. Women and Social History of India. 4. Reform movement: Emanicipation of women.
B SC III	Botany	Paper- XXI: Sex Determination.

## Human Values

Class	Subject	Topic
B A I	Hindi	पेपर १.: अ. आपका बंटी आ. काग भगोडा पेपर २.:गोदान- देहाती जीवन, शोषण,समानता, असमानता.
B A I	Political science	1. Liberty, equality, justice, democracy, social reform and justice.
B A I	History	<b>Paper I and II:</b> 1. Role of Shahaji, Jijabai and early activities of Shivaji. 2. Work of brahmosamaj, Arya Samaj. 3. Work of Sattyashodhaksamaj, gandhiyan principles. 4. Thoughts of mahatma phule and social reforms.
B A I	Marathi	पेपर १ (द्वितीय भाषा):. अ. ससिक रक्षण आ. राजाची कर्तव्ये इ. तुम्ही सदाचाराने वागा. ई. भासा वाचोनीमराठीया उ. धुळी आतील रत्न ऊ. शेवटचे कीर्तन ए. देशाचे भवितव्य ऐ. लोकभाषा हीच ज्ञानभाषा ओ. ठिणगी औ. कुळबिन पेपर २.: (ऐच्छिक भाषा): अ. भोमक्या आ. आपण माणसात जमा नाही.
B A II	Marathi	पेपर २ (द्वितीय भाषा): अ. छत्रपती शिवाजी महाराजांच्या कार्याचे स्वरूप. आ. लोकसंस्कृती आणि जागतिकीकरण इ. बिरसा
B A II	History	<b>Paper II:</b> Work of Chhatrapati Shahu Maharaj. <b>Paper V &amp; VII:</b> Jainism:Life and Work of Bhagvan Mahavir. <b>Buddhism:</b> Life and work of Gautam Buddha. <b>Paper VIII:</b> Work of Akbar:Din-e-Ilahi Religion
B SC II	Botany	<b>Paper XIII:</b> Medicinal, legume, Ornamental Plants and their importance in human welfare
B A III	History	<b>Paper XIV:</b> French revolution, Internal Policy of bismark. <b>Paper IX:</b> Socialism, Nationalism, Civil Rights Movements.
B A III	Hindi	पेपर X: हिंदी साहित्य का इतिहास. कबीर, तुलसीदास,सूरदास.
B SC III	Zoology	<b>Paper XVIII:</b> Visit to Dairy Industry, Fishing Centre.

M.A.-I	Political Science	Nature and significance of political theory.
M.A.-II	Political Science	1. Feminism, multiculturalism, Right to Equality. 2. Human Rights, Feminist Movement.

## Environment and Sustainability

Class	Subject	Topic
B SC I	Botany	Paper I: Role of algae, fungi, bryophyte, pteridophyte.
	Economics	Paper II (102): Population, Poverty and environment.
B A I	Chemistry	Paper III: Nuclear Chemistry, Hazard assessment Paper IV: Catalysis, Solutions, Thermodynamics, Electromotive force
B SC I	Hindi	पेपर २.: गोदान- पर्यावरण की चर्चा.
B A I		
B Sc-II	Chemistry	Paper VII: Alcohols and Phenols, Acids and Bases Thermodynamics and distribution law Paper VIII: Thermodynamics.
B Sc-II	Zoology	Paper VII: Study of animal Biodiversity, Migration in birds, Poisonous snakes and Non Poisonous snakes
B A II	History	Paper V: Indus valley civilization. Paper VIII: Work of Jahangir and Shahajan.
B A II	Economics	Paper 102: Sustainable Development.
B SC III	Zoology	Paper XVII: 1.Ecology, Scope of Ecology, Biotic and antibiotic factors. 2.Environmental Biology: Fresh Water, Marine water and Terrestrial eco systems.
B SC III	Chemistry	Paper XIII: Photochemistry.



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## Professional Ethics

Class	Subject	Topic
B A I	History	<b>Paper I:</b> Shivaji Administrative system and policies- Civil, Military, Judicial, Religious.
B A I	Chemistry	<b>Paper III &amp; VI:</b> Qualitative and Quantitative analysis, Preparations and Estimations.
B A I	Hindi	<b>Paper II:</b> Prayojanmulakhindi, Translation, Letter Writing, Advertisement,
B SC II	Botany	<b>Paper XIII:</b> Ornamental, Medicinal Plants, Food, Fodder Plants.
B SC II	Chemistry	<b>Paper IX:</b> Volumetric Analysis, Gravimetric Analysis, Preparations and Estimations, Qualitative and Quantitative Analysis.
B A II	Hindi	<b>पेपर III &amp; VI: सम्प्रेषणमूलक हिंदी</b> <b>पेपर VI &amp; VIII: प्रयोजनमूलक हिंदी.</b>
B.A. III	Economics	<b>Paper 115:</b> Trusteeship concept by mahatma Gandhi.
B A III	Hindi	<b>पेपर X &amp; XVI: रौतिकल</b>
B SC III	Zoology	<b>Paper XVIII &amp; XXII:</b> Economic Zoology, Fishery Science, Biostatistics, Bio-informatics and medical zoology.
B SC III	Chemistry	<b>Paper XIII:</b> Nano Materials, Organic synthesis, Spectroscopic and ethical handling of chemicals. <b>Paper XVI:</b> Inorganic Materials, Colloids. <b>Paper XVII:</b> Corrosion and passivity, heterocyclic compounds, Carbohydrates, Vitamins and synthetic dyes, Agrochemicals, Soaps and detergents, Synthetic polymers, Sugar, synthetic reagents, Chromatography, preparation and estimations, qualitative and quantitative analysis.



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**B. Sc. Second Semester**

Course Code – ZOL- 202

Zoology Paper: V

**GENETICS – I**

1.	Elements of heredity & variation Definition of genetics and variation Mendel's laws of heredity in short	04
2.	Gene interaction Definition- modifications in Mendelian phenotypic ratio like, Epitasis Supplementary gene Complementary gene	05
3.	Multiple Alleles Coat Colour in rabbit. ABO Blood group in man, Rh factor	05
4.	Cytoplasmic inheritance. Definition of maternal effect. Coiling shell in snail ( <i>Limnea peregra</i> ) Male sterility. CO <sub>2</sub> sensitivity in <i>Drosophila</i> . Kappa particles in <i>Paramecia</i> .	08
5.	Sex Determination Chromosome theory in sex determination Genic balance theory of sex determination Triploid intersexes and Gynandromorphs in <i>Drosophila</i> . Sex linked inheritance: X linked and Y linked	08
6.	Mutation Brief introduction Gene mutation: - Definition and classification Chromosomal aberration (structural & numerical) Spontaneous & induced mutation	15

Total Periods 45



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B. A. Ist Year – History

SYLLABUS

SEMESTER Ist

PAPER NO. 01 :- SHIVAJI AND HIS TIMES

(A.D. 1630-A.D.1707)

Periods


1. Rise of Maratha Power – Causes, Geography, Political, Socio-religious and economic background, Shahaji Bhosle. 10
2. Early expeditions of Shivaji : Concept of Hindavi Swaraj, Capture of Torana, Afjalkhan Episod, Siddi Johar's invasion Of Panhala Fort. 12
3. Shivaji – Mughal relations: Attack on Shahistakhan, Invasion of Mirja Raja Jaisinh and the Treaty of Purander, Shiviji's visit to Agra and back to Raigadh. 12
4. Coronation of Shivaji and his Karnataka Expeditions 08
5. Chatrapati Sambhaji. 05
6. Maratha War of Independence. 05
7. Civil, Judicial and Military Administration during this period 08

Total Periods 60

Note:-

60 periods = 04 Credits.



  
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PAPER NO. 02:- History of Modern Maharashtra  
(A.D.1818 – A.D.1905) Periods

1. Early Socio-religious and economic conditions Of Maharashtra.	12
2. Early phase of British Rule: Administration, Education Press, Activities of Christian Missionaries.	12
3. Early Socio-religious Reformers: Balshastri Jambhekar Gopal Hari Deshmukh (Lokhidwadi), Mahatma Jyotiba Phule, M.G. Ranade, Gopal Gensh Agarkar, Pandita Ramabai.	12
4. Early resistance to colonial rule: i) Romoshi, Bhill and Koli Uprising. ii) Outbreak of 1857 and Maharashtra. iii) Revolt of Vasudev Balwant Phadke.	12
5. National Movement in Maharashtra: i) The Bombay Association. ii) Poona Sarvajanik Sabha. iii) Indian National Congress- Maharashtrian Leaders.	12
Total Periods: 60	

Note:- 60 Periods = 04 Credits.



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डॉ. बाबासाहेब आंबेडकर मराठवाडा विद्यापीठ, औरंगाबाद

बी. ए. / बी. कॉम. / बी. एस्सी./बी.एस.डब्ल्यू.

प्रथम वर्ष मराठी (प्रथम भाषा) अभ्यासक्रमाकरिता

शैक्षणिक वर्ष जून २०१३ -२०१४ पासून

सत्र पहिले

कोड नं. MAR००१: अभ्यास पत्रिका गद्य-पद्य व उपयोजित मराठी

भाग १ ला

तारिका २०

गद्य विभाग

अ- घटक

(१)	ससीक रक्षण	-	म्हाइंगट
(२)	अर्जदरस्त	-	संत एकनाथ
(३)	राजाची कर्तव्ये	-	रामचंद्रपंत अमात्य
(४)	जिजाऊ आगची रून जाली	-	दत्ताजी त्रिमल वाकेनवीस
(५)	तुम्ही सदाचरणाने वागा	-	ताराबाई शिंदे
(६)	परमेश्वराचे भवितव्य !	-	श्री.म.माटे

पद्य विभाग

ब - घटक

तारिका-२०

(१)	धुळी आतील रत्न	-	मुकुंदराज
(२)	कुश्चळ भूमीवरी उगवली तुळसी	-	संत नागदेव
(३)	आनंदे वोवीया	-	संत निर्मळा
(४)	भासा बांधोनि मराठिया	-	फादर स्टिफन्स
(५)	पूर्वभाग्यदिशा	-	संत जनीजनार्दन
(६)	पाडसदेवा	-	संत दासोपंत
(७)	यातिभेद कुळकर्म गुरुर्षी मूळ नाहिरे	-	सामानंद स्वामी
(८)	ऐसे केलेया गोपाळे	-	संत शेख फरगद
(९)	मन करा रे प्रसन्न	-	संत तुकाराम
(१०)	तुझ्या प्रीतीचे	-	होनाजी -वाळा
(११)	सत्याग्रही वसंत (अनु वचने )	-	जगदेवीताई दिगाडे

डॉ. बाबासाहेब आंबेडकर मराठवाडा विद्यापीठ, औरंगाबाद

शैक्षणिक वर्ष जून २०१३ - २०१४ पासून

विषय: मराठी वी.ए. प्रथम वर्ष (ऐच्छिक)

कोड नं. MAR-१०२

अभ्यासपत्रिकेचे नाव : नाट्यात्म साहित्य

(अभ्यासपत्रिका दुसरी)


सत्र पहिले

तासिका - ६०

नाट्यात्म साहित्य

१. अ) फाटलेला पतंग ब) चिंगी महिन्याची झाली नाही तोच - शंकर गोविं ; दिवाकर
२. उपरे - रा. रं. बोराडे
३. मुलगी झाली हो..... - ज्योति महापसेकर
४. यातना उत्सव - बापू घोक्षे



  
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**F.Y.B.A. Economics**  
**(Revised Syllabus)**  
**Semester – I**

**Total Marks:-50**

**INDIAN ECONOMY (COMPULSORY) - Paper-ECO-102**

**OBJECTIVES:**

The objective of the paper at the F.Y.B.A. level would be to sharpen the analytical faculty of the students, by highlighting an integrated approach to be functioning aspects of the Indian economy, keeping in view the scope for alternative approaches. Such an analysis is essential because the Indian economy is a unique amalgam of alternative competing and often conflicting theories and a proper understanding of its working of its working is imperative if the student is to comprehend the ramifications that underlie most of the observed phenomena in the Indian economic set-up. The emphasis of the paper is on overall social, political and economic environment influencing policy decisions. To develop all these themes, the courses are divided into specific modules.

