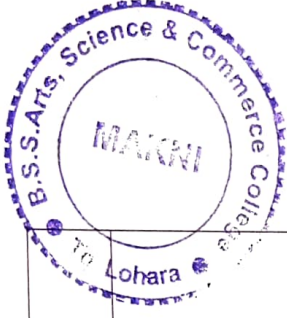




बी.एस.एस. कला, विज्ञान व वाणिज्य महाविद्यालय माकणी, ता. लोहारा जि. उस्मानाबाद

मराठी विभाग

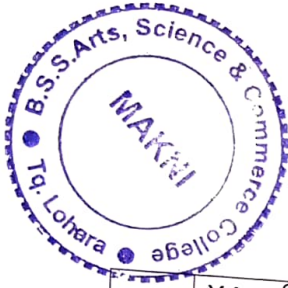
अ.क्र.	कोर्स	कोर्स आउटकम
1	बी.ए. प्रथम वर्ष मराठी (S.L.) पेपर क्र. १, २, गद्य पद्य आणि उपयोजित मराठी. (SEM I, II)	<ul style="list-style-type: none">• मराठी साहित्यातील विविध वाङ्मय प्रकारांचे वाचन करण्याची आवड निर्माण होईल.• विद्यार्थ्यांमध्ये मराठी भाषा व्यवहारात समर्थपणे वापरण्याची क्षमता निर्माण होईल.• पाठातील आणि कवितेतील सामाजिक सांस्कृतिक साहित्यिक लोकशाही मूल्यांचे विद्यार्थ्यांना आकलन होईल.• विविध प्रसार माध्यमांचे ज्ञान आत्मसात करतील.• कार्यालयीन आणि वाङ्मयीन परीभाषेचे आकलन होईल.
2	बी.ए. प्रथम वर्ष मराठी (Opt) SEM I पेपर क्र. 1) काव्यात्म साहित्य 2) नाट्यात्म साहित्य SEM II 3) कथात्म साहित्य 4) मुद्रित माध्यमांसाठी लेखन कौशल्य	<ul style="list-style-type: none">• साहित्याच्या अभ्यासातून जीवन विषयक दृष्टिकोन व्यापक विशाल बनेल.• कवितेतील सामाजिक सांस्कृतिक मूल्यांचे ज्ञान प्राप्त होईल.• पाठाच्या लेखकांचा व कवितेच्या कवींचा विद्यार्थ्यांना परिचय होईल.• विद्यार्थ्यांना वेगवेगळ्या विषयांवर आधारित कवितेचे आकलन होईल.• विद्यार्थ्यांना नाट्य वाङ्मय प्रकाराचा परिचय होईल.• विद्यार्थी नाटकातील संवाद, नेपथ्य, संघर्ष आणि नाटकाची शैली आत्मसात करतील.



		<ul style="list-style-type: none">• नाटकातून येणारा सामाजिक, सांस्कृतिक, आर्थिक विकासाचा दृष्टिकोन विद्यार्थी आत्मसात करतील.• कथेतून व्यक्त होणारा आशय विद्यार्थी आत्मसात करतील.• मुद्रित माध्यमांसाठी लेखन कौशल्य विद्यार्थी आत्मसात करतील.• विद्यार्थ्यांच्या सर्वांगीण व्यक्तिमत्त्वाचा विकास घडून येईल.
3	बी.ए.द्वितीय वर्ष मराठी(S.L.) SEM III, IV पेपर क्र.3 व 4 गद्य पद्य आणि उपयोजित मराठी	<ul style="list-style-type: none">• विद्यार्थ्यांना जुन्या नव्या कवींच्या काव्यांचा लेखकांच्या लेखनाचा परिचय होईल.• दैनंदिन जीवनात भाषेचा वापर सुलभपणे करतील.• मराठी भाषेतील जुन्या-नव्या भाषेच्या वापराचा अर्थ समजून घेतील.• विद्यार्थी काव्याचा मतितार्थ सूचक का अर्थ आणि तत्कालीन भाषिक शब्दकळा पर्यावरण मानवी मूल्य आदी बाबत जाणकार होतील.• व्यवहारीक भाषिक कौशल्य त्यादृष्टीने भाषिक कौशल्याचे ज्ञान विद्यार्थी आत्मसात करतील.• कार्यालयीन लेखन तंत्राविषयी ची माहिती आत्मसात करतील.
4	बी.ए.द्वितीय वर्ष मराठी (Opt) SEM III	<ul style="list-style-type: none">• मराठी साहित्याची सांस्कृतिक संकल्पना आणि स्वरूप विद्यार्थी समजून घेतील• निबंधाचे स्वरूप व विशेष निबंधाचे प्रकार विद्यार्थी आत्मसात करतील.

	<p>पेपर क्र.V. मराठी वाङ्मयाचा इतिहास .</p> <p>VI दृक-श्राव्य माध्यमांसाठी लेखन कौशल्य.</p> <p>SEM IV</p> <p>VII आधुनिक मराठी वाङ्मयाचा इतिहास.</p> <p>VIII साहित्य प्रकारांत आणि साहित्याचे माध्यमांतर.</p>	<ul style="list-style-type: none"> • विद्यार्थ्यांना कथा वाङ्मयचे स्वरूप ,इतिहास ,प्रेरणा आणि सामाजिक आशय याचे ज्ञान आत्मसात होईल. • कथा वाङ्मयाचा प्रवास कसा झाला याचे ज्ञान आत्मसात करतील. • कादंबरी वाङ्मय चे स्वरूप विशेष आणि कादंबरीचा फॉर्म विद्यार्थी आत्मसात करतील. • कथा लिहिण्याची प्रेरणा विद्यार्थ्यांना मिळेल. • दृकश्राव्य माध्यमातसाठी लेखनाचे कौशल्य विद्यार्थ्यांना अवगत होती. • बातम्या मुलाखती विविध मालिका फॅशन शो सिनेमा यासंदर्भातल्या नवनव्या गोष्टी आत्मसात करतील. • माध्यमाचे महत्त्व आणि साहित्य असणारा अनुबंध विद्यार्थी अवगत करून घेतील. • चित्रपट पटकथा लेखनाचे ज्ञान विद्यार्थ्यांना मिळेल. • कथा आणि कादंबरीवरून चित्रपटकथेचे ज्ञान विद्यार्थ्यांना प्राप्त होईल.
5	<p>बी.ए.तृतीय वर्ष मराठी(opt)</p> <p>SEM V</p> <p>पेपर क्र.IX भारतीय साहित्य विचार</p>	<ul style="list-style-type: none"> • भारत भारतीय साहित्याचे स्वरूप समजून घेताना भारतीय साहित्य वेचक आणि साहित्याच्या संदर्भात नोंदवलेले विचार विद्यार्थ्यांना आत्मसात करता येतील • साहित्य निर्मितीचे प्रयोजन समजून घेऊन साहित्याचा उद्देश विद्यार्थ्यांच्या व्यक्तिमत्त्वाच्या विकासासाठी उपयुक्त ठरेल.





X भाषाविज्ञान	<ul style="list-style-type: none">• साहित्य निर्मिती प्रक्रिया विद्यार्थ्यांमध्ये नवनिर्मितीच्या दृष्टिकोनातून महत्त्वाची ठरेल.
XI मध्ययुगीन मराठी वाङ्मयाचा इतीहास (प्रारंभ ते १६००)	<ul style="list-style-type: none">• साहित्याचा अभ्यास करून साहित्याचा आस्वाद कसा घ्यावा याचे ज्ञान विद्यार्थ्यांना प्राप्त होईल.
XII प्रकल्प कार्य भाग 1	<ul style="list-style-type: none">• साहित्याच्या रचनेचा आणि असे सूत्राचा विद्यार्थ्यांच्या मनू भूमिकेवर निश्चितच परिणाम होईल.
SEM VI	
XIII पाश्चात्य साहित्य विचार	<ul style="list-style-type: none">• शब्द शक्ति व आर्थ विचार त्याच्या अभ्यासातून भाषेचे ज्ञान विद्यार्थ्यांना प्राप्त होईल.
XIV व्याकरण व निबंध लेखन	<ul style="list-style-type: none">• भाषा विज्ञानाच्या अभ्यासातून विद्यार्थ्यांची भाषेकडे पाहण्याची दृष्टी व्यापक बनेल.
XV मध्ययुगीन मराठी वाङ्मयाचा इतीहास (सन १६०१ ते १८१८)	<ul style="list-style-type: none">• भाषेच्या सौंदर्याचा संकल्पनांचा अभ्यास करून विद्यार्थ्यांचे व्यक्तिमत्व विकसित होईल.
XVI प्रकल्प कार्य भाग 2	<ul style="list-style-type: none">• प्रमाण भाषा व बोली भाषा यांचं सखोल ज्ञान विद्यार्थ्यांना निश्चितच व्यवहार उपयोगी ठरेल.• ऐतिहासिक वाङ्मयाचा अभ्यासातून गतकाळातल्या भाषेचे विद्यार्थ्यांना ज्ञान प्राप्त होईल.• सामाजिक सांस्कृतिक धार्मिक स्थिती गतीचा अभ्यास करून विद्यार्थ्यांचे व्यक्तिमत्त्व समृद्ध बनेल.• कला साहित्य संस्कृती आणि समाज याबाबतची समज दृढमूल होईल.• महानुभाव संत पंत पंत वांग्याच्या अभ्यासातून विद्यार्थ्यांना नीतिमूल्यं चे धडे गिरवता येतील.• साहित्याची समीक्षा व संशोधन त्याचे स्वरूप वैशिष्ट्ये अभ्यासांती संशोधक बनण्यासाठी मार्गदर्शक ठरतील.• संशोधनात्मक लेखन कौशल्याचा विकास घडून येईल.

		<ul style="list-style-type: none"> • पाश्चात्यांच्या साहित्य विचारांच्या ध्यासातून विद्यार्थ्यांचे व्यक्तिमत्त्व विकसित होईल. • जीवनामध्ये यशस्वी होण्यासाठी जिज्ञासा विद्यार्थ्यांमध्ये निर्माण होईल. • भाषेच्या व्याकरणाचा संदर्भात विद्यार्थ्यांमध्ये आवड निर्माण होईल. • वर्तमानातील सामाजिक प्रश्नांकडे पाहण्याची दृष्टी चिकित्सक बनवेल. • जीवनातील विविध प्रश्न सामंजस्याने सोडवण्याची प्रेरणा मिळेल. • सहिष्णुतावादी दृष्टिकोन विद्यार्थ्यांमध्ये निर्माण होईल.
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(Affiliated to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad)

Internal Quality Assurance Cell (IQAC)

DEPARTMENT OF ENGLISH

Course Outcomes

Course	Semester	Name of the Course	Course Code	Objectives of the Course	Course Outcomes
B.A.	B.A.I First and Second Semester	Learning Language Skills-I (Comp)	CLE - 1	1. To introduce students to the grammatical properties in order to enable them to write and speak English consciously. 2. To train them both in precision and in appropriate use of language through prose reading. 3. To acquaint students with a keen and subtle way in which the English language is used. 4. To inculcate the moral values among the students.	1. The students became proficient in communication. 2. Positive changes observed in their behavior.
		The Structure of English (Optional-I & III)	OPE-1	1. To help students towards better pronunciation. 2. To enable students to acquire the structure of English language.	1. Students can transcribe the words and read transcriptions. 2. Students gained the knowledge of various aspects of language. 3. Students understood the grammatical elements which is helping them in constructing the sentences.



