

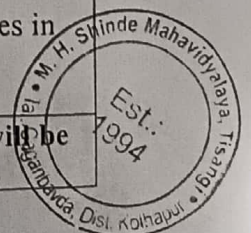
Dnyansadhana Shikshan Prasarak Mandal, Nivade Sanchalit,
M.H.Shinde Mahavidyalya, Tisangi



Course Outcomes

Department of History

Class	Course	Semester	Course Outcomes
B.A.-I	Rise of Maratha power(1600-1707)	I	<p>After studying the course the student will be able to...</p> <ol style="list-style-type: none"> 1. To understand the contribution of chhatrapati Shivaji Maharaj in making of Maratha State. 2. To Understand the historical sources of Maratha History. 3. To understand the role of common people in Maratha independence war.
	Polity , Society and economy under the Marathas(600-1707)	II	<p>After studying the course the student will be able to...</p> <ol style="list-style-type: none"> 1. To understand the administration of Marathas. 2 To study economic aspects of Marathas 3. To study the socio-religious aspects of the Marathas. 4. To understand the contribution of ShivajiMaharaj in Agricultural & Management.
B.A.-II	History of Modern Maharashtra -III (1900 to 1960)	III	<p>After studying the course the student will be able to...</p> <ol style="list-style-type: none"> 1.Understand the beginnings and growth of nationalist consciousness in Maharashtra 2. Explain the contribution of Maharashtra to the national movement 3. Give an account of various movements of the peasants, workers, women and backward classes 4. Know the background and events which led to the formation of separate state of Maharashtra.
	History of Modern Maharashtra –V (1900 to 2000)	IV	<p>After completion of the course, the student will...</p> <ol style="list-style-type: none"> 1. Acquaint himself with the contribution of eminent leaders of Maharashtra 2. Know about the economic transformation of Maharashtra 3. Understand the salient features of changes in society 4. Explain the growth of education.
	History of India-IV	III	<p>After studying this course, the student will be able to</p>

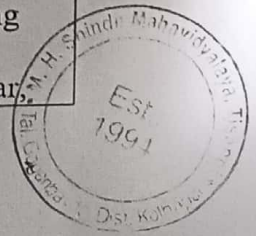




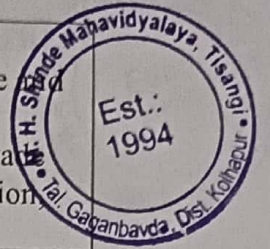
	(1757-1857)		<ol style="list-style-type: none">1. Acquaint himself with significant events leading to establishment of the rule of East India Company2. Know the colonial policy adopted by the company to consolidate its rule in India3. Understand the structural changes initiated by colonial rule in Indian Economy.4. Explain the various revolts against rule of the East India Company.
	History of Freedom Struggle –VI (1858-1947)	IV	<p>After completion of this course, the student will be able to...</p> <ol style="list-style-type: none">1. Understand the events which lead to the growth of nationalism in India2. Acquaint himself with major events of the freedom struggle under the leadership of Mahatma Gandhi3. Explain the contribution of Revolutionaries, Left Movement and Indian National Army4. Know the concept of Communalism and the causes and effects of the partition of India
B.A.-II	Social Reforms in India-I	III	<p>After completion of the course, the student will be able to ...</p> <ol style="list-style-type: none">1. Understand the salient features of prominent socio-religious reform movements2. Explain the thought and work of Mahatma Phule for radical transformation of Indian society3. Know the measures taken by Rajashri Shah Maharaj for emancipation of lower classes and women4. Understand the thoughts of Ambedkar on the annihilation of the caste system and untouchability in India5. Know how the Indian constitution embodies the values of social justice and Equality.
	Social Reforms in Maharashtra – II	IV	<p>After studying the course, the student will be able to...</p> <ol style="list-style-type: none">1. Know about the beginnings of social reforms in Maharashtra by the Paramhansa Mandali and PrarthanaSamaj.2. Understand the contribution of women reformers3. Explain the contribution of Social reformers in the fight for social justice

