Mula Education Society's

Arts, Commerce and Science College, Sonai

Tal- Newasa, Dist- Ahmednagar

Programme, Programme Specific and Course Outcomes

Academic Year 2019-2020

Programmes Specific Outcomes (PSO's) B.A. (MARATHI)

PSO 1	Creating an interest in literature.
PSO 2	Availing the job opportunities in translation, transformation and media.
PSO 3	Developing language.
PSO 4	Increasing the critical attitude about literary studies. e. Imbuing the literary
	research attitude.

Course Outcomes (CO's) B.A. (MARATHI)

	B.A.I (मराठी साहित्य : भाषिक कौशल्ये विकास) G1
CO 1	मराठी भाषा, मराठी साहित्य आणि मराठी संस्कृती यांचेअध्ययन करणे.
CO 2	साहित्य विषयक आकलन, आस्वाद आणि मल्यमापन क्षमता विकसित करणे.
CO 3	साहित्याभ्यासातूनजीवन विषयक समज विकसित करणे.
CO 4	मराठी भाषेची उपयोजनात्मक कौशल्ये विकसित करणे.
	B.A.II (आधुनिक मराठी साहित्य) G2
CO 1	शुद्धलेखनाची ओळख करून देणे.
CO 2	पारिभाषिक संज्ञा ची ओळख करून देणे.
CO 3	चरित्र-आत्मचरित्र या साहित्यप्रकारच्या तात्विक घटकांचे ज्ञान करून देणे.
CO 4	आधुनिक मराठी साहित्यातील निवडक चरित्र-आत्मचरित्रात्मक वेच्याचे आकलन , आस्वाद व
	मूल्यमापन करण्याची क्षमता विद्यार्थ्यामध्ये निर्माण करणे.
	B.A.II (मराठी साहित्यातील विविध साहित्य प्रकार)\$1
CO 1	मराठी साहित्य प्रकारच्या तात्विक घटकाचे ज्ञान देणे.
CO 2	साहित्य कृतीला मुक्त प्रतिसाद देण्याची क्षमता विकसित करणे.
CO 3	साहित्य कृतीचे आकलन, आस्वाद व मूल्यमापन करण्याची दृष्टी निर्माण करणे.
CO 4	साहित्याचा सुक्ष्म पातळीवर अभ्यास करण्याची क्षमता विकसित करणे.
	B.A.II (अर्वाचीन मराठी वाड्मयाचा इतिहास: १८१८ ते १९६०)S2
CO 1	मराठी साहित्याच्या ऐतिहासिक परंपरेचे स्थूल ज्ञान करून देणे.
CO 2	विशिष्ट कालखंडाच्या पार्श्वभूमीवर साहित्यामागील प्रेरणा व प्रवृत्तीचे ज्ञान करून देणे.
CO 3	साहित्याच्या विकसनशील परंपरेचे स्थूल ज्ञान करून देणे.
CO 4	पदव्युत्तर अभ्यास करण्याची पूर्व तयारी करणे.
	B.A.III (आधुनिक मराठी साहित्य व उपयोजित मराठी)जी 3
CO 1	. आधुनिक मराठी साहित्यातील विविध साहित्य प्रकाराचा परिचय वाढवणे.
CO 2	. नेमलेल्या साहित्यकृतीचा स्थूल परिचय करून देणे.
CO 3	. निबंध व प्रवासवर्णन या साहित्य प्रकारचे तात्विक विवेचन करणे.
	B.A.III (साहित्यविचार) एस 3
CO 1	. साहित्याचे स्वरूप समजावून घेणे.

CO 2	. साहित्याचे प्रयोजणे समजावून घेणे.
CO 3	. साहित्याची भाषा समजावून घेणे.
CO 4	. साहित्याची आस्वाद प्रक्रिया समजावून घेणे.
	B.A.III (भाषाविज्ञान)एस 4
CO 1	. भाषेचे स्वरूप व कार्य, महत्व व प्रमुख अंगे समजावून घेणे.
CO 2	. भाषाभ्यास पद्धतीचे महत्व व कार्य जाणून घेणे.
CO 3	. स्वनिम निर्मिती प्रक्रिया समजावून घेणे.

Programmes Specific Outcomes (PSO's) B.A.&M.A.(HINDI)

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PSO 1	छात्रों में साहित्य वाचन, लेखन, हिन्दी भाषा के शुद्ध प्रयोग पर बल देना।
PSO 2	हिन्दी भाषा में रोजगार के अवसर उपलब्ध कराने योग्य कौशल्य छात्रों में निर्माण करना
PSO 3	साहित्यिक लेखन के प्रति आलोचनात्मक दृष्टीकोण बढ़ाना।
PSO 4	साहित्य में रुचि पैदा करना।
PSO 5	साहित्यिक और समाज के प्रति शोध दृष्टिकोण छात्रों में विकसित करना।

Course Outcomes (CO's) B.A. (HINDI)

Course Out	comes (CO's) B.A. (HINDI)
	B.A. I (HINDI)वैकल्पिक हिंदी प्रश्नपत्र - 1A
CO 1	छात्रों को हिंदी काव्य साहित्य का परिचय देना।
CO 2	हिंदी कहानी साहित्य से अवगत कराना।
CO 3	हिंदी भाषा द्वारा संवाद कौशल विकसित करना।
CO 4	मौलिक लेखन की ओर रूझान बढ़ाना।
CO 5	विज्ञापन लेखन कौशल विकसित करना।
CO 6	अनुवाद संबंधी जानकारी देना।
CO 7	हिंदी कंप्यूटिंग का परिचय देना।
	B.A. I (HINDI) वैकल्पिक हिंदी प्रश्नपत्र - 1B
CO 1	छात्रों को हिंदी काव्य साहित्य का परिचय देना।
CO 2	हिंदी कहानी साहित्य से अवगत कराना।
CO 3	निबंध लेखन कौशल को विकसित करना।
CO 4	छात्रों को विज्ञापन लेखन से अवगत करना।
	B.A. II (HINDI) हिन्दी सामान्य-2
CO 1	हिन्दी के प्रतींनिधी कहाणीकारों एवं कवियो से परिचित कराना ।
CO 2	हिन्दी कहाणी और नई कविता की विशेषताओं से परिचित कराना ।
CO 3	हिन्दी के कार्यालयीन और व्यावहारिक पत्र आदि का परीचय कराना ।
CO 4	पारिभाषिक शब्द, विज्ञापन, साक्षात्कार, रीपोर्ट लेखन का ज्ञान देते हुए हिन्दी भाषा के
	व्यावहारिक क्षेत्र से परिचित कराना ।
CO 5	हिन्दी शब्द युग्म का ज्ञान कराना ।

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CO 1	B.A. II (HINDI) हिंदी भाषा का विकास
CO 1	भाषा की परिभाषा, विशेषता व भाषा के विविध रूपों का परिचय कराना।
CO 2	हिन्दी की बोलीया तथा भाषा विकास के प्रमुख वादों का परिचय कराना ।
CO 3	भाषा के वैज्ञानिक अध्ययन की दृष्टी विकसित कराना ।
CO 4	हिंदी भाषा और लिपी के उद्भव और विकास का परिचय कराना ।
CO 5	भाषा की शुद्धता के प्रति छात्रों को जागृत कराना ।
	B.A. II (HINDI) हिंदी विशेष -2
CO 1	हिन्दी उपन्यास एवं नाटक के विविध मानदंड के आधार पर छात्र में समीक्षण की क्षमता
	विकसित कराना ।
CO 2	हिन्दी उपन्यास एवं नाटक के आस्वादन क्षमता विकसित कराना ।
CO 3	मध्ययुगीन संत एवं भक्त कवियो के योगदान का परिचय करना ।
CO 4	छात्रों को साहित्य के शिल्प व सौंदर्य से परिचित कराना ।
	मध्ययुगीन संत एवं भक्त कवियो से छात्रों को परिचित करना ।
	B.A. III (HINDI) हिंदी सामान्य -3
CO 1	हिन्दी आत्मकथा विधा, हिन्दी काव्य नाटक के विकास व स्वरूप का परिचय देना ।
	पत्रकारिता की पद्धती से अवगत कराना ।
CO 2	अंग्रेजी से हिन्दी अनुवाद की कला विकसित करना ।
CO 3	छात्रों को पारिभाषिक शब्द तथा संक्षितीयों से के माध्यम से सरकारी कार्यालयों मे
	प्रयुक्त कार्यालयीन हिन्दी से परिचित करना ।
CO 4	छात्रों को सरकारी पत्र लेखन की पद्धती से परिचित करना ।
CO 5	छात्रों को अंग्रेजी से हिन्दी में अनुवाद करने की कला को विकसित करना ।
	B.A. III (HINDI)Spl 3- हिंदी साहित्य का इतिहास.
CO 1	हिंदी साहित्य के इतिहास को जानना ।
CO 2	आदिकाल, भक्तिकाल, रीतिकाल और आध्निक काल की परिस्थितियोंको परिचय प्राप्त
	करना ।
CO 3	कबीर, सुरदास, तुलसीदास, जायसी, मीरा, नानक, रैदास जैसे संत कवियों के विचारों को
	जानना ।
CO 4	हिंदी साहित्य को विविध विधाये तथा उनका विकास जानना ।
CO 5	समकालीन कविताओं के माध्यम से आम जीवन की समस्याओं को जानना ।
CO 6	आधुनिक युग में सामाजिक धार्मिक साहितीक आर्थिक बादलाव से हिन्दी साहित्य में आए
	हुए बदलाव से छात्रों को परिचित करना ।
	B.A. III (HINDI)Spl 4- काव्यशास्त्र .
CO 1	काट्य,साहित्य की परिभाषा द्वारा काट्य के स्वरूप, हेत्, प्रयोजन का ज्ञान कराना ।
CO 2	काट्य के तत्व, काट्य भेद, शब्द शक्ति का ज्ञान कराना ।
CO 3	अलंकार, छंदो का स्वरूप का परिचय कराना।
CO 4	गद्य के भेद के साथ नाटक, एकांकी, निबंध का स्वरूप देना।
CO 5	आलोचना का स्वरूप, उसकी उपयोगिता, आलोचक के गुण से परिचित कराना ।
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	पाठ्यचर्याः 1 मध्ययुगीन काव्य
CO 1	हिंदी की मध्ययुगीन काव्य प्रवृत्तियों का परिचय देना।
CO 2	मध्ययुगीन काव्य प्रवृत्तियों की पृष्ठभूमि पर कवि विशेष की रचनाओं का परिचय
	कराना।
CO 3	तत्कालीन काव्यभाषा की प्रवृत्तियों का परिचय देना।
CO 4	पाठ्यकृतियों के आधार पर काव्य मूल्यांकन की क्षमता का विकास करना।
CO 5	सर्जनात्मक कौशल विकसित करना।
	पाठ्यचर्याः 2 कथा साहित्य
CO 1	उपन्यास विधा से अवगत कराना।
CO 2	कहानी विधा से अवगत कराना।
CO 3	पाठ्य रचनाओं में अभिव्यक्त मूल्यों का संप्रेषण करना।
CO 4	आलोचनात्मक दृष्टि का विकास करना।
CO 5	सर्जनात्मक कौशल का विकास करना।
	पाठ्यचर्या: 3 भारतीय काव्यशास्त्र
CO 1	भारतीय काव्यशास्त्र के विकासक्रम का परिचय देना।
CO 2	भारतीय काव्यशास्त्र के प्रमुख संप्रदायों से अवगत कराना।
CO 3	रचना वैशिष्ट और मूल्यबोध को परखने की क्षमता को विकसित करना।
CO 4	आलोचनात्मक दृष्टि को विकसित करना।
	पाठ्यचर्या: 4(क) हिंदी पत्रकारिता
CO 1	पत्रकारिता की भाषा-प्रयुक्ति का परिचय देना।
CO 2	हिंदी भाषा और साहित्य के विकास में हिंदी पत्र -पत्रिकाओं के योगदान से परिचित
	कराना।
CO 3	पत्रकारिता का कौशल विकसित करना।
CO 4	रोजगारपरक दृष्टि का विकास करना।
	पाठ्यचर्या: ड कथेतर गद्य साहित्य
CO 1	व्यंग्य, निबंध, रेखाचित्र और संस्मरण विधा से अवगत करना।
CO 2	पाठ्य विधाओं का भाषिक अध्ययन करवाना।
CO 3	मौलिक लेखन कौशल विकसित करना।
	पाठ्यचर्या: (शोध प्रविधि
CO 1	छात्रों को शोधप्रविधि से अवगत कराना।
CO 2	शोधदृष्टि का विकास करना।
CO 3	नये शोध-प्रवाहों से परिचय कराना।
CO 4	शोधप्रक्रिया एवं शोधप्रबंध लेखन कौशल विकसित करना।

CO1	पाठ्यचर्याः न् पाश्चात्य काव्यशास्त्र
CO 1	पाश्चात्य काव्यशास्त्रके विकासक्रम का परिचय देना।
CO 2	पाश्चात्य चिंतकों के चिंतन,सिद्धांत और प्रमुख आंदोलनों से अवगत करना।
CO 3	छात्रों को सृजन,आस्वादन एवं आलोचना दृष्टि देना।
	पाठ्यचर्या: ८(घ) हिंदी उपन्यास साहित्य
CO 1	हिंदी उपन्यास साहित्य के विकासक्रम एवं प्रवृत्तियों से परिचित कराना।
CO 2	उपन्यासों के आस्वादन, अध्ययन की क्षमता विकसित करना।
CO 3	पाठ्य रचनाओं में प्रस्तुत साहित्यिक मूल्यों का संप्रेषण करना।
CO 4	मूल्यांकन की दृष्टि का विकास करना।
	M.A. II (HINDI)9- आधुनिक काट्य 1
	M.A. II (HINDI)13 आध्निक काव्य 2
CO 1	हिन्दी काव्य की प्रवृत्तीयों का परीचय करना।
CO 2	आधुनिक काल के प्रबंध और मुक्तक काव्य के तात्विक स्वरूप की जानकारी देना।
CO 3	आधुनिक युग के काव्य प्रकारों का विकासक्रम समझाना।
CO 4	आधुनिक काव्य प्रकारों के तात्विक स्वरूप , विकासक्रम के परिप्रेक्ष्य में रचनाओं के
	आस्वादन, अध्ययन और मूल्यांकन की दृष्टी विकसित करना।
	M.A. II (HINDI)10 - भाषा विज्ञान
CO 1	भाषा विज्ञान के अंगो, विभिन्न शाखाओं का परिचय एवं सैद्धांतिक पक्ष से अवगत करना
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CO 2	भारतीय आर्य भाषाओं के ऐतिहासिक विकासक्रम की जानकारी करना।
CO 3	हिन्दी शब्द-भंडार व व्याकरणीक स्वरूप, हिन्दी के विविध रूप से परिचित करना। शब्द
	भेद के विकास क्रम का परिचय देना।
CO 4	साहित्य के अध्ययन में भाषाविज्ञान की उपयोगिता स्पष्ट करना
CO 5	देवनागरी लिपि के साथ लिपि विकास की जानकारी देना ।
	M.A. II (HINDI)11 हिन्दी साहित्य का इतिहास(आदि,भक्ति,रीतिकाल)
CO 1	छात्रों को हिन्दी साहित्य के काल विभाजन तथा नामकरण का परिचय देना ।
CO 2	आदि,भक्ति,रीति काल के प्रमुख कवियों और उनकी रचनाओं से परिचित करना ।
CO 3	जैन,नाथ,सिद्ध अपभ्रंश साहित्य के प्रभाव से अवगत कराना ।
CO 4	सामाजिक आर्थिक राजनीतिक धार्मिक साहितिक परिस्थितियों के परिप्रेक्ष में हिन्दी
	साहित्य से अवगत करना ।
	M.A. I I (HINDI) 12 अनुवाद विज्ञान
CO 1	अनुवाद की परिभाषा,स्वरूप,महत्व की जानकारी छात्रों को देना ।
CO 2	अनुवाद की प्रक्रिया की जानकारी छात्रों को देना ।
CO 3	अनुवाद के सामाजिक सांस्कृतिक पक्ष से छात्रों को अवगत करना ।
CO 4	अनुवाद करते समय आनेवाली समस्या तथा उनके समाधान से छात्रों को अवगत करना।
CO 5	अनुवाद की क्षमता को विकसित करना ।