		Reading Literature (Optional-II & IV)	OPE-2	1. To introduce students to appropriate literary strategies to read literature. 2. To pinpoint how far literary language deviates from ordinary language. 3. To unravel many meanings in a literary text.	1. Students learnt the strategies to read literature. 2. They became aware of the difference between literary language and ordinary language.
B.A.II Third and Fourth Semester	Learning Language Skills-II (Comp)	CLE - 2	1. To introduce students to the grammatical properties in order to enable them to write and speak English. 2. To train them both in precision and appropriate use of language through prose reading. 3. To acquaint students with a keen and subtle way in which the English language is used. 4. To inculcate moral values among the students.	1. The students became proficient in communication. 2. Positive changes observed in their consciously.	
		Literature in English 1550-1750 (Optional-V & VII)	OPE-3	1. To introduce students to appropriate literary strategies to read	1. They learnt how to interpret literary texts 2. They became aware of the language used in literature and day to day



		Literature in English 1750-1900 (Optional-VI & VIII)	OPE-4	literature. 2. To pinpoint how far literary language deviates from ordinary language. 3. To unravel many meanings in a literary text.	communication 3. They can analyse the texts from various perspectives and get the meanings according to the contexts.
	B.A. Fifth & Sixth Semester	Twentieth Century English Literature	OPE-5	To make the students understand how the literature of modern period relates to the important trends of the period.	. They got acquainted with the literature of modern period and trends which were in vogue.
		Introduction to Literary Criticism and Terms	OPE-6	To make the students aware of the fact that all readers are critics and introduce them to basic texts in criticism while developing critical thinking in them.	Their critical thinking towards literary texts got strengthened after reading the critics of their syllabus.
		Indian Writing In English	OPE-7	To introduce the students to the genres, trends and thematic concerns in Indian Writing in English.	The students got acquainted with the genres, trends and thematic concerns in Indian Writing in English.
		Project Work on History of English Literature	OPE-8	To lead the students to write the project work on the topic assigned to them.	The students could write the projects on the topics assigned to them.



B. Com. (Comp.)	First and Second Semester	Written and Spoken Communication Skills in English	BCOM CLE-1	<ol style="list-style-type: none"> 1. To acquaint the students with basic components of grammar to enable them to become proficient in communication. 2. To make the students competent in Business Communication. 	<ol style="list-style-type: none"> 1. The students became proficient in communication. 2. The students became competent in Business Communication.
B.Com. (Comp.)	Third and Fourth Semester		BCOM CLE-2	<ol style="list-style-type: none"> 1. To introduce students to multi business communication skills for better employment. 2. To inspire students for enterprise through prose reading. 3. To strengthen students' writing skill through grammar. 	<ol style="list-style-type: none"> 1. Students are well acquainted with business communication skills. 2. Students are inspired by the success stories of the entrepreneurs. 3. Writing skill of the students is enhanced.
B.Sc. (Comp.)	First and Second Semester	Learning Language Skills-II (Comp)	CLE - 1	<ol style="list-style-type: none"> 1. To introduce students to the grammatical properties in order to enable them to write and speak English consciously. 2. To train them both in precision and in appropriate use of language through prose reading. 3. To acquaint students with a keen and subtle way in which the English language is used. 4. To inculcate the moral values among the students. 	<ol style="list-style-type: none"> 1. The students became proficient in communications 2. Positive changes observed in their behavior.



B.Sc. (Comp)	Third and Fourth Semester	Learning Language Skills-II (Comp)	CLE - 2	1. To introduce students to the grammatical properties in order to enable them to write and speak English. 2. To train them both in precision and appropriate use of language through prose reading. 3. To acquaint students with a keen and subtle way in which the English language is used. 4. To inculcate moral values among the students.	1. The students became proficient in communication. 2. Positive changes observed in their consciously.
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HEAD

Department of English

B.S.S. Arts, Science and Commerce College
Makani, Tq. Lohara, Dist. Osmanabad

Coordinator

B. Internal Quality Assurance Cell
Makani Tq. Lohara Dist. Osmanabad

PRINCIPAL

B.S.S. Arts, Science and Commerce College
Makani Tq. Lohara Dist. Osmanabad



Bharat Shikshan Sanstha's

Arts, Science And Commerce College Makani, Tq. Lohara Dist. Osmanabad

Internal Quality Assurance Cell (IQAC)

Evaluation of Attainment

Program Outcomes (POs)–Course Outcomes (COs) – Program Specific Outcomes (PSOs)

DEPARTMENT OF GEOGRAPHY

COs = Course Outcomes (Geography)

Name of the Course-Subject	Course Code	Objectives of the Course	Course Output
B.A.I. Geography	GEO-101 GEO-103	To Demonstrate and analyze knowledge of the facts, processes, and Methods of physical geography.	Students learn basic methods of physical geography.
B.A .I.	GEO-102 GEO-104	To Demonstrate and analyze knowledge of the facts, processes ,and methods of human geography and Regional geography of Maharashtra.	Students learn basic methods of human geography and regional geography.
B.A. I .	GEO-105	Students to go through laboratory exercises, particularly the techniques of drawing cartograms showing physical, climate and socio –economic attributes of a region . to achieve this objective , the concept of scale is to be understood at the initial stage.	Students learn basic methods of Practical geography .
B.A.II.	GEO-106 GEO-108	TO have better understanding about an over view of climatology and Oceanography.	They learn the changing position of climatology And oceanography.
B.A.II.	GEO-107	1. Biological attributes; human numbers, birth, death, sex, species, healthknowledge, etc. 2. Population distribution, density, andtheir affecting factors.	They got basic knowledge about biological attributes and characteristics of Indian population.
B.A .II.	GEO-109	1. To protect the historic pattern of settlement. 2. To reconnect settlement, residents and their supporting economic activity with the surrounding countryside.	Students studied & understood basic concept about settlement types & patterns.



B.A II.	GEO-110	Students to go through laboratory exercises, particularly the techniques of drawing cartograms showing weather instruments, graphs, map projection etc., attributes of a region . to achieve this objective , the concept of scale is to be understood at the initial stage	Students studied & understood basic concept about practical geography
B.A.III	GEO 111	Understands the basic of classification of physiographic landforms.	They learn the changing position of physiographic landforms.
B.A. III.	GEO-112	1. To cultivate a awareness among students and the public to conserve our environment. 2.To participate actively with various organization to prevent biodiversity loss	They realized the loss of environment due to industrialization.
B.A. III	GEO-113	To aid , counsel assist finance protect and promote the interests of the small scale industries in the state.	Students studied & understood basic concept industries
B.A.III	GEO-114	The students will be able to understand the importance to resources.	Students studied & understood basic concept about resources types.
B.A III.	GEO-115	The students will be able to understand the importance of agriculture in a India.	Students studied & understood basic concept about Agriculture types & patterns..
B.A III.	GEO -116	The students will be able to understand the differently natural calamities & hazards..	Students learn the differently natural calamities & hazards..
B.A III .	GEO -117	The students will be able to understand the importance of measures of central tendency, Deviation, correlation etc.	Students learn basic methods of Practical Geography.
B.A. III.	GEO-118	To relate knowledge and action through critical study of urban and regional planning theories.	Students studied & understood basic concept about settlement types & patterns.
B.A.III.	GEO-119	Is the study of the distribution of species and ecosystem in geographic?	They learn the changing position of Environment
B.A.III.	GEO-120	1. Introduction of instrumental survey2.representation of bearing.	Students learn basic methods of Practical Geography.

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B.S.S. Arts, Sci. & Com.College
Makani Tq.Lohara Dist.Osmanabad

PRINCIPAL

B.S.S. Arts,Science and Commerce College
Makni Tq. Lohara Dist. Osmanabad



B.S.S. Art's, Science & Commerce College, Makni.

Department of Hindi

CO= Course outcomes

Name of the Course-Subject	Sem ester	Name of the Course	Course Code	Course Output
B.A. Hindi (First Year)	I&II	Samanya Hindi (S.L.) P- I&II	H- S.L. 001 H- S.L. 002	1. Developing Reading, Writing, Speaking and Listening Skills. 2. Understand the origin of the Hindi language and its literature. 3. Understand the meaning, concept and importance of functional Hindi.
	I&II	Kathatmak Sahitya & Natak Sahitya (Opt. Hindi) P- I, II, III, IV	HIN 101 HIN 102 HIN 103 HIN 104	1. Understand the interrelation between Literature and Society. 2. Obtain the skills of Literary criticism 3. Develop the dramatisation and dramatization capabilities. 4. To Improve the Essay writing skills 5. Illustrating the nature of literary forms like one act play, travelogue and short story

B.A. (Second Year)	III & IV	1.Samanya Hindi (S.L.) P-III & IV	H- S.L. 003 H- S.L. 004	1. Introduce contemporary literary works. 2. Information about the various forms of media. 3. Information about the various forms of Hindi Literature 4. Acquire the skills of translation 5. Explain the need and significance of language. 6. Enhance the interest in Hindi Language 1. Understand the different flows of Hindi literature. 2. Relate prose Hindi literature with the countries environment. 3. Understand the role played by the poets of modern cult in literature and society. 4. To be able to develop the poem reading skills. 5. Understand various form of functional Hindi according to its area of application. 6. Understand the importance of translation.
		Optinal Hindi:- Kathetar Gadya Sahitya, Adhunik Hindi Kavita, Prayojanmulak Hindi-1, Prayojanmulak Hindi-2 P-V to VIII	HIN 105 HIN 106 HIN 107 HIN 108	
B.A. (Third Year)	V & VI	Optional Hindi: Regional Language literature (Marathi), Introduction to Medieval Hindi Poems, History of Hindi Literature, Hindi	HIN 109 HIN 110 HIN 111 HIN 112 HIN 113 HIN 114 HIN 115	1. Comparative study of Indian Languages. 2. Understand origin, nature and function of Indian Languages. 3. Inform about history of Hindi Literature 4. Develop various Language skills. 5. Understand various trends in Regional and rural Literature. 6. Understand project writing art. 7. Inform about criticism.



		SahityaShastra, Hindi Project work	HIN 116	8. Motivate for creative writing. 9. Understand the basis of classification of the Hindi literature. 10. Understand features of various periods in context of socio, cultural and political condition of the period.
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HOD.

Dr. M. A. Yellure

H.O.D. Hindi & Reasearch Guide
B.S.S. A.S.C. College, Makani
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Bharat Shikshan Sanstha's

BSS ART, SCIENCE AND COMMERCE COLLEGE, MAKNI, TQ. LOHARA.

