

Bhairavnath Shikshan Mandal's  
**Bhairavnath Vidnyan Mahavidyalaya**  
Khutbav, Tal. Daund, Dist. Pune 412203

**Outcomes of Arts Faculty**

1. To Make students aware of various opportunities and skills under the art Faculty.
2. To Creating a personality capable of meeting the challenges of the modern age.
3. To Creating socially capable citizens by inculcating values in students.

**Learning outcomes of Marathi Subject**

1. Development and Promotion of Marathi language.
2. Creating literature and literary creating in Marathi language.
3. To develop Personality Through language and life.

**Outcomes of Papers under Marathi Department**

Sr.No	Class	Name Of Paper	Learning Outcome
1.	FYBA (credit Pat. 2019)	Marathi Sahitya:Kaha ani Bhasik Kaushalya Vikas(11021A)(I Term) Marathi Sahitya:Akankika ani Bhasik Kaushalya Vikas (11022A)	1.To study Marathi language and Culture. 2.To develop literary Comprehension taste and Evaluation ability. 3.To develop an understanding of skill through the study of literature.
3.	SYBA(S1) (credit Pat. 2019)	Madyugin Marathi Sahitya:Prakashvata	1.Explain the nature of Autobiography to the Students. 2.Introduction to Medieval



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			Prose-verse literature.
4.	SYBA(S2) (credit Pat. 2019)	Sahityavichar(DSE1B(3)	<ol style="list-style-type: none"> <li>1. Explain the Proseses of making literature.</li> <li>2. To understand the language and style of literature.</li> <li>3.Introduce the concept And nature of literary criticism.</li> </ol>
5.	TYBA(G3) (Pat.2013)	Adunik Marathi Ani Vyavrik v upyojit Marathi(3027)	<ol style="list-style-type: none"> <li>1. By developing students reading and writing skills.</li> <li>2.Introduction to various Literary genres in modern Marathi literature.</li> <li>3. Proper understanding of language.</li> </ol>
6.	TYBA(S3) (Pat.2013)	Sahityavichar(3028)	<ol style="list-style-type: none"> <li>1. Understanding the nature of literature.</li> <li>2. Understanding the language of literature.</li> <li>3. Explain the Process of literature creation.</li> </ol>
7.	TYBA(S4) (Pat.2013)	Bhashavidnyan(3029)	<ol style="list-style-type: none"> <li>1. Explain the nature and function of language.</li> <li>2. Explain the uniqueness and importance of language system.</li> </ol>



8.	SYBA(MIL) (credit Pat. 2019)	Modern Indian Language(MIL)	1. To develop the ability of advanced linguistic skills. 2. To create literary in secondary and social media.
9.	FYBCOM (Credit Pat. 2019)	Bhasha sahitya aani kaushalya vikas(117B)	1. The nature of language transactions in various fields. 2. To develop skills in the use of various classical Marathi language in the students.
10.	SYBsc (credit Pat. 2019)	Upyojit Marathi(AECC- 2A) Marathi sahitya (AECC- 2B)	1.To develop application skills of Marathi language. 2. Developing literary tastes. 3.Enhancing scientific comprehension.



*Bhatavdekar*

## Department of History

### Outcomes of History Subject

1. Historiographical Literacy. Students will be able to identify and describe the contours and stakes of conversations among historians within defined historiographical fields.
2. Students will be able to think critically
3. Students will be able to develop an attitude of research.
4. Students will be able to develop communication Skills.
5. National identity is formed in the students.
6. Students will be able to develop pride in national history.

### Outcomes of History Course (Papers)

Sr. No	Class	Name of Paper	Learning Outcomes
1	FYBA (G1) Subject Code 1177 2013 Pattern	Chhatrapati Shivaji and His times (1630-1707)	<p>1. Students will be able to explain the Socio- economic, cultural and Political background of 17th century Maharashtra.</p> <p>2. Students will be able to demonstrate by analyzing and evaluating historical information from multiple sources of Maratha History.</p> <p>3. Students will be able to examine the difference between fact and fiction of Maratha History</p> <p>4. Students will be able</p>



			to discuss the religious policies of Chhatrapati Shivaji Maharaj and background of healthy Nationalism in India.
2	FYBA (G1) 2019 Pattern	Early India : From Prehistory to the age of the Mouryas ( Subject Code -11171) Semester I Early India : Post Mauryan Age to the Rashtrakutas (Subject Code- 11172) Semester -II	1. Students will be able to examine institutional basis of Ancient India 2. Students will be able to indicate multiple cultures (Greek, Shaka, Hun etc) of Ancient India. 3. Students will be able to illustrate the development of empire 4. Students will be able to explain our heritage through cultural aspects of Ancient India.
3	SYBA (G2) 2013 Pattern	Modern India (1857- 1950) Subject Code- 2177	1. Students understood the Socioeconomic, cultural and Political background of Modern India 2. Students have understood process of rise of Modern India. 3. Students have understood the process of healthy Nationalism and Secularism by studying work of social reformer and freedom fighters 4. Students became familiar with makers of Modern India.
4	SYBA (S2) 2013 Pattern	Modern Maharashtra (1818-1960) Subject Code: 2178	1. Students have understood the regional history within broad national framework