	M.A. II (HINDI)14- हिन्दी भाषा का ऐतिहासिक विकास
CO 1	हिन्दी भाषा का उद्भव, विकास तथा ऐतिहासिक पृष्ठभुमी का परिचय देना ।
CO 2	आधुनिक भारतीय आर्य भाषा और उसके वर्गीकरण की जानकारी करना।
CO 3	भारतीय आर्य भाषाओं के ऐतिहासिक विकासक्रम की जानकारी करना।
CO 4	हिन्दी बोलीयों का वर्गीकरण, क्षेत्र, व्याकरणिक स्वरूप और विकास का परिचय देना ।
CO 5	लिपि विज्ञान की उपयोगिता स्पष्ट करना ।
CO 6	हिन्दी प्रचार-प्रसार के आंदोलन की जानकारी देना ।
	M.A. I I (HINDI)15हिन्दी साहित्य का इतिहास (आदिकाल)
CO 1	हिन्दी गद्य के आविर्भाव के प्रधान कारणो,परिस्थिति का परिचय देना ।
CO 2	विषयवस्तु, भाषाशैली शिल्प विचारधारा,प्रवाह आदि का परिचय देना ।
CO 3	प्रमुख गद्य विधाओं के विकासक्रम से परिचित करना ।
CO 4	प्रमुख गद्यकरों से परिचित करना ।
CO 5	आधुनिक हिन्दी कविता के विकासक्रम से परिचित करना ।
	M.A. I I (HINDI)16 भारतीय साहित्य
CO 1	हिन्दी साहित्य के अखिल भारतीय परिप्रेक्ष्य से परिचित करना ।
CO 2	हिन्दी भाषाओं के साहित्य का स्थूल परिचय देना ।
CO 3	भारतीय साहित्य में व्यक्त भारतीयता की पहचान करना ।
CO 4	हिन्दी में अनुदित साहित्य का परिचय देना ।
CO 5	साहितिक अनुवाद के आस्वाद्न एवं मूल्यांकन को विकसित करना ।

Programme Outcomes (PO's) B.A. (ENGLISH)

PO 1	Developing skills of language for competitive examination.
PO 2	Basic knowledge of English language and literature.
PO 3	Knowing Phonology, Phonetics, Semantics and Syntax of English
	Language.
PO 4	Knowing various genres of literature
PO 5	Inculcating life skills and communication skills

Programmes Specific Outcomes (PSO's) B.A. (ENGLISH)

PSO 1	Introduction of CBCS-2019-20 English Syllabus to Students.
PSO 2	Basic knowledge of English Grammar.
PSO 3	Basic knowledge of Phonology, English Language and Literature.
PSO 4	Introduction with minor forms of literature and critical study of English
	literary studies.
PSO 5	Introduction to linguistic and communication skills.

Course Outcomes (CO's) B.A. (ENGLISH)

	D. A. I. (Compulsory English Ontional English)
GO 1	B.A I(Compulsory English/Optional English)
CO 1	Introduction and exposition of best examples of prose, poetry,
	communicative and life skills.
CO 2	Improvement of language skills and development of students linguistic
	competence and communication skills.
CO 3	Introduction with minor forms of literature to students: poetry, prose,
	essay, short stories, and one act play.etc.
CO 4	Introduction of Phonology of English so as students can pronounce better
	and speak English correctly.
	B.A II & B.A.III (Compulsory, Optional English & Special English)
CO 1	Enjoyment of literature
CO 2	Pleasure of literary forms such as novel, poem, play and essay.
CO 3	Critical understanding of literature.
CO 4	Relation between literature and real life.
CO 5	Emotional development of human mind.
CO 7	Introduction to major concepts in Linguistics.
	Course Outcomes (CO's) F.Y.B.Com. (Compulsory English)
CO1	Introduction of new syllabus of English(CBCS 2019-20) to students with
	best examples of prose, poetry, communication and life skills.
CO2	Realization of beauty and communicative power of English.
CO3	Development of oral and written communication skills of students
	to enhance employability.
CO4	Exposition of contemporary socio-economic and cultural life.
	Course Outcomes (S.Y.B.Sc. Optional English)
CO1	Introduction to literature components.
CO2	Introduction to language components (vocabulary and grammar).
CO3	Introduction to language components (communication skills).
CO4	Development of oral competence.
CO5	Development of writing competence.

Programmes Specific Outcomes (PSO's) M.A. (ENGLISH)

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Course Outcomes (CO's) M.A. (ENGLISH)

	Paper I to Paper 8
CO 1	Acquainting major movements and figures in English literature and
	enhancement of literary sensibility and emotional response through a
	detailed study of specific literary texts of the period from 1550 to 1798.
CO 2	Acquainting major movements and figures in English literature and
	enhancement of literary sensibility and emotional response through a
	detailed study of specific literary texts of the period from 1798 to the
	Present.
CO 3	Introducing basic concepts in contemporary studies in English language,
	Linguistics, sub-disciplines of Linguistics.
CO 4	Introduction of nature, function and relevance of Literary Criticism and
	theory and important critical approaches.
CO5	Acquaintance of Indian Literature in English.
CO 6	Understanding different theoretical and practical aspects of language and
	literature teaching.
CO 7	Introduction to Linguistics and Stylistics.
CO 8	Introduction to Semantics and Pragmatics.

Programme Specific Outcomes (PSO's) B.A. ECONOMICS

PSO 1	Understanding how different degrees of competition in a market affect
	pricing and output.
PSO 2	Understanding the efficiency and equity implications of market
	interference, including government policy.
PSO 3	Developing research knowledge in economics.
PSO 4	Developing the skill of data collection & use of sampling techniques in
	research.
PSO 5	Developing the knowledge about theories of economic growth &
	Development and issues of economic planning.
PSO 6	Creating awareness about changing macro-economic policies and theories.

Course Outcomes (CO's) Economics

	B.A I Indian Economy
CO 1	Understanding characteristics, features, structural changes in Indian
	Economy.
CO 2	Comprehension of the nature and impact of New Economic Reforms on the
	Indian Economy.
CO 3	Knowing the problems of unemployment, poverty, rising economic and
	social inequality and problems of regional imbalances in India.
CO 4	Evaluating the changing role of agriculture, industrial and service sector
	and foreign sector in Indian Economy.
CO 5	Measuring the problems and prospects of cottage and small scale
	industries, and industrial sicknesses.
CO 6	Measuring the growth, volume, composition and direction of India's
	foreign trade and capital inflow since 1991.
	B.A-II Banks and Financial Institutions
CO 1	Understanding the meaning, function and role of commercial banking.
CO 2	Comprehending the procedure of an account opening, operating and
	closing.
CO 3	Knowing the structure, function and role of RBI in economic development.
CO 4	Judging the progress of financial inclusion.
CO 5	Evaluating the importance, characteristics and components of the financial
	Market.
CO 6	Understanding the role and types of development banks and Non banking
GO =	financial intermediaries.
CO 7	Realizing the banking reforms and Basel norms-I and II.
CO 8	Identifying recent trends in Indian Banking such as E- Banking, MICR
	Clearing, ATMs, Credit cards and Debit Cards, Travelers Cheques, Gift
	Cheques, Demat Account.
	B.AII Macro Economics
CO 1	Identifying the basic concepts and theories of Macro economics.
	Awareness about changing macro economics policies and theories.
CO 2	Understanding various concepts such as; GDP, GNP NNP, Personal
	Income, Disposable Income, Per Capita Income, and National Income.
CO 3	Identifying the factors determining gross domestic product, employment,
	the general level of prices, and interest rates.
CO 4	Realizing the law of markets, consumption function and investment
	function.
CO 5	Judging the role of fiscal policy and monetary policy in a Developing
	economy.
CO 6	Knowing features, phases and theories of trade cycles. Evaluating types,
	merits and demerits of taxes.
CO 7	Comprehending the role of public finance in developing economy.
	B.AIII Micro Economics
CO 1	Knowing the decision making of consumer.

CO 2	Identifying the nature of revenue and cost of production.
CO 3	Comprehending the demand function and production function. Realizing
	various production theories.
CO 4	Clarifying the meaning of Marginal, average, total revenue, and Marginal,
	average and total cost and its implication.
CO 5	Awareness of different markets structure. Understanding pricing in
	different markets. Judging the factor pricing.
CO 6	Understanding the basic framework of research process. Defining various
	research designs and techniques.
CO 7	Identifying various sources of information for literature review and data
	collection.
CO 8	Discussing the ethical dimensions of conducting applied research.
CO 9	Appreciating the components of scholarly writing and evaluate its quality.
	Knowing various aspects of Research in Economics.
CO 10	Understanding various data analysis techniques (Mean, Mode, Median,
	Range, Standard Deviation, Karl person coefficient of correlation).
CO 11	Ability to interpretation of data and report writing.
CO 12	Acquaintance with the economic thoughts of Classical, Nationalist and
	Socialist Thinkers.
CO 13	Judging the development of economic thoughts.
CO 14	Realizing the economic concepts and theories of Neo-classicals and Indian
	thinkers.
CO 15	Evaluating the development of Indian economic thoughts.
	B.A-III Economics of Development
CO 1	Understanding the concept and aspects of economic Development.
	Knowing the theories of economic growth & Development.
CO 2	Measuring the concept and issues of economic planning.
CO 3	Discussing the need, types and necessary conditions of economic planning.
	B.AIII International Economics
CO 1	Elaborating the importance of the study of International Economics.
CO 2	Finding similarities and dissimilarities in inter-regional and international
	trade.
CO 3	Knowing the changes in the import-export policies of India.
CO 4	Evaluating various types of exchange rates and its merits and demerits.
	Discussing the types and effects of tariffs and quotas.
CO 5	Judging the function, merits and demerits of Foreign Capital, and
	International Corporation (IMF, IBRD, WTO and SAARC).
CO 6	Realizing the volume, composition and direction of Balance of trade and
	Balance of payments.
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Department of Geography 2019-20On Completion of the BA (Geography) Students are able to:

Program Specific Outcomes

PSO 1	Serve as a Geographer
PSO 2	Work as a teacher in schools and high schools
PSO 3	Serve as conservator in forest, Soil, Agricultural departments.
PSO 4	Work in disaster and water resources management.
PSO 5	Serve in forest department as forest conservator.
PSO 6	Serve in cartographer in map making divisions of Government.
PSO 7	Work in NGOs.
PSO 8	Can Prepare for Competitive exams.
PSO 9	Students come to know about geographical, socio-economic and political
	background of India.
PSO 10	Students apply geographical knowledge in their day to day life like being alert
	about disasters, weather and climate data,

Course Outcomes of BA (Geography)

	F.Y.B.A. Physical Geography Sem-I (G-1)
CO 1	Describing human-environment, and nature-society interactions as well as global human and environmental issues.
CO 2	Identifying and explaining the planet" s human and physical characteristics and processes, from global to local scales.
CO 3	Evaluating the impacts of human activities on natural environments.
CO 4	Applying knowledge of global issues to local circumstances to evaluate the local effects of the issues.
CO 5	Showing an awareness and responsibility for the environment.
	F.Y.B.A. Human Geography Sem-II (G-1)
CO 1	Students will acquire an understanding of and appreciation for the relationship between geography and culture.
CO 2	Students will read, interpret, and generate maps and other geographic representations as well as extract, analyze, and present information from a spatial perspective.
CO 3	Students will have a general understanding of global human population patterns, factors influencing the distribution and mobility of human populations including settlement and economic activities and networks, and human impacts on the physical environment.
CO 4	Students will be able to think in spatial terms to explain what has occurred in the past as well as using geographic principles to understand the present and plan for the future.
CO 5	Students will have a general understanding of how the physical environment, human societies, and local and global economic systems are integral to the principles of sustainable development.
CO 6	Students will have a general understanding of the various theoretical and methodological approaches in both physical and human geography and be able to develop research questions and critically analyze both qualitative and quantitative data to answer those questions.
CO 7	Students will be able to present completed research, including an explanation of methodology and scholarly discussion, both orally and in written form and, wherever possible, utilize cartographic tools and other visual formats.

Program Specific Outcomes On Completion of the B.Sc. (Geography), Students are able to:

PSO 1	Serve as a Geographer
PSO 2	Work as a teacher in schools and high schools
PSO 3	Serve as conservator in forest, Soil, Agricultural departments.
PSO 4	Work in disaster and water resources management.
PSO 5	Serve in forest department as forest conservator.
PSO 6	Serve in cartographer in map making divisions of Government.
PSO 7	Work in NGOs.
PSO 8	Can Prepare for Competitive exams.