**1. STRUCTURE OF THE INDIAN ECONOMY**

- 1.1 Characteristics of the Indian Economy as a less developed economy.
- 1.2 Features: Natural Resources- Land, Water and Forest Resources and Minerals, Need for sustainable development.
- 1.3 Population: - Broad features, size and growth rates sex composition. Birth rate – death rate, Density, Literacy, Sex composition. Age composition, Occupational distribution, Rural Urban Population- Life expectancy, Rural Urban Migration occupational istribution- Problems of over population, population policy.

**2. HUMAN RESOURCE DEVELOPMENT**

- 2.1 Human Development Index (HDI): Concept and Meaning, Indicators, Importance
- 2.2 Gender Related Development Index (GDI):
- 2.3 Human Poverty Index (HPI)
- 2.4 HDI - Inter country and inter- state comparison



3. **POVERTY & UNEMPLOYMENT**

- 3.1 Concept of Poverty- Measurement of Poverty – Causes of Poverty- Measures to removal of Poverty.
- 3.2 Nature & Types of Unemployment.

4. **PLANNING IN INDIA**

- 4.1 Background of Indian planning-National Planning Committee, Bombay Plan, Peoples Plan, Gandhian Plan, The Planning Commission.
- 4.2 Objectives & Strategy of Indian Planning.
- 4.3 Achievements & Failures of Five-Year Plan.
- 4.4 Current Five Year Plan - Objectives, Allocations & Targets.
- 4.5 New Economic Reforms.



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बी.ए. प्रथम वर्ष  
ऐच्छिक हिंदी : प्रथम सत्र  
प्रश्नपत्र 1: उपन्यास साहित्य

➤ उद्देश्य :

1. सामान्य आस्वादन और अभिरूचि का परिसंस्कार
2. जीवन मूल्यों के प्रति आस्था
3. उपन्यास साहित्य का अध्ययन
4. लेखन तथा भाषण कौशल का विकास

➤ अध्ययन-अध्यापन पद्धति :

1. व्याख्यान
2. दृक-श्रव्य साधनों का प्रयोग
3. कार्यशाला
4. परियोजना

➤ पाठ्यपुस्तकें :

1. अमिता : यशपाल : लोकभारती प्रकाशन, इलाहाबाद
2. आपका बंटी : मन्नू भंडारी : राधाकृष्ण प्रकाशन, दिल्ली

➤ पाठ्यांश :

1. हिंदी उपन्यास : स्वरूप एवं विकास
2. 'अमिता' उपन्यास का संवेदनागत अध्ययन
3. 'अमिता' उपन्यास का शिल्पगत अध्ययन
4. 'आपका बंटी' उपन्यास का संवेदनागत अध्ययन
5. 'आपका बंटी' उपन्यास का शिल्पगत अध्ययन

➤ संदर्भ ग्रंथ :

1. यशपाल के उपन्यास : समस्यामूलक अध्ययन : डॉ. सीलम व्यंकटेश राव : सीलम प्रकाशन, नामपल्ली हैदराबाद - 01
2. यशपाल का उपन्यास साहित्य : डॉ. सरोज नजाज, ऋषभचरण जैन

3. इतिहास और कल्पना का सुंदर समन्वय : अमिता : डॉ. बी.आर. थापसे, उभय प्रकाश, कानपुर 208021
4. मन्नू भंडारी की कथा यात्रा : संपादक - डॉ. किशोरसिंह तथा डॉ. मीरा सक्सेना : ज्ञान प्रकाशन, कानपुर
5. मन्नू भंडारी का रचना संसार : डॉ. मीना ईप्पन, जवाहर पुस्तकालय, सूर बाजार मथुरा, उत्तरप्रदेश
6. हिंदी के समकालीन उपन्यासों में राजनीतिक चेतना : डॉ. सुकुमार भंडारी, विकास प्रकाशन, कानपुर
7. हिंदी के चर्चित उपन्यासकार : डॉ. भगवतीचरण मिश्र, राजपाल अँड सन्स, कश्मीरी गेट, दिल्ली - 06

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**ऐच्छिक हिंदी : प्रथम सत्र**  
**प्रश्नपत्र 2 : नाटक साहित्य**

➤ उद्देश्य :

- हिंदी नाटक तथा रंगमंच का अध्ययन
- संवेदना का विकास
- नाट्यास्वादन तथा नाट्यालोचन क्षमता का विकास

• अध्ययन-अध्यापन पद्धति :

- व्याख्यान
- दृक-श्रव्य साधनों का प्रयोग
- नाट्य पठन और प्रस्तुति
- नाट्यालोचन का अभ्यास

• पाठ्यपुस्तकें :

- विजय पर्व : डॉ. रामकुमार वर्मा, लोकभारती प्रकाशन, इलाहाबाद
- होरी : प्रेमचंद : नाट्य रूपांतर : विष्णू प्रभाकर, राजपाल प्रकाशन, कश्मीरी गेट दिल्ली
- अलख आजादी की : सुशीलकुमार सिंह, वाणी प्रकाशन, नई दिल्ली



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**B.Sc. IV Semester**  
**Course Code - ZOL- 401**  
**PAPER: XI**

**ANIMAL PHYSIOLOGY (Special Emphasis on Mammals)**

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1. Digestion :-

Brief Introduction to digestive system.  
Buccal digestion - salivary secretion and digestion.  
Gastric digestion - gastric secretion and digestion.  
Intestinal digestion - Pancreatic secretion, bile juices and digestion in  
Small intestine, digestion and absorption in large intestine.

2. Respiration :-

Respiratory organs.  
Breathing mechanism.  
Respiratory pigments: - Properties and function of respiratory pigment  
External respiration.  
Internal respiration.  
Transport of gases.

3. Circulation :-

Working of mammalian heart.  
Blood and its composition.  
Mechanism of blood clotting.

4. Excretion :-

Structure of kidney.  
Structure of uriniferous tubules.  
Urine formation: - Ultra filtration selective re-absorption and tubular  
Counter current multiplier system.

5. Nerve Physiology :-

Structure of nerve cells and neuron.  
Neurotransmitters.  
Synapses: - Ultra structure and function.

6. Muscles Physiology :-

Ultra structure of smooth muscle, striated muscles, and cardiac muscle  
Muscle contraction.  
Simple twitch and fatigue

7. Reproduction :-

Structure of gonads, Gametogenesis.  
Role of sex hormones in Reproduction.  
Reproductive cycles – oestrous and menstrual cycle

Total Periods



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डॉ. बाबासाहेब आंबेडकर मराठवाडा विद्यापीठ, औरंगाबाद

बी.ए./बी.एससी./बी.एस.डब्ल्यू

द्वितीय वर्ष प्रथम भाषा अभ्यासक्रमाकरिता

संपादक

मराठी अभ्यास मंडळ

डॉ. बाबासाहेब आंबेडकर मराठवाडा विद्यापीठ, औरंगाबाद

शैक्षणिक वर्ष जून २०१४ पारसून लागू

सत्र पहिले

कोड नं. MAR - ०३

गुण : ५०

अभ्यासपत्रिका ३ री गद्य - पद्य उपयोजित मराठी

घटक क्र. १

गद्य विभाग

तासिका - २०

पाठाचे नाव

लेखक

- |  |                       |
|--|-----------------------|
| १) छत्रपती शिवाजी महाराजांच्या कार्याचे स्वरूप | प्र.न. देशपांडे       |
| २) लोकसंस्कृती आणि जागतिकीकरण                  | डॉ.व.ता. भोराले       |
| ३) मरणानं डाव साधला, नशिबानं हात दिला !        | सौ. सिंधूताई सपकाळ    |
| ४) लोकराजे मा.खा. पवार साहेब                   | प्रा. लक्ष्मण ढोवळे   |
| ५) वही   | सुरेश पाटील (इर्लेकर) |

घटक क्र. २

पद्य विभाग

तासिका - २०

कविता

कवी

- |                               |                  |
|-------------------------------|------------------|
| १) निष्कर्ष                   | सुहासिनी इर्लेकर |
| २) आकाशाएवढा                  | सदानंद सिनगारे   |
| ३) साऱ्या घरालाच लागली वाळवी  | प्रदीप पाटील     |
| ४) कुणबी माझा !               | अनिल गव्हाणे     |
| ५) वीरसा                      | बाबाराव मडावी    |
| ६) अरुंद दारातून याहेर पडताना | संजीवनी तडेगावकर |



*Buller*  
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Karmaveer Mamasaheb Jagdale  
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## PAPER NO. 11 – WOMEN'S STRUGGLE IN MODERN INDIA (A.D. 1850- A.D. 1947)

## SUGGESTED READINGS:

1	Agnew Vijay	Elite Women in Indian Politics; Delhi Vikas 1979
2	Altekar A.S.	The Positions of women in Hindu Civilisation; Motilal Banarasidas, Delhi, 1978
3	Basu A. and Ray B.	Women's Struggle : A History of the all India Women Conference, 1927-1990; Delhi, Manohar 1990
4	Borhwick M.	The Changing Role of women in Bengal 1849-1905; Princeton University Press, Princeton, 1984
5	Chakravarti Uma and Kumkum Roy	Breaking out of invisibility : Rewriting the History : Changing perception of the Role of women in Politics and Society; UNESCO, Berg, 1988
6	Dehejia, Vidya	Representing the Body : Gender Issues in Indian Art. Kali for women, Delhi 1997
7	Desai Neera	Women in Modern India; Vora. Mumbai-1957
8	Everett, Jana M	Women and Social Change in India; Heritage Publisher, Delhi, 1981
9	Forbrd, Geraldine	Women in Modern India; Cambridge University Press, Cambridge, 1996.
10	Jayawardene Kumari	Feminism and Nationalism in Third World; Zed Books, London, 1986
11	Joshi V.C. (Ed.)	Rammohan Roy and the Process of Modernisation in India, Delhi- 1975
12	Krishnamurty, J. Ed.	Women in Colonial India : Essay on Survival work and the State; OUP, Delhi, 1989
13	Leslie I, Julia Ed	Eoles and Rituals for Hindu Women; Frirleigh diekinsin University Press, Rutherford, N.J. 1991
14	Liddle and Rama Joshi	Daughters of Independence : Gender, Caste and Class in India; Zed Books London, 1986
15	Mani, Lata	Contentious Tradition : The Debate on Sati in Colonial India; University of California Press, Berkeley, 1998
16	Mazumdar, Vina	Symbols of Power : Studies on the Political Status of Women in India; Allied Delhi, 1979.
17	Minault Gail	Scheduled Scholars : Women's education and Muslim Social Reform in Colonial India; OUP, Delhi, 1998
18	Hate Chandrakala	Changing Status of Women
19	Randive Vimal	Women Workers of India
20	Kaul Krishana Prasad	The Position of Women Indian Society.
21	Minault Gail	The Extended family : Women and Political Participation in India and Pakistan; South Asia Book, Columbia Mo, 1981
22	Misra Rekha	Women in Mughal India ( 1526-1748 AD ) Munshiram Manoharlal, Delhi, 1967
23	Murshid Ghulam	Reactant Debutante : Response of Bengali Women to Modernization 1849-1905 Rajshahi University.