Internal Quality Assurance Cell (IQAC)

Evaluation of Attainment

DEPARTMENT OF HISTORY

CO = Course outcome (Subject)

CO = Course outcome (Subject)

Course /Semester	Name of the Course	Course Code	Objective of the Course	Course Output
B. A - I First Semester	Shivaji And His Times(A.D.1630 – A.D.1707)	P –I	1.This course informs Students about political history of Chhatrapati Shivaji particular 2.Orients them to acquire proper understanding of Shivaji administration 3.Importance of his policies regarding agriculture ,trade and religion	1.Students got information about political history of chhatrapati shivaji Maharaj 2.Students understood the administration system of chhatrapati shivaji Maharaj 3.Students also information about Shivaji Maharajas policy regarding agriculture, trade and religion
	History of Modern Maharashtra (A.D. 1818 – A.D.1905)	P –II	1. The Course will inform student about the sources in 19 th century Maharashtra and the colonial policies and its impact on society. 2. This course will provide critical understanding of caste – class-gender linkages of social reform movements. 3. This course will give account of resistance to colonial rule. It will explain ideological, social dimensions of social reform and rise of various nationalistic conception in nineteenth century Maharashtra	1.Students got information about political, Social, Religious history of 19 th century Maharashtra 2.Students understood the administration system of British in India (Maharashtra) 3.Students also information about various nationalistic conception in nineteenth century
			1.This course students about 18th Century political development of India and	1.Students got information about the 18 th century political changes in



			characteristics of administration in Medieval Indian history	
B. A. II Fourth Semester	History of India(B.C.300 -A.D.650)	P- VII	1. The main objective of the course is impart knowledge and skills among students about polity, economy, society and culture of period during which the great empires were existing. 2. The course enables the students to develop a critical understanding about the history of the post the Mauryan period.	1.Students gradually acquire knowledge of political, economic, social and cultural the great empires 2. Students understood the about periods after Maurya period.
	History of Mughal India(A.D.15 26-A.D.1757)	P- VIII	1. This course introduces the theoretical concepts of medieval Indian history. 2. Student will get to know various sources and historiography of Medieval Indian history. 3. This course mainly focuses on new economic system introduced by rulers of medieval India. Student will get to know the new pattern of taxation, trade systems and monetary systems in medieval India . This course also discusses about State, agrarian economy, industries developed during this period.	1.Students gradually acquire knowledge of various sources and historiography of Medieval Indian history 2. Students understood the about periods. Political, economic, social and cultural the great empires in medieval Indian history.
B.A.III Fifth Semester	Historiography	P-IX	1.This course will orient students about the meaning, nature and scope of history and its interdisciplinary existence as knowledge field 2. This will also explain major historical tradition of India and will provide critical understanding of approaches to Indian history	1. Students got information about the meaning, nature and scope of history and inter-disciplines. 2. Students understood the Indian historical trades and approaches to Indian history
	History of Indian Freedom movement (A.D.1885- A.D.1947)	P-X	1. The course emphasizes upon the nature of Policy, society and culture in India prior and after the coming of the British Colonialism. It mainly emphasizes on the rule of the British East India Company rule in India and its impacts on Indian polity and society. 2. This course will engage	1.Students got information about the rule of the British East India Company rule in India and its impacts on Indian polity and society 2. Students understood the class, caste, community, gender aspects linked with



			various conception of Indian nationalism. 3. This course will analyse class, caste, community, gender aspects linked with nationalism and national movement.	nationalism and national movement.
	History of India (A.D.1757- A.D.1885)	P-XI	1.This course will orient student about the critical understanding of the nationalism 2.This course will orient students about the ideological and political trends of National movement in Maharashtra 3. The course emphasizes upon the nature of Policy, society and culture in India prior and after the coming of the British Colonialism. It mainly emphasizes on the rule of the British East India Company rule in India and its impacts on Indian polity and society.	1. Students get information about the National movement in Maharashtra 2. Students also learn the rule of the British East India Company rule in India and its impacts on Indian polity and society.
B.A.III Six Semester	Fields of History	P-XIII	1. This course will orient student about the archaeological sciences by giving outline of development of archaeology its methods, interpretation, dating and analysis of the artefacts. 2. This course will explain students the craft Museology by special study of the important excavated museum and Tourism also	1. Students get information about the development of archaeology and its procedures. 2. Students also learn the Museology and Tourism.
	Landmarks in the History of Modern World	P-XIV	1.The main objective of the course is to incapacitate the learners to critically analyse the nature and political discourses of the twentieth century world. 2. The emphasis is laid onto examine the trends in history during the first and second world war. 3. Along with the historical perspectives of the develop. Developing and underdeveloped nations are brought into light through the history of colonization and decolonization.	1. Students get information about the nature and political discourses of the twentieth century world. 2. Students also learn the first and second world war. 3 Students also learn the history of colonization and decolonization.



	Glimpses of the History of Marathwada (U.P. to A.D. 1948)	P-XV	<p>1. To introduce the geographical entity known as Marathwada as a study Unit which has own historical identity.</p> <p>2 To introduce the different features of various cultures and states, emerged and lasted in the area great river Godavari .</p> <p>3. To introduce the great legacy of region of Marathwada This course will inform students about the historiography of Hyderabad Freedom struggle and will explain the feudal nature, policies and politics under Nizam.</p>	<p>1. Students get information about the political, social & cultural policies of Nizam</p> <p>2. Students also learn the rule of the Nizam. Hyderabad Freedom struggle and will explain the feudal nature,</p>
B.A.III Five&Six Semester	PROJECT	P- XII & XVI	<p>1.This course will introduce students to a Historical topics projects</p> <p>2.it will train students in historical research method</p>	<p>1. Students get information about the Historical topics projects</p> <p>2. Students understood the about historical research method</p>

HEAD

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Head of the Department
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Principal

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B. S. S. ARTS, SCIENCE & COMMERCE COLLEGE, MAKANI

Internal Quality Assurance Cell (IQAC)

Evaluation of Attainment

Course Outcomes (Cos)

Department of Sociology

B. A. 2016-17 to 2020-21.



Course BA	Name of the Course- Subject	Course Code	Objectives of the Course	Course Output
BA-I Semester-I	Introduction to Sociology	BAS-01	1. Sociology is one the modern social science, which has a significant role in society. 2. This course is designed to study definition, subject matter, approach, principles, concepts, methods and history of sociology.	1. The students are aware of the importance of modern sociology in society. 2. The students have been acquainted with sociological concepts, approaches and historical background.
BA-I Semester-I	Individual and Society	BAS-02	1. TO changing the students attitude towards society – analysis 2. To study different Sections of society and the institutions and structural elements	1 The students attitude towards society –analysis has changed positively 2 The students have studied the different Sections of society and the institutions and structural elements



BA-I Semester-II	Introduction to sub fields of Sociology	BAS-03	<p>1. Students of sociology must have the knowledge of those branches to understand the scope of sociology.</p> <p>2. This will also help to carry interest in the sociology as general and its sub fields in particular.</p>	<p>1. The students are acquainted with the scope of sociology.</p> <p>2. The students have started taking interest in various branches of sociology.</p>
BA-I Semester-II	Indian Social Composition	BAS-04	<p>1. To acquaint the students of sociology with the basic segments of Indian social structure and its various dimensions</p> <p>2. To cover the broad segment of Indian Which are India's geographical, ethnic and religious distinctiveness</p>	<p>1. The students Understood the basic segments of Indian social structure and its various dimensions</p> <p>2. The students learnt the broad segment of Indian Society like geographical, ethnic and religious distinctiveness</p>
BA-II Semester-III	Problems of rural India	BAS-05	<p>1. A student of sociology must be aware about the changing scenario of rural India and the contemporary problems of rural development.</p>	<p>1. The students have started understanding the problems in rural India.</p>
BA-II Semester-III	Contemporary Urban Issues	BAS-06	<p>To enhance understanding and analytical capacity among students about urbanization, urban communities, urban planning and urban problems.</p>	<p>1 The students could expand the understanding capacity about urbanization, Urban problems and there planning.</p>
BA-II Semester-IV	Population in India	BAS-07	<p>1.The course designed to understand causes and consequences of population change</p> <p>2. The course designed to understand India which is second largest population in the world has its own features and characteristics.</p>	<p>1. The students realised the grave consequences of population change.</p> <p>2. The students realised the positive and negative effects of population in India.</p>




BA-II Semester-IV	Sociology of development	BAS - 08	To introduce the students many developmental issues in India.	1 The students got familiar with many developmental issues in India.
	Sociological tradition	BAS -09	<p>1.To provide the students with the understanding of historical socio –Economic and intellectual foresees in the rise of sociological Theory</p> <p>2. To provide the students with the basic Understanding of emergence of sociological thoughts and to know about pioneer sociologist with their contribution to sociology.</p>	<p>1. The Students understood the historical, socio-economic and intellectual forceps' in I the rise of sociological theory.</p> <p>2. The Students understood sociological thoughts and the contribution made by pioneer sociologist.</p>
BA-III Semester-V	Introduction to Research Methodology	BAS - 10	<p>1 To teach Research methodology to the students for their better understanding and its application in social sciences.</p> <p>2 To provide and equip the students with the procedures, tools and techniques of social research.</p>	The Students studied better understanding of Research Methodology and its application like tools and techniques of research in social sciences.
BA-III Semester-V	Social problems in India	BAS-11A	<p>1. To identify and analyse some of emerging social problems from sociological perspective.</p> <p>2. To sensitize the student about social problems of contemporary India to the measures on it.</p>	<p>1. The students understood social problems from sociological perspective.</p> <p>2.The students became aware of contemporary social problems in India and measures to eradicate them</p>
BA-III Semester-VI	Sociological Theories	BAS-13	1. To make the statement to understand basic theoretical approaches and develop their sociological thinking.	1. The students understood basic theoretical approaches and social thoughts.



	Social Research Methods	BAS-14	1 To acquaint the students with the primary technique and the use of social research 2 To make them familiar with computer operating system and statistical tools in social research.	1 The students understood a primary technique and the using the computers and statistical tools in social research.
	Social Disorganization in Contemporary India	SBAO-15A	1. To make aware the students regarding the disorganization occurring due to the rapid changes in Indian society.	1. The students are aware of the disorganization occurring due to the rapid changes in Indian society.


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B. S. S. ARTS, SCIENCE & COMMERCE COLLEGE, MAKANI

Internal Quality Assurance Cell (IQAC)

Evaluation of Attainment

Program outcomes,(POs) Program specific outcomes(PSOs) and course outcomes:(Cos)

Department of Political Science

POs = Program outcome

Name of the Program	Program Code	Objectives of the Program	Program Output
B A	Pol-Sci	<ul style="list-style-type: none">-The Students Should have a basic knowledge of Indian Political System, Global Politics, Issues and problem.- The Students should understand and able to work with the approaches and theories used by Political Thinkers to understand the Political Theory.- The Students should have the research skill for solving Rural & Urban Political problems.- The Students will acquire advanced knowledge of Research Methodology and Field Survey.	<ol style="list-style-type: none">1. The students are aware of the importance of Indian Constitution and Issues or problems of Indian Political System.2. The students have started taking interest in various Political theories of Indian and Western Thinkers.3. The students have started understanding the problems in rural & Urban India.4. The Students understood the Advanced knowledge of Research Methodology and doing Field Survey.

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Dept. pol-sci

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Internal Quality Assurance Cell (IQAC)

Evaluation of Attainment

Program outcomes,(POs) Program specific outcomes(PSOs) and course outcomes:(COs)

Department of Political Science

COs = Course outcomes



Course BA	Name of the Course- Subject	Course Code	Objectives of the Course	Course Output
BA-I Semester-I	Basic Concepts of Pol-Sci	Pol-101	1. Pol-Sci is one the modern social science, which has a significant role in Human Life. 2. This course is designed to study definition, subject matter, approach, principles, concepts, methods and history of Maharashtra Government and Politics.	1. The students are aware of the importance of Basic Concepts of Political Science. 2. The student have been acquainted with political concepts, approach's and historical background.
BA-I Semester-I	Govt. & Politics of Maharashtra	Pol- 102	1.To changing the students attitude towards Indian Political System.	1 The students attitude towards Indian Political System has changed positively
BA-I Semester-II	Basic Concepts of Pol-Sci	Pol-103	1. Students of Pol- Sci must have the knowledge of those branches to understand the scope of Pol-Sci. 2. This will also help to carry interest in the Pol-Sci as general and its sub fields in particular.	1. The students are become aware about Political Thinkar. 2. The students have started taking interest in various branches of Pol-Sci.