Course Outcomes of BSc (Geography) SEM –I

	F.Y.B.Sc. Gg- 110- Introduction To Physical Geography - I (Paper I)
CO 1	The students will be familiar with the earth's interior
CO 2	Develop an idea about earth movements and the related topography.
CO3	Acquire knowledge about different types of rock and their origin .Influence of the rocks on land form and topography
CO4	Explain different types of geomorphic processes like weathering and mass wasting and cycle of erosion.
	F.Y.B.Sc. Gg- 110- Population And Physical Geography –II (Paper II)
CO 1	Gain knowledge different aspects of population geography
CO 2	Develop an idea about the concept of Migration.
CO3	Understand the nature of population. Know about composition of population, like- age, sex marital status, family, economic composition and language.
CO4	Analyze the global trend and patterns of population growth in developing countries, and migration patterns.
	F.Y.B.Sc. Gg- 110- Practical In Physical Geography (Paper III)
CO 1	Gain knowledge about topographical maps and apply this knowledge in ground surface.
CO 2	Develop an idea about scale and draw different types of scale like linear, diagonal and vernier.
CO3	Acquire knowledge different types of map projection.
CO4	Develop an idea about scale and draw different types of scale like linear, diagonal and Vernier
CO5	Know about diagrammatic data presentation like line, bar and circle.

Course Outcomes of BSc (Geography) SEM –II

	F.Y.B.Sc. Gg- 110- Introduction To Human Geography (Paper I)
CO 1	Gain knowledge about major themes of human geography.
CO 2	Develop an idea about space and society
CO3	Build an idea about population growth and distribution of population.
CO4	Know about population –resource relationship.
	F.Y.B.Sc. Gg- 110- Population And Settlement Geography (Paper II)
CO 1	Build an idea about urban and rural settlements, and its relationship with environment and also different theories related to settlement geography
CO 2	Know about classification and morphology of settlements.
CO3	Understand the trends and patterns of world urbanization.
CO4	Know about different theories of urban growth.
	F.Y.B.Sc. Gg- 110- Practical In Human Geography (Paper III)
CO 1	Different types of settlement and characteristics and their methods.
CO 2	They can know about the quantitative techniques in geography.
CO3	Gain knowledge about crop combination by Weber, Bhatia's

MA/M.Sc. Geography-I 2019-20

Introduction:

Savitribai Phule Pune University has decided to change the syllabi of various faculties from June, 2019. Taking into consideration the rapid changes in science and technology and new approaches in different areas of Geography and related subjects, Board of Studies in Geography after a thorough discussion with the teachers of Geography from different colleges affiliated to the Savitribai Phule Pune University, Pune has prepared the syllabus of M.Sc./M. A. Semester - I and Semester- II (w.e.f. 2019-20) Geography course under the Choice Based Credit System (CBCS). The model curriculum as developed by U.G.C. is used as a guideline for the present syllabi.

Aims and Objectives of the Curriculum:

- i. To maintain updated curriculum.
- ii. To take care of fast development in the knowledge of Geography.
- iii. To enhance the quality and standards of Geography Education.
- iv. To provide a broad common frame work, for exchange, mobility and free dialogue across the Indian Geography and associated community.
- v. To create and aptitude for Geography in those students who show a promise for higher studies and creative work in Geography.
- vi. To create confidence in others, for equipping themselves with that part of Geography which is needed for various branches of Sciences or Humanities in which they have aptitude for higher studies and original work.

Outcomes of the Curriculum:

- i. The updated curriculum has been maintained as per the needs of stakeholders.
- ii. The care been taken of fast development in the knowledge of Geography.
- iii. The quality and standards of Geography Education has been enhanced.
- iv. A broad common frame work, for exchange, mobility and free dialogue across the Indian Geography and associated community has been provided.
- v. An aptitude for Geography in those students who show a promise for higher studies and creative work in Geography has been created.
- vi. The confidence in others, for equipping themselves with that part of Geography which is needed for various branches of Sciences or Humanities in which they have aptitude for higher studies and original work has been inculcated.

	Program Specific Outcomes (PSO's) B.A. POLITICAL SCIENCE
PSO1	Knowledge about political system of the nation.
PSO 2	2. Study of national and international political affairs.
PSO 3	3. Study from competitive examination point of view.
PSO 4	4. Understanding the government mechanism, its functions, duties and responsibilities.
PSO 5	5. Creating appropriate and efficient political leaders.
PSO 6	6. Getting knowledge of political law & Constitution of India.
	Course Outcomes (CO's) FYBA Political Science
	Introduction to Indian Constitution
CO 1	To acquaint students wish the important features of the constitution of India and with the basic framework of Indian government.
CO 2	To Familiarize Students With the working of the Constitution of India.
	An Introduction to The Constitution of United States of America
CO 1	To acquaint students wish the important features of the constitution of United States of America and the basic framework of government of the USA.
	Course Outcomes (CO's) SYBA Political Science
GO 1	An Introduction to Political Science
CO 1	Important sub themes of Political Science as a discipline.
CO 2	Approaches to study Political Science.
CO 3	Basic Concepts and Values in Political Science.
GO 1	An Introduction to Political Ideologies
CO 1	Role of different political ideologies and their impact in politics.
CO 2	Close link between an idea and its actual realization in public policy.
CO 3	Legacy of all the major ideologies.
	Western Political Thought
CO 1	Major traditions of thought that have shaped political discourse in different parts of the world.
CO 2	The great diversity of social contexts and philosophical visions.
CO 3	The history of political thought as a series of critical, interconnected and open-ended conversations about the ends and means of the good life.
CO 1	Political Journalism Complex relationship between the communication, media and power politics.
CO 2	Critical appraisal of practices of political image management, campaigns, propaganda and censorship.

CO 3	Indian context of political Journalism.
	Basics of Indian Constitution
CO 1	To acquaint students with the important features of the Constitution of India and with the basic framework of Indian government.
CO 2	To familiarize students with the working of the Constitution of India.
CO 3	This paper focuses in detail on the political processes and the actual functioning of the political system. It emphasizes on local influences that derive from social stratification of castes and jatis, from language, religion, ethic and economic determinants and critically assesses its impact on the political processes.
	Course Outcomes (CO's) TYBA Political Science
	Political Ideologies
CO 1	This paper studies the role of different political ideologies and their impact in politics. Each ideology is critically studied in its historical context.
CO 2	In course of its evolution and development the, different streams and subtle nuances within each ideology, the changes and continuities in its doctrine and its relevance to contemporary times are highlighted.
CO 3	The close link between an idea and its actual realization in public policy needs to be explained as well.
CO 4	The philosophical basis of the ideologies is emphasized with special emphasis on key thinkers and their theoretical formulations.
CO 5	The legacy of all the major ideologies is to be critically assessed.
CO 1	Public Administration
	This paper is an introductory course in public administration.
CO 2	The essence of public administration lies in its effectiveness in translating the governing philosophy into programs, policies and activities and making it a part of community living.
CO 3	The paper covers personnel public administration in its historical context thereby proceeding to highlight several of its categories, which have developed administrative salience and capabilities to deal with the process of change.
CO 4	The recent developments and particularly the emergence of new public administration are incorporated within the larger paradigm of democratic legitimacy: the importance of legislative and judicial control over administration also highlighted.
CO 1	International Politics
	This paper deals with concepts and dimension of international relations and makes an analysis of different theories highlighting the major debates and differences within the different theoretical paradigms.
CO 2	The dominant theories of power and the question of equity and justice, the different aspects of conflict resolution, collective security and in the specificity of the long period of the post second world war phase of the cold war, of détente and deterrence leading to theories of rough parity in armaments.

	Course Outcomes (CO's) M.A. Part I Political Science
	Traditions of Political Thought
CO 1	This course is meant to serve as a window on the major traditions of thought that have shaped political discourse in different parts of the world over the last three millennia
CO 2	It stresses the great diversity of social contexts and philosophical visions that have informed the ideas of key political thinkers across epochs.
CO3	The chief objective is to project the history of political thought as a series of critical interconnected and open-ended conversations about the ends and means of the good life.
	Administrative Theory
CO 1	Public Administration is an essential part of a society. In last few years the profession of Public Administration is going through changes.
CO 2	Present paper aims to make aware the students about Evolution & Importance of the Public Administration.
CO 3	Paper introduces changing trends in the field of Public Administration.
	Political Institutions in India
CO 1	The course introduces the student to the leading in stitutions of India's political system and to the changing nature of these institutions.
CO 2	Apart from explaining the structure and functions of the main institutions the course will try to acquaint students with the idea of institutional balance of power as discussed in the Indian constitution and as developed during the functioning of Indian democracy over the past seven decades.
	Party System in India
CO 1	This course provides a much fuller treatment, otherwise not available, on political parties and on the electoral process and on the factors that shape and influence both in the specifically Indian context.
CO 2	As parties constitute an important part of the political process, this course would expect students to understand the evolution of different parties and the different configurations of competition both at all-India level and in different states of India.
CO 3	Students will also study the ideological variations across parties, their relationship with social movements and the social bases of parties.
	Course Outcomes (CO's) MA Part- II Political Science
	Introduction To Constitution
CO 1	To acquaint students wish the important features of the constitution of India and with the basic framework of Indian government.
CO 2	To Familiarize Students With the working of the Constitution of India.

	Modern Political Thought
CO 1	The purpose of this course is to introduce to the student political ideas, views and concerns of leading Indian thinkers. were discussed in pre and post-independence India.
CO 2	The course encourages students to understand and decipher the diverse and often conte sting ways in which the ideas of nationalism, democracy and social transformation.

CO 3	were discussed in pre and post-independence India.
CO 1	Political Sociology This Course will introduce the example soons of the sub-dissipline of political assistance.
CO 2	This Course will introduce the overall scope of the sub discipline of political sociology. The focus of the course will be on the political sociology of power.
CO 3	The emphasis is on the nature of power in modern societies more in the form of organizations and social formations than as individual power.
CO 4	Students are also expected to understand different forms of justifications of power and the role of ideology in this regard.
CO 5	State will be studied as arepository of power in society while class and patriarchy are two instances of how the nature of power is shaped by social factors.
CO 1	World Politics-New Developments The objectives of this course are to introduce the students to the contemporary issues and debates in the world politics.
CO 2	the students world also be made aware of the dimensions of the making of the foreign policy as well as the role of non-state actors in world politics.
CO 3	they would also learn about the emerging new world order and the challenges to it.
CO 1	Indian Administration: Structure and Organization The objective of the course is to introduce to students the basic structure and organization of Indian Administration.
CO 2	The purpose of this course is to provide students with broad understanding of structure, organization and functions of Indian Administration at the central, state, local levels.

Program Specific Outcomes B.A A.Y.2019-20 HISTORY PROGRAM OUTCOMES: BA History

After completion of the programme the students should be able to know

- Student enables to Evaluate, analyze and synthesize historical materials (primary and secondary sources).
- Student enables to Recognize and explain the historical development of cultures.
- Student understands to Evaluate and recognize different Empire in Indian history.
- Student Identify the role of theory and methodology in the production of historical knowledge
- Student Identify and critique basic historical concepts

Program Specific Outcomes (PSO's) B.A. HISTORY (2019-20)

PSO 1	Analyze relationship between the past and the present is lively presented in the
	history.
PSO 2	To develop practical skills helpful in the study and activities related to the
	historical events.
PSO 3	Understand background of our religion, administration.
PSO 4	Understand present existing social, political, religious and economic conditions
	of the people.
PSO 5	To develop interest in the study of history and activities related to the history.

Course Outcomes (CO's) B.A. HISTORY

	B.A I History
CO 1	Understand survey about the sources, Harappan Civilization, Vedic and age, Rise
	of new religious.
CO 2	Aware about Rise of territorial states, The Mouryan Empire, Gupta age and
	Vakatakas
CO 3	To know about Vakatakas Empire.
CO 4	Understand about Vardhan Empire, Contribution towards culture, literature,
	tradeand maritime activities.
CO 5	Aware about how to growth of education in the changing society of earliest times
	to 1206 AD, position of women, and the arabs and turks in various and impact.
	B.A. II History
CO 1	Understand Later Ancient & Medieval period (3500 BC -1707 AD)
CO 2	Aware a period of Sultanate & Mughal a Political ,Social, Economic and Culture
	(1206 - 1760 AD)
CO 3	To know about consolidation of British Rule (1760 - 1947)
CO 4	Understand Nationalism.
CO 5	Aware about ideas and movements (1919 - 1947).
	B.A. III History
CO 1	Understand about French Revolution, States of Italy and Germany

CO 2	To Know about Foreign policy of Germany, Triple Entente 1907 and First World
	War - causes and effects
CO 3	Understand about the Russian Revolution (1917) AD, League of Nation, Risk of
	fascism and Nazism.
CO 4	Aware about Second World war, United Nation Organization
CO 5	Understood about Post World War - The Cold War, Military Alliances, The
	Congo Tragedy and Non Aligned movement.

PROGRAM OUTCOMES: MA History

- Students enable to adequate conceptual base of history and better understanding of history and its
 forces.
- Students enable to research in terms of form formulating hypotheses and develop broad frames of interaction with other social sciences and attain certain level of interdisciplinary approach.
- Students understanding the social, economic and institutional bases of Ancient India.
- Students enable to understanding the Ancient Indian history.
- Students enable to understand historical materials efficiently and effectively integrate and use of historical information to accomplish a specific purpose.
- Students understand cultural, ethical, social, legal, and economic issues history.

PROGRAM SPECIFIC OUTCOMES: MA History

On completion of the M.A. (History), students are able to:

- 1. **Jobs in Government:** policy analysts, government historians, intelligence analysts, museum curators, administrative and programs specialists, communication specialists, and corporate communication managers.
- 2. Travel and Tourism Expert: Work as a tourist guide at historical and religious places.
- **3. School Teacher:** Work as a teacher in schools and high schools
- **4. College Teacher:** Work as a assistant professor in colleges
- **5. Archivist:** A history graduate can find employment with Archaeological Survey of India orwith private firms related to archaeology.
- **6. Researcher:** Many Government and non-government institutes along with research centeroffer several career options for qualified geographers with numerous specializations.
- **7. Competitive Examinations**: For History graduates, the option of public service and NET/SET is always open.
- **8. Social Work:** NGOs and Social Welfare Organizations also employ BA History graduates.
- 9. Exhibit Designer / Content Creator

	M.A I History
CO	Understand survey about the sources, of Maratha Polity.

CO	The better Understanding of History And its Forces
CO 3	To know about Research Methodology
CO 4	The Understanding of Social, Economic and Institutional Bases of Early India
CO 5	The Foundation for Social Awareness and renaissance of the pre Ambedkarian
	Period.

	M.A II History
CO 1	Understand survey about the sources, of Ancient & Medieval Civilizations of the
	World.
CO 2	The better Understanding of Economic History of Modern India.
CO 3	To Introduce the Student to some of the Issues that have been Debated by Indian
	Historians.
CO 4	The Understanding of Social, Cultural and Institutional Bases of Early India &
	World.
CO 5	The Foundation for Social Awareness and renaissance of the 19 th Century in
	Maharashtra.