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		Rajshahi, 1983
24	Nair Janaki	Women and Law in Colonial India: Social History, Kali for Women; Delhi 1996
25	Nanda B.R. (Ed)	Indian Women : From Purdah to Modernity; Vikas. Delhi, 1976
26	Ray, Bharati and Basu, Aparna (Ed)	From freedom to Independence women and fifty years of India's Independence: OUP Delhi, 1999
27	Sangari, Kumkum and Sudesh Vaidya	Recasting Women; Essays on Colonial History, Kali for Women: Delhi, 1990
28	Siha, Mrianlini	Colonial Masculinity: Manchester University Press, Manchester 1995
29	Taru, Susie and K. Lalita (eds)	Women Writings in Indian Vol. I 600 BC to the early Twentieth Century, Vol. II The Twentieth Century 1960-1991
30	Towards Equality:	Report of the Committee on the Status of women in India; Delhi, 1975.

मराठी चिन्ही नंकरभ वरंथ भूची

१	यशवंतराव चव्हाण महाराष्ट्र मुक्त विद्यापीठ	आधुनिक भारतातील रूजी जीवन
२	के. ना. टिळक	महाराष्ट्राची तेजस्विनी पंडिता ब्रमाबाई
३	डॉ. कमलाबाई देशपांडे	विजयांच्या कायक्याची वाटचाल
४	मालशो. आघटे	विधवा विवाह चळवळ
५	लक्ष्मीबाई टिळक	रूमृति चिन्हें
६	ब्रमाबाई बानडे	आगच्या आयुष्यातील काही आठवणी
७	डॉ. बायोजिनी आषर	रूजी शिक्षणाची वाटचाल
८	गोदावरी परळकेकर	झेव्हा माणूस जागा होतो
९	विधवंत मा. श्री.	श्री ब्रमाबाई बानडे, व्यक्ति आणि कार्य
१०	गवाणकर बोहिणी	कॅप्टन लक्ष्मी व बाणी इंग्ली रेजिमेंट
११	भगवत कमल व इतर	रूजी चळवळीची वाटचाल
१२	लिमये नीला, देशपांडे मिलिमा	राष्ट्रीय रूग्णांतज्याची चळवळ, कलित व रूजी मुक्ति



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**B.Sc. III (Practical)**  
**Semester -VI**  
**Paper XXI**  
**(Genetics and Biotechnology)**

(45 L)

1. Quiz
2. Working out laws of inheritance by using seed mixtures
3. Problems based on gene interaction
4. Problems based on sex linked inheritance



*K.M.J.M.*  
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बी.ए. प्रथम वर्ष  
ऐच्छिक हिंदी : प्रथम सत्र  
प्रश्नपत्र 1: उपन्यास साहित्य

➤ उद्देश्य :

1. सामान्य आस्वादन और अभिरूचि का परिसंस्कार
2. जीवन मूल्यों के प्रति आस्था
3. उपन्यास साहित्य का अध्ययन
4. लेखन तथा भाषण कौशल का विकास

➤ अध्ययन-अध्यापन पद्धति :

1. व्याख्यान
2. दृक-श्रव्य साधनों का प्रयोग
3. कार्यशाला
4. परियोजना

➤ पाठ्यपुस्तकें :

1. अमिता : यशपाल : लोकभारती प्रकाशन, इलाहाबाद
2. आपका बंटी : मन्नू भंडारी : राधाकृष्ण प्रकाशन, दिल्ली

➤ पाठ्यांश :

1. हिंदी उपन्यास : स्वरूप एवं विकास
2. 'अमिता' उपन्यास का संवेदनागत अध्ययन
3. 'अमिता' उपन्यास का शिल्पगत अध्ययन
4. 'आपका बंटी' उपन्यास का संवेदनागत अध्ययन
5. 'आपका बंटी' उपन्यास का शिल्पगत अध्ययन

➤ संदर्भ ग्रंथ :

1. यशपाल के उपन्यास : समस्यामूलक अध्ययन : डॉ. सीलम व्यंकटेश राव : सीलम प्रकाशन, नामपल्ली हैदराबाद - 01
2. यशपाल का उपन्यास साहित्य : डॉ. सरोज बजाज, ऋषभचरण जैन



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# B.A. First Year

SEMESTER - I

Paper Code - 101

(Effective from academic year 2013-14)

## BASIC CONCEPTS OF POLITICAL SCIENCE

Total: 50 marks  
Examination: 50 marks

### 1) State

Periods Allotted: 15

1.1 Meaning and Nature

1.2 Elements of state

1.3 Theories of origin of state: Divine theory, Social Contract theory, Evolutionary theory

### 2) Government

Periods Allotted: 15

2.1 Meaning and Definition

2.2 Organs of Government: Legislature, Executive and Judiciary

2.3 Types of Government: Unitary, Federal, Parliamentary & Presidential

### 3) Sovereignty

Periods Allotted: 15

3.1 Meaning, Definition & Types

3.2 Austin's Theory of Sovereignty

3.3 Pluralistic Theory of Sovereignty


### 4) Citizenship & Rights

Periods Allotted: 15

4.1 Citizenship: Meaning, Types and methods of acquisition

4.2 Meaning, Definition and Types of Rights and Duties



  
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PAPER NO. 02:- History of Modern Maharashtra  
(A.D.1818 – A.D.1905) Periods

1. Early Socio-religious and economic conditions  
Of Maharashtra. 12
2. Early phase of British Rule: Administration, Education,  
Press, Activities of Christian Missionaries. 12
3. Early Socio-religious Reformers: Balshastri Jambhekar  
Gopal Hari Deshmukh (Lokhidwadi), Mahatma Jyotiba  
Phule, M.G. Ranade, Gopal Gensh Agarkar, Pandita  
Ramabai. 12
4. Early resistance to colonial rule:
  - i) Romoshi, Bhill and Koli Uprising.
  - ii) Outbreak of 1857 and Maharashtra.
  - iii) Revolt of Vasudev Balwant Phadke. 12
5. National Movement in Maharashtra:
  - i) The Bombay Association.
  - ii) Poona Sarvajanik Sabha.
  - iii) Indian National Congress- Maharashtrian Leaders. 12

Total Periods: 60

Note:- 60 Periods = 04 Credits.



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डॉ. वावासाहेब आंबेडकर मराठवाडा विद्यापीठ, औरंगाबाद

बी. ए. / बी. कॉम. / बी. एस्सी./बी.एस. डब्ल्यू.

प्रथम वर्ष मराठी (प्रथम भाषा) अभ्यासक्रमाकरिता

शैक्षणिक वर्ष जून २०१३ -२०१४ पासून

सत्र दुसरे

कोड नं. MAR002: अभ्यास पत्रिका गद्य-पद्य व उपयोजित मराठी

भाग- २ रा

गद्य विभाग

अ-घटक

तासिका-२०

(१) शेवटचे कीर्तन	-	संत गाडगेबाबा
(२) देशाचे भवितव्य	-	डॉ. वावासाहेब आंबेडकर
(३) लोकभाषा हीच ज्ञानभाषा	-	यशवंतराव चव्हाण
(४) कोवळे गरण	-	भालचंद्र नेमाडे
(५) ठिणगी	-	रामराव झुंजरे
(६) भूक	-	महादेव मायके

पद्य विभाग

ब-घटक

तासिका-२०

(१) कुळविण	-	ग. जोतिबा फुले
(२) निझारास	-	बालकवी
(३) नवमहाराष्ट्र गीत	-	सुरेश भट
(४) आई	-	घेरा
(५) गिरोवा	-	वीर घवल परब
(६) मल्लीतुटालुटीचा शिंग लपालपा	-	अरुण काळे
(७) विरसा मुंडा	-	गुजंग मोक्षम
(८) गुणवत्तेचा निकष	-	संग्रामजी सावळकर
(९) ग्लोबल मेदीची नक्षी	-	अजीम नवाज राही
(१०) वाप	-	संजय आमण
(११) काय असात प्रेम	-	प्रतीक्षा मायके



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डॉ. बाबासाहेब आंबेडकर मराठवाडा विद्यापीठ, औरंगाबाद

बी.ए./बी.एससी./बी.एस.डब्ल्यू

द्वितीय वर्ष प्रथम भाषा अभ्यासक्रमाकरिता

संपादक

मराठी अभ्यास मंडळ

डॉ. बाबासाहेब आंबेडकर मराठवाडा विद्यापीठ, औरंगाबाद

शैक्षणिक वर्ष जून २०१४ पारून लागू

सत्र पहिले

कोड नं. MAR - ०३

गुण : ५०

अभ्यासपत्रिका ३ री गद्य - पद्य उपयोजित मराठी

घटक क्र. १

गद्य विभाग

तासिका - २०

पाठाचे नाव

लेखक

- |  |                       |
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| १) छत्रपती शिवाजी महाराजांच्या कार्याचे स्वरूप | प्र.न. देशपांडे       |
| २) लोकसंस्कृती आणि जागतिकीकरण                  | डॉ.द.ता. भोराले       |
| ३) मरणानं डाव साधला, नशिवानं हात दिला !        | सौ. सिंधूताई सपकाळ    |
| ४) लोकराजे मा.खा. पवार साहेब                   | प्रा. लक्ष्मण ढोबळे   |
| ५) वही   | सुरेश पाटील (इर्लेकर) |

घटक क्र. २

पद्य विभाग

तासिका - २०

कविता

कवी

- |                               |                  |
|-------------------------------|------------------|
| १) निष्कर्ष                   | सुहासिनी इर्लेकर |
| २) आकाशाएवढा                  | सदानंद सिनगारे   |
| ३) सान्या घरालाच लागली वालवी  | प्रदीप पाटील     |
| ४) कुणबी माझा !               | अनिल गव्हाणे     |
| ५) वीरसा                      | बाबाराव मडावी    |
| ६) अरुंद दारातून बाहेर पडताना | संजीवनी तडेगावकर |



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HISTORY SYLLABUS IIND

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD.