BA-I Semester-II	Govt. & Politics of Maharashtra	Pol-104	<p>1 To acquaint the students of Pol-Sci with the basic segments of Indian structure and its various dimensions</p> <p>2 To cover the broad segment of Indian Which ar Indias geographical, ethnic and religious distinctiveness</p>	<p>1 The students Understood the basic segments of Indian social structure and its various dimensions</p> <p>2 The students learnt the broad segment of Indian Society like geographical, ethnic and religious distinctiveness</p>
BA-II Semester-III	Indian Political System.	Pol-105	1. A student of Pol-Sci must be aware about the changing scenario of Indian Political System and the contemporary problems of Indian Political System.	1. The students have started understanding the problems Indian Political System
BA-II Semester-III	International Relation	Pol-106	. To study International Relation of the state and the institutions and structural elements of International organization	2 The students have International Relation of the state and the institutions and structural elements of International organization planning.
BA-II Semester-IV	Indian Political System	Pol-107	<p>1. The course designed to understand causes and consequences of Indian Constitution</p> <p>2. The course designed to understand India Political System features and characteristics.</p>	<p>1. The students realised the grave consequences of population change.</p> <p>2. The students realised the positive and negative effects of Indian Political System of India.</p>
BA-II Semester-IV	International Relation	Pol-108	To introduce to students many developmental issues Related to International Politics , International	1 The students got many developmental issues Related to International Politics , International Relation , Orgnaization and United Nation (UNO)

			Relation & Orgnaization .	
BA-III Semester-V	Modern Indian Political Thinkers	Pol-109	<p>1 To teach Indian Political Thinkers to the students for their better understanding and its application in social sciences.</p> <p>2 To create awareness among the student about Indian Political Thinker and Ideology .</p>	1 The Students studied better understanding of teach Indian Political Thinkers and its application like tools and techniques of research in social sciences.
BA-III Semester-V	Western Political Thinkers	Pol-110	1. To identify and analyse some of emerging social problems from sociological perspective.	1. The students understood Political problems from Socio-Political perspective.
	Political Idiealogy	Pol-111	1. To create awareness among the student about Indian Political Thinker and Ideology.	1.The students became aware of contemporary socio-Political problems in India and measures to eradicate them
BA-III Semester-VI	Modern Indian Political Thinkers	Pol-112	1. To make the statement to understand basic theoretical approaches and develop their sociological thinking.	1. The students understood basic theoretical approaches and social thoughts.

Western Political Thinkers	Pol-113	1. To identify and analyse some of emerging social problems from sociological perspective.	1. The students understood Political problems from Socio-Political perspective.
Political Ideology	Pol-114	1. To create awareness among the student about Indian & Western Political Thinker and Ideology.	1. The students became aware of contemporary socio-Political problems in India and measures to eradicate them
Project Work	Pol-115	1 To acquaint the students with the primary technique and the use of social research 2 To make them familiar with computer operating system and statistical tools in social research.	1 The students understood a primary technique and the using the computers and statistical tools in social research.



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B1. Course Outcomes of all Programmes Offered by the Department**Name of the Programme : B.Sc. Botany**

Sl. No.	Name of the Course	Course Code	Program Specific Outcomes
1	Diversity of Cryptogams - I	BOT 101	1 The students will be able to understand the structure and reproduction of certain selected algae, fungi and bryophytes.
			2 learn about the importance of the plant diversity.
			3 they will know the economic values of this lower group of plant community.
2	Morphology of Angiosperms	BOT 102	1 The Students will understand various Angiosperm plant habits.
			2 Learn about vegetative and reproductive structural features of Angiosperms.
			3 Understand various modifications and its purpose in plant parts.
			4 Comprehend the concepts of plant taxonomy and classification of Angiosperms.
			5 Learn about various Angiosperm families and its economic value.
3	Diversity of Cryptogams - II	BOT 201	1 The students will learn about the structure and reproduction of certain selected species of cryptogams.
			2 learn few representatives of cryptogams.
4	Histology, Anatomy and Embryology	BOT 202	1 The students will learn about the basic concepts in anatomy.
			2. understand the structure of various tissues and their functions.
			3 understand the various components of stem and wood during its secondary growth.
			4 be enlightened about the mechanism of pollination and basic structure of the embryo.

Sl. No.	Name of the Course	Course Code	Program Specific Outcomes
5	Taxonomy of Angiosperms	BOT 301	1 learn about the various angiospermic plants
			2 understand the fundamental concepts of Angiosperms.
			3. The students are enabled to understand the plant reproduction organs of flowering plants
			4. will understand evolutionary trends among non flowering plants
6	Plant Ecology	BOT 302	1 The students will understand the basic concepts of general ecology and environment.
			2. learn about the analyse and basic principles of ecology
			3. understand the importance of ecology and conservation
7	Gymnosperms and Utilization of plants	BOT 401	1 The students will learn about the structure and reproduction of certain selected species of Gymnosperms
			2. students will understand the basic information Utilization of Plants,
8	Plant Physiology	BOT 402	1 The Students will learn about absorption, translocation and utilization of water and other minerals.
			2. know about the basic principles of plant function, metabolism, secondary products, cell physiology & principles of growth & development
9	Cell Biology and Molecular Biology	BOT 501	1 The students will be able to learn about the basics of cell and its inclusions
			2 The students will learn about the basic concept, technical skills, hands-on experience and training in molecular biology.

			3. to understand the difference between prokaryotic and eukaryotic cells.
10	Diversity of Angiosperms - I	BOT 502	1 The student will understand how to analyse the basic concepts, methods, scopes, classifications, characterization of Angiosperms.
			2 Understand the importance of Angiosperms.
			3 The students are able to understand about Plant taxonomy and their systematic classification systems
11	Genetics and Biotechnology	BOT 601	1 understand the basic concepts of mendelian genetics, its variations and applications
			2. The students will understand the basic concepts of molecular biology, genetic engineering and Plant tissue culture and its applications.
			3. Learn about the basic concept of somatic Embryogenesis.
12	Diversity of Angiosperms - II	BOT 602	1 The students will understand the fundamental aspects of Angiosperms involving the principles, achievements.
			2 students will understand the various Angiosperm plant.


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INTERNAL QUALITY ASSURANCE CELL (IQAC)

Program Outcomes (POs), Course Outcomes (COs), Program Specific Outcomes (PSOs)

Department of Chemistry

Course Outcomes (Cos)

Name of the Course Subject	Course Code	Name of the Course	Objective of the Course	Course Output
B.Sc. (Sem-I) Chemistry, Paper-I (Inorganic Chemistry)	CHEM-1	Inorganic Chemistry	<p>The students are expected</p> <ul style="list-style-type: none">• To offer a broad view on the fundamental atomic structure• To understand periodic properties & their trends• To learn Chemistry of S-block elements• To learn Chemistry of P-block elements	<p>After completion of syllabus students will be able to understand following outcomes</p> <ul style="list-style-type: none">• To impart knowledge of atomic structure, different theories of atomic structure, rules of electronic configuration and quantum numbers.• Students learn some exceptional electronic configuration, trends and Periodicity in the following properties like atomic size, ionization energy, electron affinity & electronegativity• Students will be able to predict properties of different S-Block elements• Students will be able to predict properties of different P-Block elements
B.Sc. (Sem-I) Chemistry, Paper-II (Organic Chemistry)	CHEM-2	Organic Chemistry	<p>The students are expected</p> <ul style="list-style-type: none">• To learn concepts of structure and bonding and different effects.• To understand basic concepts of reaction mechanism and	<ul style="list-style-type: none">• Students will learn and apply the concepts of structure and bonding and different effects.• Students will be able to apply the knowledge of reaction mechanism and stereochemistry. Recognize stereochemistry and be able to apply and draw the



			<p>Stereochemistry.</p> <ul style="list-style-type: none"> • To learn and recognize properties, reactions and applications of Alkane, Alkene, Alkyl and aryl halides. • To understand and apply the knowledge of different aspects of arenes and aromaticity. 	<p>Cahn-Ingold-Prelog system to designation of stereochemistry (E/Z and R/S).</p> <ul style="list-style-type: none"> • Draw products and reaction mechanisms for many reactions including all Alkanes, Alkenes, Alkyl and aryl halides. • Understand the fundamentals of arenes and aromaticity and able to apply to the various structure and reactions.
B.Sc. (Sem-I) Chemistry, Lab Course-I Paper-III	CHEM-3	Inorganic+ Physical Chemistry Practical	<ul style="list-style-type: none"> • To handle skillfully and understand the various instruments like Eudiometer, Viscometer, Spectrophotometer and Stalagmeter • To learn fundamentals of reaction kinetics (Ester Hydrolysis) • To perform and able to determine Normality and strength of Oxalic acid and KMnO_4 by Volumetric Analysis. • To analyze given Inorganic salt systematically and learn all reactions associated with it, detecting acidic and basic radicals. 	<ul style="list-style-type: none"> • Understand and be able to use the basic operations of instruments including Eudiometer, Viscometer, Spectrophotometer and Stalagmeter and the theories behind these techniques. • Calculates kinetic parameters and explain the reaction kinetics of ester hydrolysis. • Determines Normality and strength of Oxalic acid and KMnO_4 by Volumetric Analysis with its theory. • Identifies systematically unknown Inorganic compounds using a semimicro qualitative methods (including Two acidic and two basic radicals)
B.Sc. (Sem-II) Chemistry, Paper-IV (Physical Chemistry)	CHEM-4	Physical Chemistry	<ul style="list-style-type: none"> • To solve and understand mathematical problems (with systematic operation) based on log relation, differentiation of different function, maxima, minima and partial differentiation. • To learn kinetic gas equation, different gas laws, critical phenomenon, PV isotherm of gases state. • To understand the various aspects of reaction kinetics like different orders, 	<ul style="list-style-type: none"> • Be able to solve and understand mathematical problems related with syllabus by paper exercises. • Student becomes familiar with concepts of gaseous state. • Understand and able to determine order, molecularity, rate constant, half-life and solve the exercises of the chemical kinetics as well as concepts of catalysis. • Students will develop better

			<p>molecularity with derivations, effect of temp. on rate and catalysis.</p> <ul style="list-style-type: none"> • To study structure of liquids, Difference between solids, liquids and gases, Liquid Crystals and its types. • To discuss and understand solids and its type, Miller Indices, Laws of crystallography, X-ray diffraction by crystals, Derivation of Bragg equation. • The students are expected to apply and understand Colloids, Solids in liquids (sols), Liquids in liquids (emulsions), Liquids in Solids (gels), applications of colloids. 	<p>understanding of the solid, liquid and gases and its properties, behind everyday observations.</p> <ul style="list-style-type: none"> • Understand the fundamentals of Miller Indices-ray diffraction, Bragg equation and be able to apply for various examples. • Students will be able to depict and explain detailed concept of sol, emulsions, gels and its applications.
B.Sc. (Sem-II) Chemistry, Paper-V (Physical Chemistry)	CHEM-5	Inorganic Chemistry	<p>The students are expected</p> <ul style="list-style-type: none"> • To learn chemistry of Noble gases • To understand basic concepts of Chemical Bonding • To understand basic concepts of Nuclear Chemistry • To understand the basics of volumetric analysis 	<ul style="list-style-type: none"> • To understand the inert gases forms compounds, different fluoride compounds of xenon • Students will be able to explain & apply different theories of Chemical bonding • Students will be able to explain stability of different nuclei • Students will be able to apply basic principles of volumetric analysis
B.Sc. (Sem-II) Chemistry, Lab Course-II Paper-VI	CHEM-6	Organic+ Chemistry Practical	<ul style="list-style-type: none"> • To Perform and understand systematic qualitative analysis of given organic compounds. • To estimate accurately the basicity of given acid. • To perform and learn estimation of phenol by bromination. 	<ul style="list-style-type: none"> • To study biotic (living), mesobiotic and abiotic (non-living and environmental) causes of diseases or disorders • To study the mechanisms of disease development by pathogens
B.Sc. (Sem-III) Chemistry, Paper-VII	CHEM-7	Organic Chemistry	<p>The students are expected</p> <ul style="list-style-type: none"> • To learn structure, bonding, preparation, properties & 	<ul style="list-style-type: none"> • Student should understand the phenols and synthesis of phenols • To know the concepts of