Program Specific Outcomes (PSO's) B.A. HISTORY (2019-20)

PSO 1	Analyze relationship between the past and the present is lively presented in the
	history.
PSO 2	To develop practical skills helpful in the study and activities related to the
	historical events.
PSO 3	Understand background of our religion, administration.
PSO 4	Understand present existing social, political, religious and economic conditions
	of the people.
PSO 5	To develop interest in the study of history and activities related to the history.

Course Outcomes (CO's) B.A. HISTORY

	B.A I History
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CO 5	Understood about Post World War - The Cold War, Military Alliances,
	The Congo Tragedy and Non Aligned movement.

Program Specific Outcomes (PSO's) M.A. HISTORY (2019-20)

110gram	speeme outcomes (180 s) with mist out (201) 20)
PSO 1	Analyze relationship between the past and the present is lively presented in the
	history.
PSO 2	To develop practical skills helpful in the study and activities related to the
	historical events.
PSO 3	Understand background of Social &.Culture of Medieval India.
PSO 4	Understand present existing social, political, religious and economic conditions of the people.
PSO 5	To develop interest in the study of history and activities related to the local
1303	history.
I	inition y.

	M.A I History
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	Historians.
CO 4	The Understanding of Social, Cultural and Institutional Bases of Early India &
	World.
CO 5	The Foundation for Social Awareness and renaissance of the 19 th Century in
	Maharashtra.

Faculty Of B.Com

Programe outcome:-

Programe Specific outcomes:-		
Programe Specific Outcomes	 Understanding basic concepts of accountancy, principles of accountancy and accounting cycle to maintain accounts of trading & non-trading organizations. Getting acquainted with the procedure of preparation of income statements, retained earnings, balance sheet and statement of cash flows which are required for external users and more useful to managers for managerial decision making Inculcating different skills for analysis and interpretation of financial data to understand financial health of an organization and ensure that resources are being used to achieve the organizations objectives. Developing knowledge about cost ascertainment and fixation of selling price and cost control. Obtaining the knowledge of various provisions of Income Tax Act and their applications in computations of taxable income of an individual under different heads of income Getting working knowledge of generally accepted auditing procedure, techniques and skills. 	

Course Outcome:-

	After Completion these Courses Students Shouled be able
course	to :-
	FYB.Com
Financial Account - I	 To understand the concept of financial accounts.
	 Exposure the nature and advantage of accounting, Accounting concepts and conventions.
	 To know accounting standard in India.
	 Obtain the knowledge of computerize accounting.
	 To know about accounting procedure of partnership firm. Accounts of professionals, single entry system, branch accounts and consignment accounts.
	To impart knowledge regarding finalization of accounts of various establishments.
Marathi - I	Illustrating the nature of short story.
	 Explaining the nature of characterization, literate and philosophical writings.
	 Illustrating one-act-play, travelogue and autobiography as the forms of literature.
	• Illustrating the general skills and usages of Marathi in day-to-day life.

Business Economics - I	Understanding the link between business economics and business decision.
	Realizing the importance of demand forecasting and method of demand forecasting.
	Justifying the demand function and production function.
	Evaluating various production theories.
	Clarifying the meaning of Marginal, average, total
	revenue, and Marginal, average and total cost and its implication.
	Understanding different markets structure in marketing system
Banking & Finance - I	To provide knowledge of fundamentals of Banking
	To create awareness about various banking concepts
	To conceptualize banking operations.
Business Mathematics and	To calculate Simple and Compound Interest.
Statistics - I	• To understand about tabulation and presentation of Statistical data.
	To calculate Central tendency and their measures.
	To understand concept of absolute and relative measures of dispersion
	To know the concept of Co-relation and interpolation.
Marketing and Salesmanship- I	To introduce the basic concepts in Marketing.
	To give the insight of the basic knowledge of Market
	Segmentation and Marketing Mix
	To impart knowledge on Product and Price Mix.
	To establish link between commerce, business and marketing.
	To understand the segmentation of markets and Marketing Mix.
	To enable students to apply this knowledge in practicality by enhancing their skills in the field of
	Marketing
Panking & Finance I	S.Y.B.Com. To provide the knowledge shout Indian Ponking
Banking & Finance - I	To provide the knowledge about Indian Banking System.
	To create the awareness about the role of banking in economic development.
	• To provide the knowledge about working of Central Banking in India.
	To know the functioning of private and public sector banking in India.
	To understand function of RBI
Corporate Accounting - I	To know about shares and accounting entries regarding issue of shares
	To know the real position of assets and liabilities at the end of financial year.
	Analyze the good will and shares valuation.

	To know about companies amalgamation and
	absorption.
	To know meaning of fund, fund flow and rules of
D	fund flow statement.
Business Economics- I	 To familiarize the students to the basic theories and concepts of Macro Economics and their application.
	To introduce the various concepts of National Income.
	To study the relationship amongst broad aggregates.
	To impart knowledge of business economics.
Duciness Deculatous Every Would	To understand macroeconomic concepts. The standard macroeconomic concepts.
Business Regulatory Frame Work and Company Law I	To understand basic knowledge about Indian Contract Act 1872.
	To know about consumer protection act 1986 and right to Information act 2005
	 To know about the basic knowledge of sale of goods act 1930.
	 To understand the meaning, kinds and classification of Company.
	 To know about share capital transaction and company meeting.
Business Communication - I	Spoken communication and written communication.
	• Writing of Resume, letters of application, business letters.
	• Writing News-report, Essay, paragraph,, Review, etc.
	Narration of experience, daily routine.
	Interview Techniques.
Business Management- I	To provide basic knowledge and understanding about various concepts of Business Management.
	.To help the students to develop cognizance of the importance of management principles.
	 To provide an understanding about various functions of management.
	 To provide them tools and techniques to be used in the performance of the managerial job.
Marking Management - I	 To create awareness and impart knowledge about the basics of Marketing Management which is the basic foundation of Marketing subject.
	To orient the students in Marketing Strategy and Consumer Behaviour.
	To help students understand how to craft Marketing Plan which help the organisation outline their marketing goals and objectives
	To enable students to apply this knowledge in practicality by enhancing their skills in the field of Marketing.
	T.Y.B.Com
Auditing & Taxation	To understand the basic concept of Income Tax.

	To know about income from salaries head.
	Acquire knowledge about the Tax management.
	To understand meaning, objective and advantages of
	auditing.
	To know about Power, duties and liabilities of
	company auditors
	To know about special auditor.
Business Regularity Framework	 Introduction to Business Law as well as other Laws.
	Achieving the knowledge of Law.
	Knowing the rights and liability of every citize.
	regarding society.
	Awareness of legal liability.
	Welfare of society
	Creating legal awareness among the students.
	Acquainting with the latest laws, governing busines
	and commercial transactions.
Advanced Accountancy	Knowledge about various provision of Banking
	Regulation Act for maintenance of Bank fina
	accounts.
	 Knowledge about the accounting procedure of Hir
	purchase system of sales.
	Calculation of fire insurance claim under loss of
	stock policy and loss of profit policy
	Knowledge about the Firm Accounting procedure.
	Obtaining the knowledge about analysis an
	interpretation of financial statements.
	Understanding the procedure of calculation of
	working capital requirement and preparation of fund
	flow statement.
	 Exposure to cost accounting and management accounting.
Indian and Global Economic	To expose students to a new approach to the study of
Development	the Indian Economy.
	 To help the students in analyzing the present status of the Indian Economy.
	To enable students to understand the process of
	integration of the Indian Economy with other
	economics of the world.
	 To acquaint students with the emerging issues in
	policies of India's foreign trade
Banking & finance II	•
Dumaing & Imance II	To acquaint the students with Financial Markets and
January & Imanee II	To acquaint the students with Financial Markets and its various segments.
Danishing & Imanice II	 To acquaint the students with Financial Markets and its various segments. To give the students and understanding of the
Danishing & Imanice II	To acquaint the students with Financial Markets and its various segments.
Danishing & Imanice II	 To acquaint the students with Financial Markets and its various segments. To give the students and understanding of the operations and developments in financial markets in

	Indian Economy
Marketing Management II	 To understand the concept and functioning of
	marketing planning and sales management
	 To know marketing strategies and organization
	 To inform various facets of marketing with
	regulatory aspects
	 To understand marketing in globalize scenario
Banking & Finance III	 Introducing banking law and practice in relation to
	the banking system in India.
	 Developing the capability of students for knowing
	banking system, regulatory framework, banker-
	customer relationship and banking services.
	 Understanding the legal aspects of banking
	transactions and its implications as banker and
	customer.
	Knowing the banking services and remittances.
	 Understanding electronic banking and IT in banks.
	 Knowing types of negotiable instruments.
	Getting acquainted with banks and financial
	institutions.
	 Developing the capability of students for knowing
	bank nationalization, financial and business
	performance of banks, central banking and financial
	markets (Money Market, Capital Market, Spot and
	Derivative Market).
	 Explanation of regulatory and promotional role of central banking, and its role in economic
	central banking, and its role in economic development.
Marketing Management III	
rviai kening ivianagement iii	 To know detailing of Marketing Research To understand the role Brand and Distribution
	Management in marketing
	To inform about Marketing and Economic
	Development
	To Know of the importance of control on marketing
	activities
	activities

Programe outcome: - M.Com

Programe Outcomes	 Aware the internal and external effects in developing business strategy.
	 Express an understanding of the tools and techniques necessary for research in Business.
	Trained the students' well-acquainted regarding current financial structure.
	 Versatile the nature of HRM and the study of linkage between labour and management.
	Inculcated students to acquire sound knowledge, concept and structure of capital market and financial services

Programe Specific outcomes:-

Programe Specific Outcomes	To apply basic skills learnt in commerce necessary for analysis of various problems in management accounting, strategic management and Production & Operation Management.
	 To demonstrate progressive affective domain development of values, the role of advanced accounting in society and business.
	 To demonstrate quantitative and qualitative knowledge in key areas of Industrial Economics and Human resource management.
	 To evaluate national and international issue and discussion on income tax, business tax and corporate related topics.

Course Outcome:-

After Completion these Courses Students Should be able				
course	to:-			
	M.Com I- Sem. I			
Management Accounting	 Explain the concepts of Management Accounting in organizational business environment. 			
	 Demonstrate various tools of financial statements of organizational financial performance. 			
	 Illustrate methods of financial statement analysis of an organization. 			
Strategic Management	 Describe different approaches of strategic decision making in corporate environment. 			
	 Describe various strategies of business and factors affecting on it. 			
	 Analyse techniques of organizational strengths, weakness, opportunities and threats (SWOT). 			
	 Analyse effectiveness and its utilization in corporate strategic planning. 			
Financial Management	 Identify financial system in India & recent changes. 			
	Illustrate role of RBI & SEBI in Indian financial			
	system.			
	 Discuss capital budgeting techniques for financial decision making. 			

	Illustrate capital budgeting methods of investment decisions. Let a more fine a sign state of the sign section of the si
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	• Interpret financial statement & its utility of business firm.
	 Describe limitations of financial statements in financial analysis.
	 Identify concept of inventory management & receivable management.
Production & Operation Management	 Deliberate process of product design of production function.
	Demonstrate techniques and tools of product development.
_	Identify production planning in production management.
	Describe different concept of product control.
	M.Com Sem. II
Financial Analysis & Control	 Describe concepts of capital budgeting. Compute different tools and techniques to identify capital budgeting.
	Describe Tabulated measurement of cost of capital.
	Interpret expression view of marginal costing.
	• Evaluate practical problems on marginal costing which correlates to BEP and P/V analysis.
Industrial Economics	 To Explain concepts of industrial economics.
	 To Explain relationship between industrial and economic development.
	• To Classify factors influencing industrial location.
	 To Explain major factors affecting industrial efficiency.
Business Ethics & Professional Values	• To Identify concept of business ethics, profession and values.
	 To Define factors affecting on social ethics.
	 To Describe Indian Ethical Practices in marketing, advertising and Employment.
	To Illustrate unethical practices in Gender
Vnowledge Management	discrimination and accounting disclosures.
Knowledge Management	To Demonstrate concepts of knowledge management. To Describe analysis of large lade and a second seco
<u> </u>	To Describe evolution of knowledge management. To Supposition of Argonizational Learning.
	To Summarize drives of organizational learning. To Ulyatrata organizational learning from a work
	To Illustrate organizational learning frame work.To Illustrate knowledge management tools.
7	M.Com II Sem. III
Business Finance	To Define concepts of business finance in Indian Financial System.
	To Identify categories of business finance.
	To Illustrate role of strategic financial planning in business finance.
	To Distinguish comparison between over

	Capitalization & under capitalization.
	 To Illustrate role of working capital in the business
	organization.
Research Methodology for Business	 To Define concepts of Research in business.
	 To Interpret different steps in business research
	process.
	To Rewrite formulation of research problem in
	writing of research report.
	• To Illustrate various sample and sampling methods in
	business research.
	To Distinguish primary and secondary methods of
	data collection for research
Human Resource Management	To describe concept, approaches, and functions of
G	HRM in Indian business context.
	• To identify concept of HR environment in
	organisation.
	 To Explain concept of merit rating in Human
	Resource Management.
	• To Interpret training process in business organisation.
	 To Classify methods of performance appraisal
Organizational Behavior	To Define concepts of organizational behaviour.
	To Illustrate role of information technology in an
	organization.
	To Identify concept of Horizontal network and virtual
	design of organization.
	To Describe Attributes of personality & dimensions
	of attitude.
	To Classify theories of motivation
	M.Com II Sem. IV
Capital Market and Financial	To Define capital market instruments.
Services	To differentiate forward, future and option contracts.
	To explain stock market in detail.
_	To illustrate functions of primary and secondary
	market in financial market.
_	To Classify different types of mutual funds.
	To Describe concept of portfolio management and
	credit rating.
Industrial Economic Environment	To Define concept of industrial finance.
industrial Economic Environment	To Explain new industrial policy 1991.
-	
	To Demonstrate effects of new industrial policy on industry.
-	industry.
	To Illustrate industrial development & environmental problems
-	problems.
December 1	To Explain different issues in information technology To D. C. To Explain different issues in information technology To Explain different information technolo
Recent Advances in Business	To Define concepts of change management.
Administration	 To Describe dimensions and approaches of change
	management.
	To Demonstrate concept of Total quality

	management.
	To Define six sigma techniques in quality
	management.
	To Describe Global management system and its significance
Project Work	To Describe concepts of Research in business.
	To Prepare synopsis for project report.
	To Construct formulation of research problem.
	To Modify sample and sampling methods.
	To Classify primary and secondary methods of data collection.
	To Describe analysis and interpretation of data.
	To Rewrite report in different areas.
	To Summarize modes of citation & bibliography.