SYLLABUS OF B. A. II<sup>nd</sup> YEAR (HISTORY)

(SEMESTERWISE)

SEMESTER-III<sup>rd</sup>

PAPER NO. V – HISTORY OF EARLY INDIA (UPTO B. C. 300 )

Sr.No	Name of the Chapter	Periods Alloted
1	A) Religious and secular Literature, Foreign Accounts B) Archaeological, Numismatic Sources	10
2	A) Stone age culture B) Harappan civilization – Major sites, Town planning, Socio – Religious and Economic Life.	12
3	<b>Vedic culture</b> : Original home of Aryas Early Vedic age – Society, economy, Religion Later Vediv age – polity, society, economy and religion	12
4	A) Religious Movements – Jainism and Buddhism B)Philosophy - Upnishadas, Shaddarshan and Charwak	12
5	A) Janapadas and Mahajanapadas – Rise of Magadha B) <b>Mauryan Empire</b> – Chandragupta Mauryan, Ashoka, Mauryan Economy, Administration. Art and Architecture.	14
	Total Period	60



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*Shinde*  
**Chairman**  
**Board of Studies in History**  
**Dr. Babasaheb Ambedkar Marathwada**  
**University, Aurangabad**

HISTORY SYLLABUS IIND

SYLLABUS OF B. A. II<sup>nd</sup> YEAR ( HISTORY )

( SEMESTERWISE )

SEMESTER - IV<sup>th</sup>

PAPER NO. VII – HISTORY OF INDIA (B. C. 300 – A. D.650)

Sr.No	Name of the Chapter	Periods Alloted
1	Sources : Literary And Archaeological Sources	06
2	Brief Survey of Political Changes : Sungas and Kanvas, Allexandar's invasion. Shakas, satavahanas, western Kshtrapas. Kushan, Gupta, Wakataka dynesty, Harsha wordhan Sangam age	12
3	Socio – Economic Life : Structure of Society, Social Traditions, Education, Status of women Economic Condition and urbanization.	12
4	Religious life : Propogation of Jainism, Buddhism, Shaivism and Vaishnavism	12
5	Development of Arts and Architecture : Temple Architecture – Evolution of Major regional styles	10
6	Language and Literature – Sanskrit, Prakrit, Kannad and Sangam.	08
	Total Period	60

Total – 60



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Mahavidyalaya, Washi.



DR.BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY,AURANGABAD

Faculty Of Science

B.Sc. II year (Practical)

Semester -IV

Paper -XIII

**Gymnosperms and Utilization of plants**  
(Based on paper no - XI)

45L

**Gymnosperms:**

**a) Cycas**

- i. Habit, young leaf, bulbils, male cone, microsporophyll, megasporophyll, pollen grains, mature seed.
- ii. Study through permanent slides-Normal root (T.S.). Stem (T.S.), Ovule (L.S.).
- iii. Study through hand section-Coralloid root (T.S.), Rachis (T.S.), Leaflet (T.S.).

**b) Pinus**

- i. Habit, long and dwarf shoot, scale leaves, foliage leaves, male cone, female cone, pollen grains (W.M.), winged seed.
- ii. Study through hand sections and permanent slides Root (T.S.), Stem (T.S.), Needle (T.S.).
- iii. Study through permanent slide - T.L.S. & R.L.S. of stem, L.S. of male cone, L.S. of female cone.

**c) Gnetum**

- i) Habit, T. S. of Stem, Male cone and female cone.

**Paleobotany:**

- a) Types of fossils (Specimens).
- b) *Lygynopteris* (Specimen / Permanent slide).

**Utilization of plants :**

- a) Food plants – Study of the morphology, structure, and histochemical tests of food storing tissue in Jowar & Wheat.
- b) Histochemical test of lignin and cellulose.
- c) Cultivation of Oyster (*Pleurotus*) mushroom on agricultural waste.
- d) Vegetable oils – hand section of Groundnut & Sunflower Seed and staining of oil droplets by Sudan III.
- e) Study of the sources of Timber, Gum, Medicinal plants, Cosmetics and Perfumes.
- f) Study of Black pepper, Clove, Cinnamon, Cumin, Coriander.
- f) Field notebook, specimen collection, and tour report.



*billu*  
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## PAPER NO. 09 – HISTORIOGRAPHY

## SUGGESTED READINGS:

1	Aaron Ramond	Introduction to the Philosophy of History
2	Barnes H.F.	A History of Historical Writing : New York 1962
3	Berlin Isaiah	Historical Inevitability, London, 1954
4	Bury J. B.	A History of Freedom of Thought.
5	Burttfiled Herbert	History of Human relations: London 1951
6	Cohen M.R.	The meaning of Human History: Chieago, 1961.
7	Collingwood R.G.	The Idea of History: London 1961
8	Croce Bendetto	History its theory and practice: New York 1961
9	Geast	History as System: New York 1961
10	Geyl Pieter	Use and Abuse of History: New Haven 1955
11	Geyl Pieter	Encounters in History : London, 1963
12	Gooch G.P.	History and Historians in the Nineteenth Century; London, 1952
13	Gottchalk Louis (Ed)	Generalization in the Writing of History; Chicago, 1963
14	Joshi V.V.	The Problem of History and Historiography; Allahabad, 1946
15	Lewis H.D.	Freedom and History London, 1962
16	Mises L.V.	Theory and History; London, 1958
17	Muller H.J.	The Use of the Past: New York 1957
18	Popper K.R.	The Poverty of Historicism; London, 1957
19	Randall J.H.	Nature and Historical Experience: New York, 1962
20	Russel Bertrend	Undersanding History: New York 1957
21	Thomson J.W.	History of Historical Writing; New York, 1948
22	Toyndee A.J.	Civilization of Trial; New York 1948
23	R.C.Majumdar & A.N. Shrivastav	Historiography; Surjeet Book Depot, Delhi, 1974
24	E.H. Carr	What is History; Continental Publisher, 1954.
25	Sen S.P. (E.d)	Historians and Historiography in Modern India.
26	B. Shaikh Ali	History its theory and method; Macmillan India Ltd. Madras, 1978
27	K.N. Chitnis	Research Methodology in History; Pune 1979
28	Gardiner	Theories of History
29	Gardiner	Guide to Historical Method

## मराठी हिंदी अंदर्भ ग्रंथाची सूची :

१	डॉ. एच. काय अनुवादक प्रा. वि. गो. लेले	इतिहास म्हणजे काय कॉन्टिनेन्टल प्रकाशन, पुणे
२	वार्डन चार्ल्ड	इतिहासका इतिहास हरियाणा साहित्य अकादमी चंदिगढ, १९८८
३	डॉ. गोविंदचंद पांडे	इतिहासः स्वरूप एवं सिद्धांत राजस्थान हिंदी ग्रंथ अकादमी, जयपुर १९९८
४	डी. डी. कोशाणी	पुराणकथा व वास्तवता
५	द. वि. केतकर	इतिहासतील अस्मत्प्रवाह
६	ग. ह. ब्यारे	साधन चिकित्सा लोकवाङ्मय गृह, मुंबई १९७६
७	वि. द. घाटे	इतिहास शास्त्र आणि कला देशमुख



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HISTORY SYLLABUS FINAL

PAPER NO. 14 - LANDMARKS IN THE HISTORY OF MODERN WORLD

Sr.No.	Name of the Chapter	Period Allotted
1	Renaissance and Reformation in Chapter	10
2	American war of Independence Causes, Course and Consequences	08
3	French Revolution: Causes, Course and Consequences	08
4	Industrial Revolution: Background, Development, Significance.	10
5	European imperialism in Asia & Africa First World War : Causes and Effects	08
6	Russian Revolution of 1917 : Causes, Course and Consequences.	08
7	Second World War : Causes, Course and Consequences	08
Total periods:		60

NOTE:

1] 60 periods = 04 credits



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## बी.ए. तृतीय वर्ष

### पेपर क्र. X - आदि तथा मध्यकालिन हिंदी साहित्य का इतिहास पंचम सत्र (Semester -V)

#### उद्देश्य:

१. साहित्य आस्वादन अभिरुची का परिसंस्कार
२. जीवन मूल्यों के प्रति आस्था
३. हिंदी साहित्य की परम्परा से परिचय

#### अध्ययन-अध्ययन प्रक्रिया

१. व्याख्यान पद्धति
  २. लेखन एवं पठन कौशल वृद्धि के लिए अध्ययन
- १) हिंदी साहित्येतिहास: लेखन स्रोत एवं परम्परा
- हिंदी साहित्येतिहास लेखन के प्रमुख स्रोत
  - हिंदी साहित्येतिहास लेखन परम्परा
- २) आदिकाल
- आदिकाल की सामाजिक, सांस्कृतिक तथा राजनितिक पृष्ठभूमि
  - आदिकालीन साहित्य: वीरगाथा , जैन, सिद्ध तथा नाथ साहित्य
  - रचनाकार -अमीर खुसरो, विद्यापति, नामदेव



### ३) भक्तिकाल

- भक्तिकाल की सामाजिक, सांस्कृतिक तथा राजनितिक पृष्ठभूमि
- निर्गुण भक्ति साहित्य - संत साहित्य , सूफी साहित्य
- सगुण भक्ति साहित्य - रामभक्ति साहित्य, कृष्ण भक्ति साहित्य

रचनाकार -कबीर, जायसी, तुलसीदास, सूरदास

### ४) रीतिकाल

- रीतिकाल की सामाजिक, सांस्कृतिक तथा राजनितिक पृष्ठभूमि
- रीतिकालीन साहित्य - रीतिबद्ध, रीतिसिद्ध तथा रीतिमुक्त
- रचनाकार-केशवदास, पद्माकर, बिहारी , घनानंद, भूषण

### प्रश्नपत्र का प्रारूप एवं अंक विभाजन

	कुल अंक- ५०
१) संपूर्ण पाठ्यक्रम पर लघुत्तरी प्रश्न विकल्पसहित-	१०
२) संपूर्ण पाठ्याक्रम पर दीर्घोत्तरी प्रश्न विकल्पसहित -	१५
३) संपूर्ण पाठ्याक्रम पर दीर्घोत्तरी प्रश्न विकल्पसहित -	१५
४) संपूर्ण पाठ्यक्रम पर टिप्पणियाँ चार में से दो -	१०



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B.Sc. V Semester

Course Code - ZOL- 504  
PAPER: XVIII - A

**FISHERY SCIENCE – I (PRACTICAL)**  
**(Elective Paper)**

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- |    |   |    |
|----|---|----|
| 1. | Study of freshwater fishes.<br>Major carps<br>Other carps.<br>Cat fishes<br>Clupoides   | 03 |
| 2. | Study of brackish water fishes.<br><br><i>Hilsa hilsa, Chanos chanos (milkfish), Latis calcarifer, Tilapia</i>                                    | 02 |
| 3. | Study of marine ware fishes.<br>Oil sardine<br>Mackerel<br>Ribbon -fish<br>Bombay-duck<br>Pomfret<br>Sole<br>Polynemus                            | 03 |
| 4. | Water analysis  | 05 |
| 5. | Visit to local or any reservoir and marine fish landing centre and student should be submit a project report at the time of practical examination | 02 |