			<p>2. Students have understood institutional experiments in socioreligious reformism</p> <p>3. Students have understood the contribution of Maharashtra in Indian National Movement.</p> <p>4. Students understood the importance of Samyukta Maharashtra Movement.</p>
5	SYBA (S1) 2013 Pattern	Ancient India (3000 BC to 1206 AD) Subject code : 2178	<p>1. Students will be able to examine institutional basis of Ancient India</p> <p>2. Students will be able to indicate multiple cultures (Greek, Shaka, Hun etc) of Ancient India.</p> <p>3. Students will be able to illustrate the development of empire</p> <p>4. Students will be able to explain our heritage through cultural aspects of Ancient India.</p>
6	TYBA (G-3) 2013 Pattern	History of the world in 20th century (1914 to 1992) Subject Code: 3177	<p>1. Students have understood the relation between Modernity and Nationalism and its implications</p> <p>2. Students have understood the process of colonialism in different part of world</p> <p>3. Students have understood the</p>



			problems of contemporary world in the light of its background history.
			4. Students have understood the necessity of Universal-Brotherhood
7	TYBA (S3) 2013 Pattern	Introduction to History Subject Code : 3178	<p>1. Students have understood concept of Historiography and its different perspectives</p> <p>2. Students have understood the basics of research, do's and don'ts and its methodology.</p> <p>3. Students have understood the difference between Primary Sources and Secondary sources and importance of Sources</p> <p>4. Students will understand Philosophical base of History.</p>
8	TYBA (S4) 2013 Pattern	History of Asia in 20th Century (1914-1992) Subject Code : 3179	<p>1. Students have get acquainted with Political History of Asia.</p> <p>2. Students have understood the nationalist aspirations of Asia region</p> <p>3. Students have understood process of colonialism in Asia</p> <p>4. Students have understood challenges of globalization</p>
9	SYBA CC-1(3) Semester III	History of Marathas : (1630-1707)	<p>1. Students will develop the ability to analyse sources for Maratha History.</p> <p>2. Students will learn significance of regional</p>



			history and political foundation of the region.
			3. It will enhance their perception of 17 <sup>th</sup> century Maharashtra and India in context of Maratha history. 4. Appreciate the skill of leadership and the administrative system of the Maratha.
10	SYBA DSE-1A(3) Semester III	Medieval India – Sultanate Period	1. Provides examples of sources used to study various periods of history. 2. Relates key historical developments during medieval period occurring in one place with another. 3. Analyses socio-political and economic changes during medieval period. 4. Estimate the foreign invasion and the achievement of rulers.
11	SYBA DSE-2A(3) Semester III	Glimpses of the Modern World	1. It will enable students to develop the overall understanding of the Modern World. 2. The students will get acquainted with the Renaissance, major political, socio-religious and economic developments during the Modern World. 3. It will enhance their perception of the history of the Modern World. 4. It will enable students to understand the significance of the intellectual, economic, political developments in the Modern World.
12	SYBA DSE-2A(3)	History of East Asia	1. It will enable students



	Semester III		to develop the overall understanding of the Asian countries.
			2. The students will get acquainted with the Communism in China & Imperialism of Japan. 3. It will enhance their perception of the developmental Policies of the Asian Countries. 4. It will enable students to understand the significance of China and Japan in the Modern World.
13	SYBA SEC-1A(3) Semester III	Tourism Management	1. Students will get an overall understanding of the process of Tourism Management. 2. They will learn to work in the Tourism Management with great potential. 3. They will be able to seek self – employment by starting their own tourism related business
14	SYBA CC-2C Semester IV	History of the Marathas (1707 – 1818)	1. Students will be able to analyse the Marathas policy of expansionism and its consequences 2. They will understand the role played by the Marathas in the 18 century India. 3. They will be acquainted with the art of diplomacy in the Deccan region. 4. It will help to enrich the knowledge of the administrative skills and profundity of diplomacy.
15.	SYBA (DSE-1B) Semester IV	Medieval India : Mughal Period	1. Draws comparisons between policies of different rulers. 2. Understanding Role of Akbar in the



			consolidation of Mughal rule in India.
			3. Understands Aurangzeb's conflict with Rajputas, Marathas and weakening Mughals age. 4. Analysis factors which led to the emergence of new religious ideas and movements ( bhakti and Sufi )
16	SYBA ( DSE-2B) Semester IV	Glimpses of the Modern World –Part II	1. It will enable students to develop the overall understanding of the Modern World. 2. The students will get acquainted with the major nationalist movements, the world War II and its consequences, the cold War and its consequences. 3. It will enhance their overall perception of the history of the Modern World. 4. It will enable students to understand the significance of the strategic political developments in the Modern World.
17	SYBA ( DSE-2B) Semester IV	History of West Asia	1. It will enable students to develop the overall understanding of the West Asian countries. 2. The students will get acquainted with the modernization of Turkestan, Arab Nationalism and the Arab- Israel Conflict. 3. It will enhance their perception of the development policies of the Asian countries.