(Organic Chemistry)			<p>applications of Alcohols</p> <ul style="list-style-type: none"> • To learn structure, bonding, preparation, properties & applications of Phenols • To learn structure, bonding, preparation, properties & applications of Aldehydes & Ketones • To learn structure, bonding, preparation, properties & applications of Carboxylic acids • To learn structure, bonding, preparation, properties & applications of Compounds containing Nitrogen 	<p>carboxylic acids and their derivatives.</p> <ul style="list-style-type: none"> • To know about the types of alcohols and reaction • To know the concepts of Aldehydes & Ketones • To know the concepts of Amines, Nitro compounds, Amides, Nitriles
B.Sc. (Sem-III) Chemistry, Paper-VIII (Physical Chemistry)	CHEM-8	Physical Chemistry	<p>The students are expected</p> <ul style="list-style-type: none"> • To learn basics of thermodynamics involving systems, processes, First law etc • To learn basics of thermodynamics involving Second Law, Carnots cycle etc • To learn basics of Chemical equilibrium involving factors affecting equilibrium, Le chatleirs principle etc 	<ul style="list-style-type: none"> • Understand statements of first, second and third law of thermodynamics • Understand concept of entropy. • Solve the numerical problems based on thermodynamics • Understand Law of mass action, Le chatleirs principle, Clausis Claperyon equation
B.Sc. (Sem-III) Chemistry, Lab course-III Paper-IX (Physical + Inorganic Chemistry)	CHEM-9	Physical + Inorganic Chemistry	<ul style="list-style-type: none"> • To determine CST of phenol water system. • To determine solubility of benzoic acids at different temps. • To determine molecular mass of polymer • To determine rate constant of a reaction • To estimate Ni, Zn, Ba & volumetrically 	<ul style="list-style-type: none"> • Understand and be able to use the basics involved in gravimetric & volumetric analysis • Understand and be able to use the basics of viscometer • Study the effect of solute on CST of phenol-water system. • Separations of elements from each other & analysis by volumetric method. • Study the effect of solute on solubility of Benzoic acid

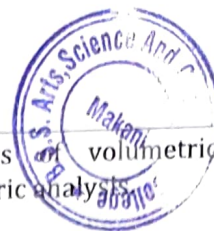




B.Sc. (Sem-IV) Chemistry, Paper-X (Inorganic Chemistry)	CHEM- 10	Inorganic Chemistry	<p>The students are expected</p> <ul style="list-style-type: none"> • To learn position, electronic configuration & periodic trends of First transition series elements • To learn structure, bonding, stability & properties coordination compounds • To learn different concepts of acids & bases • To learn position, electronic configuration & periodic trends of Lanthanides & Actinides • Students recognized the importance of solvents in chemical reactions. 	<ul style="list-style-type: none"> • Know the Classification, Properties of Aqueous solvents • Understand the Characteristics of f-Block Elements. • Know the P^H, P^{OH}, PK_a, Buffer action • Understand the Characteristics of Coordination compounds • Understand the basic principle and application of coordination complexes • Understand the Characteristics of first transition series Elements.
B.Sc. (Sem-IV) Chemistry, Paper-XI (Physical Chemistry)	CHEM- 11	Physical Chemistry	<ul style="list-style-type: none"> • The courses provide adequate knowledge about electrolytes, conductance, statements, laws, conductometric titrations and its advantages. • The course also provides adequate knowledge on the basis of concept of Electrochemistry • The course also provides adequate knowledge on the basis of concept of Phase Equilibria 	<ul style="list-style-type: none"> • Basic concepts of electrochemistry and its applications; to know the terms cell constant, specific conductivity, equivalent conductivity and molar conductivity. • Know the applications of Kohlrausch's law. • Know the applications of Raoult's law. • To solve numerical on emf • Know the meaning of phase, component and degree of freedom.
B.Sc. (Sem-IV) Chemistry, Lab course- IV Paper-XII	CHEM- 12	Physical + Organic Chemistry	<ul style="list-style-type: none"> • Gain the practical knowledge for volumetric analysis • Gain the practical knowledge for conductometry, PII-metry & colorimetry • Taught to do the quantitative analysis by organic estimations 	<ul style="list-style-type: none"> • Basics of volumetric analysis. • Basics of Lambert Beer Law • Basics of Conductance • Learn about organic preparations & estimations



<p>B.Sc. (Sem-V) Chemistry, Paper-XIII (Physical Chemistry)</p>	<p>CHEM- 13</p>	<p>Physical Chemistry</p>	<ul style="list-style-type: none"> • To enable the students to acquire basic knowledge in Spectroscopy, Elementary quantum mechanics, Photochemistry • To acquire basic knowledge in Spectroscopy • To enable the students to acquire basic knowledge in Nano materials • To learn the relation between physical properties & molecular structure • The course also provides adequate knowledge on the basis of concept of photochemistry. 	<ul style="list-style-type: none"> • Understand the concepts of molecular Spectroscopy and its applications • Compare between thermal and photochemical reactions. • Discuss different types of photochemical process. • Discuss different types of laws of photochemistry • To stimulate the learner in understanding the basic concepts and applications of nanotechnology
<p>B.Sc. (Sem-V) Chemistry, Paper-XIV (Organic Chemistry)</p>	<p>CHEM- 14</p>	<p>Organic Chemistry</p>	<ul style="list-style-type: none"> • To familiarize concept and elucidate the structure of organic molecules by PMR Spectroscopy. • Student develops the primary knowledge about organometallic compounds and their applications. • Students are recognizable with oils, fats, soaps and detergents used in day today life • To enable the students to acquire basic knowledge in synthesis via enolates 	<ul style="list-style-type: none"> • Learn the basic principle and terms used in UV, IR & NMR Spectroscopy. • Apply spectroscopic techniques in analyzing the structure of simple organic molecules. • Explain the Nomenclature, classification and application of Organometallic Compounds. Know the Synthesis, and Reactions of Organometallic compounds. • Gathering basic knowledge of Oils, Fats, Soaps and Detergents • Learn the basic principle involved in organic synthesis via enolates
<p>B.Sc. (Sem-IV) Chemistry, Lab course-V Paper-XV (Organic + Inorganic Chemistry)</p>	<p>CHEM- 15</p>	<p>Organic + Inorganic Chemistry</p>	<ul style="list-style-type: none"> • To separate binary organic mixture & identification of both components • To learn inorganic qualitative analysis (Semi-Micro Analysis) • To separate binary mixture 	<ul style="list-style-type: none"> • Learn fundamentals of organic qualitative analysis. • Learn about inorganic estimations • Learn about inorganic qualitative analysis



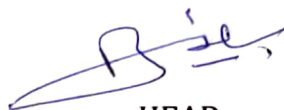
			& estimate Ca/Cu volumetrically and Ba/Ni gravimetrically	<ul style="list-style-type: none"> Basics of volumetric and gravimetric analysis
B.Sc. (Sem-VI) Chemistry, Paper-XVI (Inorganic Chemistry)	CHEM-16	Inorganic Chemistry	<ul style="list-style-type: none"> To learn the VBT, CFT theories of coordination compounds To learn Co-ordination theory and Electronic Spectra of transition Metal Complexes Student develops the primary knowledge about organometallic compounds and their applications To trained the thin layer chromatography techniques To learn Bioinorganic Chemistry 	<ul style="list-style-type: none"> To learn the nature of Metal-Ligand bond by VBT, CFT theories To learn types of electronic transitions, selection rule, spectrochemical series & Orgel diagrams Postulates and limitations of VBT and CFT, Calculation of CFSE for Tetrahedral and Octahedral Complexes Know the Synthesis, and Reactions of Organometallic compounds. Learn basics of thin layer chromatography Learn role of alkali & alkaline metals & other metals in biological process
B.Sc. (Sem-VI) Chemistry, Paper-XVII (Organic Chemistry)	CHEM-17	Organic Chemistry	<ul style="list-style-type: none"> To study the basic concepts about the carbohydrates especially with glucose To understand reaction mechanism in organic Heterocyclic synthesis. To learn theories and principles related to heterocyclic chemistry. To Understand Classification and structure Activity and relationship of some drugs and dyes To understand the concept of polymers & its applications 	<ul style="list-style-type: none"> Know the Classification, and Reactions of carbohydrates. After completion of this course, student will be able to Organic reaction and mechanism pathways. Nomenclature of various heterocycles Recognize and comment on different synthetic drugs and dyes Acquire the basic knowledge and synthesis of polymers.
B.Sc. (Sem-IV) Chemistry, Lab course-VI Paper-XVIII	CHEM-18	Organic + Physical Chemistry	<ul style="list-style-type: none"> Aims of the laboratory course is to create awareness among the students to gain skills of measurement of physical properties like EMF, conductance, pH, refractive 	<ul style="list-style-type: none"> Calculate normality and strength of the solution using potentiometer and conductivity meter. Verify Lamberts-Beer's law



(Organic + Physical Chemistry)		<p>index using instruments.</p> <ul style="list-style-type: none">• To learn interfacial tension, solubility of benzoic acid & free energy change• To understand the basics of organic estimations, Organic preparation & purity of the product	<p>colorimetrically and determine unknown concentration of the solution.</p> <ul style="list-style-type: none">• To measure interfacial tension between two immiscible liquids, effect of NaCl on solubility of benzoic acid & standard free energy change of a reaction• Learn fundamentals of organic preparations & estimations
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Internal Quality Assurance Cell (IQAC)

Evaluation of Attainment

Course Outcomes (COs)

Course Outcomes (Mathematics)

- 1) Students are able to develop specific skills for solving problem.
- 2) Students are trained on abstract concepts, analysis, deductive techniques.
- 3) Students are prepared for demonstrating the acquired knowledge.
- 4) Students encouraged developing skills for developing innovative ideas.
- 5) Students are able to apply their skills and knowledge that is translate information presented verbally into mathematical form select and use appropriate mathematical formulae or techniques in order to process the information and draw the relevant conclusion.
- 6) Students get adequate exposure to global and local concerns that explore them many aspects of mathematical sciences.