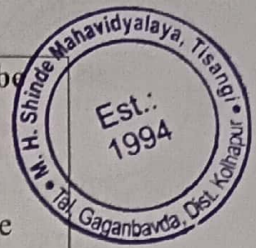


			4. Explain the role played by educational reform in transformation of society.
B.A.-III	Early India-VI (from beginning to 4th c. BC)	V	<p>After studying the course the student will be able to ...</p> <ol style="list-style-type: none"> 1) Understand the transition of humans in India from Hunters to Farmers 2) Explain the transition from Early to Later Vedic period. 3) Clarify the causes for the first and second urbanizations 4) Give an account of the teachings of Gautama Buddha and VardhamanaMahavira 5) Describe the rise and growth of the Mauryan Empire 6) Explain the salient features of Ashoka'sDhamma
	Ancient India-XII (From 4th c. BC to 7th c. AD)	VI	<p>After studying the course the student will be able to...</p> <ol style="list-style-type: none"> 1) Know the political ,economic and religious developments which took place in early historic India 2) Explain the role played by Major Satavahana, Kushana, Gupta and Vakataka Kings 3) Give an account of the developments in the Post-Gupta period 4) Have an informed opinion about the society and culture of Ancient India
B.A.-III	History of Medieval India-VIII (1206-1526)	V	<p>After studying the course the student will be able to...</p> <ol style="list-style-type: none"> 1) Describe the different types of historical sources available for writing the history of medieval India 2) Explain the contributions of medieval rulers like AllaudinKhilji, Muhammad-bin-Tuqhlaq, Krishnadevraya, and Mahmud Gavan 3) Give an account of the administration and economy of the Delhi sultanate and Vijayanagar Empire 4) Elucidate the significant developments which took place in religion, society and culture
	History of Medieval India XIII (1526-1707)	VI	<p>After studying the course the student will be able to...</p> <ol style="list-style-type: none"> 1) Know about the various sources for writing Medieval Indian history 2) Explain the role of rulers like Babar, Akbar,



			<p>Chandbibi and Ibrahim Adilshah II</p> <p>3) Gain knowledge about the administrative revenue system</p> <p>4) Describe the condition of Industry and trade</p> <p>5) Explain important developments in religion society and culture</p>
B.A.-III	Age of Revolutions - IX	V	<p>After studying the course the student will be able to...</p> <p>1) Explain the causes and consequences of the Reformation</p> <p>2) Give an account of the role played by Martin Luther</p> <p>3) Explain the salient features of the Industrial revolution</p> <p>4) Give an account of the American revolution</p> <p>5) Explain the causes, effects and major events of French Revolution</p> <p>6) Explain the role of major leaders of the French Revolution</p>
	Making of the Modern World- XIV (16 th & 19 th century)	VI	<p>After studying this course the Student will be able to:</p> <p>1) Know the causes and consequences of the Glorious revolution in England</p> <p>2) Explain the concept of Nationalism and account for its rise and spread.</p> <p>3) Describe the unification of Italy and Germany.</p> <p>4) Give an account of the rise, growth and impact of Imperialism</p> <p>5) Explain the significance of the Partition of Africa</p> <p>6) Know the life and thoughts of important leaders like Metternich, Karl Marx and Abraham Lincoln.</p>
B.A.-III	Political History of the Marathas - X	V	<p>After studying the course the student will be able to...</p> <p>1) Describe the political conditions of the Marathas upto the year 1740</p> <p>2) Explain the role of BalajiBajirao.</p> <p>3) Explain the causes and effects of the Battle of Panipat.</p> <p>4) Understand the political condition of the Marathas after 1761.</p> <p>5) Critically analyze the causes for the decline of Maratha power.</p>

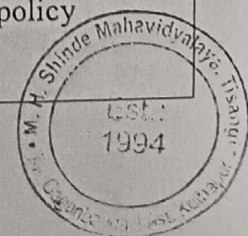




	Polity, Economy and Society under the Marathas-XV	VI	After studying the course the student will be able to... 1) Know the various sources for writing the history of the Marathas 2) Explain the significant developments in the polity of the Marathas 3) Describe the economic conditions 4) Explain the social conditions.
B.A.-III	History: Its Theory -XI	V	After studying the course the student will be able to... 1) Understand the definition and scope of the subject of History 2) Know the process of acquiring historical data 3) Explain the process of presenting and writing history 4) Understand the methods of writing history
	Methods and Applications of History-XVI	VI	After studying the course the student will be able to... 1) Understand the nature of archival sources 2) Gain conceptual clarity about recent trends in history. 3) Know about the application of history in museums. 4) Explain the concept and scope of heritage tourism.