**Total practical periods: - 15**



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**DEPARTMENT OF POLITICAL SCIENCE**  
**M.A. SYLLABUS**

Course Code: PSC- 401 No.of. Credits : 04 Semester : I (M.A.Course)		
Course Title: <b>Western Political Theory</b>		
Assignments/ Sessional : 20 Marks		
Semester Exams: 80 Marks		
<b>Course Objectives:</b> The aim of this course is to introduce students, the meaning and nature of political theory, debates as well as recent theoretical trends in the discipline.		
Pre-Requisites:		
Units	Course Content	Hours
I	<b>Nature and significance of Political theory</b> - Meaning of Political Theory - Distinction between Political Theory and Political Philosophy, Political Theory and Political Ideology - Uses of Political Theory	12
II	<b>The Nature of Tradition of Classical Political Theory</b> - Normative Political Theory, - Empirical Political Theory	12
III	<b>Decline of Political Theory</b> - Influences led to Decline of Political Theory, - David Eastin;s and Alfred Cobban's arguments of Decline of Political Theory	12
IV	<b>Revival of Political Theory</b> - Traditional base in revival of Political Theory, works of Arendt, Herbert Marcuse, Leo Strauss, Oakeshot, - Recent works in revival of Political Theory- Berlin's view on liberty and John Rawls theory of justice.	12
V	<b>Short Introduction to Recent Trends in Political Theory:</b> - Social justice and Right theory, - Feminist Political Theory, - Liberalism and Communitarism, - Rational Political Theory,	12
Total Sixty Hours includes contact Hours		60

**Essential Readings:**

1. A.Heywood, *Political Theory, An Introduction*, London Macmillan, 1999
2. Robert E Guoodin and Hans – Dieter Klingemann, *A Handbook of Political Science*, Oxford, 1996 see part VI: Political Theory.
3. W.Kymlicka, *Contemporary Political Philosophy: An Introduction*, Oxford, The Clarendon Press, 1990
4. G.H. Sabine, *A History of Political Theory*, New York Henry Hord, 1937.



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DEPARTMENT OF POLITICAL SCIENCE  
M.A. SYLLABUS

Course Code: PSC- 437 No. of. Credits : 04 Semester : III (M.A.Course)		
Course Title : <b>Modern Trends in Political Theory</b>		
Assignments / Sesssional: 20 Marks		
Semester Exams: 80Marks		
<b>Course Objectives:</b> The Course provides the students with an overview of the current trends in political theory. It will help the students gain insight into the divergent trends in the modern political theory		
<b>Pre-Requisites:</b>		
Units	Course Content	Hours
I	Social Justice: Rawls and his critics	12
II	Theory of Rights: Current debates	12
III	Feminist Political Theory	12
IV	Libertarianism & Communitarianism	12
V	Theory of Welfare State and its critique	12
Total Sixty Hours include contact Hours		60

Suggested Reading

1. John, Rawls, Justice as Fairness: A Restatement, Delhi, Universal Law Publishers, 2004
2. George Sabine, A History of Political Theory, Oxford & Ibh Publishing, 1973
3. Meena, Deshpande, Contemporary Political Theory, Bangalore, Bharatiya Vidya Bhavan, 2000
4. O.P. Gauba, An Introduction to Political Theory, Macmillan 2009,
5. Andrew Heywood, Political theory: An Introduction, Pal Exclusive, 2004
6. Sushila Ramaswamy, Political Theory: Ideas and Concepts, Macmillan India, 2003
7. J.C. Johary, Contemporary Political Theory, Sterling 2007
8. Nayyar Shamsi, Modern Political Theory, Anmol, 2006
9. Paul Schumaker, The Political Theory Reader, John Wiley and Sons, 2010
10. Attracta Ingram, A Political Theory of Rights, Oxford University Press, 1995
11. S.R. Sharma & A.S. Kohli, The Welfare State, Anmol, 1997
12. Jan Narveson, The Libertarian Idea, Broadview Press, 2001
13. B.N. Ray, Liberalism and Communitarian Challenge, Kanshika Publishers, 1999
14. Sushila Singh, Feminism: Theory, Criticism & Analysis, Pencraft International, 2004
15. Bhole Bhaskar, Rajakiya Siddhanta ani Vishleshan, 2002
16. Rege M. P, Swatantrya, Samata ani Nyaya, Mumbai, 2005

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B. Sc. I Year (Theory)  
Semester - I  
Paper I  
(Diversity of Cryptogams - I)

45L

Unit - 1

1.1 Viruses:

General characters, classification based on host, economic importance,  
TMV - structure and multiplication (04)

1.2 Mycoplasma:

General characters (01)

1.3 Bacteria:

General characters, ultra structure, classification based on shape,  
reproduction, economic importance (05)

1.4 Cryptogams:

General characters, classification according to G.M. Smith up to class level (01)

1.5 Lichens:

General characters, nature of association, forms of thalli, economic  
importance, structure and reproduction in *Usnea* (04)

Unit - 2

2. Algae:

2.1 General characters, classification according to F.E. Fritsch (1935)  
up to the class level, economic importance. (02)

2.2 Systematic position, occurrence, thallus structure, reproduction:-vegetative,  
asexual and sexual, (excluding development of sex organs) and graphic life  
cycle with respect to following types:

i. Cyanophyceae - *Nostoc* (02)

ii. Chlorophyceae - *Chara* (03)

iii. Xanthophyceae - *Botrydium* (02)

iv. Phaeophyceae - *Sargassum* (03)

v. Rhodophyceae - *Batrachospermum* (03)

Unit - 3

3. Fungi:

3.1 General characters, classification according to Alexopoulos and  
Mims (1979) up to the class level, economic importance (03)

3.2 Systematic position, occurrence, structure of mycelium,  
reproduction - asexual, sexual and graphic life cycle with respect to the  
following types:

i) Oomycetes - *Albugo* (03)

ii) Zygomycetes - *Mucor* (02)

iii) Ascomycetes - *Eurotium* (02)

iv) Basidiomycetes - *Agaricus* (03)

v) Deuteromycetes - *Cercospora* (02)



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**F.Y.B.A. Economics  
(Revised Syllabus)  
Semester – I**

**Total Marks:-50**

**INDIAN ECONOMY (COMPULSORY) - Paper-ECO-102**

**OBJECTIVES:**

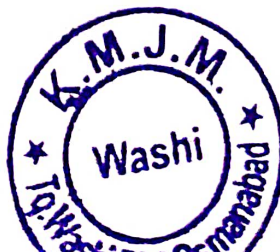
The objective of the paper at the F.Y.B.A. level would be to sharpen the analytical faculty of the students, by highlighting an integrated approach to be functioning aspects of the Indian economy, keeping in view the scope for alternative approaches. Such an analysis is essential because the Indian economy is a unique amalgam of alternative competing and often conflicting theories and a proper understanding of its working of its working is imperative if the student is to comprehend the ramifications that underlie most of the observed phenomena in the Indian economic set-up. The emphasis of the paper is on overall social, political and economic environment influencing policy decisions. To develop all these themes, the courses are divided into specific modules.


**1. STRUCTURE OF THE INDIAN ECONOMY**

- 1.1 Characteristics of the Indian Economy as a less developed economy.
- 1.2 Features: Natural Resources- Land, Water and Forest Resources and Minerals, Need for sustainable development.
- 1.3 Population: - Broad features, size and growth rates sex composition, Birth rate – death rate, Density, Literacy, Sex composition, Age composition, Occupational distribution, Rural Urban Population- Life expectancy, Rural Urban Migration occupational distribution- Problems of over population, population policy.

**2. HUMAN RESOURCE DEVELOPMENT**

- 2.1 Human Development Index (HDI): Concept and Meaning, Indicators, Importance
- 2.2 Gender Related Development Index (GDI):
- 2.3 Human Poverty Index (HPI)
- 2.4 HDI - Inter country and inter- state comparison



  
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**3. POVERTY & UNEMPLOYMENT**

- 3.1 Concept of Poverty- Measurement of Poverty – Causes of Poverty- Measures to removal of Poverty.  
3.2 Nature & Types of Unemployment.

**4. PLANNING IN INDIA**

- 4.1 Background of Indian planning-National Planning Committee, Bombay Plan, Peoples Plan, Gandhian Plan, The Planning Commission.  
4.2 Objectives & Strategy of Indian Planning.  
4.3 Achievements & Failures of Five-Year Plan.  
4.4 Current Five Year Plan - Objectives, Allocations & Targets.  
4.5 New Economic Reforms.



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## First Semester

**Paper-III      Lab Course-I      45 Hrs. 3 Hrs / Week**

**I      Volumetric Analysis :      10 Hrs.**

- Preparation of 0.1N. NaOH solution and its standardization by given oxalic acid solution.
- Preparation of 0.1 N oxalic acid solution and its standardization by given  $\text{KMNO}_4$  solution.

**II      Inorganic Qualitative Analysis :      15 Hrs.**

- Identify two acid and two basic radical from the given binary mixture.

- a]  $\text{CdSO}_4 + \text{NH}_4\text{Cl}$       b]  $\text{BaCO}_3 + \text{Al}_2(\text{NO}_3)_3$   
 c]  $\text{ZnCO}_3 + \text{KBr}$       d]  $\text{MnCO}_3 + \text{MgSO}_4$   
 e]  $\text{NiSO}_4 + \text{MgCO}_3$

**III      Physical Chemistry      20 Hrs.**

- **Eudiometer :** Determination of Equivalent weight of mg.
- **Viscometer :** To Determine Viscosity of given liquid (Water / Ethanol) by viscometer .
- **Staglanometer:** To determine surface tension of given liquid.
- **Chemical Kinetics:** \*To study the effect of acid strength on the hydrolysis of an ester.  
\*To determine the specific reaction rate of the hydrolysis methyl / ethyl acetate catalyzed by hydrogen ions at room temperature.

**Colorimeter :-** Verification of Lambert-Beer's law using Spectrophotometer. [Colorimeter].



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V **Solid State :**

7 Hrs

Types of solids, Amorphous, crystalline and difference between them, Miller Indices.


Laws of crystallography - (i) Law of constancy of interfacial angles (ii) Law of rationality of indices (iii) Law of symmetry. Symmetry elements in crystals. X-ray diffraction by crystals. Derivation of Bragg equation.

VI **Colloidal State :**

8 Hrs

- Definition of colloids, classification of colloids.
- Solids in liquids (sols) : properties - kinetic, optical and electrical; stability of colloids, protective action. Hardy - Schulze Law.
- Liquids in liquids (emulsions) : types of emulsions, preparation.
- Liquids in Solids (gels) : classification, preparation and properties, general applications of colloids.