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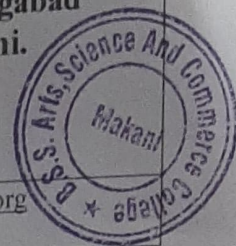
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Dr. Babasaheb Ambedkar Marathawad University, Aurangabad
B. S. S. Arts, Science and Commerce College, Makni.
Tq: Lohara Dist: Osmanabad
Department of Physics

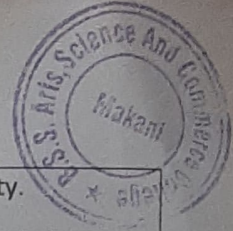


Email :-atulbirajdar52@gmail.com

College Website :- www.bsscm.org

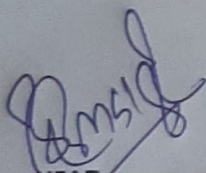
Course Outcomes (CO)

Name of Class	Semester	Course name	Course Code	Objectives of course	Course outcomes
B.Sc. I	I	Mechanics, properties of matter and Sound	Phy-101	1.Study the behaviour and working of torsional pendulum. 2.Study of bending behaviour beams and analyse the expression for young's modulus. 3.Understand the surface tension and viscosity of fluid. 4.Analyse waves and oscillations. 5.Study the basic properties and production of ultasonics by different methods.	Understand the basic concepts of methodology of science and the fundamentals of mechanics, properties of matter and sound.
		Heat and Thermodynamics	Phy-102	1. Study the theories of transference of heat. 2. Study the behavior of gases. 3. Study the second law of thermodynamics. 4. Understand the applications of Maxwell's relations.	Understand and analyze the feature of heat and thermodynamics.
	II	Geometrical and Physical Optics	Phy-104	1.Understand the natural behavior of aberration in lens. 2. Study the theory and experimental past of diffraction by Fresnel and fraunhofer methods. 3. Study the theories for production of polarization of light.	Understand and analyze the feature of geomaetrical and physical optics.
		Electricity & magnetism	Phy-105	1. Understand the dot, cross, vector triple product. 2. Proof the Gauss's Law. 3. Understand the magneticinduction on the axis of solenoid. 4. Understand the circuit of growth and decay of current L, R and LCR.	Understand and analyze the feature of electricity and magnetism.
B.Sc. II	III	Mathematical, Statistical Physics	Phy-201	1. Understand and calculate the differentiation and ordinary differential equation. 2. Understand and calculate the	Understand and analyze the feature of mathematical, statistical and

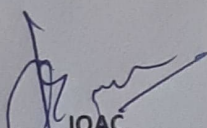


		and Relativity		probability and Maxwell-Boltzmann energy distribution law. 3. Understand the Bose-Einstein , Planck's radiation and Fermi-Dirac distribution law. 4. Understand the negative result of Michelson morley experiment, Galilean and Lorentz transformation.	relativity.
		Modern & nuclear physics	Phy-202	1. Understand the value of 'h' by photo cell. 2. Understand the properties of X-rays verification. 3. Analyse the ideas of basics of nucleus and their energy. 4. Perform the procedures for nuclear fission and fusion.	Understand and analyze the feature of modern & nuclear physics.
	IV	General Electronics	Phy-206	1. Study of CE, CB configuration. 2. Design the circuit of Op-Amp adder/ subtractor and Wien Bridge Oscillator. 3. Understand the Hall effect, voltage and coefficient. 4. Understand the Einstein's theory of Latticeheat Capacity.	Understand the basic concepts of general electronics.
		Solid State Physics	Phy-207	1. Understand the type of lattices. 2. Understanding the bonding and Band theory of solids. 3. Understanding the thermal properties of solids. 4. Understand the free electron theory of metals and Transport properties.	Understand the basic aspects of crystallography in solid state physic.
B.Sc. III	V	Classical & Quantum Mechanics	Phy-301	1. Understand the D'Alembert's principle and Lagrange's equation. 2. Analyses thermal conductivity and black body radiation. 3. Understand the de-broglies hypothesis & Heiseberg Uncertainty Principle. 4. Understand the Schrodinger equation.	Understand the basic caspects of classical & Quantum Mechanics.
		Electrodyn amics	Phy-302	1. Understand the Gauss law & Laplaces equation. 2. Understand the Fraday's Law & Lenz's Law. 3. Understand the polarization of electromagnetic waves. 4. Understand the reflaction and refraction at the boundary of two non conducting media.	Understand the basic concepts of electrodynamics.

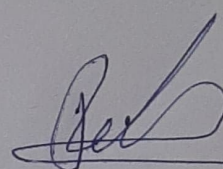
VI	Atomic, Molecular Physics & Laser	Phy-305	<p>1. Understand the properties of positive rays, experimental proof by frank and hertz method.</p> <p>2. Analyse the relationship between various types of couplings.</p> <p>3. Analysis the ideas of basics of nucleus and their energy.</p> <p>4. Perform the procedures for nuclear fission and fusion.</p> <p>5. Understand the basic principle of laser and characterisitcs.</p>	Understand the basic aspects of atomic, Molecular physics and laser.
	Non- Conventio nal energy sources & optical fiber	Phy-306	<p>1. Understand the different energy sources.</p> <p>2. Understand the solar photovoltaic systems.</p> <p>3. Analysis the different optical fiber.</p> <p>4. Analysis the Fiber fabrication and fiber cables.</p>	Understand the basic aspects non-conventional energy sources and energy sources & optical fiber.


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COs=Course Outcomes (Subject) 2019-20



Name of the Course-Subject	Semester	Course Code	Name of the course	Objectives of the Course	Course Output
B.Sc. Zoology	I	ZOL101	Protozoa to Annelida (Paper-I)	1. To understand the animal kingdom 2. To understand the taxonomic position of protozoa to Annelida. 3. To understand the general characters of animals belong to Protozoa to Annelida. 4. To understand the body organization of the respective phyla.	1. Students should be able to describe unique characters of protozoa, porifera, coelenterate, helminths, and Annelida. 2. Students should be able to recognize the life functions of the said phyla. 3. Student may know ecological role of Phylum Protozoa to Annelida.
		ZOL102	Cell biology (Paper-II)	1. To understand the structure of prokaryotic and Eukaryotic cells. 2. It deals with use of component to generate energy in the cell. 3. To understand Mitotic cell division. 4. To know about mutation.	1. Able to the function and composition of plasma membrane. 2. Able to differentiate pro and Eukaryotes. 3. To know about importance of nucleus and of her components. 4. To know the role of endoplasmic reticulum.
		ZOL103	Practicals Paper-III	To know various types of practicals	Students obtain practical knowledge

	II	ZOL 201	Arthropoda to Protochordata (Paper-IV)	<p>1.To understand the animal kingdom.</p> <p>2.To understand the taxonomic position of arthropoda to protochordata.</p> <p>3.To understand the general characters and morphology.</p> <p>4.To understand the different systems in arthropoda to protochordata.</p>		<p>1. Students should be able to describe unique characters of arthropoda to protochordata.</p> <p>2. Students are able to recognise life function of arthropoda to protochordata.</p> <p>3.To recognize the diversity from arthropoda to protochordata.</p>
	II	ZOL 202	Genetics-I (paper-V)	<p>1. To understand chromosomes during mitosis and explain Mendel's laws of heredity.</p> <p>2. Study deals with gene</p>		<p>1. Comprehensive detail for understanding of the chemical basis of heredity.</p> <p>2. Understanding about genetics.</p> <p>3. The ability to</p>
		ZOL203	Practicals (Paper-VI)	<p>interaction.</p> <p>3.To understand mutation</p> <p>To know various types of practicals.</p>		<p>understand the results and genetic experimentation in animals.</p> <p>Students obtain practical knowledge</p>

	III	ZOL301	Chordate Zoology Paper-VII	<p>1.To understand about Chordates.</p> <p>2.To understand categories of chordates.</p> <p>3.To study general charecters of chordates.</p>		<p>1. Students should be able to describe unique characters of Pisces to mammals.</p> <p>2. It gives rise to the ecological role of different group of chordates.</p> <p>3. To understand the diversity of chordates.</p>
	III	ZOL302	.Genetics-II Paper-VIII	<p>1. Describe the basic aspects of the flow of genetic information from DNA to proteins.</p> <p>...2.To Successfully complete this course, student smust achieve a passing grade.</p> <p>3. his course introduces the principles of population, evolutionary and quantitative genetics</p>		<p>1. As important as they were, the techniques of transmission genetics and cytology were not enough to help scientists understand human genetic variation.</p> <p>2. Learn About Human Genetics - Disease Inheritance, Genome Sequencing.</p> <p>3. We use DNA routinely to cure diseases, solve crimes, and reunite families</p>
	III	ZOL 303,304	Practical Paper-IX,X	To know various types of practicals		Students obtain practical knowledge
	IV	ZOL 401	Animal physiology	1.To understand metabolic activities in		1.Students are able to understand the physiology at

			XI	<p>Mammalian body.</p> <p>2. To understand the processes of digestion, respiration and respiration.</p> <p>3. To understand the mechanism of nerves coordination.</p>		<p>Cellular and system level.</p> <p>2. The students are able to know the role and function of different systems.</p> <p>3. The students may also be able to describe physiology of respiratory and renal and reproductive system.</p>
		ZOL402	XII Biochemistry and endocrinology	<p>1. Biochemistry is the study of biological phenomena at the molecular level.</p> <p>2. its aim is to understand the fundamental chemical principles that govern complex biological systems.</p> <p>3. These courses prepare students to participate in independent research</p>		<p>1. Understanding biochemistry is an excellent foundation for learning all of biology, but it can be difficult to make sense of the complexity of biochemical systems.</p> <p>2. Biochemistry is the core of medicine; healthcare providers rely on an understanding of biochemistry in most of their routine tasks.</p>
		ZOL403	Practical p-XIII	To know various types of practicals		Students obtain practical knowledge
		ZOL404	Practical p-XIV	To know various types of practicals		Students obtain practical knowledge
		ZOL501	Ecology p-XV	<p>1. To describe the interaction between organism and environment.</p> <p>2. To understand the exchange of nutrients within</p>		<p>1. Students are able to describe the relation between abiotic and biotic factors.</p> <p>2. Students may know the change in population which</p>

				<p>The ecosystem.</p> <p>3. To describe the population dynamics.</p> <p>4. To understand community.</p> <p>5. To understand Annual completion.</p>		Affect the ecosystem.
		ZOL502	<p>Fishery Science-I</p> <p>p-XVI</p>	<p>1. In the management of commercial marine fisheries, a variety of technical advisors along with industry and public participants interact with a decision-making entity which establishes fishery regulation intended to achieve specified objectives.</p> <p>2. Of particular interest is the advisory process which should provide impartial scientific analyses of the consequences of alternative controlling actions.</p> <p>3. To understand the process, we first examined the objectives of management, especially the biological objectives,</p>		

				<p>which we thought could be defined unequivocally, whereas social welfare objectives, being heavily loaded with values, would be more controversial. But it soon became apparent that biology imposed constraints rather than inspiring objectives.</p> <p>4. Fisheries were managed to obtain social, not biological, benefits, although the magnitude of the benefits, both now and in the future, was constrained by the continuing productivity of the resource.</p>		
		ZOL503	Practical p-XVII	To know various types of practicals		Students obtain practical knowledge
		ZOL504	p-XVIII	To know various types of practicals		Students obtain practical knowledge
		ZOL601	Evolution p-XIV	<p>1. To describe the Darwinism</p> <p>2. To understand the evolution of species.</p> <p>3. To understand the role of environmental factor.</p> <p>4. To understand the micro, mega and macro evolution..</p>		<p>1. Students are able to describe evolutionary history of man.</p> <p>2. Students may also describe the origin of species on earth.</p>


		ZOL602	Fishery Science-II	<p>1. In the management of commercial marine fisheries, a variety of technical advisors along with industry and public participants interact with a decision-making entity which establishes fishery regulations intended to achieve specified objectives.</p> <p>2. Of particular interest is the advisory process which should provide impartial scientific analyses of the consequences of alternative controlling actions.</p> <p>3. To understand the process, we first examined the objectives of management, especially the biological objectives, which we thought could be defined unequivocally, whereas social welfare objectives, being heavily</p>		<p>1. Understand critical issues in marine pollution, particularly in the context of sustainable fisheries management</p> <p>2. Explain and argue the pros and cons of current governmental approaches in overcoming the issues</p> <p>3. Analyse and identify the critical success factor in sustainable fisheries management; in relation to marine pollution</p>
				<p>loaded with values, would be more controversial. But it soon became apparent that biology imposed constraints rather than inspiring objectives.</p> <p>4. Fisheries were managed to obtain social, not biological, benefits, although the magnitude of the benefits, both now and in the future, was constrained by the continuing productivity of their source.</p>		
		ZOL603	Practical p-XXI	To know various types of practicals		Students obtain practical knowledge



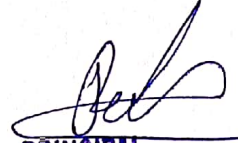
		ZOL604	Practical p-XXII	To know various types of practicals	Students obtain practical knowledge	
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Course Outcomes**F.Y.B.Com****Title of the Paper :- Financial Accounting**

Sr. No	Name of the Course Subject	Semester	Name of the Course	Objectives of course	Course Outcomes
1	B.Com	I	COM-135	1.To create awareness regarding the accounting methods and the use of commerce for every day purpose 2.To develop the human values and social awareness by unfolding the native commercial cultural situations.	After completion of the students will be able to 1. Understand Accounting Method 2. To Develop human values.