Department of Economics

Class	Name of the Papers	Outcome
B.A.I.	Indian Economy	1. This paper intends to acquaint the students with various dimensions of challenges, confronting the Indian Economy. It endeavors to provide useful insights to the students about the present Economic standing and composition of the Indian Economy, the major sectors and their relative importance in the Indian Economy and the major challenges faced by it. To acquaint the students with the policies and performances of major sectors in Indian Economy.
B.A.II	1. Macro Economics 2. Money and Banking 3. Cooperation 4. Environmental	1. This paper on money banking, income & employment public finance which combines within its folds systematic discussion and objectives analysis of theory and policy concerning.

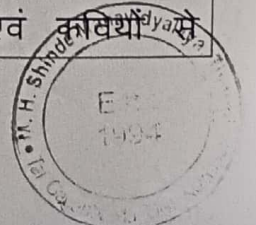




	Studies	<p>2. This paper has been prepared to cater for the requirements of all those students who are interested in acquiring basic knowledge of money and banking. It would also prove helpful to students specialising in money and banking as well as to students who engaged in banking sector</p> <p>3. Generally cooperation means living, thinking, working together and help each other to develop all society.</p> <p>4. This paper students study nature of environmental studies, natural resources and associated problems, also environmental problems, social issues, environmental protection, bio-diversity and its conservation and also field work. So students help to develop their awareness in environment.</p>
B.A.III	<p>1. Micro Economics</p> <p>2. Research methodology in Economics</p> <p>3. Development of Economics</p> <p>4. History of Economic thoughts</p> <p>5. International Economics</p>	<p>1. In this paper the major developments in modern micro economics are analysed vigorously and critically, mathematics being an inherent part of economics theory, so students study basic concepts, models, tools and methodology of economics.</p> <p>2. Degree level students increase awareness in research and student study any problem, fact, research tools too</p> <p>3. One of the most significant demographic phenomena, of the 20th century has been the fast pace of development. Students study the meaning of development, its benefits, types.</p> <p>4. In this paper students study the development of economic thought and basic concept of economics.</p> <p>5. This paper shows how to development of international economics. Theory has traditionally been shaped by the need to understand the changing world economy and analyse actual problems in international economic policy.</p>

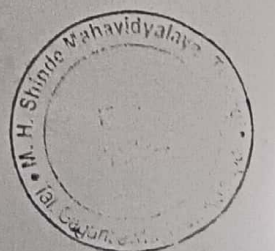
Department of Hindi

<u>Class</u>	प्रश्नपत्र	<u>Course Outcome</u>
बी ए1 -	प्रश्न पत्र 1, 2.	<ul style="list-style-type: none"> छात्रों की हिन्दी साहित्य के प्रति रुचि बढ़ाना तथा छात्रों को साहित्य की विविध विधाओं से परिचित कराना। छात्रों को हिन्दी के प्रतिनिधि गद्दकारों एवं कवियों से परिचित कराना।





		<p>परिचित कराना।</p> <ul style="list-style-type: none">निबंध, कहानी, रेखाचित्र, एकांकी, रिपोर्टाज, संस्मरण, कृत्य आदि विधाओं के माध्यम से छात्रों का भावात्मक विकास कराना।छात्रों की विचार क्षमता तथा कल्पनाशीलता को बढ़ाना देना।
बी ए भाग 2	प्रश्न पत्र 3.	<ul style="list-style-type: none">कथा साहित्य का स्वरूप, तत्व प्रकारों का अध्ययन कराना।समीक्षा मानदंडों के आधार पर कथा साहित्य का अध्ययन कराना।कथेतर साहित्य का समीक्षात्मक अध्ययन कराना।कथा और कथेतर साहित्य का वर्तमान प्रासंगिकता के साथ अध्ययन कराना।
	प्रश्न पत्र 4	<ul style="list-style-type: none">छात्रों की साहित्य के प्रति रुचि बढ़ाना तथा साहित्य के विविध विधाओं से परिचित कराना।छात्रों को मध्यकालीन हिन्दी कवियों से परिचित कराना।नैतिक मूल्य, राष्ट्रिय मूल्य एवं उत्तरदायित्व के प्रति आस्था निर्माण कराना।आधुनिक हिन्दी कविता में चित्रित विविध विमर्शों से परिचित कराना।
	प्रश्न पत्र 5	<ul style="list-style-type: none">छात्रों में हिन्दी में कार्य करने की विचार क्षमता, कल्पनाशीलता एवं रुचि को विकसित कराना।रोजगार उन्मुख शिक्षा एवं कौशल प्रदान कराना।पत्राचार के स्वरूप का परिचय कराना।कार्यालय और व्यवसाय में हिन्दी का प्रयोग का कौशल ज्ञान विकसित कराना।अनुवाद और व्यावहारिक लेखन का महत्व तथा उपयोगिता का परिचय कराना।छात्रों में हिन्दी भाषा के श्रवण, पठन एवं लेखन कौशल को विकसित कराना।