			4. It will enable students to understand the significance of the West Asian countries in the Modern World.
18	SYBA ( SEC-2B) Semester IV	Travel Agency and Tour Business	1. The students will understand the details of the business of Travel Agency. 2. They will be trained on both Theory and Practical aspects and Travel Agency and creating professionals for Tourism Industry. 3. It will enable student to seek self-employment by starting their own Travel Agency related to business.

### Department of English

#### Outcomes of English Subject

1. To develop linguistic competence in English among the students.
2. To help the students understand the social behavior with the help of prescribed text- books.
3. To inculcate inter-personal skills among the students.
4. To enable the students to become independent life-long learners

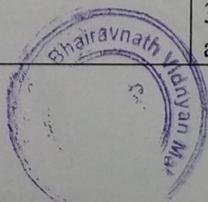
#### Learning Outcomes of papers under Department of English



Sr.No	Class	Name of Paper	Learning Outcome
1.	F.Y.B.A	Compulsory English 2019-Pattern Sub Code- 11011-12	<ol style="list-style-type: none"> <li>1. Students will be able to expose the best examples of prose and poetry in English, so that they realized the beauty and communicative power of English.</li> <li>2. Students will develop the ability to appreciate ideas and think critically.</li> <li>3. Students enhanced their employability by developing their linguistic competence and communicative skills.</li> </ol>
2.	F.Y.B.A	Optional English General Paper- 1 (G-1) 2019-Pattern Sub Code- 11331-32	<ol style="list-style-type: none"> <li>1. Students will be exposed the basic of literature and Language and develop an integrated view about language and literature in them.</li> <li>2. Students will be acquainted them with minor forms of literature in English and help them to appreciate the creative use of language in Literature.</li> <li>3. Students will be introduced them to the basics of phonology of English so that they can pronounce better and speak English correctly.</li> <li>4. Students will be prepared for detailed study and understanding of Literature and Language.</li> </ol>
3.	S.Y.B.A	Appreciating Drama Optional English Special paper- 1 (S-1) 2019-Pattern Sub- Code – (DSC-1A)	<ol style="list-style-type: none"> <li>1. Students will introduce Drama as a major form of Literature.</li> <li>2. Students introduced minor forms of Drama.</li> <li>3. Students acquainted and familiarized the elements and the types of Drama.</li> <li>4. Students developed interest among the drama independently.</li> </ol>
4.	T.Y.B.A	Appreciating Novel- Optional English Special paper- III (S-3) 2013- Pattern	<ol style="list-style-type: none"> <li>1. Students introduced the basics of novel as a literary form.</li> <li>2. They exposed the historical development and nature of novel.</li> <li>3. Students created awareness of different types and aspects of novel.</li> <li>4. To develop literary sensibility and sense of cultural diversity in students.</li> <li>5. To expose students to some of the best</li> </ol>



			5. Students exposed the some of the best Examples of novels.
5.	T.Y.B.A	Advanced Study of English Language and Literature. Optional English General Paper- III ( G-3) 2013- Pattern	<ol style="list-style-type: none"> <li>1. Students exposed some of the best samples of Indian English Poetry.</li> <li>2. Students understand creative uses of Language in Indian English poetry.</li> <li>3. Students introduced some advanced areas of Language study.</li> <li>4. Students understand how Indian English poetry expresses the ethos and culture of India.</li> </ol>
6	F.Y.B.Com	Compulsory English Subject Code-111/121 2019- Pattern	<ol style="list-style-type: none"> <li>1) To offer relevant and practically helpful pieces of prose and poetry to students so that they not only get to know the beauty and communicative power of English but also its practical application.</li> <li>2) To expose students to a variety of topics that dominate the contemporary socio-economic and cultural life.</li> <li>3) To develop oral and written communication skills of the students so that their employability enhances.</li> <li>4) To develop overall linguistic competence and communicative skills of students.</li> </ol>
7	S.Y.B.A.	Compulsory English (Core Course-CC) 2019-Pattern	<ol style="list-style-type: none"> <li>1) To expose students to the best examples of literature in English and to contribute to their emotional quotient as well as independent thinking.</li> <li>2) To instill universal human values through best pieces of literature in English.</li> <li>3) To develop effective communication skills by developing ability to use right words in the right context.</li> <li>4) To enhance employability of the students by developing their basic soft Skills.</li> <li>5) To revise and reinforce the learning of some important areas of grammar for better linguistic competence.</li> </ol>
8	S.Y.B.A.	Skill Enhancement Course Subject Code-SEC-1A 2019- Pattern	<ol style="list-style-type: none"> <li>1) To familiarize students with the various components of language.</li> <li>2) To develop overall linguistic competence of the students.</li> <li>3) To introduce students to some advanced areas of language study.</li> </ol>