BBA Outcome for A.Y. 2019-20

Programeoutcome:-

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Programe Outcomes	Buildup self-confidence employable business ventu		competency	to	take	up	self-
	Develop Entrepreneurship	skills.					ļ

Programe Specific outcomes:-

ProgrameSpecific	➤ Acquire Knowledge of management and practices to solve
Outcomes	business problems.
	Acquire professional skills and develop analytical skills
	for data based decision making.
	➤ Ability to understand and development of important
	business skills such as leadership, communication skills,
	critical thinking and decision making.

Course Outcome:-

course	After Completion these Courses Students Should	
	be able to :-	
F.Y.B.B.A. SEM I	 Practice the process of management's & functions of Management & its utility in 	
Principles of Management(101)	 human life. Evaluate leadership styles to anticipate the consequences of each leadership style Understand the working of business organization 	
Business Communication Skills (102)	Students will be able to know the concept, process and importance of communication skill.	

Ducinoss Accounting (102)	 It helps to build up an integrative approach where reading, writing, presentation skills are used together This enhances the students' ability to communicate and write effectively. It helps to create awareness among students about Methods and Media of communication. This helps to create students familiar with information technology and improve job seeking skills Financial accounting gives the student a theoretical understanding or how accounting
Business Accounting(103)	principles work within business content.
	❖ Along with theoretical knowledge students even get practical experience.
	Accounting help the students to understands basic principles, rules and how to prepare the financial data of the particular the firm.
Business Economics (Micro)(104)	❖ It helps to understand students to basic micro
	economic concepts.
	❖ It applies economic analysis in the formulation
	of business policies.
	It uses economic reasoning to problems of business.
	Students learned basics of fundamental
Business Mathematics(105)	maths& Its Use.
()	 Studied business problems how it solves by
	use of maths.
	Studied matrices and determinants & is Use.
	❖ Learned the concept of LPP and transportation
	problem. Understanding environmental concerns by the
Business Demography& Environmental	students at the undergraduate level.
Studies(106)	 Understanding the relationship of man with the
	environment.
	❖ Understand the importance of demographic
	study for Business & Commerce
FYBBA SEM II	❖ It helps to make the awareness about various activities of business, business practices and
Business Organization and Systems	recent trends in business world.
(201)	 ❖ It helps to understand the challenges before the
	businesses and setting up of a business
	enterprise.
	* To develop the spirit of entrepreneurship
	among the students.
	❖ It helps to introduce and familiarize the
	student's basic concepts of marketing and it's

D	1 , 11
Principles of Marketing(202)	general nature, scope and importance.
	* This informs appropriate knowledge and
	understanding of its primary functions and
	applications and its gradual evolution and
	development.
	* This assist to develop basic and essential skills
	related to marketing.
	* This helps to provide a learning platform for
	preparing students for marketing employability
D : 1 6E: (202)	opportunities essential for industries.
Principles of Finance(203)	Students will be able to know nature,
	importance, structure of finance related areas.
	This helps to acquire knowledge regarding
D:(204)	sources of finance for a business.
Basics Cost Accounting(204)	 It is a process of accounting for costs. It records income and expenditure relating to
	It records income and expenditure relating to production of goods and services
	 It provides statistical data on the basis of
	which future estimates are prepared and
	quotations are submitted.
	 It is concerned with cost ascertainment, cost
	control and cost reduction.
	 ❖ It establishes budgets and standards so that
	actual cost may be compared to find out
	deviations or variances.
	 ❖ It involves the presentation of right
	information to the right person at the right time
	so that it may be helpful to management for
	planning, evaluation of performance, control
	and decision making.
Business Statistics(205)	❖ The study of Statistical techniques helps to
	enhance analytical techniques.
	❖ The study of Statistical techniques will helps
	to apply statistical techniques for business
	organization.
	❖ The study of Statistical techniques will help to
	find errors and making decisions for business
	growing
Fundamentals of Computers(206)	❖ To know the basics of Computer
	To understand the basics of networking
	To know the basics of internet
CYAND A CENTALIA	❖ To know the basics of databases
SYBBA SEM III	* HRM helps to understand the Humane
Detectal and Harris December 115	Resource role & Responsibility, condition in
Principles of Human Resource Management	the organization.
(301)	* HRM helps to understand human resource
	policies in the organization
	* HRM is the lifeblood of every Company flows
	by utilizing the human resources.
	❖ HRM tells us how to deal with HR in recent

	manner.
Supply Chain Management (302)	To understand the fundamental concepts in
orpri)	Materials and Logistics Management.
	To familiarize with the issues in core functions
	in materials and logistics management
	❖ To understand Warehousing and its role in
	Space Management.
Global Competencies Personality	❖ Improve the student confidence level.
Development (303)	❖ Increase Communication skills, Motivation,
•	Maximize Strength& Minimize Weakness.
	❖ Assertiveness Attitude of student.
	Optimism Positivity and Happiness.
Fundamental knowledge about Rural	❖ To understand the development issues related
Development (304)	to rural society.
	❖ To find the employment opportunities for rural
	youth.
	❖ To create interest among the rural youth to
	participate in rural development programmes
	and schemes for sustainable development.
	❖ To discourage seasonal and permanent
	migration to urban areas.
305 A MM - Consumer Behaviour& Sales	❖ To understand fundamental concept of the
Management	processes and skills necessary to be successful
	in personal selling and insights about recent
	trends in sales management.
	❖ To understand fundamental concept of the
	tools and techniques necessary to effectively
	manage the sales function - organization -
	sales individual
	To develop advanced skills in the areas of
	interpersonal communications, Motivational
20C A BANA D 4 '1 BA	techniques
306 A MM - Retail Management	To provide insights into all functional areas of
	retailing. To give a perspective of the Indian retail
	To give a perspective of the Indian retail scenario.
	 To identify the paradigm shifts in retailing
	business with increasing scope of technology
	and e-business.
Management Accounting(305 B FM)	 ❖ To acquire basic knowledge of Management
aramagement freedunting(200 D F101)	Accounting.
	❖ It helps to familiar terms with the implications
	of various financial ratios in decision making.
1	_
	To understand the concept of budgetary
	· To different the concept of chageting
	 To understand the concept of budgetary control and its application in business. To build up the calculating ability of various

	techniques of management accounting.
Banking & Finance (306 B FM)	❖ To Study of banking function and its
	operations.
	 To study the functioning of Regulatory
	Authorities in India.
	Tadio III de la companya de la compa
	To study recent technology in banking
	industry.
Entrepreneurship and Small Business	❖ To understand the concept and process of
Management(401)	Entrepreneurship.
	❖ To Acquire Entrepreneurial spirit and
	resourcefulness.
	❖ To get acquainted with the concept of Small
	Business Management.
	❖ To understand the role and contribution of
	Entrepreneurs and Small Businesses in the
	growth and development of individual and the
	nation.
Production and Operation Management (402)	❖ Identify the customer needs and convert that
	into a specific product or service (numbers of products required for specific period of time)
	 ❖ Based on product requirement do back-ward
	working to identify raw material requirements
	* Engage internal and external vendors to create
	supply chain for raw material and finished goods between vendor → production facility
	→ customers.
Decision Making and Risk Management-(403)	❖ To learn the key topics in decision making and
	risk management so that they can improve
	decision making and reduce risk in their
	management activities and organizations.
	❖ Find the best alternative in a decision with
	multiple objectives and uncertainty.
	Describe the process of making a decision.
	Analyze an organization's decision making
	system.
	A Davidon a might account
	Develop a risk management process.
International Business Management (404)	❖ To acquaint the students with emerging trends
	Tamana and a survey with survey and a

	and issues in International Business.
	❖ To study the impact of International Business Environment on foreign market operations.
	❖ To analyze International trade models.
	To analyze the International Investment and its risks associated.
	❖ To understand financial aspects in world economies, their need and functionality
Advertising and Promotion Management- (405) A-MM	❖ To develop knowledge and understanding of importance of advertising.
	To understand different sales promotion techniques.
	❖ To know about promotion management
	To understand the process of online advertising.
Digital Marketing (406) A-MM	❖ To provide students with the Knowledge about business advantages of the digital marketing and its importance for marketing success.
	❖ To help students become In demand professional by being acquainted through various Digital channels & their ways of Integration.
	❖ To get Basic Knowledge of Google Analytics for measuring effects of Digital Marketing & getting Insights of Future trends that will affect the future
Business Taxation- 405- B-FM	❖ To understand different concepts & definitions under Income Tax Act 1961.
	❖ To understand the importance of Taxation to the students.
	❖ To update the students with the latest development in the subject of Taxation.
Financial Services. 406 B- FM	❖ To study & Understand working of Indian financial system.

	❖ To make the students well acquainted
	regarding financial markets
	 To study & Understand working of Indian
	financial system.
TYBBA SEM V	❖ To understand the fundamental concepts in
Supply chain and Logistics Management(501)	Materials and Logistics Management.
	To familiarize with the issues in core functions in materials and logistics management
Entrepreneurships Development(502)	in materials and logistics management • Entrepreneurship Development involves a
	wide range of training and experience and designed to prepare students for starting and
	managing their own business. ❖ This is the subject which teach the students
	how to start their own business what quality
	should entrepreneur have what are the
	government schemes provided by small
	industries.
	❖ It helps to get detail knowledge about the
	business plans and other things.
Business Law(503)	* This help to understand basic legal terms and
	 concepts used in law pertaining to business. This know applicability of legal principles to
	situations in Business world by Referring to
	few decided leading cases.
Research Methodology(504)	❖ To understand the basic concept of research
	process and tools for the same.
	❖ To acquire knowledge of the tools and techniques necessary for research and report
	writing.
Analysis of Financial Statements (505-A)	 This course is designed to prepare students for
	interpretation and analysis of financial
	statements effectively.
	To make the student well acquainted with current financial practices.
	This course is designed primarily for students
	who expect to be intensive users of financial
	statements as part of their professional
Specialization - Marketing Management	responsibilities. To understand fundamental concept of the
Sales Management(505-B)	processes and skills necessary to be successful
	in personal selling and insights about recent
	trends in sales management.
	To understand fundamental concept of the
	tools and techniques necessary to effectively manage the sales function - organization -
	sales individual
	❖ To develop advanced skills in the areas of
	interpersonal communications, Motivational

	techniques
Long Term Finance (506-A)	❖ To make the study of long-term financing.
	❖ To make the student well-acquainted regarding
	current financial structure
Retail Management(506-B)	❖ To provide insights into all functional areas of
	retailing.
	❖ To give a perspective of the Indian retail
	scenario.
	❖ To identify the paradigm shifts in retailing
	business with increasing scope of technology
	and e-business.
	*
TYBBA SEM V I	 develop plans with relevant people to achieve
	the project's goals
Business Planning and Project	break work down into tasks and determine
Management(601)	handover procedures
	 identify links and dependencies, and schedule
	to achieve deliverables
	sestimate and cost the human and physical
	resources required, and make plans to obtain
	the necessary resources
	* allocate roles with clear lines of responsibility
T (((00))	and accountability
Event Management(602)	This explains the students with concepts, issues
	and various aspects of event management.
Management Control System(603)	To acquire knowledge of the function of
	management control, its nature, functional areas,
Ecommono (604)	and techniques.
Ecommerce(604)	The study of E-commerce helps to study
	different aspect of e-commerce.
	❖ The study of E-commerce helps to understand
	different modes of payments.
	different modes of payments.
	❖ The study of E-commerce helps to understand
	different modes of payments.
	❖ The study of E-commerce helps to understand
	how to use electronic media for business.
	❖ The study of E-commerce helps to gives brief
	introduction about tally and other business
	oriented packages.
Financial Services (605-A)	❖ To study in detail various financial services in
	India
	To make the students well acquainted regarding
	financial markets
Marketing Management	❖ To enlarge knowledge and understanding of
Advertising and Sales Promotion (605-A)	importance and functions of Advertising.
and Saics I Tumutum (005-A)	To be aware of Key features of Sales
	Promotion
G I DI (D I (COC))	
Cases in Finance/ Project (606-A)	❖ To Learn the application of theory into practice

Cases in Marketing Management / Project	❖ To Learn the application of theory into practice
(606-B)	

BBA Outcome for A.Y. 2019-20

Programeoutcome :-

Programe Outcomes	1	self-confidence ole business ventu		competency	to	take	up	self-
	Develop	Entrepreneurship	skills.	•				

Programe Specific outcomes:-

ProgrameSpecific Outcomes

Course Outcome:-

course After Completion these Courses Stud	
	be able to :-
F.Y.B.B.A. SEM I Principles of Management(101)	 Practice the process of management's & functions of Management & its utility in human life. Evaluate leadership styles to anticipate the consequences of each leadership style Understand the working of business organization
Business Communication Skills (102)	Students will be able to know the concept, process and importance of communication skill.
	 It helps to build up an integrative approach where reading, writing, presentation skills are used together This enhances the students' ability to communicate and write effectively. It helps to create awareness among students about Methods and Media of communication. This helps to create students familiar with information technology and improve job seeking skills
Business Accounting(103)	Financial accounting gives the student a theoretical understanding or how accounting principles work within business content.

	❖ Along with theoretical knowledge students
	even get practical experience.
	❖ Accounting help the students to understands
	basic principles, rules and how to prepare the
	financial data of the particular the firm.
D : E : (3f:)(104)	A 7 (1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,
Business Economics (Micro)(104)	❖ It helps to understand students to basic micro economic concepts.
	 It applies economic analysis in the formulation
	of business policies.
	❖ It uses economic reasoning to problems of
	business.
	 Students learned basics of fundamental
Business Mathematics (105)	maths& Its Use.
	❖ Studied business problems how it solves by
	use of maths.
	Studied matrices and determinants & is Use.
	Learned the concept of LPP and transportation problem.
	 Understanding environmental concerns by the
Business Demography& Environmental	students at the undergraduate level.
Studies(106)	 Understanding the relationship of man with the
, ,	environment.
	 Understand the importance of demographic
	study for Business & Commerce
	❖ It helps to make the awareness about various
FYBBA SEM II Pusings Organization and Systems	activities of business, business practices and recent trends in business world.
Business Organization and Systems (201)	 It helps to understand the challenges before the
(201)	businesses and setting up of a business
	enterprise.
	❖ To develop the spirit of entrepreneurship
	among the students.
	❖ It helps to introduce and familiarize the
District CM 1 (202)	student's basic concepts of marketing and it's
Principles of Marketing(202)	general nature, scope and importance.
	 This informs appropriate knowledge and understanding of its primary functions and
	applications and its gradual evolution and
	development.
	This assist to develop basic and essential skills
	related to marketing.
	This helps to provide a learning platform for
	preparing students for marketing employability
(222)	opportunities essential for industries.
Principles of Finance(203)	❖ Students will be able to know nature,
	importance, structure of finance related areas.
	This helps to acquire knowledge regarding sources of finance for a business.
	sources of finance for a business.