प्रश्न पत्र 6		<ul style="list-style-type: none">• विविध कवियों से परिचित कराना।• छात्रों में हिन्दी भाषा के श्रवण, पठन एवं लेखन की क्षमता विकसित कराना।• साहित्य के प्रति रुचि बढ़ाना।• नैतिक मूल्य, राष्ट्रिय मूल्य एवं उत्तरदायित्व के प्रति आस्था निर्माण कराना।
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बी ए प्रश्न पत्र 7

भाग 3

- नाटककार कुसुम कुमार की बहुमुखी प्रतिभा से परिचित कराना।
- कुसुम कुमार के साहित्य से परिचित कराना।
- नाटककार कुसुम कुमार के विचार धारा से परिचित कराना।
- निर्धारित ग्रंथ का सूक्ष्म आलोचनात्मक अध्ययन कराना।

प्रश्न पत्र 8

- साहित्य निर्मिति की प्रक्रिया का बोध कराना।
- साहित्यकाव्य के विभिन्न अंग/भेदों से परिचित कराना।
- काव्य की नवीन विधाओं से परिचित कराना।
- समीक्षा सिद्धांतों से परिचित कराना।
- काव्य के तत्वों से परिचित कराना।
- अलंकारों से परिचित कराना।

प्रश्न पत्र 9

- हिन्दी भाषा तथा साहित्य की विकास यात्रा से अवगत कराना।
- हिन्दी भाषा के माध्यम से अलग अलग विचारधारा और प्रवृत्तियों से अवगत कराना।
- संत, कवि उनकी रचनाएं, उनके समाज सुधार कार्य से परिचित कराना।
- गद्यपद्य-, विधा और उसके भेदों/उपभेदों से अवगत कराना -।

प्रश्न पत्र : 10 प्रयोजन मूलक हिन्दी

- पारिभाषिक शब्दावली से परिचित कराना।
- सरकारी पत्राचार से परिचित कराना।
- जनसंचार एवं एलेक्ट्रॉनिक माध्यमों से परिचित कराना।
- अनुवाद स्वरूप महत्व तथा उपयोगिता से परिचित कराना।

प्रश्न पत्र 11:

- भाषा के विविध रूपों का परिचय कराना।
- हिन्दी भाषा एवं लिपि के उद्भव और विकास का परिचय कराना।
- भाषा की धुद्धता के प्रति छात्रों को जागृत कराना।
- मानक हिन्दी वर्तनी और व्याकरण से छात्रों को परिचित कराना।