  
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**B.Sc. (Second Year)  
(Third Semester)**

**Organic Chemistry      Paper VII      45 Hrs**

**1) Alcohols:      06 Hrs.**

Definition: *Monohydric Alcohols*: Methods of Formation by reduction of Aldehydes, Ketones, Carboxylic Acids and Esters (one e.g. each) Acidic Nature, Reactions of Alcohols.

*Dihydric Alcohols*: Method of Formation of Ethylene Glycol-industrial method and From Alkenes using  $\text{OsO}_4$ , Chemical Reactions of Ethylene Glycol-nitration, Acylation, Oxidation (Using  $\text{Pb}(\text{OAc})_4$  without Mechanism Pinacol-Pinacolone rearrangement, *Trihydric Alcohols*: Preparation of Glycerol from propane, Reactions of Glycerol.

**2) Phenols:      06 Hrs.**

Preparation of Phenol from Chlorobenzene, Cumene and Benzene Sulphonic Acid, Physical properties, Acidic Nature of Phenol, Resonance stabilization of Phenoxide Ion. Reactions of Phenols-Electrophilic Aromatics Substitution, Acylation, Carboxylation (Without Mechanism) Reactions with Mechanism-intermolecular Fries Rearrangement, Claisen Rearrangement, Gattermann Synthesis and reamer Tiemann Reaction.

**3) Aldehydes and Ketones:      10 Hrs.**

*Aldehydes*: Preparation of Aldehydes from Acid Chloride, Gattermann-Koch Synthesis *Ketones*-Preparation from Nitriles and from Carboxylic Acid, Physical Properties of Aldehydes and Ketones. Mechanism of Nucleophilic Additions to Carbonyl Group with particular emphasis on Benzoin, Aldol Knoenenagel condensations, Mannich Reactions. Use of Acetals as Protecting Group. Oxidation of Aldehydes using Chromium Trioxide, Baeyer-Villegier Oxidation of Ketones.



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**4) Carboxylic Acids:**

**09 Hrs.**

Acidity of Carboxylic Acids, Effects of substituent's of substituents on Acid strength, preparation of Acetic Acid from  $\text{CO}_2$  from Nitriles, from Acid Chloride, Anhydride, Ester and Amide. Physical Properties and reactions of Carboxylic Acids-Synthesis of Acid Chloride, Ester and Amide, Hell-Volhard-Zelinsky Reaction. Reduction using  $\text{LiAlH}_4$ , Mechanism of Decarboxylation, hydroxyl Acids-Malic, Tartaric and Citric Acid. Methods of Formation and Chemical reactions of Acrylic Acid.


**5) Organic Compounds of Nitrogen:**

**14 Hrs.**

Preparation of *Nitroalkanes*. Nitration of Benzene and Their Reduction in Acidic, Neutral and Basic Media.

*Amines*-Basicity of Amines, Amine Salt as PTC. Preparation of Alkyl and Aryl Amines (Reduction of Nitro Compounds', Nitriles) Reductive Amination, Hoffmann Bromamide Reactions. Reactions of Amines-Electrophilic Aromatic Substitution in *Aryl amines*, Reactions of Amines with Nitrous Acid.



  
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**B.Sc. (Second Year)  
(Third Semester)**

**Physical Chemistry      Paper VIII      45 Hrs (3 Hrs/week)**

**1) Thermodynamics: I      15 Hrs.**

Definition: of *Thermodynamic Terms*: System, Surrounding types of system, intensive and extensive properties. Thermodynamic Process, Concept of heat and work. Work done in reversible and irreversible process, concept of maximum work ( $W_{max}$ ), Numerical Problems.

First law of Thermodynamics: Statement, Definition of Internal energy and Enthalpy.

Heat capacity, heat capacities at constant volume pressure and their relationship. Calculation of  $W, q, du$  and  $dH$  for the expansion of ideal gases under isothermal and adiabatic conditions for reversible process, Numerical problems, Hess's law of heat Summation and its application.

**2) Thermodynamic-II:      20 Hrs.**

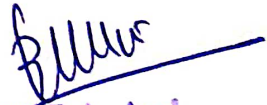
*Second Law of Thermodynamics*: Need for the law, different statement of the law Carnot Cycle and its efficiency, Numerical Problems. Carnot Theorem.

Concept of Entropy: Definition, Physical significance, Entropy as a State Function, Entropy change in Physical change, Entropy as criteria of Spontaneity & Equilibrium Entropy Change in Ideal Gases. Gibbs and Helmholtz Functions: Gibbs Function (G) and Helmholtz Function (A) as Thermodynamic Quantities. A and G as criteria for Thermodynamic Equilibrium and Spontaneity, their Advantage over Entropy change. Variation A with P, V and T.

**3) Chemical Equilibrium:      10 Hrs.**

Equilibrium Constant and Free Energy. Thermodynamic Derivation of Law of Mass Action. Le Chatelier's Principle. Reaction Isotherm and Reaction Isochore. Clapeyron Equation, Clausius-Clapeyron Equation and its Application.



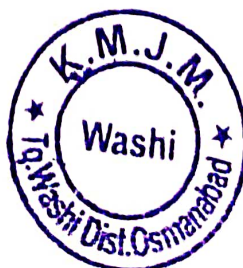
  
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**B. Sc. III Semester**  
**Course Code - ZOL- 301**  
**PAPER: VII**  
**VERTEBRATE ZOOLOGY**

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1. Agnatha:- Out line classification, general characters and affinities of Cyc
2. Pisces : - Out line classification and general characters.  
*Scoliodon*: - External characters, Digestive system, Respiratory system, Blood Vascular System and Nervous System.
3. Amphibia: - Out line classification and general characters.  
Development of frog: - Fertilization Cleavage Blastula Gastrulation and formation of germinal layers.  
Neotony in Amphibia  
Parental care in amphibia.
4. Reptilia: - Out line classification and general characters.  
*Calotes*:-External features, Respiratory system and Blood vascular system  
Poisonous and non- poisonous snakes.
5. Aves: - Out line classification and general characters.  
*Columba livia*: - External features, Respiratory system,  
Embryology of chick.-Cleavage Blastula Gastrulation and formation of germinal layers and extra embryonic membranes  
Flight adaptation in birds.  
Migration in Birds.
6. Mammalia: - Out line classification and general characters.  
*Ratus ratus*: - External features, Blood Vascular System,  
Urino-genital System and Adaptive radiation in mammals  
Placentation in Mammals.

**Total Periods**



  
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HISTORY SYLLABUS IIND

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD.

SYLLABUS OF B. A. II<sup>nd</sup> YEAR (HISTORY)

(SEMESTERWISE)

SEMESTER-III<sup>rd</sup>

PAPER NO. V – HISTORY OF EARLY INDIA (UPTO B. C. 300 )

Sr.No	Name of the Chapter	Periods Alloted
1	A) Religious and secular Literature, Foreign Accounts B) Archaeological, Numismatic Sources	10
2	A) Stone age culture B) Harappan civilization – Major sites, Town planning, Socio – Religious and Economic Life.	12
3	Vedic culture : Original home of Aryas Early Vedic age – Society, economy, Religion Later Vediv age – polity, society, economy and religion	12
4	A) Religious Movements – Jainism and Buddhism B)Philosophy - Upnishadas, Shaddarshan and Charwak	12
5	A) Janapadas and Mahajanapadas – Rise of Magadha B)Mauryan Empire – Chandragupta Mauryan, Ashoka, Mauryan Economy, Administration. Art and Architecture.	14
Total Period		60



3

*[Signature]*  
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Karmaveer Mamasahab Jagdale  
Mahavidyalaya, Washi.

*[Signature]*  
Chairman  
Board of Studies in History  
Dr. Babasaheb Ambedkar Marathwada  
University, Aurangabad

HISTORY SYLLABUS IIND

PAPER NO.- VIII - HISTORY OF MUGHAL INDIA ( A. D. 1526 – A. D. 1757 )

Sr.No	Name of the Chapter	Periods Alloted
1	Sources : Literary and Archaeological	06
2	A Brief survey of political History of Mughal period : Babar, Humayun and shershsah Sur, Akbar, Jahangir, Shahjahan and Aurangzeb, Later Mughals	10
3	Mughal Administration : A) Civil, Military and Judicial B)Ruling Classes – 1) Nobility, Zamindar, Mansabdar and Jagirdar	12
4	Economic Development : Agriculture Economy – Land Revenue. Trade and Commerce, Currency system, Urbanization.	10
5	<b>Religious and Social Life.</b> A)Religious policies of Mughal Emperor, Impact of Islam. Sufism, Sikhism, Hindu Religion Vaishnav cult. B)Society – Rural and urban ,slavery, Education and statues of Women.	12
6	A) Art and Architecture, School of paintings B)Language and Literature : Sanskrit, Persian and Regional Languages	10
	<b>Total Period</b>	<b>60</b>



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B.Sc. V Semester

Course Code - ZOL- 503  
PAPER: XVII


**ECOLOGY (PRACTICAL)**

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1. Estimation of productivity of pond ecosystem using white and dark bottle method. 02
2. Determine the following parameters of soil. 04
  - pH
  - Alkalinity
  - Chlorinity
  - Salinity
  -
3. Analysis of DO, CO<sub>2</sub>, Salinity, Chlorinity of water sample. 04
4. Study of animal association ship with example (Charts/photo) -Competition, mutualism, parasitism, predation and commensalisms. 01
5. Estimation of population density by Quadrature method on field and by Simulation method. 04
6. Preparation of permanent slides of following  
*Spirogyra, Verticella, Odogonium, Daphnia, Cyclops, Mysis, Cypris, keretella*
7. Project report: - Forest or fresh water ecosystem.

Total practical periods: - 15



  
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**B. SC. THIRD YEAR**

Paper XIII

**Physical Chemistry [ V<sup>th</sup> Semester ]**

**45 Hrs. (3 Hrs/week)**

**I Elementary Quantum Mechanics**

**10 Hrs.**

Black body radiation, Planck's radiation law, photoelectric effect, Bohr's modes of hydrogen atom (no derivation) and its defects. Compton effect. De Broglie Hypothesis, the Heisenberg's uncertainty principles, Hamiltonian operator, Schrödinger wave equation and its importance, physical interpretation of the wave function, postulates of quantum mechanics. Schrödinger wave equation for H-atom, separation into three equations (without derivation), quantum numbers and their importance.

**II Spectroscopy**

**10 Hrs.**

Introduction - Electromagnetic radiation, regions of the spectrum, basic features of different spectrometers, statement of the Born-Oppenheimer approximation. Rotational Spectrum - Diatomic molecules, energy levels of a rigid rotor (semi classical principles), selection rule, rotational spectra of rigid diatomic molecule, determination of bond length, numerical problems.

**III Photochemistry**

**08 Hrs.**

Introduction of radiation with matter, difference between thermal and photochemical processes. Laws of photochemistry, Grothus - Drapper law, Stark-Einstein law, Jablonski diagram qualitative description of fluorescence, phosphorescence, non-radiative processes (Internal conversion, Intersystem crossing), quantum yield, photosensitized reactions.