			<p>4) To prepare students to go for detailed study and understanding of language.</p> <p>5) To enhance communicative skills of students by developing insight into the working of language.</p>
9	S.Y.B.A.	<p><b>Discipline Specific Course Subject Code- DSC-2A</b></p> <p><b>2019- Pattern</b></p>	<p>1. To acquaint students with the terminology in poetry criticism (i.e. the terms used in appreciation and critical analysis of poems)</p> <p>2. To encourage students to make a detailed study of a few sample masterpieces of English poetry.</p> <p>3. To enhance students awareness in the aesthetics of poetry and to empower them to read, appreciate and critically evaluate poetry independently.</p>
10	S.Y.B.A.	<p><b>Skill Enhancement Course Subject Code- SEC-2A</b></p> <p><b>2019- Pattern</b></p>	<p>1. Enhancing the skill of using English for everyday communication.</p> <p>2. To acquaint the students with the verbal and nonverbal communication.</p> <p>3. To create opportunities to access exposure of speaking in various contexts.</p> <p>4. To acquaint and familiarize the students with soft skills.</p> <p>5. To develop interest among the students to interact in English.</p>
11	T.Y.B.A.	<p><b>Compulsory English Subject Code-3017</b></p> <p><b>2013- Pattern</b></p>	<p>1. To introduce students to the best uses of language in literature.</p> <p>2. To familiarize students with the communicative power of English.</p> <p>3. To enable students to become competent users of English in real life situations.</p> <p>4. To expose students to varied. cultural experiences through literature</p> <p>5. To contribute to their overall. personality development by improving their communicative and soft skills.</p>
12	T.Y.B.A.	<p><b>Optional English Special Paper-IV Subject Code-3339</b></p> <p><b>2013- Pattern</b></p>	<p>1) To introduce students to the basics of literary criticism.</p> <p>2) To make them aware of the nature and historical development of criticism.</p> <p>3) To make them familiar with the</p>



			<p>significant critical approaches and terms.</p> <p>4) To encourage students to interpret literary works in the light of the critical approaches.</p> <p>5) To develop aptitude for critical analysis.</p>
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## Department Of Geography

### Course Outcomes

**Class: F.Y.Bsc Semester: I Paper: I**

**Course: Gg 111 Introduction to physical Geography –I (Geomorphology)**

1. To introduce the students to the basic concepts in Geomorphology.
2. To acquaint the students with the utility and applications of Geomorphology in different areas and environment.
3. To make the students aware of the need of protection and conservation of different landforms.

**Class: F.Y.Bsc Semester: I Paper: II**

**Course: Gg 112 Introduction to physical Geography –II (Geography of Atmosphere & Hydrosphere)**

1. To introduce the students to the basic principles and concepts in Climatology and Oceanography.
2. To acquaint the students with the applications of Climatology and Oceanography in different areas and environment.
3. To make the students aware of the Planet Earth and thereby to enrich the student's life.

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**Class: F.Y.Bsc Semester: I Paper: III**

**Course: Gg 113 Practical in Physical Geography**

1. To know the methods of representation of relief.
  2. To understand the concept of scale at the initial stage.
  3. To enable the students to use various projections to prepare maps.
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Class: T.Y.B.A Paper: G3

Course: Gg 310 Human Geography

1. To acquaint the students with the nature of man environment relationship and human capability to adopt and modify the environment under its varied conditions from primitive life style to the modern living.

2. To identify and understand environment and population in terms of their quality and spatial distribution pattern and to comprehend the contemporary issues facing the global community

## Department of Economics

SR.No	Class	Name Of The Paper	Learning Outcomes
1	F.Y.B.A G-1 (economics) SUB CODE (Sem -I, 11151) (Sem-II 11152 )	Indian Economic Environment-I, II	1. Ability To Compare And Contrast Indian Economy With Other World Economics 2. At The End Of The Course ,The Student Will Be Able Discuss And Debate On The Various Issues And Challenges In The Indian Economic Environment
2	S.Y.B.A G-2 (economics) Sem-III Sub code -	Financial System	1. Students Will Understand The Basics Of Indian Financial System. 2. Students Will Understand The Role Of RBI In Controlling The Financial System.
3	S.Y.B.A .S-1 (economics) Sem-III Sub code	Micro Economics	1.Study The Theories Of Welfare Economics 2.To Understand Basic Concepts Of Micro Economics .
4	S.Y.B.A. S-2 (economics) Sem-III	Macro Economics	1. To Apply Theories Of Macro Economics In Real Life . 2. To Understand What Is Money ? Its Function.
5	T.Y.B.A .S-3	International Economics	1.Evolution Of



	Sub Code- 3158		System, WTO, IMF, Etc 2. Student Get Knowledge International Trade Policy, Globalization. Capital Movements, Etc
6	T.Y.B.A-S-4 (economics) Sub Code- 3159	Public Finance	1. Knowledge Of Public Finance Theories. 2. Understand The Basic Concept Of Public Finance.
7	T.Y.B.A .G-3 (economics) Sub Code -3157	Economic Planning & Development	1. Student Will Understand Globalization In Indian Economy, Foreign Investment ,Etc 2. Student Will Understand The Development Issues Of Indian Economy.