Class	पेपर	
बी एभाग 1	1. शब्दसंहिता (कंपल्सरी) 2. अक्षरबंध (ऐच्छिक)	1. विद्यार्थ्यांची मराठी साहित्याविषयी अभिरुची विकसित करणे. 2. मराठी साहित्य परंपरा लेखक, कवी यांचा परिचय करून देणे. 3. विद्यार्थ्यांमध्ये मातृभाषा, राष्ट्रीय एकता आणि उच्चमानवी मूल्ये याविषयी जाणीव निर्माण करणे. 4. विद्यार्थ्यांचा व्यक्तिमत्व विकास घडवून स्पर्धा परीक्षांची पूर्वतयारी करून घेणे. 5. निबंध लेखनाच्या माध्यमातून भाषा उपयोजनाची कौशल्ये विकसित करणे. 6. चित्रपट व प्रसार माध्यमे यांच्या लेखन आणि उपयोजनाच्या आकलनाचा अवकाश वाढविणे
बी. ए. भाग 2	1. काय डेंजर वारा सुटलाय - जयंत पवार (नाटक) 2. काव्यगंध (कविता)	1. नाटकाचा वाड, मय प्रकाराचे आकलन करून घेणे. 2. समकालीन नाटकातून नाटककारांच्या समकालाचे प्रतिबिंबक शा प्रकारे प्रकट होते याचा अभ्यास करणे. 3. नाट्याभ्यासाद्वारे प्रयोगरूप नाटक व नाट्य क्षेत्रातील ज्ञान संपादनास चालना देणे. 4. नाट्याभ्यासातून सभ्यता संस्कृती, राष्ट्रीय एकता व बंधुता वाढीस लावणे. 5. विद्यार्थ्यांमध्ये संवाद लेखन कौशल्ये विकसित करणे. 6. मराठी काव्य परंपरा, प्रवाहांची ओळख करून ओळख करून घेणे. 7. मराठी काव्यातून प्रकट होणारे माणूस आणि समाजातील परस्पर संबंध शोधणे आणि समाजातील परस्पर संबंध शोधणे. 8. कवितेच्या कलात्मक आकृतिबंधाचे मूळ अभ्यासणे. 9. काव्य प्रवाह अनुरूप काव्य लेखनाचे लेखनाचे विशेष अभ्यासणे 10. प्रात्यक्षिकाद्वारे काव्य लेखन कौशल्य रुजविणे कौशल्य रुजविणे लेखन कौशल्य रुजविणे कौशल्य रुजविणे.
बी. ए. 3	साहित्यविचार	1. पौर्वात्य व पाश्चात्य आधुनिक भारतीय साहित्यशास्त्राचे आधुनिक भारतीय साहित्यशास्त्राचे स्वरूप समजून घेणे. 2. शब्दशक्तिचे आकलन करून आकलन करून घेणे. 3. साहित्यातील साचे स्वरूप समजून घेणे.
	मराठी भाषा व भाषाविज्ञान	1. भाषाविज्ञानाचा परिचय करून देणे. 2. मराठी भाषेची वर्णव्यवस्था समजून घेणे. 3. बोलींचे स्वरूप व विशेष समजून घेणे.
	मध्ययुगीन मराठी वाड, मयाचा इतिहास (प्रारंभ ते इ.स 1600)	1.) मध्ययुगीन मराठी वाड, मयाचा परिचय करून घेणे. 2.) मध्ययुगीन मराठी वाड, मयाचा कालिक अभ्यास करणे. 3.) पंडित कवी, बखर वाड, मयवशाहीरी वाड, मयांचा अभ्यास करणे.
	मराठी भाषा व अर्थार्जनाच्या संधी	1. सर्जनशील लेखन प्रक्रिया समजून घेणे. 2. वैचारिक लेखनाचे स्वरूप अभ्यास करणे. 3. प्रसार माध्यमातील अर्थार्जनाच्या संधी आणि भाषिक कौशल्ये यांचा परिचय करून घेणे.



	नघेणे. 4. उद्योगवसेवाक्षेत्रातमराठीभाषेद्वारेअर्थार्जनप्राप्तीसंदर्भातज्ञानसंपादनकरणे
वाङ्मयप्रवाहाचेअध्ययन (मध्ययुगीनवआधुनिक)	1. मध्ययुगीनमहाराष्ट्रमहानुभवपंथयांचापरिचयकरूनघेणे. 2. दृष्टांतपाठातीलभाषिकवैभवयांचापरिचयकरूनघेणे. 3. ललितगद्यवाङ्मयप्रकारयाचेस्वरूपअभ्यासणे. 4. व्यक्तिचित्रसंकल्पनावस्वरूपसमजूनघेणे.

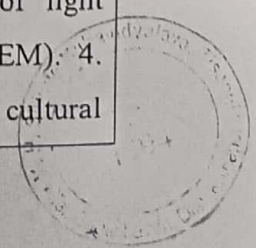
Department of Botany

Class	Syllabus	Outcome
B.Sc. I CBCS	Botany Paper IDSC- 13 A: BIODIVERSITY OF MICROBES, ALGAE AND FUNGI Botany Paper II: DSC- 14 A: BIODIVERSITY OF ARCHEGONIATE- Bryophytes, Pteridophytes, Gymnosperms	Understanding of concept of biodiversity of non flowering plants
	Botany Paper III: DSC- 13 B: PLANT ECOLOGY Botany Paper IV: DSC- 14 B: PLANT TAXONOMY	Understanding ecological factors and phytogeography of India. Study of angiosperm taxonomy and role of botanical gardens.
B.Sc. II CBCS	Botany Paper V: DSC C13: EMBRYOLOGY OF ANGIOSPERMS Botany Paper VI: DSC C14: PLANT PHYSIOLOGY	Reproduction in angiosperms. Significance of polyembryony and apomixes Study of mineral nutrition, photosynthesis and growth
	Botany Paper VII: DSC D13: PLANT ANATOMY Botany Paper VIII: DSC D14: PLANT	Understanding anatomy of parts of plant. Study of enzyme and nitrogen metabolism, respiration and seed germination.