Title of the Paper :- IT Application and Business

Sr. No	Name of the Course Subject	Semester	Name of the Course	Objectives of course	Course Outcomes
1	B. Com	II	COM - 132	1.To make aware the students regarding the uses of Computer and various IT Applications 2.To expose the importance of computer in every day life.	After completion of the Course the students will be able to. 1.The use of Computer & Import ants of IT Applications 2.To understand the importance of Computer in everyday life.

S.Y.B.Com

Title of the Paper :- Corporate Accounting

Sr. No	Name of the Course Subject	Semester	Name of the Course	Objectives of course	Course Outcomes
I	B. Com	III	COM - 303	1.To introduce the various methods of Accounting and the use of Accounting in corporate life. 2.To develop the ethics & morality as well as human values and social awareness regarding the commerce. 3.To teach students the foundation of Corporate Accounting. 4.To make aware the students regarding technical aspects and practical usage of Corporate Accounting. 5.To prepare students about the detailed study.	1.Understand the methods of Accounting 2.To Develop human value & social awareness. 3.To understand the basics of Corporate Accounting. 4.To understand Technical Aspects and practical usage of Corporate Accounting.

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Title of the Paper :- Principal of Business Management


Sr. No	Name of the Course Subject	Semester	Name of the Course	Objectives of course	Course Outcomes
I	B. Com	IV	COM -	1.To develop creativity and confidence regarding Business Management. 2.To create awareness regarding Business Management. 3.To develop human values among students. 4.To teach overall Business matters & presentation skill.	1.Able to develop creativity & confidence regarding Business Management. 2.Able to Develop human values. 3.To understand Business matters & presentation skills.

T.Y.B.Com


Title of the Paper :- Rural Development & Agricultural



Sr. No	Name of the Course Subject	Semester	Name of the Course	Objectives of course	Course Outcomes
1	B. Com	V	COM - 507	<ol style="list-style-type: none">1. To create awareness among students about the various forms of commerce & basics of commerce.2. To unfold the various schemes of government regarding commerce & trade.3. To create awareness regarding the development of Rural area & agricultural Management.4. To introduce some advanced techniques of Agricultural development.5. To prepare & make aware students regarding rural & agricultural development.	<ol style="list-style-type: none">1. Able to understand the basics of commerce.2. Able to understand government schemes regarding Commerce & Trade.3. Able to aware regarding the development of rural area and agricultural management.4. Able to understand some techniques regarding agricultural development.5. Able to aware regarding rural & agricultural development.


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INTERNAL QUALITY ASSURANCE CELL (IQAC)

Program Outcomes (POs), Course Outcomes (COs), Program Specific Outcomes (PSOs)

Department of Dairy Products

Course Outcomes (Cos)

Name of the Course Subject	Semester	Course Code	Name of the Course	Objective of the Course	Course Output
B. Voc. Dairy Products	I	MAR-101	Functional Marathi- I	To provide the basic knowledge and background of Marathi to students	On complete action of the courses, students should be able to 1 Development of effective Communicative skill 2 Development of life practical skill 3 Development of writing skill
B. Voc. Dairy Products .	I	ENG-102	Basic English- I	• To provide the basic knowledge and background of English to students	On complete action of the courses, students should be able to • Apply grammatical tools to formulate a correct sentence in English. • Apply the concept of tenses to formulate a correct sentence in English • Formulate different types of dialogues, expression of Ideas/information in English. • Composed applications, reports, requests, responses, summary and comprehensions in English

B.Voc. Dairy Products .	I	ACT-103	Accountancy -I	<p>1 Preparing financial statements in accordance with appropriate standards</p> <p>2 interparing accounting information for planning and control and for the evalution of products</p>	<ul style="list-style-type: none"> • Discribe, explain, and integrate fundamental concepts underlying accounting, finance, management, marketing, and economics. • Use imformation to support business processes and practices. • Apply quantitative skills to help analyze and solve business problems.
B. Voc. Dairy Products .	I	VOC-104	Dairy Products-I	<ul style="list-style-type: none"> • To maintain animal health • Milking hygiene • Animal feeding and water • Animal welfare and • environment 	<ul style="list-style-type: none"> • Explain the imformation of milk and its components. • Explain the formation of milk. • Lists of components of milk. • Explain the sensory and physical properties of milk.
B.Voc. Dairy Products .	I	VOC-105	Dairy Products-II	<ul style="list-style-type: none"> • To maintain animal health • Milking hygiene • Animal feeding and water • Animal welfare and • environment 	<ul style="list-style-type: none"> • Explain the product of milk and pre- treatment of milk. • Lists of pre- treatment of milk. • Explain the importance of UHT and pasteurization processes.


B. Voc. Dairy Products.	I	VOC- 106	Dairy Products - III	<ul style="list-style-type: none"> • maintain environment • Animal welfare and • To maintain animal health • Milking hygiene • Animal feeding and water 	<ul style="list-style-type: none"> • Explain the dairy processing technologies. • Defines the pasteurized milk and sterilized milk. • Explain the product of yogurt. • List of fermented milk products.
B.Voc. Dairy Products.	I	VOC- 107	Dairy Products – I(PR)	<ul style="list-style-type: none"> • maintain environment • To maintain animal health • Milking hygiene • Animal feeding and water • Animal welfare and 	<p>Explain the product of butter.</p> <p>Explain the product of cheese, milk powder and ice-cream.</p>
B.Voc. Dairy Products.	I	VOC- 108	Dairy Products- II(PR)	<ul style="list-style-type: none"> • Milking hygiene • Animal feeding and water • Animal welfare and • To maintain animal health • environment 	<ul style="list-style-type: none"> • Explain the importance of UHT and pasteurization processes • Explain the dairy processing technologies. • Defines the pasteurized milk and sterilized milk.
B.Voc. Dairy Products.	I	VOC- 109	Dairy Products – III(PR)	<ul style="list-style-type: none"> • Animal feeding and water • Animal welfare and • maintain environment • To maintain animal health • Milking hygiene 	<ul style="list-style-type: none"> • Explain the information of milk and its components. • Explain the formation of milk. • Lists of components of milk. • Explain the sensory and physical properties of milk.

B. Voc. Dairy Products	II	MAR- 201	Functional Marathi II	<p>Develope the communicative skill.</p> <p>To provide the basic knowledge and background of Marathi to students</p>	<p>On complete action of the courses, students should be able to</p> <p>1 Development of effective Communicative skill</p> <p>2 Development of life practical skill</p> <p>3 Development of writing skill</p>
B. Voc. Dairy Products .	II	ENG- 202	Basic English II	<p>•. To provide the basic knowledge and background of English to students</p>	<p>On complete action of the courses, students should be able to</p> <ul style="list-style-type: none"> • Apply grammatical tools to formulate a correct sentence in English. • Apply the concept of tenses to formulate a correct sentence in English • Formulate different types of dialogues, expression of Ideas/information in English. • Composed applications, reports, requests, responses, summary and comprehensions in English
B.Voc. Dairy Products.	II	ACT- 203	Accountan cy -II	<p>1 Preparing financial statements in accordance with appropriate standards</p> <p>2 interparing accounting information for planning and control and for the evalution of products</p>	<ul style="list-style-type: none"> • Discribe, explain, and integrate fundamental concepts underlying accounting, finance, management, marketing, and economics. • Use imformation to support business processes and practices. • Apply quantitative skills to help analyze and solve business problems.

B.Voc. Dairy Products .	II	VOC-201	Dairy Products - IV	<ul style="list-style-type: none"> • Animal welfare and • maintain environment • To maintain animal health • Milking hygiene 	<ul style="list-style-type: none"> • Lists of components of milk. • Explain the sensory and physical properties <p>Explain the product of cheese, milk powder and ice-cream..</p>
B. Voc. Dairy Products.	II	VOC-202	Dairy Products - V	<ul style="list-style-type: none"> • Milking hygiene • Animal feeding and water • Animal welfare and • To maintain animal health • environment 	<ul style="list-style-type: none"> • Explain the sensory and physical properties • Explain the formation of milk. • Lists of components of milk.
B.Voc. Dairy Products.	II	VOC-203	Dairy Products - VI	<ul style="list-style-type: none"> • Animal feeding and water • Animal welfare and • To maintain animal health • environment 	<ul style="list-style-type: none"> • • Explain the dairy processing technologies. • Defines the pasteurized milk and sterilized milk. • Explain the product of yogurt. • List of fermented milk products.
B.Voc. Dairy Products.	II	VOC-204	Dairy Products IV(PR)	Develop the Practically Knowledge	<ul style="list-style-type: none"> • Defines the pasteurized milk and sterilized milk. • Explain the product of yogurt. • List of fermented milk products.
B.Voc. Dairy Products.	II	VOC-205	Dairy Products - V(PR)	<ul style="list-style-type: none"> • Animal feeding and water • Animal welfare and • To maintain animal health • environment 	<ul style="list-style-type: none"> • Explain the product of yogurt. • List of fermented milk products. • Defines the pasteurized milk and sterilized milk.

B. Voc. Dairy Products.	II	VOC- 206	Dairy Products – VI(PR)	<ul style="list-style-type: none"> • Milking hygiene • Animal feeding and water • Animal welfare and • To maintain animal health • environment 	<ul style="list-style-type: none"> • Defines the pasteurized milk and sterilized milk. • Explain the product of yogurt. • List of fermented milk products.
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INTERNAL QUALITY ASSURANCE CELL (IQAC)

Program Outcomes (POs), Course Outcomes (COs), Program Specific Outcomes (PSOs)

Department of Horticulture Technology

Program Outcomes (POs)

Name of the Program	Program code	Objectives of the Program	Program Outcomes (POs)
B. Voc. Horticulture Technology	VOC 101-121	<p>The main aim of the course is to produce a competent Technologists capable of identifying and optimizing technical solutions for propagation, production, and maintenance, or application of plants in horticultural and landscape settings.</p> <p>The aim of horticulture lies in improving land productivity, employment-generation, enhancing exports, providing nutritional security to people and improving economic conditions of farmers and entrepreneurs.</p>	<p>After completion of the programme the students will be able to:</p> <ol style="list-style-type: none"> 1. Transfer knowledge of Agriculture/Horticulture in the field of agricultural research especially in horticulture including fruits, vegetables, flowers, spices, medicinal and aromatic plants and their management. 2. Develop innovative agro- techniques to enhance the production and productivity of horticultural crops. 3. Increase farmers' income through adopting hi-tech horticulture 4. Create job opportunities for the unemployed youths through teaching, research, training, extension etc., especially for the development of socially and economically depressed segment of society. 5. Establishment of models' nurseries in rural areas for availability of quality planting materials. 6. Conservation and exploitation of biological diversity through crop management. 7. Prolong the post-harvest storage life of horticultural commodities and increase income through value addition of the products and to reduce post-harvest losses.