	T
Basics Cost Accounting(204)	❖ It is a process of accounting for costs.
	❖ It records income and expenditure relating to
	production of goods and services
	❖ It provides statistical data on the basis of
	which future estimates are prepared and
	quotations are submitted.
	❖ It is concerned with cost ascertainment, cost
	control and cost reduction.
	❖ It establishes budgets and standards so that
	actual cost may be compared to find out
	deviations or variances.
	❖ It involves the presentation of right
	information to the right person at the right time
	so that it may be helpful to management for
	planning, evaluation of performance, control
Rusinass Statistics (205)	and decision making. The study of Statistical techniques helps to
Business Statistics(205)	The study of Statistical techniques helps to enhance analytical techniques.
	 The study of Statistical techniques will helps
	to apply statistical techniques for business
	organization.
	The study of Statistical techniques will help to
	find errors and making decisions for business
	growing
Business Informatics(206)	 ♣ To know the basics of Computer
Business Informatics(200)	To understand the basics of networking
	To know the basics of internet
	❖ To know the basics of databases
SYBBA SEM III	❖ HRM helps to understand the Humane
Principles of Human Resource Management	Resource role & Responsibility, condition in
(301)	the organization.
	❖ HRM helps to understand human resource
	policies in the organization
	❖ HRM is the lifeblood of every Company flows
	by utilizing the human resources.
	❖ HRM tells us how to deal with HR in recent
	manner.
Supply Chain Management (302)	❖ To understand the fundamental concepts in
	Materials and Logistics Management.
	To familiarize with the issues in core functions
	in materials and logistics management
	To understand Warehousing and its role in
	Space Management.
Global Competencies Personality	* Improve the student confidence level.
Development (303)	❖ Increase Communication skills, Motivation,
	Maximize Strength & Minimize Weakness.
	❖ Assertiveness Attitude of student.
Even de mande de la decembra decembra de la decembra decembra de la decembra decembra de la decembra de la decembra de la decembra de la dece	• Optimism Positivity and Happiness.
Fundamental knowledge about Rural	❖ To understand the development issues related
Development (304)	

	to rural society.
	To find the employment opportunities for rural youth.
	❖ To create interest among the rural youth to participate in rural development programmes and schemes for sustainable development.
	❖ To discourage seasonal and permanent migration to urban areas.
	inigration to urban areas.
305 A MM - Consumer Behaviour& Sales Management	 To understand fundamental concept of the processes and skills necessary to be successful in personal selling and insights about recent trends in sales management. To understand fundamental concept of the
	tools and techniques necessary to effectively manage the sales function - organization - sales individual To develop advanced skills in the areas of interpersonal communications, Motivational techniques
306 A MM - Retail Management	techniques To provide insights into all functional areas of
500 A MM - Retail Management	 To provide insights into an functional areas of retailing. To give a perspective of the Indian retail scenario. To identify the paradigm shifts in retailing business with increasing scope of technology and e-business.
Management Accounting(305 B FM)	 To acquire basic knowledge of Management Accounting. It helps to familiar terms with the implications of various financial ratios in decision making. To understand the concept of budgetary control and its application in business. To build up the calculating ability of various techniques of management accounting.
Banking & Finance (306 B FM)	To Study of banking function and its operations.
	 To study the functioning of Regulatory Authorities in India. To study recent technology in banking industry.
Entrepreneurship and Small Business Management(401)	❖ To understand the concept and process of Entrepreneurship.

	To Acquire Entrepreneurial spirit and resourcefulness.
	❖ To get acquainted with the concept of Small Business Management.
	❖ To understand the role and contribution of Entrepreneurs and Small Businesses in the growth and development of individual and the nation.
Production and Operation Management (402)	 ❖ Identify the customer needs and convert that into a specific product or service (numbers of products required for specific period of time) ❖ Based on product requirement do back-ward working to identify raw material requirements ❖ Engage internal and external vendors to create supply chain for raw material and finished goods between vendor → production facility → customers.
Decision Making and Risk Management-(403)	❖ To learn the key topics in decision making and risk management so that they can improve decision making and reduce risk in their management activities and organizations.
	Find the best alternative in a decision with multiple objectives and uncertainty.
	Describe the process of making a decision.
	Analyze an organization's decision making system.
	Develop a risk management process.
International Business Management (404)	❖ To acquaint the students with emerging trends and issues in International Business.
	❖ To study the impact of International Business Environment on foreign market operations.
	❖ To analyze International trade models.
	❖ To analyze the International Investment and its risks associated.
	To understand financial aspects in world economies, their need and functionality
Advertising and Promotion Management-	❖ To develop knowledge and understanding of

(405) A-MM	importance of advertising.
	To understand different sales promotion techniques.
	❖ To know about promotion management
	To understand the process of online advertising.
Digital Marketing (406) A-MM	❖ To provide students with the Knowledge about business advantages of the digital marketing and its importance for marketing success.
	❖ To help students become In demand professional by being acquainted through various Digital channels & their ways of Integration.
	❖ To get Basic Knowledge of Google Analytics for measuring effects of Digital Marketing & getting Insights of Future trends that will affect the future
Business Taxation- 405- B-FM	❖ To understand different concepts & definitions under Income Tax Act 1961.
	To understand the importance of Taxation to the students.
	❖ To update the students with the latest development in the subject of Taxation.
Financial Services. 406 B- FM	To study & Understand working of Indian financial system.
	To make the students well acquainted regarding financial markets
	To study & Understand working of Indian financial system.
TYBBA SEM V Supply chain and Logistics Management(501)	 To understand the fundamental concepts in Materials and Logistics Management. To familiarize with the issues in core functions in materials and logistics management
Entrepreneurships Development(502)	 Entrepreneurship Development involves a wide range of training and experience and designed to prepare students for starting and managing their own business.

	A 7791
	This is the subject which teach the students how to start their own business what quality should entrepreneur have what are the government schemes provided by small industries.
	❖ It helps to get detail knowledge about the business plans and other things.
Business Law(503)	 This help to understand basic legal terms and concepts used in law pertaining to business. This know applicability of legal principles to situations in Business world by Referring to few decided leading cases.
Research Methodology(504)	 To understand the basic concept of research process and tools for the same. To acquire knowledge of the tools and techniques necessary for research and report writing.
Specialization - Marketing Management Sales Management(505-A)	 To understand fundamental concept of the processes and skills necessary to be successful in personal selling and insights about recent trends in sales management. To understand fundamental concept of the tools and techniques necessary to effectively manage the sales function - organization - sales individual To develop advanced skills in the areas of interpersonal communications, Motivational techniques
Retail Management(506-A)	 To provide insights into all functional areas of retailing. To give a perspective of the Indian retail scenario. To identify the paradigm shifts in retailing business with increasing scope of technology and e-business.
TYBBA SEM V I Business Planning and Project Management(601)	 develop plans with relevant people to achieve the project's goals break work down into tasks and determine handover procedures identify links and dependencies, and schedule to achieve deliverables estimate and cost the human and physical resources required, and make plans to obtain the necessary resources allocate roles with clear lines of responsibility and accountability
Event Management(602)	 This explains the students with concepts, issues and various aspects of event management.
Management Control System(603)	To acquire knowledge of the function of

	management control, its nature, functional areas,
	and techniques.
Ecommerce(604)	❖ The study of E-commerce helps to study
	different aspect of e-commerce.
	❖ The study of E-commerce helps to understand
	different modes of payments.
	❖ The study of E-commerce helps to understand
	different modes of payments.
	The study of E-commerce helps to understand
	how to use electronic media for business.
	❖ The study of E-commerce helps to gives brief
	introduction about tally and other business
	oriented packages.
Marketing Management	❖ To enlarge knowledge and understanding of
Advertising and Sales Promotion (605-A)	importance and functions of Advertising.
	❖ To be aware of Key features of Sales
	Promotion
Cases in Marketing Management / Project	❖ To Learn the application of theory into practice
Human Resource Management	❖ This tell the students with important legal
Labor Laws(605-A)	provisions governing the industrial Employees
Cases in Human Resource Management	This appreciates of application of theory into
Project	practice.

COMMERCE FACULTY

Program Outcomes of BACHELOR OF COMMERCE (B.COM)

Students who have taken admission to this program of B.Com are expected to concentrate upon the following outcomes.

- Develop Commercial sense & managerial skills.
- Entrepreneurial skill.
- Budgeting policy.
- Human Resources Management.
- Develop Numerical ability.
- Well versed with business regularity framework.

Program Specific Outcomes (PSO's) B.COM

PSO 1	Understanding basic concepts of accountancy, principles of accountancy and accounting cycle to maintain accounts of trading & non-trading organizations.
PSO 2	Getting acquainted with the procedure of preparation of income statements, retained earnings, balance sheet and statement of cash flows which are required for external users and more useful to managers for managerial decision making.
PSO 3	Inculcating different skills for analysis and interpretation of financial data to understand financial health of an organization and ensure that resources are being used to achieve the organizations objectives.
PSO 4	Developing knowledge about cost ascertainment and fixation of selling price and cost control.
PSO 5	Obtaining the knowledge of various provisions of Income Tax Act and their applications in computations of taxable income of an individual under different heads of income
PSO 6	Getting working knowledge of generally accepted auditing procedure, techniques and skills.

Course Outcomes (CO's) B.COM

	B. Com I Financial Account
CO 1	To understand the concept of financial accounts.
CO 2	Exposure the nature and advantage of accounting, Accounting concepts and conventions.
CO 3	To know accounting standard in India.
CO 4	Obtain the knowledge of computerize accounting.
CO 5	To know about accounting procedure of partnership firm. Accounts of professionals, single entry system, branch accounts and consignment accounts.
CO 6	To impart knowledge regarding finalization of accounts of various establishments.
	B.Com- I Marathi
CO 1	Illustrating the nature of short story.
CO 2	Explaining the nature of characterization, literate and philosophical writings.
CO 3	Illustrating one-act-play, travelogue and autobiography as the forms of literature.
CO 4	Illustrating the general skills and usages of Marathi in day-to-day life.

CO 2 Realizing the importance of demand forecasting and method of demand forecasting. CO 3 Justifying the demand function and production function. CO 4 Evaluating various production theories. CO 5 Clarifying the meaning of Marginal, average, total revenue, and Marginal, average and total cost and its implication. CO 6 Understanding different markets structure in marketing system Banking & Finance - I CO 1 To provide knowledge of fundamentals of Banking CO 2 To create awareness about various banking concepts CO 3 To conceptualize banking operations. Business Mathematics and Statistics -B. Com. I CO 1 To calculate Simple and Compound Interest. CO 2 To understand about tabulation and presentation of Statistical data. CO 3 To calculate Central tendency and their measures. CO 4 To understand concept of absolute and relative measures of dispersion CO 5 To know the concept of Co-relation and interpolation. Marketing and Salesmanship- I CO 1 To introduce the basic concepts in Marketing. CO 2 To give the insight of the basic knowledge of Market Segmentation and Marketing Mix CO 3 To impart knowledge on Product and Price Mix. CO 4 To establish link between commerce, business and marketing. CO 5 To understand the segmentation of markets and Marketing Mix. CO 6 To enable students to apply this knowledge in practicality by enhancing their skills in the field of Marketing Banking & Finance I -B. Com. II CO 1 To provide the knowledge about Indian Banking System. CO 2 To create the awareness about the role of banking in conomic development. CO 3 To understand function of RBI Corporate Accounting -B. Com. II CO 1 To know whout shares and accounting entries regarding issue of shares CO 2 To know the functioning of private and public sector banking in India. CO 4 To know about companies amalgamation and absorption. CO 4 To know about companies amalgamation and absorption. CO 4 To know about companies of the basic theories and concepts of Macro		B.Com- I Business Economics
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Leonomies and men application.	COT	Economics and their application.
CO 2 To introduce the various concepts of National Income.	CO 2	
CO 3 To study the relationship amongst broad aggregates.		
CO 4 To impart knowledge of business economics.	CO 4	
CO 5 To understand macroeconomic concepts.	CO 5	
Business Regulatory Frame Work and Company LawB. Com. III		•

CO 1	To understand basic knowledge about Indian Contract Act 1872.
CO 2	To know about consumer protection act 1986 and right to Information
	act 2005
CO 3	To know about the basic knowledge of sale of goods act 1930.
CO 4	To understand the meaning, kinds and classification of Company.
CO 5	To know about share capital transaction and company meeting.
	B. Com.II Business Communication
CO 1	Spoken communication and written communication.
CO 2	Writing of Resume, letters of application, business letters.
CO 3	Writing News-report, Essay, paragraph,, Review, etc.
CO 4	Narration of experience, daily routine.
CO 5	Interview Techniques.
	Business Management
CO 1	To provide basic knowledge and understanding about various concepts of
	Business Management.
CO 2	.To help the students to develop cognizance of the importance of management
GO 4	principles.
CO 3	To provide an understanding about various functions of management.
CO 4	To provide them tools and techniques to be used in the performance
	of the managerial job.
CO 1	Marking Management - I
CO 1	To create awareness and impart knowledge about the basics of Marketing Management which is the basic foundation of Marketing subject.
CO 2	To orient the students in Marketing Strategy and Consumer Behaviour.
CO 3	To help students understand how to craft Marketing Plan which help the
	organisation outline their marketing goals and objectives
CO 4	To enable students to apply this knowledge in practicality by enhancing their
	skills in the field of Marketing.
	Auditing & Taxation -B. Com. III
CO 1	To understand the basic concept of Income Tax.
CO 2	To know about income from salaries head.
CO 3	Acquire knowledge about the Tax management.
CO 4	To understand meaning, objective and advantages of auditing.
CO 5	To know about Power, duties and liabilities of company auditors
CO 6	To know about special auditor.
200	To know about special auditor.
	D. Com. III Duginoga Dogularity: Engageryarda
CO 1	B. Com. III Business Regularity Framework Introduction to Business Law as well as other Laws.
CO 2	Achieving the knowledge of Law.
CO 3	Knowing the rights and liability of every citizen regarding society.
CO 4	Awareness of legal liability.
CO 5	Welfare of society
CO 6	Creating legal awareness among the students.
CO 7	Acquainting with the latest laws, governing business and commercial
	transactions.
	B. Com. III Advanced Accountancy
CO 1	Knowledge about various provision of Banking Regulation Act for

	maintenance of Bank final accounts.
CO 2	Knowledge about the accounting procedure of Hire purchase system of sales.
CO 2	Calculation of fire insurance claim under loss of stock policy and loss of profit
CO 3	policy
CO 4	Knowledge about the Firm Accounting procedure.
CO 5	Obtaining the knowledge about analysis and interpretation of financial statements.
CO 6	Understanding the procedure of calculation of working capital requirement and
	preparation of funds flow statement.
CO 7	Exposure to cost accounting and management accounting.
	Indian and Global Economic Development
CO 1	To expose students to a new approach to the study of the Indian Economy.
CO 2	To help the students in analyzing the present status of the Indian Economy.
CO 3	To enable students to understand the process of integration of the Indian
	Economy with other economics of the world.
CO 4	To acquaint students with the emerging issues in policies of India's foreign
	trade
	Banking & finance II
CO 1	To acquaint the students with Financial Markets and its various segments.
CO 2	To give the students and understanding of the operations and developments in
	financial markets in India.
CO 3	To enable them to gain an insight into the functioning and role of financial
	institutions in the Indian Economy
	Marketing Management II
CO 1	To understand the concept and functioning of marketing planning and sales
	management
CO 2	To know marketing strategies and organization
CO 3	To inform various facets of marketing with regulatory aspects
CO 4	To understand marketing in globalize scenario
	B. Com. III Banking & Finance III
CO 1	Introducing banking law and practice in relation to the banking system in India.
CO 2	Developing the capability of students for knowing banking system, regulatory framework, banker- customer relationship and banking services.
CO 3	Understanding the legal aspects of banking transactions and its implications as banker and customer.
CO 4	Knowing the banking services and remittances.
CO 5	Understanding electronic banking and IT in banks.
CO 6	Knowing types of negotiable instruments.
CO 7	Getting acquainted with banks and financial institutions.
CO 8	Developing the capability of students for knowing bank nationalization,
	financial and business performance of banks, central banking and financial
	markets (Money Market, Capital Market, Spot and Derivative Market).
CO 9	Explanation of regulatory and promotional role of central banking, and its role
	in economic development.
	Marketing Management III
CO 1	To know detailing of Marketing Research