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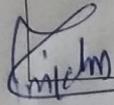
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**Outcomes of Commerce Faculty**

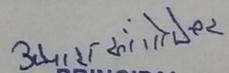
1. After completing three years for Bachelors in commerce (B.com) Program, students would gain a through grounding in the fundamentals of commerce and finance.
2. The commerce and finance focused curriculum offers a numbers of Specialization and Practical exposures which would equip the student
3. To face the modern day challenges in commerce and business.
4. The all-inclusive outlook of the course offer a number of value based and job oriented courses ensured that students are trained in to up to date. In advanced accounting courses beyond the introductory level affective development will also Progress to the valuing and organization level.

**Department of Commerce**

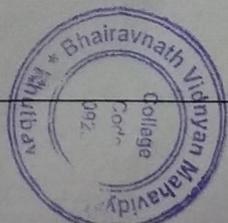
Sr.no	Class	Name of paper	Learning outcomes
1	F.Y.B.Com Code 116 E Credit pattern	Business Environment & Entrepreneurship	1) Students will be able to the business environment. 2) Students will be able to make their mind set for taking up entrepreneurship as career.
2	S.Y.B.Com Code 201	Business communication	1) Students understand the process of communication. 2) Students will be able to develop business communication skill.
3	S.Y.B.Com Code 206 H	Marketing management paper I	1) Students will be able to orient recent trends in marketing. 2) Students will be able to

  
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			use E-commerce in competitive environment.
4	T.Y.B.Com Code 302	Advanced Accounting	1) Increase knowledge of various accounting concepts by students. 2) Students will be able to explain accounting procedures methods & techniques.
5	T.Y.B.Com code 304	Auditing & Taxation	1) students will be able to preparation of Audit Report 2) students will be able to submission of Income Tax Return
6	F.Y.B.Com. 1121/3	Financial Accounting	1) On successful completion of this course the knowledge in the practical applications of accounting. 2) Learn principals and concepts of Accounting , Accounts from incomplete records, Introduction to GST
7	S.Y.B.Com. 2151/3	Elements of Company Law Paper I & II	1) On successful completion of this course the knowledge in the basic fundamentals of company Law, Provisions & procedures under company Law.
8	T.Y.B.Com. 32/ 3481	Marketing Management Paper III	1) On successful completion of this subject the knowledge in the all advertising concept & their relevance. 2) The students to get a better understanding of



			advertising & Brand marketing.
9	T.Y.B.Com. 3111/3	Business Regulatory Framework ( M. Law)	1) On successful completion of this subject the basic concept, terms & provisions of mercantile & business laws. 2) The awareness among the students regarding these laws affecting business, trade & commerce.

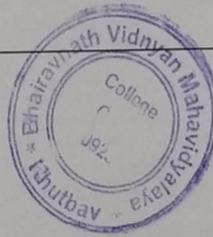
		B.COM	
1	F.Y.B.COM (economics) Sub Code (Sem-I- 113) (Sem-II -123)	BUSINESS ECONOMICS (Micro)	1. Basic Micro Economic Concept An Analytical Approach To The Subject Matter. 2. How To Analyze The Behavior Of Consumers In Terms Of The Demand Of Products.
2	F.Y.B.COM (banking) Sub Code (Sem -I - 115-B) (Sem- II-125-B)	BANKING & FINANCE (Fundamentals Of Banking)	1.To Make The Student Aware Of Banking Business And Practices. 2.To Give Through Knowledge Of Banking Operations.
3	F.Y.B.COM (Co -Operation )  Sub Code (Sem -I 115-E) (Sem- 125-E)	Co -Operation Operation & Rural Development	1.To Create Awareness Among The Students Co Operation And Rural Development. In India 2. Student Should Able To Contribute For Rural Development Program .
4	S.Y.B.COM (banking)	Financial System In India -I	1. Student Understand Role And Structure