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Course Outcomes (Cos), 2020-21

Name of the Course Subject	Semester	Course Code	Name of the Course	Objective of the Course	Course Output
B. Voc. Horticulture Technology	I	VOC-101	Functional English	To provide students with a fundamental background in communicative English	<p>On complete action of the courses, students should be able to</p> <ul style="list-style-type: none"> • Apply grammatical tools to formulate a correct sentence in English. • Apply the concept of tenses to formulate a correct sentence in English • Formulate different types of dialogues, expression of Ideas/information in English. • Composed applications, reports, requests, responses, summary and comprehensions in English
B. Voc. Horticulture Technology	I	VOC-102	Computer Skills	<ul style="list-style-type: none"> • To facilitate the students to study basic computer skills using application software tools. • To facilitate the student to make functional use of computer skills in teaching-learning and day to day occupational necessities. 	<p>On completion of the course students should be able to-</p> <ul style="list-style-type: none"> • Extend the knowledge of basic and advanced tools of word processing spreadsheet presentation graphics DBMS and internet in MS Office for Specific tasks. • Apply word processing tools to create notice application • Use spreadsheet tools to create and manage attendance sheets. • Demonstrate presentation graphics tools to create modify and define presentation • Implement DBMS tool to create modify tables forms



					reports • Apply search engines and write e-mails.
B. Voc. Horticulture Technology	I	VOC- 103	Introductory Agro-meteorology and Climate change	<p>Meaning and scope of agricultural meteorology.</p> <ul style="list-style-type: none"> • Earth atmosphere – its composition, extent and structure. • Atmospheric weather variables; Atmospheric pressure, its variation with height; Wind, types of wind, daily and seasonal variation of wind speed, speed, cyclone, anticyclone, land breeze and sea breeze. • Nature and properties of solar radiation, solar constant, depletion of solar radiation, short wave, long wave and thermal radiation net radiation, albedo. 	<ul style="list-style-type: none"> • Students were aware about Climate change. • Students have opportunities in Meteorological Departments.
B. Voc. Horticulture Technology	I	VOC- 104	Organic Horticulture	<ul style="list-style-type: none"> • The course apart from training skills organic horticultural systems. • Sustainable soil fertility management, and weed management practices in organic farming. • Certification of organic products 	<ul style="list-style-type: none"> • To study about concept of organic horticulture. • Organic horticulture and export, IFOAM and global scenario of organic movement, post-harvest management of organic produce



				and systems, agencies involved at national and international levels	
B. Voc. Horticulture Technology	I	VOC-105	Principles of Plant Pathology	<ul style="list-style-type: none"> • To study the plant (host)-pathogen interaction in relation to environment • To develop methods of management of plant diseases 	<ul style="list-style-type: none"> • To study biotic (living), mesobiotic and abiotic (non-living and environmental) causes of diseases or disorders • To study the mechanisms of disease development by pathogens
B. Voc. Horticulture Technology	I	VOC-106	Principles of Horticulture	<ul style="list-style-type: none"> • The course apart from training skills so trains in marketing skills of agriculture products. • Under this study, the students are exposed to real-life ruler setting with the aim to download a sense of awareness among the students so that they can understand the problems of farmers and rural people. • Scientific, economic wire mental principles pining agricultural production land use. 	<ul style="list-style-type: none"> • To study about management of various crops. • To study various fruits and their products. • To study the classification of various Horticulture crops.
B. Voc. Horticulture Technology	I	VOC-107	Fundamentals of Plant Breeding	<ul style="list-style-type: none"> • Establish a commercial plant breeding company to develop new superior crops varieties. • Serve quality food in the market by 	<ul style="list-style-type: none"> • The ultimate aim of plant breeding is to improve the yield of "economic produce on the economic part". • Quality of product is



				<p>developing high nutrient varieties.</p> <ul style="list-style-type: none"> • Increase the form yield to get higher income on a farm by developing higher yield crop variety. • Start consultant company and supplied better variety farmers. 	<p>another important objective in plant breeding. The quality characters vary from crop to crop e.g., Grain size, comic colour, milling and baking quality in wheat.</p> <ul style="list-style-type: none"> • Earliness is the most desirable character which has several advantages.
B. Voc. Horticulture Technology	I	VOC-108	Principles of Plant Pathology	<ul style="list-style-type: none"> • Meaning and scope of Plant Pathology. • History, Importance of plant diseases, scope and objectives of Plant Pathology. • Important plant pathogenic organisms. 	<ul style="list-style-type: none"> • Meaning and scope of Plant Pathology. • History, Importance of plant diseases, scope and objectives of Plant Pathology. • Important plant pathogenic organisms.
B. Voc. Horticulture Technology	I	VOC-109	Principles of Horticulture	<ul style="list-style-type: none"> • To become informed citizens regarding global plant science issues to facilitate community engagement and service to others. • To examine and understand the influence of plants on society 	<ul style="list-style-type: none"> • To learn to recognize plant "architecture", e.g., internal and external structure and form. • To develop a basic understanding of plant "function", especially photosynthesis, respiration and hormonal control. To explore how plants and the environment interact. • To develop skills to "orchestrate" plant growth with hormones, pruning, nutrition, water and soil modification
B. Voc. Horticulture Technology	I	VOC-110	Fundamentals of Plant Breeding	<ul style="list-style-type: none"> • To study the plant breeding • To study the breeding methods in pollinated crops 	<ul style="list-style-type: none"> • Study of floral structure of self-pollinated crops • Study of floral structure of cross-pollinated crops • Emasculation and



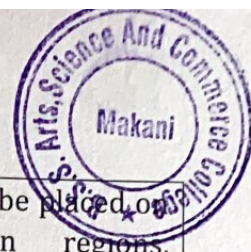
					hybridization techniques in self-pollinated crops • Emasculation and hybridization techniques in cross pollinated crops
B. Voc. Horticulture Technology	II	VOC-111	Linguistic Proficiency – English	• To provide students with fundamental background of communicative English.	On completion of the course students should be able to • Applying knowledge of grammar effectively to formulate correct sentences • Prepare proposals surveys appraisals project report newspaper media report • Prepare business related Communications • Grasp outline and the main point of audio audio visual broadcast and pick out necessary information • Express themselves as per situational demand
B. Voc. Horticulture Technology	II	VOC-112	Soil fertility and plant nutrition	• To study the analysis of soil contains by chemical methods. • Meaning and scope of plant fertility and nutrition for nursery. • To learn the how to grow the plant in adverse conditions.	• Students were aware about plant growth requirements. • Students have opportunities in pesticides and insecticides.
B. Voc. Horticulture Technology	II	VOC-113	Insect Ecology and Integrated Pest Management	• Study the method of collection and preservation of insect including immature stages. • Identify the insect based on morphology and applied the management	• Understand how insects adapt behavioural and ecological. • Learning the basic external morphology of insects and it is used in classification. • Understand insect adaptation and evolutionary



				Strategies for the control of insects.	process. <ul style="list-style-type: none"> Describe the life cycle of important insect groups
B. Voc. Horticulture Technology	II	VOC-114	Energy and Environment	<ul style="list-style-type: none"> To develop a basic idea of energy resources allied techniques and conscience for the environment among students 	<p>On completion of the course, students should be able to –</p> <ul style="list-style-type: none"> Describe basic concepts of conventional and non-conventional energy Recognize elements of primary non-conventional energy resources Correlate pollution, role of human being, and threats to environment Discuss ethical and legislative issues related to environment Express the needs and basic routes towards environment sustainability
B. Voc. Horticulture Technology	II	VOC-115	Vegetable science	<ul style="list-style-type: none"> Explain production conditions and practices for vegetable crops and compare the various cultural system. Discuss growth and development patterns for vegetable species. Develop management plans for soil fertility, irrigation, and pest control in vegetable. 	<ul style="list-style-type: none"> Vegetable quality factors, propagation, pruning, flowering and fruit set horticulture production practices opportunities. The objective of this course is to provide the student with a basic understanding of the world India vegetable industries. Emphasis will be placed on the production regions, biology, soils, nutrients types of vegetables, selection and planting.
B. Voc. Horticulture Technology	II	VOC-116	Ornamental horticulture & landscaping	<ul style="list-style-type: none"> Identification of flower seeds and preparation of seed album 	<ul style="list-style-type: none"> To study the concepts on Ornamental Horticulture, importance, present



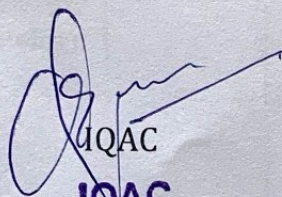
			g	<ul style="list-style-type: none"> • Identification of flowering and ornamental plants and preparation of herbarium • Practicing T - budding in wild rose • Design and layout of home garden • Design and layout of city park • Design and layout of rock garden • Design and layout of water garden 	<p>situation, problems and scope of growing ornamental plants and their exports.</p> <ul style="list-style-type: none"> • Definition, objectives, methods and criteria of good packaging and marketing.
B. Voc. Horticulture Technology	II	VOC-117	Production technology of fruit science	<ul style="list-style-type: none"> • Quality factors, propagation, pruning, flowering and fruit set horticulture production practices opportunities. • The objective of this course is to provide the student with a basic understanding of the world India fruits industries. • Emphasis will be placed on the production regions, biology, soils, nutrients types of fruits selection and planting 	<ul style="list-style-type: none"> • Explain production conditions and practices for fruit crops and compare the various cultural system. • Develop management plans for soil fertility, irrigation, and pest control in fruit. • Discuss growth and development patterns for fruit species
B. Voc. Horticulture Technology	II	VOC-118	Vegetable science	<ul style="list-style-type: none"> • Develop management plans for soil fertility, irrigation, and pest control in vegetable. 	<ul style="list-style-type: none"> • The objective of this course is to provide the student with a basic understanding of the world India vegetable industries.



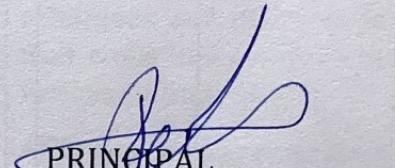
				<ul style="list-style-type: none"> • Discuss growth and development patterns for vegetable species. • Explain production conditions and practices for vegetable crops and compare the various cultural system. 	<ul style="list-style-type: none"> • Emphasis will be placed on the production regions, biology, soils, nutrients types of vegetables, selection and planting. • Vegetable quality factors, propagation, pruning, flowering and fruit set horticulture production practices opportunities.
B. Voc. Horticulture Technology	II	VOC-119	Lab Course-I, Ornamental horticulture & landscaping	<ul style="list-style-type: none"> • History of gardening in India. • Types and styles of gardens. • Principle and elements of landscaping. • Important annual and perennial flower crops. • Principles and methods of propagation of ornamental crops. • Commercial seed production in Flower Crops. 	<ul style="list-style-type: none"> • To study the importance of Horticultural crops & Principal of Horticultural crop production technology. • Importance and scope of Floriculture and Landscaping: Present status and future prospects.
B. Voc. Horticulture Technology	II	VOC-120	Lab Course-II, Production technology of fruit science	<ul style="list-style-type: none"> • The objective of this course is to provide the student with a basic understanding of the world India fruits industries. • Emphasis will be placed on the production regions, biology, soils, nutrients types of fruits selection and planting. quality 	<ul style="list-style-type: none"> • Develop management plans for soil fertility, irrigation, and pest control in fruit. • Discuss growth and development patterns for fruit species. • Explain production conditions and practices for fruit crops and compare the various cultural system.



				factors, propagation, pruning, flowering and fruit set horticulture production practices opportunities.	
B. Voc. Horticulture Technology	II	VOC-120	Lab Course-III, In plant Training-I (Summer)	<ul style="list-style-type: none">• The objective of this course is to provide the student with a basic understanding of plant growth.	<ul style="list-style-type: none">• Develop management plans for soil fertility, irrigation, and pest control in plants.• Discuss growth and development patterns for plants.


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