METABOLISM		
B.Sc. III CBCS	Paper- IX DSE -E25 Genetics and Plant Breeding	Understand the biochemical nature of nucleic acids, their role in living systems, experimental evidences to prove DNA as a genetic material, Understanding concepts of genetics and to study analytical techniques in botany Understand the science of plant breeding. 2. To introduce the student with branch of plant breeding for the survival of human being from starvation. 3. To study the techniques of production of new superior crop varieties. 4. Understand the modern strategies applied in Genetics and Plant Breeding to sequence and analyze genomes 5. Get the detail knowledge about modern strategies applied in Plant Breeding for crop improvement i.e. Mass selection, Pureline Selection and Clonal selection. 6. Know about exploitation of Heterosis, hybrid and variety development and their release through artificial hybridization.
	Paper- XDSE -E26 Microbiology, Plant Pathology and Mushroom Culture Technology	Study of applications of microbiology and plant Diseases Understand the concept, principle and types of sterilization methods. 2) Know the concept and characteristics of antiseptic, disinfectant and their mode of action. 3) Know the cultivation methods of bacteria, yeast, fungi and virus. 4) Principle, working and applications of instruments viz, pH meters, spectrophotometer, centrifuge, viscometer, and laminar air flow. 5) Understand the Microbial Genetics and Recombination in Bacteria. 6) Know the terminologies in plant pathology. 7) Understand the scope and importance of Plant Pathology. 8) Know the prevention and control measures of plant diseases and its effect on economy of
	Paper- XI DSE -E27 Cytology and Research Techniques in Biology	Know the details of Microscopy- Principles of light microscopy, electron microscopy (TEM and SEM). 4. Understand & perform Chromatography and cultural





techniques in Botany. 5. Understand the methods used in Micrometry, Microtomy and Microphotography.

Paper- XII DSE-E28 Horticulture and Gardening

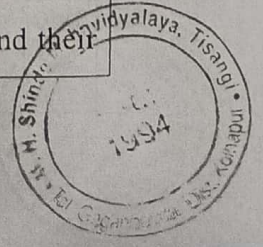
To gain knowledge of gardening , cultivation and multiplication , raising of seedlings of ornamental plants

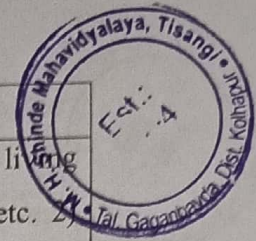
Paper- XIII DSE -F25 Plant Biochemistry and Molecular Biology

Understand the properties of Monosaccharides, Oligosaccharides and Polysaccharides. 2) They will learn about the Significance of Carbohydrates. 3) Understand the Properties of saturated fatty acids, and unsaturated fatty acids. 4) Understand lipid metabolism in plants. 5) Understand the Beta Oxidation, Gluconeogenesis and its role in mobilization of fatty acids during germination. 6) They will learn about the Significance of lipids. 7) They will be able to understand Brief outline of biosynthesis of amino acid. 8) Understand the protein - structure and classification and protein biosynthesis in prokaryotes and eukaryotes. 9) They will learn about the nucleic acid metabolism

Paper- XIV DSE -F26 Bioinformatics, Biostatistics and Economic Botany

With a working knowledge of the practical and theoretical concepts of bioinformatics, you will be well qualified to progress onto advanced graduate study. The portfolio of skills developed on the programme is also suited to academic research or work within the bioinformatics industry as well as range of commercial settings. After studying Economic Botany, students would have first hand information of plants used as food, the various kinds of nutrients available in the plants. The dietary requirements of proteins, fats, amino-acids, vitamins etc that can be met by plants. The students will learn to perform the micro-chemical tests to demonstrate various components. The students will learn about the use of fibre plants, beverages, fruits and vegetables that are integral to day to day life of plants. Students will learn to explore the regional diversity in food crops and other plants and their