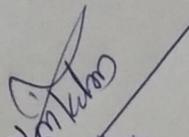


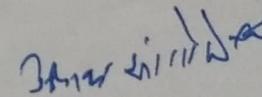
			System. 2. Various Types of Bank And Their Function.
5	S.Y.B.COM (economics) Sub code 233	Business Economics (Macro)	1. Student Understand How Monetary And Fiscal Policy Can Be Used To Achieve Business Goals.  2. Student Understand The National Income, Inflation ,investment saving Etc.
6	S.Y.B.COM (Co -Operation ) Sub code 236(D)	Co -Operation - Operation & Rural Development-I	1. .To Create Awareness Among The Students Co Operation Processing In India 2. The Student Should Provide The Knowledge Of Rural Economy.
7	T.Y.B.COM (economics) Sub code- 3133	Indian & Global Economic Development	1.Thw Present Status Of The Indian Economy .2.The Emerging Issues In Policies Of India's Foreign Trade.
8	T.Y.B.COM (banking) sub code -3421	Financial Market & Institutions In India _ II	1. Students Get Knowledge The Financial Markets In India. 2.The Function And Role Financial Market In India 3.
9	T.Y.B.COM (banking) sub code-3423	Banking Law & Practices In India -III	1. Students Understand The Banking Law And Practice In India .2. The Banking Law And Practice Relation To The Banking



			System In India
10	T.Y.B.COM (co -operation) Sub code- 3441	Co -Operation & Rural Development- II	1.The Student Aware About Cooperative Structure. 2. .To Create Awareness Among The Students Cooperative Agriculture Society .
11	T.Y.B.COM (co - operation) Sub code -3443	Co -Operation & Rural Development- III	1. Student Understanding Cooperative Marketing In India. 2.Students Should Able To Understand The Agro Based Industries And Consumer Cooperatives.



  
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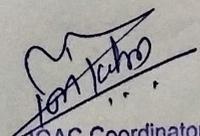
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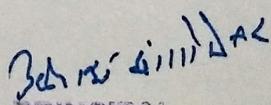
**Faculty of Science**

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**Faculty of science outcome**

1. Students will have a firm foundation in the fundamentals and application of current scientific theories including those in following subjects...  
Chemistry, Zoology, Botany, Physics, Mathematics, Geography and Environmental science .
2. Students will be able to design and carry out scientific experiments or project as well as accurately record and analyses the results of such experiments.
3. Students will be skilled in problem solving, critical thinking and analytical reasoning as applied to scientific problems.
4. Students will be able to clearly communicate the results of scientific work in oral, written and electronic formats to both scientists and the public at large.
5. Students will be able to explore new areas of research in applied fields of science and technology.
6. Students will appreciate the central role of Science in our society and use this as a basis for ethical behavior in issues facing scientist including an understanding of environmental issues and key issues facing our society in energy, health and medicine.
7. Students will be able to explain why different fields of science is an integral activity for addressing social, economic, and environmental problems.
8. Students will be able to function as a member of an interdisciplinary problem solving team.

  
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## Department of chemistry outcome

Upon completion of the B.Sc. in Chemistry ,undergraduate degree program students are able to:

1. Demonstrate an understanding of conventional facts and theories in:
  - a) Physical Chemistry
  - b) Inorganic Chemistry
  - c) Organic Chemistry
  - d) Analytical Chemistry
  - e) Industrial Chemistry and
  - f) Agriculture & Dairy Chemistry.
2. Demonstrate laboratory practical's and project to develop :
  - a) Basic laboratory skills
  - b) Common instruments in the areas of spectroscopy, electrochemistry and chromatography and
  - c) Safe chemical handling.
3. Demonstrate excellent a) oral and b) written communication skills, particularly through production of descriptive reports and oral presentations on individual chemical and physical studies or the scientific work of others.



## Zoology Department

### -: Learning Outcomes :-

Sr. No.	Class	Name Of Paper	Learning Outcomes
1	F.Y.B.Sc. Semester I	Course: ZO- 111: Animal Diversity I (CBCS-2019 Pattern)	<ol style="list-style-type: none"> <li>1. The student will be able to understand, classify and identify the diversity of invertebrates.</li> <li>2. The students will be able to understand the complexity of invertebrates</li> <li>3. The students will be understood role and functions of lower animals.</li> <li>4. The students will be able to understand the linkage among the different groups of invertebrates.</li> <li>5. The students able to understand the importance of classification of organisms based on five kingdom system.</li> </ol>
		Course: ZO- 112: Animal Ecology CBCS-2019Pattern)	<ol style="list-style-type: none"> <li>1. The learners will be able to identify and critically evaluate their own beliefs, values and actions in relation to professional and societal standards of ethics and its impact on ecosystem and biosphere due to the dynamics in population.</li> <li>2. To understand anticipate, analyse and evaluate natural resource issues and act on a life style that conserves nature.</li> <li>3. The Learner understands and appreciates the diversity of ecosystems and applies beyond the syllabi to understand the local lifestyle and problems of the community.</li> </ol>