CO 2	To understand the role Brand and Distribution Management in marketing
CO 3	To inform about Marketing and Economic Development
CO 4	To Know of the importance of control on marketing activities

Program Outcomes of MASTER OF COMMERCE (M.COM)

Students who have taken admission to this program of M.Com are expected to concentrate upon the following outcomes.

- Aware the internal and external effects in developing business strategy.
- Express an understanding of the tools and techniques necessary for research in Business.
- Trained the students' well-acquainted regarding current financial structure.
- Versatile the nature of HRM and the study of linkage between labour and management.
- Inculcated students to acquire sound knowledge, concept and structure of capital market and financial services..

Program Specific Outcomes (PSO's) (M.COM)

PSO 1	To apply basic skills learnt in commerce necessary for analysis of various
	problems in management accounting, strategic management and Production &
	Operation Management.
PSO 2	To demonstrate progressive affective domain development of values, the role of
	advanced accounting in society and business.
PSO 3	To demonstrate quantitative and qualitative knowledge in key areas of Industrial
	Economics and Human resource management.
PSO 4	To evaluate national and international issue and discussion on income tax,
	business tax and corporate related topics.

Course Outcomes (CO's) M.COM

	M. Com I Management Accounting
CO 1	Explain the concepts of Management Accounting in organizational business
	environment.
CO 2	Demonstrate various tools of financial statements of organizational financial
	performance.
CO3	Illustrate methods of financial statement analysis of an organization.
CO 4	Assess different types of ratios of organizational financial performance.
CO 5	Estimate the cash flow of liquidity capacity of firm.
CO 6	
	M. Com I Strategic Management
CO 1	Describe different approaches of strategic decision making in corporate
	environment.
CO 2	Describe various strategies of business and factors affecting on it.
CO 3	Analyse techniques of organizational strengths, weakness, opportunities and
	threats (SWOT).
CO 4	Analyse effectiveness and its utilization in corporate strategic planning.
	M. Com I Financial Management
CO 1	Identify financial system in India & recent changes.
CO 2	Illustrate role of RBI & SEBI in Indian financial system.
CO 3	Discuss capital budgeting techniques for financial decision making.
CO 4	Illustrate capital budgeting methods of investment decisions.

CO 5	Interpret financial statement & its utility of business firm.
CO 6	Describe limitations of financial statements in financial analysis.
CO 7	Identify concept of inventory management & receivable management.
CO /	Production & Operation Management
CO 1	Deliberate process of product design of production function.
CO 2	Demonstrate techniques and tools of product development.
CO 2	Identify production planning in production management.
CO 4	Describe different concept of product control.
CO 1	Financial Analysis & Control Describe concepts of conited by decting
	Describe concepts of capital budgeting.
CO 2	Compute different tools and techniques to identify capital budgeting.
CO 3	Describe Tabulated measurement of cost of capital.
CO 4	Interpret expression view of marginal costing.
CO 5	Evaluate practical problems on marginal costing which correlates to BEP and P/V
 	analysis.
	Industrial Economics
CO 1	To Explain concepts of industrial economics.
CO 2	To Explain relationship between industrial and economic development.
CO 3	To Classify factors influencing industrial location.
CO 4	To Explain major factors affecting industrial efficiency.
	Business Ethics & Professional Values
CO 1	To Identify concept of business ethics, profession and values.
CO 2	To Define factors affecting on social ethics.
CO 3	To Describe Indian Ethical Practices in marketing, advertising and Employment.
CO 4	To Illustrate unethical practices in Gender discrimination and accounting
<u> </u>	disclosures.
<u> </u>	Knowledge Management
CO 1	To Demonstrate concepts of knowledge management.
CO 2	To Describe evolution of knowledge management.
CO 3	To Summarize drives of organizational learning.
CO 4	To Illustrate organizational learning frame work.
CO 5	To Illustrate knowledge management tools.
	Business Finance
CO 1	To Define concepts of business finance in Indian Financial System.
CO 2	To Identify categories of business finance.
CO 3	To Illustrate role of strategic financial planning in business finance.
CO 4	To Distinguish comparison between over Capitalization & under capitalization.
CO 5	To Illustrate role of working capital in the business organization.
	Research Methodology for Business
CO 1	To Define concepts of Research in business.
CO 2	To Interpret different steps in business research process.
CO 3	To Rewrite formulation of research problem in writing of research report.
CO 4	To Illustrate various sample and sampling methods in business research.
CO 5	To Distinguish primary and secondary methods of data collection for research
	Human Resource Management
CO 1	
	To Describe concept, approaches, and functions of HRM in Indian business
CO 1	To Describe concept, approaches, and functions of HRM in Indian business context.
CO 2	

CO 4	To Interpret training process in business organisation.
CO 5	To Classify methods of performance appraisal
	Organizational Behaviour
CO 1	To Define concepts of organizational behaviour.
CO 2	To Illustrate role of information technology in an organization.
CO 3	To Identify concept of Horizontal network and virtual design of organization.
CO 4	To Describe Attributes of personality & dimensions of attitude.
CO 5	To Classify theories of motivation
	Capital Market and Financial Services
CO 1	To Define capital market instruments.
CO 2	To Differentiate forward, future and option contracts.
CO 3	To Explain stock market in detail.
CO 4	To Illustrate functions of primary and secondary market in financial market.
CO 5	To Classify different types of mutual funds.
CO 6	To Describe concept of portfolio management and credit rating.
	Industrial Economic Environment
CO 1	To Define concept of industrial finance.
CO 2	To Explain new industrial policy 1991.
CO 3	To Demonstrate effects of new industrial policy on industry.
CO 4	To Illustrate industrial development & environmental problems.
CO 5	To Explain different issues in information technology
	Recent Advances in Business Administration
CO 1	To Define concepts of change management.
CO 2	To Describe dimensions and approaches of change management.
CO 3	To Demonstrate concept of Total quality management.
CO 4	To Define six sigma techniques in quality management.
CO 5	To Describe Global management system and its significance
	Project Work
CO 1	To Describe concepts of Research in business.
CO 2	To Prepare synopsis for project report.
CO 3	To Construct formulation of research problem.
CO 4	To Modify sample and sampling methods.
CO 5	To Classify primary and secondary methods of data collection.
CO 6	To Describe analysis and interpretation of data.
CO 7	To Rewrite report in different areas.
CO 8	To Summarize modes of citation & bibliography.
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Programmes Specific Outcomes (PSO's) BBA(CA)
Students who take admission to the program of B.B.A. are expected to acquire the following outcomes:-

PSO 1	To enlarge skilled manpower in the various areas of IT like DBMS, Software
	Development, Computer-Languages, Software engineering, Web based
	applications etc
PSO 2	To make employable IT personnel, that will have sound knowledge of IT and
	business fundamentals that can be applied to develop and customize solutions for
	SME.
PSO 3	To be trained in technologies & Programming languages, so the business
	problems could be solved.
PSO 4	Developed communication and business management skills, particularly in

	providing technical support.
PSO 5	Learn the basic concepts of Computers, Business environment and IT
	Applications in Business.
PSO 6	Develop ability of technical writing skills so as to enable the students to
	communicate business ideas to senior management and general public.
PSO 7	To recognize and improve their IT skills.
PSO 8	Effectively learn & analyze technical data to make conclusions.
PSO 9	To aware about ethics, values and sustainability in the corporate world.

Course Outcomes (CO's) BBA.(C.A.)

	F.Y.B.B.A.(C.A.)Modern Operating Environment & MS Office
CO 1	Learned regarding basic knowledge of computers
CO 2	Studied regarding Input and Output Devices
CO 3	Learned about MS Office
CO 4	Studied concept regarding Operating System, LAN, WAN.
	F.Y.B.B.A.(C.A.)Financial Accounting
CO 1	Helps students to acquire sound knowledge of basic concepts of accounting
CO 2	Gains basic accounting knowledge
CO 3	Impart the knowledge about recording of transactions and preparation of final accounts
CO 4	Acquaint the students about accounting software packages (Tally)
	F.Y.B.B.A.(C.A.)Programming Principles & Algorithms
CO 1	It is the basic requirement of programming as students learn basics from
	Algorithms and Flowcharts etc.
CO 2	Students get the knowledge of developing algorithms which develops the logical
00.2	talent of the students.
CO 3	Students get job as a programmer in a good organizations.
00.1	F.Y.B.B.A.(C.A.)Business Communication
CO 1	Students will be able to know the concept, process and importance of
CO 2	communication skill.
	It helps to build up an integrative approach where reading, writing, presentation skills are used together
CO 3	This enhances the students' ability to communicate and write effectively.
CO 4	It helps to create awareness among students about Methods and Media of
	communication.
CO 5	This helps to create students familiar with information technology and improve job seeking skills.
	F.Y.B.B.A.(C.A.)Principles of Management
CO 1	Practice the process of management's & functions of Management & its utility in
	personal life.
CO 2	Evaluate leadership styles to anticipate the consequences of each leadership style.
CO 3	Understand the working of business organization.
CO 4	Recent trends in Management.
	F.Y.B.B.A.(C.A.) Procedure Oriented Programming Using C
CO 1	To Study how to use programming in real time Applications
CO 2	Develop the problem solving capability
CO 3	Learned and develop well-structured programs using C language

	F.Y.B.B.A.(C.A.) Database Management System
CO 1	To understand the file structure and file organization.
CO 2	An introduction regarding of Database management system
CO 3	Database management system helps student to learn different types of data models.
CO 4	Students get knowledge about designing relational database.
	F.Y.B.B.A.(C.A.) Organizational Behavior
CO 1	Helps the students to understand the impact that individual, group & structures have on their behavior within the organizations.
CO 2	Enhance and apply the knowledge they have received for the betterment of the organization.
CO 3	Helps in understanding the basics related to individual behavior and its impact on their performance
	F.Y.B.B.A.(C.A.) Computer Application in Statistics
CO 1	To know the ability of excel spreadsheet in computing summary statistics.
CO 2	To learn the concepts of different measures of central tendency and variation and their importance in business.
CO 3	To study the concept and applications of probability, probability distributions in real life situations.
CO 4	To learn simulations in business world and decision making.
	F.Y.B.B.A.(C.A.) E-Commerce Concepts
CO 1	Studied about concepts of E-Commerce, E-com application, Website and hosting website domain name.
CO 2	Electronic fund transfer and e-cash ,paper less bill concepts studied
CO3	Studied about intranet ,extranet and internet
CO 4	Learned security in e- com- encryption types.
	S.Y.B.B.A.(C.A.)Digital Marketing
CO 1	The aim of this syllabus is to give knowledge about using digital marketing in and as business.
CO 2	To make SWOT analysis, SEO optimization and use of various digital marketing tools.
	S.Y.B.B.A.(C.A.)Data Structure
CO 1	To understand the concepts of ADTs.
CO 2	To learn linear data structures – lists, stacks, and queues
CO 3	To understand sorting, searching and hashing algorithms.
CO 4	To apply Tree and Graph structures
	S.Y.B.B.A.(C.A.)Software Engineering
CO 1	To understand System concepts.
CO 2	To understand Software Engineering concepts
CO 3	To understand the applications of Software Engineering concepts and Design in Software development
	S.Y.B.B.A.(C.A.)Angular - JS
CO 1	By the end of this course, the students should be able to Understand Client Side MVC and SPA.
CO 2	Explore AngularJS Component.
CO 3	Develop an AngularJS Single Page Application.