**IV Physical properties and molecular structure**

**10 Hrs.**

Optical activity and its measurement, dipole moment and its measurement by temperature change method, magnetic property and its measurement by Guoy



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# First Semester

Paper-III Lab Course-I 45 Hrs. 3 Hrs / Week

I Volumetric Analysis : 10 Hrs.

- Preparation of 0.1N. NaOH solution and its standardization by given oxalic acid solution.
- Preparation of 0.1 N oxalic acid solution and its standardization by given  $KMNO_4$  solution.

II Inorganic Qualitative Analysis : 15 Hrs.


- Identify two acid and two basic radical from the given binary mixture.
- a]  $CdSO_4 + NH_4Cl$                       b]  $BaCO_3 + Al_2(NO_3)_3$   
c]  $ZnCO_3 + KBr$                         d]  $MnCO_3 + MgSO_4$   
e]  $NiSO_4 + MgCO_3$

III Physical Chemistry 20 Hrs.

- Eudiometer : Determination of Equivalent weight of mg.
- Viscometer : To Determine Viscosity of given liquid (Water / Ethanol) by viscometer .
- Staganometer: To determine surface tension of given liquid.
- Chemical Kinetics: \*To study the effect of acid strength on the hydrolysis of an ester.  
\*To determine the specific reaction rate of the hydrolysis methyl / ethyl acetate catalyzed by hydrogen ions at room temperature.

Colorimeter :- Verification of Lambert-Beer's law using Spectrophotometer. [Colorimeter].



  
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## Second Semester

### Paper-VI

Lab Course-II

45 Hrs  
(3 Hrs. / Week)

I Organic Qualitative Analysis: 30 Hrs.

Nature / Functional group / Element / Derivative / Physical constant

- \* Benzoic acid, \* salicylic acid, \*  $\beta$ -naphthol, \* p-nitroaniline,
- \* Naphthalene, \* Acetanilide.

II Organic Estimation: 15 Hrs.

- Phenol by Bromination
- Estimation of basicity, molecular weight of organic acid (oxalic/acetic acid)



  
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बी.ए./बी.कॉम./बी.एस.सी./बी.एफ.ए.

प्रथम वर्ष : प्रथम सत्र

द्वितीय भाषा

प्रश्नपत्र 1 : सामान्य हिंदी - 1

➤ उद्देश्य :

1. संवेदना का विकास
2. भाषा कौशल का विकास

➤ अध्ययन-अध्यापन पद्धति :

1. व्याख्यान
2. दृक-श्रव्य साधनों का प्रयोग
3. स्वाध्याय/परियोजना

➤ पाठ्यक्रम :

अ) कहानी साहित्य :

पाठ्यपुस्तक :

1. कथा संसार : सम्पादक/समन्वयक : डॉ. माधव सोनटक्के हिंदी पाठ्य समिति वाणी प्रकाशन, नई दिल्ली (पाठ्यक्रम में समाविष्ट कहानियाँ : स्त्री और पुरुष, हार की जीत, दो बाँके, गौरी, एटम बम, पंचलाईट, अपरिचित)

आ) हिंदी भाषा :

1. हिंदी भाषा : उद्भव और विकास : सामान्य परिचय
2. देवनागरी लिपि : स्वरूप एवं विकास
3. हिंदी वर्तनी का मानक रूप
4. पारिभाषिक शब्दावली : स्वरूप और समस्याएँ

➤ संदर्भ ग्रंथ :

1. हिंदी कहानी का विकास : मधुरेश : सुमित प्रकाशन
2. हिंदी कहानी के सौ वर्ष : डॉ.एन.एम. सण्णी, जवाहर पुस्तकालय, आगरा
3. साठोत्तरी हिंदी लेखिकाओं की कहानियों में नारी : डॉ. मंगल कप्पीकेरे : विकास प्रकाशन, कानपुर
4. व्यावहारिक हिंदी : डॉ. माधव सोनटक्के : जयभारती प्रकाशन, इलाहाबाद
5. अच्छी हिंदी : रामचंद्र वर्मा : लोकभारती प्रकाशन, इलाहाबाद
6. व्यावहारिक हिंदी व्याकरण : हरदेव बाहरी : लोकभारती प्रकाशन, इलाहाबाद
7. हिंदी व्याकरण : व्योमेशचंद्र शुक्ल : वाणी प्रकाशन, दिल्ली



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DR.BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY,AURANGABAD

Faculty Of Science

B.Sc. II year (Practical)

Semester -IV

Paper -XIII

Gymnosperms and Utilization of plants

(Based on paper no - XI)

45L

Gymnosperms:

a) *Cycas*

- i. Habit, young leaf, bulbils, male cone, microsporophyll, megasporophyll, pollen grains, mature seed.
- ii. Study through permanent slides-Normal root (T.S.). Stem (T.S.), Ovule (L.S.).
- iii. Study through hand section-Coralloid root (T.S.), Rachis (T.S.), Leaflet (T.S.).

b) *Pinus*

- i. Habit, long and dwarf shoot, scale leaves, foliage leaves, male cone, female cone, pollen grains (W.M.), winged seed.
- ii. Study through hand sections and permanent slides Root (T.S.), Stem (T.S.), Needle (T.S.).
- iii. Study through permanent slide - T.L.S. & R.L.S. of stem, L.S. of male cone, L.S. of female cone.

c) *Gnetum*

- i) Habit, T. S. of Stem, Male cone and female cone.

**Paleobotany:**

- a) Types of fossils (Specimens).
- b) *Lygynopteris* (Specimen / Permanent slide).

**Utilization of plants :**

- a) Food plants – Study of the morphology, structure, and histochemical tests of food storing tissue in Jowar & Wheat.
- b) Histochemical test of lignin and cellulose.
- c) Cultivation of Oyster (*Pleurotus*) mushroom on agricultural waste.
- d) Vegetable oils – hand section of Groundnut & Sunflower Seed and staining of oil droplets by Sudan III.
- e) Study of the sources of Timber, Gum, Medicinal plants, Cosmetics and Perfumes.
- f) Study of Black pepper, Clove, Cinnamon, Cumin, Coriander.
- f) Field notebook, specimen collection, and tour report.



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**B.Sc. (Second Year)**

**(Third Semester)**

**Lab Course-III**

**Paper IX**

**90 Hrs (6 Hrs/week)**

**Section A (Physical Chemistry)**

**Non Instrumental (Any Five)**

i.	To determine critical solution temperature of Phenol- water system.
ii.	To determine solubility of benzoic acid at different Temperature and determine H of dissolution process.
iii.	To determine heat of neutralization ( $\Delta H_n$ ) of Na OH and HCl
iv.	To determine heat of neutralization ( $\Delta H_n$ ) of Na OH and Acetic acid.
v.	Partition coefficient of Benzene-water system using benzoic acid.
vi.	To determine the equilibrium constant for the reaction: $KI + I_2 \rightleftharpoons KI_3$ .
vii.	Determine the molecular mass of polymer from viscometry measurements.
viii.	To investigate the Kinetics of iodination of Acetone.

**Section B (Inorganic Chemistry)**

**Gravimetric Estimation: (Any Three)**

i.	Estimation of Zinc gravimetrically as Zinc ammonium phosphate ( $ZnNH_4PO_4$ )
ii.	Estimation of Mn gravimetrically as Manganese Ammonium Phosphate ( $MnNH_4PO_4$ )
iii.	Estimation of Nickel gravimetrically as Ni-DMG
iv.	Estimation of Barium gravimetrically as Ba-Chromate ( $BaCrO_4$ )
v.	Estimation of Aluminum as Aluminum Oxinate.
vi.	To determine the equilibrium constant for the reaction: $KI + I_2 \rightleftharpoons KI_3$
vii.	Determine the molecular mass of polymer from viscometry measurements.
viii.	To investigate the Kinetics of Iodination of acetone.

**Complexometric Titration: (Any Two)**

i.	Estimation of Zinc by EDTA solution using EBT indicator.
ii.	Estimation of Nickel by EDTA using Murexide indicator
iii.	Estimation of copper by EDTA using fast sulphon black F indication
iv.	Estimation of Lead By EDTA using Xylenol Orange indicator.



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वी.कॉम. द्वितीय वर्ष : द्वितीय भाषा हिंदी (SL. Hindi)  
संप्रेषणमूलक व्यावसायिक हिंदी  
तृतीय सत्र - (Semister -III)  
सत्र पद्धति २०१४ से लागू

• उद्देश्य :

- १) प्रयोजनमूलक भाषा अध्ययन
- २) वाणिज्य व्यवसाय के भाषा - कौशल्य
- ३) व्यावसायिक लेखन - कौशल्य

• अध्ययन -अध्यापन पद्धति

- १) व्याख्यान पद्धति
- २) लेखन एवं पठन कौशल वृद्धि के लिए अभ्यास
- ३) दृक-श्रव्य माध्यमों का प्रयोग

• पाठ्यपुरस्तक

- १) संप्रेषणमूलक व्यावसायिक हिंदी -१ सं. हिंदी पाठ्य समिति ओरिएंटल  
ब्लैक स्वान लॉगमन प्रा.लि., हिमायतनगर, हैद्राबाद -५००४२९

पाठ्यक्रम

१) भाषा और भाषा शिक्षण

- १) भाषा : तात्पर्य एवं स्वरूप
- २) भाषा के प्रकार्य
- ३) भाषा के विविध रूप
- ४) भाषा शिक्षण की प्रक्रिया
- ५) भाषा कौशल्य : श्रवण, वाचन, भाषण, लेखन.