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			<p>4. The learner will be able to link the intricacies of food chains, food webs and link it with human life for its betterment and for non-exploitation of the biotic and abiotic components.</p>
		<p>Course: ZO- 112: Practical Course CBCS-2019Pattern)</p>	<ol style="list-style-type: none"> <li>1. The student will be able to identify and classify the animals based on their morphology.</li> <li>2. The students will be estimate different physic-chemical properties of water and soil.</li> </ol>
2	F.Y.B.Sc. Semester II	<p>Course: ZO- 121: Animal Diversity II CBCS-2019 Pattern)</p>	<ol style="list-style-type: none"> <li>1. The student will be able to understand, classify and identify the diversity of invertebrates such as Arthropoda, Mollusca and Echinodermata.</li> <li>2. The students will be able to understand the complexity of invertebrates</li> <li>3. The students will be understood role and functions of lower animals.</li> <li>4. The students will be able to understand the linkage among the different groups of invertebrates.</li> </ol>
		<p>Course: ZO- 122: Cell Biology (CBCS-2019 Pattern)</p>	<ol style="list-style-type: none"> <li>1. The learner will understand the importance of cell as a structural and functional unit of life.</li> <li>2. The learner understands and compares between the prokaryotic and eukaryotic system and extrapolates the life to the aspect of development.</li> <li>3. The dynamism of bio membranes indicates the dynamism of life. Its working mechanism and precision are responsible for our performance in life.</li> </ol>
		<p>Course: ZO- 123: Practical Course (CBCS-2019 Pattern)</p>	<ol style="list-style-type: none"> <li>1. The student will be able to identify and classify the animals based on their morphology.</li> <li>2. The learner understands and differentiates prokaryotic and eukaryotic cells by observing cell structures.</li> <li>3. The students also understand cell division</li> </ol>
			<ol style="list-style-type: none"> <li>1. The student will be able to understand,</li> </ol>



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4	S.Y.B.Sc. Semester II	Course: ZO- 241: Animal Diversity IV (CBCS-2020 Pattern)	<ol style="list-style-type: none"> <li>The students will be able to understand the complexity of higher vertebrates such as Reptiles, Aves and Mammals.</li> <li>The students will be understood role and functions of higher animals.</li> <li>The students will be able to understand the linkage among the different groups of higher vertebrates.</li> </ol>
		Course: ZO- 242: Applied Zoology II (CBCS-2020 Pattern)	<p>❖ Unit: I- Apiculture</p> <ol style="list-style-type: none"> <li>The students will be able to understand the application of different kinds of beneficial animals for human welfare.</li> <li>Learners understand the different kinds of honey bee species and their nesting behaviors.</li> <li>The students will be able to understand the morphology and life cycle of honey bee.</li> <li>The learner understands the basics about beekeeping tools, equipment, and managing beehives.</li> <li>Students also understand about different kinds of bee products and their uses.</li> </ol> <p>❖ Unit: II- Fishery</p> <ol style="list-style-type: none"> <li>The learner understands the basic information about fishery and different kinds of fishery.</li> <li>Students also understand about different kinds of fishes and their culturing and harvesting methods.</li> <li>The learner understands different fish products.</li> <li>The students will be able to understand different kinds of fish preservation techniques</li> </ol>
		Course: ZO- 243: Practical Course (CBCS-2020 Pattern)	<ol style="list-style-type: none"> <li>The student will be able to identify and classify the animals based on morphology.</li> <li>The students understand the economic importance of different aquatic animals.</li> </ol>

❖ **Departmental Outcomes:**

- The learners will be able to understand diversity of animals.



- The students will be able to understand the application of different kinds of beneficial animals for human welfare.
- The students will be able to understand, ecology of an environment and functioning of earth or biosphere.

### Subject: Chemistry

#### -: Learning Outcomes :-

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Sr. No.	Class	Name Of Paper	Learning Outcomes
1	F.Y.B.Sc. Semester I	Course: CH- 101: Physical Chemistry (CBCS-2019 Pattern)	<ol style="list-style-type: none"> <li>1. The student will be able to apply thermodynamic principle.</li> <li>2. The students will be able to understand the chemical equilibrium</li> <li>3. The students will be able to calculate entropy, bond energy, bond dissociation energy and resonance energy.</li> </ol>
		Course: CH- 103: Practical Course (CBCS-2019 Pattern)	<ol style="list-style-type: none"> <li>1. Importance of safety and lab safety while performing the experiments.</li> <li>2. Determination of thermodynamic parameters and concepts</li> </ol>
			<ol style="list-style-type: none"> <li>1. The student will be able to understand, various theories and principles applied level to atomic structures.</li> <li>2. The students will be able to attainment the stable electronic configuration.</li> <li>3. The students will be understood role and functions of lower animals.</li> </ol>