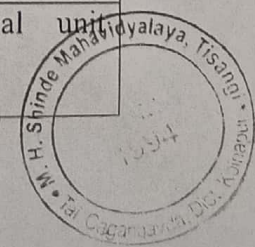


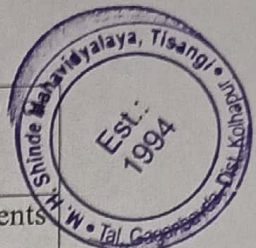


	ethno-botanical importance as well.
Paper- XV DSE -F27 Plant Biotechnology and Paleobotany	<p>Know about the genomic organization or living organisms, study of genes genome, chromosome etc. 2) Gain knowledge about the mechanism and essential component required for prokaryotic DNA replication. 3) Understand the fundamentals of Recombinant DNA Technology. 4) Know about the Genetic Engineering. 5) Understand the principle and basic protocols for Plant Tissue Culture. 6) The concept of operon and its structure and regulation</p> <p>7) Know the scope of Paleobotany, types of fossils, its role in global economy and geological time scale. 11) Understand the various fossil genera representing different fossil groups.</p>
Paper- XVI DSE -F28 Bio fertilizers and Herbal Drug Technology	<p>The student would have a deep understanding of ecofriendly fertilizers. They will be able to understand the growth and multiplication conditions of useful microbes such as Rhizobium, cyanobacteria, mycorrhizae, Azotobactoretc, their role in mineral cycling and nutrition to plants. The can also think of the methods of decomposition of biodegradable waste and convert into the compost</p>

Chemistry

Programme Name	Course Name/ paper	Course Outcome
B. Sc. I Semester I & II	Paper I Inorganic Chemistry DSC-3A	1. Basic concepts regarding nature of chemical bonds. 2. Chemical bonding according to VBT and MOT.
	Paper II Organic Chemistry DSC-4A	1. Understanding the stability of compounds on the basis of aromaticity. 2. Basic knowledge of reactive intermediates.
	Paper III Physical Chemistry DSC 3B	1. Basic concepts of Thermodynamics and Chemical Kinetics. 2. Entropy and enthalpy of chemical system.
	Paper IV Analytical Chemistry DSC-4B	1. Basic skills of various analytical unit operations.





B. Sc. II Semester III & IV	Paper V Physical Chemistry DSC- C3	1. Understand functioning and construction of Electrochemical cell. 2. Physical properties of liquids.
	Paper VI Industrial Chemistry DSC-C4	1. Chemical constitution in soap and detergents and its applicability 2. Concepts of corrosion and electroplating in metals
	Paper VII Inorganic Chemistry DSC-D3	1. Understanding the basics of coordination chemistry. 2. Understand the concept of catalysis
	Paper VIII Organic Chemistry DSC- D4	1. Stereo chemical aspects of various organic compounds. 2. Industrially important Name reactions and its applicability in various field.
B. Sc. III Semester V & VI	Paper IX Inorganic Chemistry DSE-E5	1. Detail study of organometallic compounds and semiconductors. 2. Applicability and hazards of various polymers
	Paper X Organic Spectroscopy DSE-E6	1. Elucidation of structure of various organic compounds by using UV-VIS, IR, NMR and Mass spectroscopic techniques
	Paper XI Physical Chemistry DSE-E7	1. Quantum theory and its applicability in chemistry. 2. Elucidation of structure of chemical compounds by studying the spectroscopic techniques.
	Paper XII Analytical Chemistry DSE-E8	2. Understanding of different chemical processes in industry.
	Paper XIII Inorganic Chemistry DSE-F5	1. Radioactivity and its applications in various field. 2. Kinetic and thermodynamic stability of complexes.
	Paper XIV Organic Spectroscopy DSE-F6	1. Reaction mechanism and industrial applicability of various name reactions and reagents. 2. History and chemistry of Natural products and its pharmaceutical applications.
	Paper XV Physical Chemistry DSE-F7	1. Radioactivity of various elements and its usefulness. 2. Rate of simultaneous reactions can be studied by chemical kinetics
	Paper XVI Analytical Chemistry DSE-F8	1. Chromatographic techniques for chemical analysis. 2. Applicability of various instruments like Potentiometer, conductometer, etc.