२) प्रयोजनमूलक भाषा और हिंदी

- १) प्रयोजनमूलक भाषा : तात्पर्य एवं स्वरूप
- २) प्रयोजनमूलक भाषा की विशेषताएँ
- ३) प्रयोजनमूलक हिंदी के विभिन्न रूप
- ४) वैश्वीकरण के परिप्रेक्ष्य में हिंदी भाषा का महत्त्व



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3) वाणिज्य - व्यवसाय और हिंदी

- 1) वाणिज्य- व्यापार से तात्पर्य एवं स्वरूप
- 2) वाणिज्य- व्यापार के साधन
- 3) वाणिज्य- व्यापार और भाषिक प्रकार्य
- 4) वाणिज्य व्यावसायिक भाषा संरचनात्मक विशेषताएं

4) व्यावसायिक - संप्रेषण

- 1) संप्रेषण से तात्पर्य एवं स्वरूप
- 2) संप्रेषण के प्रमुख प्रकार : भाषिक तथा भाषेत्तर
- 3) व्यावसायिक पत्राचार
  - (क) व्यापारिक- व्यावहारिक सामान्यपत्र  
आवेदन पत्र, प्रत्यय या साखपत्र, संदर्भ तथा साख के जाँच पत्र, मूल्यज्ञापन पत्र, आदेशों के निरसन सम्बन्धी पत्र, शिकायत पत्र, समायोजन पत्र, तगादा या वसूली पत्र, विक्रय प्रतिनिधित्व संबंधी पत्र
  - (ख) विशेष व्यावहारिक पत्र  
-बीमा तथा धीमा पत्र  
-रेल तथा जहाज द्वारा माल परिवहन से संबंधित पत्र

5) निबंध- लेखन

- 1) निबंध : तात्पर्य एवं स्वरूप
- 2) निबंध लेखन : व्यावसायिक / आर्थिक विषय पर निबंध - लेखन

प्रश्न पत्र का प्रारूप

कुल अंक -40

प्र.1	पाठ्यक्रम पर दीर्घोत्तरी प्रश्न	15
प्र.2	पाठ्यक्रम पर दीर्घोत्तरी प्रश्न	15
प्र.3	निबंध लिखिए (व्यावसायिक / आर्थिक विषय पर निबंध)	10
प्र.4	पाठ्यक्रम पर टिप्पणियाँ	
	अ) विकल्प सहित टिप्पणी	05
	आ) विकल्प सहित टिप्पणी	05



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वी.एस.सी. द्वितीय वर्ष : द्वितीय भाषा (SL. Hindi)

प्रश्नपत्र -III सामान्य हिंदी :3

तृतीय सत्र - (Semester -III)

सत्र पद्धति २०१४ से लागू

उद्देश्य :

- १) साहित्य आस्वादन अभिरुची का परिसंस्कार
- २) जीवन मूल्यों के प्रति आस्था
- ३) अत्याधुनिक इलेक्ट्रॉनिक माध्यमों का परिचय

अध्ययन -अध्यापन प्रक्रिया

- १) व्याख्यान पद्धति
- २) लेखन एवं पठन कौशल वृद्धि लिए अभ्यास
- ३) दृक-श्रव्य माध्यम का प्रयोग

पाठ्यपुस्तक :

अ.गद्य के विविध आयाम, संपा.-प्रो.जयमोहन एम.एस., वाणी प्रकाशन, नई दिल्ली

• पाठ्यक्रम में समाविष्ट रचनाएँ

- १) आत्मवृत्त : मेरा जीवन
- २) रेखाचित्र- नीलकंठ मोर
- ३) संस्मरण -कमला
- ४) निबंध- शिरीष के फूल
- ५) यात्रावृत्त - चीड़ों पर चाँदनी

आ. प्रयोजनमूलक हिंदी

१) प्रयोजनमूलक भाषा

अ) भाषा का स्वरूप एवं महत्त्व

आ) भाषा की परिभाषा , विशेषताएँ एवं प्रकार्य

इ) वैश्वीकरण के परिप्रेक्ष्य में हिंदी भाषा का महत्त्व

२) भाषा शिक्षण : स्वरूप एवं प्रक्रिया

अ) भाषा शिक्षण की प्रक्रिया,



आ) भाषा कौशल

१. श्रवण कौशल

२. भाषण कौशल

३. वाचन कौशल

४. लेखन कौशल

३) व्यावसायिक हिन्दी

अ) वाणिज्य व्यापार : तात्पर्य एवं स्वरूप

आ) वाणिज्य व्यापार के साधन

इ) वाणिज्य व्यापार और भाषिक प्रकार्य

ई) वाणिज्य- व्यावसायिक भाषा : संरचनात्मक विशेषताएँ

उ) व्यावसायिक पत्र लेखन

४) निबंध लेखन :

अ) निबंध : तात्पर्य एवं स्वरूप

आ) निबंध लेखन : साहित्यिक / सामाजिक/ समसामायिक समस्या /

वैज्ञानिक विषय

संदर्भ ग्रंथ :

१) साहित्य विधाओं की प्रकृति: देवी शंकर अवस्थी

२) हिंदी गद्य : विन्यास और विकास : डॉ. रामस्वरूप चतुर्वेदी

३) हिंदी का गद्य पर्व : डॉ. नामवर सिंह

४) हिंदी के अध्यतन अनुप्रयोग : डॉ. माधव सोनटक्के

५) प्रयोजनमूलक तथा व्यावहारिक हिंदी : डॉ. सुकुमार भंडारे



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- Agrawal A. N. (2010) Indian Economy: Problem of Development and planning, New Age International Publishers, New Delhi.

## **ECO-115: Indian Economic Thinkers**

### **Objectives:**

This paper is essential for a student who aspires for advanced training in economics in India. The evolution of economic idea in each instance was as much a response to immediate economic problems and policy issues as much as it was a self-conscious attempt to refine earlier analysis by correcting mistakes and filling in the gaps in analysis.

### **Unit- I: Economic Thought of Koutilya:**

Economic policies, concept of welfare state, principle of taxation.

### **Unit- II: Economic Ideas of Nauroji, Ranade and Datt:**


Economic ideas of Dadabhai Nauroji – contribution to economic policies, Drain Theory, M.G. Ranade- Economic policies, political economic policies. R.C. Dutt- Economic ideas. Manvendra Roy- Economic ideas and concept of new humanism.

**Unit- II: Economic Ideas of Mahatma Gandhi:**  
Economic ideas of Mahatma Gandhi– Sarvodaya, Village Swaraj, Swadeshi. Dr. B.R.Ambedkar- State socialism, Problems of Rupee, Public finance. Mahatma Phule's views on agriculture, reasons of farmer's poverty. D.R. Gadgil- Economic planning & co-operation, Y.B. Chavan: Thoughts of agriculture, industries & socialism.

### **Unit- IV: Economic Thoughts of Amartya Sen:**

Economic welfare, Social Choice.



  
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B.Sc. V Semester


Course Code - ZOL- 504  
PAPER: XVIII - A

FISHERY SCIENCE – I (PRACTICAL)  
(Elective Paper)

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1.	Study of freshwater fishes.	03
	Major carps	
	Other carps.	
	Cat fishes	
	Clupoides	
2.	Study of brackish water fishes.	02
	<i>Hilsa hilsa, Chanos chanos (milkfish), Latis calcarifer, Tilapia</i>	
3.	Study of marine ware fishes.	03
	Oil sardine	
	Mackerel	
	Ribbon -fish	
	Bombay-duck	
	Pomfret	
	Sole	
	Polynemus	
4.	Water analysis	05
5.	Visit to local or any reservoir and marine fish landing centre and student should be submit a project report at the time of practical examination	02
Total practical periods: -		15



  
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**B.Sc. VI Semester Course**  
**Code - ZOL- 604**  
**PAPER: XXII – A**  
**FISHARY SCIENCE – II (PRACTICAL)**  
**(Elective Paper)**

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1.	Primary productivity of ponds (plankton studies).	02
2.	identification, classification and culturaable significance of following. Catla, rohu, mrigal, catfishes, exotic canoj	03
3.	Collection and identification of fish parasites and worms.	04
4.	Removal of fish pituitary gland and preparation of pituitary extract	02
5.	Identification of crafts and gears. Gill net, Rampanni, Satpalti, Machwa, Catamaran.	02
6.	A visit to fish farm and fish processing centre is compulsory.	02
<b>Total Practical Periods</b>		<b>15</b>



  
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**B. SC. THIRD YEAR**

**Paper XVI Inorganic Chemistry [ VI<sup>th</sup> Semester]**

**45 Hrs. (3 Hrs/week)**

**1. Metal-Ligand Bonding in Transition Metal Complexes 12 Hrs**

Limitations of Valence Bond Theory

An Elementary idea of Crystal Field Theory

Crystal Field Splitting in Octahedral, Tetrahedral and

Square Planar Complexes

Factors affecting Crystal Field Parameters

**2. Electronic Spectra of Transition Metal Complexes 7 Hrs**

Types of Electronic Transitions

Selection rules for d -d transitions

Spectro -chemical series

Orgel Energy level diagram for  $d^1$ ,  $d^5$  and  $d^9$

Electronic Spectrum of  $[\text{Ti}(\text{H}_2\text{O})_6]^{3+}$  complex ion.

**3. Organometallic Compounds 10 Hrs**

Definition, Nomenclature and classification of Organometallic Compounds

Preparation, Properties, Bonding and Applications of alkyls and aryls of - Li,

Al, Hg, Sn and Ti.

A Brief account of metal - ethylenic Complexes

Nature of bonding in metal carbonyls.



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#### 4. Bioinorganic Chemistry

10 Hrs

Essential and trace elements in biological processes

Metalloporphyrins with special reference to hemoglobin and myoglobin

Biological role of alkali ( $\text{Na}^+$ ,  $\text{K}^+$ ) and alkaline earth metal ions ( $\text{Mg}^{2+}$ ,  $\text{Ca}^{2+}$ ).

Nitrogen fixation

#### 5. Chromatography

06 Hrs

Definition and classification of chromatography

Paper and Thin Layer Chromatography

Method of Development (Ascending, Descending Chromatography)

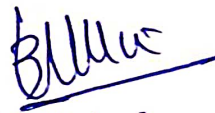
Locating Technique (UV-light / Chemicals)

R f value

Comparison between paper and TLC

Applications.



  
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## B. SC. THIRD YEAR

### Paper XVII Organic Chemistry [ VI<sup>th</sup> Semester]

45 Hrs. (3 Hrs/week)

#### 1. Heterocyclic Compounds

13 Hrs.

Introduction: Molecular orbital picture and aromatic characteristics of pyrrole, furan, thiophene and pyridine, Methods of synthesis and chemical reactions with particular emphasis on the mechanism of electrophilic substitution. Mechanism of nucleophilic substitution reactions in pyridine. Comparison of basicity of pyridine, piperidine and pyrrole. Condensed Heterocycles: Introduction, Preparation of Quinoline (Skraups Synthesis), Isoquinoline (Bischler - Napirlaski) and Indole (Fischer indole Synthesis).

#### 2. Carbohydrates

10 Hrs.

Defination, Introduction and Classification.

Monsaccharides-Interconversion of Glucose and Fructose, chain lengthening, chain shortening of aldoses. Conversion of Glucose in to mannose. Determination of openchain structure of glucose & pyranose ring structure of glucose . Mechanism of Mutarotation and Introduction to disaccharides (maltose, sucrose and lactose) and

Polysaccharides (Starch and cellulose) without involving structure determination.

#### 3. Synthetic Polymers.

07 Hrs.

Introduction, Classification based on nature of synthesis (without mechanism) with examples. (Addition and condensation polymers). Properties, uses and synthesis of polyvinyl chloride, polyvinyl acetate, polystyrene, polyacrylonitrile, Nylon 6, Nylon 66. Introduction to synthetic and natural rubber, properties, uses and synthesis of Buna N., Neoprene and silicon rubber.


**4. Synthetic Dyes and Drugs**

**15 Hrs.**

Synthetic Dyes - Definition, colour and constitution (electronic concept) of dye, classification based on chemical constitution, synthesis of methyl orange, Congo red, malachite green, crystal violet, Alizarin and indigo dyes.

Synthetic Drugs - Definition, introduction, classification of drugs. Properties of ideal drug. Synthesis of chloromycetin, paracetamol, phenacetin, sulphaguainidine.



  
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