2	F.Y.B.Sc. Semester II	Course: CH- 201: Inorganic Chemistry (CBCS-2019 Pattern)	4. The students will be able to understand origin of quantum mechanisms and its needs to understood structure of hydrogen atom.
		Course: CH- 203: Practical Course (CBCS-2019 Pattern)	<ol style="list-style-type: none"> <li>1. Inorganic estimation of volumetric analysis.</li> <li>2. Synthesis of organic compounds.</li> <li>3. Analysis of commercial products.</li> <li>4. Purification of organic compounds.</li> </ol>
3	T.Y.B.Sc. Semester I	Course: CH- 332: Inorganic Chemistry (2013 Pattern)	<ol style="list-style-type: none"> <li>1. The student will be able to understand, various types of ligands.</li> <li>2. Learners understands different terms used in co-ordination chemistry.</li> <li>3. The students will be able to explain various types of isomerism.</li> <li>4. The students will be able to explain magnetic properties of CFT spectra.</li> </ol>
		Course: CH- 343: Inorganic Chemistry (2013 Pattern))	<ol style="list-style-type: none"> <li>1. The student will be able to understand, meaning of terms of f- block elements and inner transition element.</li> <li>2. IUPAC nomenclature for super heavy elements with atomic number 100 onwards.</li> <li>3. The student will be able to understand, role of metal in bioinorganic chemistry.</li> <li>4. The student will be able to understand, difference between conductor and semiconductor.</li> <li>5. Qualitative survey of the substitution of co-ordination complex.</li> </ol>
		Course: CH- 34:8 Inorganic Chemistry	1. Students able to determine the concentration of given solution by colorimetric method.



4	T.Y.B.Sc. Semester II	Practical Course (2013 Pattern))	<ol style="list-style-type: none"> <li>Students able to synthesize inorganic compound.</li> <li>Inorganic estimation using volumetric analysis.</li> <li>Inorganic qualitative analysis.</li> </ol>
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## Department of Analytical Chemistry

### -: Learning Outcomes :-

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Sr. No.	Class	Name Of Paper	Learning Outcomes
		<p style="text-align: center;"><b>Course: CH-202 Analytical Chemistry</b></p>	<ol style="list-style-type: none"> <li><b>1. Introduction to Analytical Chemistry</b> Analytical Chemistry –branch of chemistry Perspectives of analytical Chemistry analytical problems</li> <li><b>2. Calculations used in Analytical Chemistry</b> Calculations of mole, molar concentrations and various units of concentrations which will be helpful for preparation of solution Stoichiometric calculation Define term molar concentration, molar equilibrium concentration and Percent Concentration. SI units, distinction between mass and weight Units such as parts per million, parts per billion, parts per thousand, solution-dilutant volume ratio, function density and specific gravity of solutions.</li> <li><b>3. Qualitative Analysis of Organic Compounds</b> Basics of type determination, characteristic tests and classifications, reactions of different functional groups. Separation of binary mixtures and analysis Elemental analysis - Detection of nitrogen, sulfur, halogen and phosphorous by Lassigen's test. Purification</li> </ol>



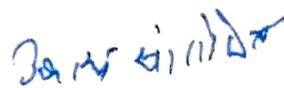
1	F.Y.B.Sc. Semester II	(CBCS-2020 Pattern)	<p>techniques for organic compounds.</p> <p>4. Chromatographic Techniques – Paper and Thin layer Chromatography Basics of chromatography and types of chromatography</p> <p>Theoretical background for Paper and Thin Layer Chromatography</p> <p>5. pH metry</p> <p>pH meter and electrodes for pH measurement Measurement of pH ,Working of pH meter, Applications of pH meter</p> <p>Reference</p>
2	S.Y.B.Sc. Semester III	<p>Course: CH-301 Physical and Analytical Chemistry (CBCS-2020 Pattern)</p>	<p>1. Chemical Kinetics:</p> <p>Define / Explain concept of kinetics, terms used, rate laws, molecularity, order. Explain factors affecting rate of reaction. discuss expression for half-life and examples of zero order, first order, and second order reactions. Derivation of Arrhenius equation evaluation of energy of activation graphically .Solve / discuss the problem based applying theory&amp;equations.</p> <p>2. Surface Chemistry</p> <p>Define / explain adsorption, classification of given processes into physical and chemical adsorption. Discuss factors influencing adsorption, its characteristics, Explanation of adsorption results in the light of Langmuir adsorption isotherm .Solve / discuss problems using theory.</p> <p>3. Errors in Quantitative Analysis</p> <p>Define, explain and compare meaning of accuracy and precision. Apply the methods of</p>



			<p>expressing the errors in analysis from results.</p> <p>Explain / discuss different terms related to errors in quantitative analysis. Solve problems applying equations</p> <p><b>4. Volumetric Analysis</b></p> <p>Explain / define different terms in volumetric analysis such as units of concentration, indicator, equivalence point, end point, standard solutions, primary and secondary standards. Explain / discuss acid-base titrations, complex metric titration / precipitation titration / redox titration.</p> <p>Apply volumetric methods of analysis to real problem in analytical chemistry / industry</p>
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