CO 4	Create and hind controllers with Javasarint
CO 4	Create and bind controllers with Javascript.
CO 5	Apply filter in AngularJS application.
GO 1	S.Y.B.B.A.(C.A.)PHP
CO 1	Understand how server-side programming works on the web.
CO 2	Using PHP built-in functions and creating custom functions.
CO 3	Understanding POST and GET in form submission. 4
CO 4	Understanding POST and GET in form submission. 4. How to receive and process form submission data.
CO 5	Read and process data in a MySQL database.
	S.Y.B.B.A.(C.A.)Big Data
CO 1	To enable learners to develop expert knowledge and analytical skills in current and developing areas of analysis statistics, and machine learning
CO 2	To enable the learner to identify, develop and apply detailed analytical, creative, problem solving skills.
CO 3	Provide the learner with a comprehensive platform for career development,
	innovation and further study
	S.Y.B.B.A.(C.A.)BlockChain
CO 1	Understand how blockchain systems (mainly Bitcoin and Ethereum) work.
CO 2	To securely interact with them, Design, build, and deploy smart.
CO 3	Integrate ideas from blockchain technology into their own projects.
	S.Y.B.B.A.(C.A.)Networking
CO 1	To gain knowledge about Computer Networks concepts.
CO 2	To know about working of networking models, addresses, transmission medias
	and connectivity devices
CO 3	To acquire information about network security and cryptography.
	S.Y.B.B.A.(C.A.)Object Oriented Concepts Through CPP
CO 1	Acquire an understanding of basic object-oriented concepts and the issues involved in effective class design.
CO 2	Enable students to write programs using C++ features like operator overloading,
	constructor and destructor, inheritance, polymorphism and exception handling.
	S.Y.B.B.A.(C.A.)Operating System
CO 1	To know the services provided by Operating System
CO 2	To know the scheduling concept
CO 3	To understand design issues related to memory management and various related algorithms.
CO 4	4. To understand design issues related to File management & algorithms.
	S.Y.B.B.A.(C.A.)Advance PHP
CO 1	To know & understand concepts of internet programming.
CO 2	Understand how server-side programming works on the web
CO 3	Understanding How to use PHP Framework (Joomla / Druple
	T.Y.B.B.A.(C.A.) Node - JS
CO 1	Understand the JavaScript and technical concepts behind Node JS
CO 2	Structure a Node application in modules.
CO 3	Understand and use the Event Emitter.
CO 4	Understand Buffers, Streams, and Pipes.
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CO 5	Build a Web Server in Node and understand how it really works.
CO 6	Connect to a SQL or Mongo database in Node.
	T.Y.B.B.A.(C.A.) Dot Net Programming
CO 1	It introduce visual programming and event driven programming practically
CO 2	Students learne about Architecture of ADO.Net
CO 3	It helps student to understand object oriented programming in VB.NET
CO 4	To increase applications development skills of the students
	T.Y.B.B.A.(C.A.) Object Oriented Software Engineering
CO 1	This subject helps students to get job as a Tester in software company.
CO 2	Students will learn the concept of software engineering in object oriented approach.
CO 3	This subject has large scope in every MNC's.
	T.Y.B.B.A.(C.A.) Advanced Web Technology
CO 1	It give students the basic understanding of how things work in the Web world from the technology point of view as well as to give the basic overview of the web technologies.
CO 2	To understand the concepts of XML, AJAX and database connection.
CO 3	Students are able to build up a dynamic web pages.
	T.Y.B.B.A.(C.A.) Advance Java
CO 1	Understood the detailed knowledge of Threads and Multithreading
CO 2	Learned the basic concept of Java Database
CO 3	Learned the concepts of Servlet and JSP and how to deal with the client and server on web applications
CO 4	Understood the concepts of Socket Programming in java and concept like IP address, Data Input and Output Stream.
	T.Y.B.B.A.(C.A.) Recent Trends in IT
CO 1	This subject assists students to get awareness of recent trends in Information Technology.
CO 2	Students can learn the concept of Network Security, Cloud Computing etc, which helps students to get opportunity as a developer or network administrator in companies. T.Y.B.B.A.(C.A.) Software Testing
CO 1	This subject helps students to get job as a Tester in software company.
CO 2	This subject herps students to get job as a Tester III software company. This subject have wide scope in every MNC's as Testing process is required from
	the starting of every project.
CO 3	Manual and Automation Testing both covers here, students can go for Certifications also which helps to get better opportunities in M.N.C's.

Programmes Specific Outcomes (PSO's) BBA
Students who take admission to the program of B.B.A. are expected to acquire the following outcomes:-

PSO 1	Acquire Knowledge of management and practices to solve business problems.
PSO 2	Acquire professional skills and develop analytical skills for data based decision making.
PSO 3	Ability to understand and development of important business skills such as leadership, communication skills, critical thinking and decision making.

PSO 4	Buildup self confidence and competency to take up self employable business
	ventures.
	Develop Entrepreneurship skills.

Course Outcomes (CO's) BBA

	F.Y.B.B.A. SEM I Business Organization and Systems (101)
CO 1	It helps to make the awareness about various activities of business, business practices and recent trends in business world.
CO 2	It helps to understand the challenges before the businesses and setting up of a business enterprise.
CO 3	To develop the spirit of entrepreneurship among the students.
	F.Y.B.B.A. SEM I Business Communication Skills (102)
CO 1	Students will be able to know the concept, process and importance of communication skill.
CO 2	It helps to build up an integrative approach where reading, writing, presentation skills are used together
CO 3	This enhances the students' ability to communicate and write effectively.
CO 4	It helps to create awareness among students about Methods and Media of communication.
CO 5	This helps to create students familiar with information technology and improve
	job seeking skills
	F.Y.B.B.A. SEM I Business Accounting(103)
CO 1	Financial accounting gives the student a theoretical understanding or how
	accounting principles work within business content.
CO 2	Along with theoretical knowledge students even get practical experience.
CO 3	Accounting help the students to understands basic principles, rules and how to prepare the financial data of the particular the firm.
	F.Y.B.B.A. SEM I Business Economics (Micro)(104)
CO 1	It helps to understand students to basic micro economic concepts.
CO 2	It applies economic analysis in the formulation of business policies.
CO 3	It uses economic reasoning to problems of business.
	F.Y.B.B.A. SEM I Business Mathematics(105)
CO 1	Students learned basics of fundamental maths& Its Use.
CO 2	Studied business problems how it solves by use of maths.
CO 3	Studied matrices and determinants & is Use.
CO 4	Learned the concept of LPP and transportation problem.
	F.Y.B.B.A. SEM I Business Demography& Environmental Studies(106)
CO 1	Understanding environmental concerns by the students at the undergraduate level.
CO 2	Understanding the relationship of man with the environment.
CO 3	Understand the importance of demographic study for Business & Commerce
	FYBBA SEM II Principles of Management(201)
CO 1	Practice the process of management's & functions of Management & its utility in human life.
CO 2	Evaluate leadership styles to anticipate the consequences of each leadership style
CO 3	Understand the working of business organization
	FYBBA SEM II Principles of Marketing(202)

CO 1	It helps to introduce and familiarize the student's basic concepts of marketing
	and it's general nature, scope and importance.
CO 2	This informs appropriate knowledge and understanding of its primary functions
	and applications and its gradual evolution and development.
CO 3	This assist to develop basic and essential skills related to marketing.
CO 4	This helps to provide a learning platform for preparing students for marketing
	employability opportunities essential for industries.
~~ .	FYBBA SEM II Principles of Finance(203)
CO 1	Students will be able to know nature, importance, structure of finance related
00.4	areas.
CO 2	This helps to acquire knowledge regarding sources of finance for a business.
00.1	FYBBA SEM II Basics Cost Accounting(204)
CO 1	It is a process of accounting for costs.
CO 2	It records income and expenditure relating to production of goods and services
CO 3	It provides statistical data on the basis of which future estimates are prepared and
00.4	quotations are submitted.
CO 4	It is concerned with cost ascertainment, cost control and cost reduction.
CO 5	It establishes budgets and standards so that actual cost may be compared to find out deviations or variances.
CO 6	It involves the presentation of right information to the right person at the right
COU	time so that it may be helpful to management for planning, evaluation of
	performance, control and decision making.
	FYBBA SEM II Business Statistics(205)
CO 1	The study of Statistical techniques helps to enhance analytical techniques.
CO 2	The study of Statistical techniques will helps to apply statistical techniques for
002	business organization.
CO 3	The study of Statistical techniques will help to find errors and making decisions
	for business growing
	FYBBA SEM II Business Informatics(206)
CO 1	To know the basics of Computer
CO 2	To understand the basics of networking
CO 3	To know the basics of internet
CO 4	To know the basics of databases
	SYBBA SEM III SYBBA SEM III Personality Development (301)
CO 1	Improve the student confidence level.
CO 2	Increase Communication skills, Motivation, Maximize Strength& Minimize
00.2	Weakness.
CO 3	Assertiveness Attitude of student.
CO 4	Optimism Positivity and Happiness.
00.1	SYBBA SEM III Business Ethics (302)
CO 1	Promote understanding of the importance, for business and the community, of
CO 2	ethical conduct. Provide the skills with which to recognize and resolve ethical issues in business.
CO 3	Provide the skills with which to recognize and resolve ethical issues in business. Enhance awareness and critical self-examination of one's own values, and to
003	appreciate the relevance of personal values in the business/workplace setting.
CO 4	Encourage reflection on the ethical dimension of your own decision-making in
104	workplace and other settings.
	SYBBA SEM III Human Resource Management&OB (303)
CO 1	HRM helps to understand the Humane Resource role & Responsibility, condition
	111411 helps to understand the Humane Resource fore & Responsionity, Condition

	in the organization.
CO 2	HRM helps to understand human resource policies in the organization
CO 3	HRM is the lifeblood of every Company flows by utilizing the human resources.
CO 4	HRM tells us how to deal with HR in recent manner.
CO 4	SYBBA SEM III Management Accounting(304)
CO 1	To acquire basic knowledge of Management Accounting.
CO 2	It helps to familiar terms with the implications of various financial ratios in
	decision making.
CO 3	To learn the significance of working capital in business.
CO 4	To understand the concept of budgetary control and its application in business.
CO 5	To build up the calculating ability of various techniques of management
	accounting.
	SYBBA SEM III Business Economics (Macro)(305)
CO 1	This helps to study the behavior of working of the economy as a whole.
CO 2	This will develop an analytical framework to understand the inter-linkages
002	among the crucial macro economic variables.
CO 3	This will apply economic reasoning to problems of business and public policy.
CO 1	SYBBA SEM III IT in Management(306) To understand the role of IT in Management.
CO 2	To be aware of the basics of operating systems.
CO 2	To know the current happenings.
CO 3	SYBBA SEM IVProduction and Operation Management (401)
CO 1	Identify the customer needs and convert that into a specific product or service
COI	(numbers of products required for specific period of time)
CO 2	Based on product requirement do back-ward working to identify raw material
CO 2	requirements
CO 3	Engage internal and external vendors to create supply chain for raw material and
	finished goods between vendor \rightarrow production facility \rightarrow customers.
	SYBBA SEM IVIndustrial Relations and Labor Law(402)
CO 1	This informs the students with the knowledge about complexities between labour
	and management relationships
CO 2	This help to make the students aware about mechanisms of Industrial Dispute and
	friendly interventions to deal with employee-employer problems.
CO 3	This help to communicate the students with the knowledge of laws & how law
	affects the industry & labor.
	SYBBA SEM IVBusiness Taxation(403)
CO 1	To understand the basic concepts and definitions under the Income Tax Act,1961.
CO 2	To Acquire knowledge about Computation of Income under different heads of
	Income of Income Tax Act, 1961.
CO3	To acquire knowledge about the submission of Income Tax Return, AdvanceTax,
	Tax deducted at Source, Tax Collection Authorities.
CO 4	To develop ability to Competent enough to take up to employment in Tax planner.
CO 5	To develop ability to calculate taxable income of firms, co-operative societies and
	charitable trust
	SYBBA SEM IVInternational Business(404)
CO 1	International business helps to understand the EXIM Policy in India.
CO 2	To Study Various Theory of International Business.
CO 3	International business helps to know the contribution done towards country's
	Economic development.

CO 4	International business helps to understand the domestic and foreign market
	conditions.
	SYBBA SEM IVManagement Information System(405)
CO 1	Management Information System is always management oriented and keeps in
	view every level of management and gets the desired information.
CO 2	Integrated – refers to how different components (sub systems) are actually tied up
	together. eg: different departments of organization linked together.
CO 3	Useful for planning – as every organization makes log-term and short-term plans
	with the help of information like sales & production, capital investments, stocks
<u> </u>	etc management can easily plan.
CO 4	Effective Management Information System helps the management to know
CO 5	deviations of actual performance from pre-set targets and control things.
CO 5	It's important for increasing efficiency.
CO 6	MIS provides updated results of various departments to management.
CO 7	MIS is highly computerized so it provides accurate results.
CO 1	SYBBA SEM IVBusiness Exposure(406) To develop the analysis of the student with a realistic and practical
CO 1	To develop the understanding of the student with a realistic and practical
CO 2	perception of the industry its layout, procedures, processes, organization structure To determine the effective strategies of project management that can lead to better
CO 2	decision making
CO 3	To understand the concept of Plant layout and its implications
CO 3	TYBBA SEM VSupply chain and Logistics Management(501)
CO 1	To understand the fundamental concepts in Materials and Logistics Management.
CO 2	To familiarize with the issues in core functions in materials and logistics
CO 2	management
	TYBBA SEM V Entrepreneurships Development(502)
CO 1	Entrepreneurship Development involves a wide range of training and experience
	and designed to prepare students for starting and managing their own business.
CO 2	This is the subject which teach the students how to start their own business what
	quality should entrepreneur have what are the government schemes provided by
	small industries.
CO 3	It helps to get detail knowledge about the business plans and other things.
	TYBBA SEM VBusiness Law(503)
CO 1	This help to understand basic legal terms and concepts used in law pertaining to
	business.
CO 2	This know applicability of legal principles to situations in Business world
	byReferring to few decided leading cases.
	TYBBA SEM VResearch Methodology(504)
CO 1	To understand the basic concept of research process and tools for the same.
CO 2	To acquire knowledge of the tools and techniques necessary for research and
	report writing.
	TYBBA SEM V Specialization - Human Resource Management
	Human Resource Management Principles and Functions
CO 1	This bring in the concept, principles and practices of H.R.M. to the students
	TYBBA SEM VHuman Resource Practices
CO 1	This assist to make known the students with it & practices
	TYBBA SEM VSpecialization - Marketing Management
	Sales Management
CO 1	To understand fundamental concept of the processes and skills necessary to be
~ ~ .	1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3

	avagassful in marsanal calling and insights about magant trands in sales		
	successful in personal selling and insights about recent trends in sales		
CO 2	management. To understand fundamental concent of the tools and techniques necessary to		
	To understand fundamental concept of the tools and techniques necessary to effectively manage the sales function - organization - sales individual		
CO 3	To develop advanced skills in the areas of interpersonal communications,		
COS	<u> </u>		
	Motivational techniques TYBBA SEM VRetail Management		
CO 1	To provide insights into all functional areas of retailing.		
CO 2	To give a perspective of the Indian retail scenario.		
CO 2			
COS	To identify the paradigm shifts in retailing business with increasing scope of		
	technology and e-business. TYBBA SEM VIBusiness Planning and Project Management(601)		
CO 1	develop plans with relevant people to achieve the project's goals		
CO 2	break work down into tasks and determine handover procedures		
	1		
CO 3	identify links and dependencies, and schedule to achieve deliverables		
CO 4	estimate and cost the human and physical resources required, and make plans to obtain the necessary resources		
COF			
CO 5	allocate roles with clear lines of responsibility and accountability		
CO 1	TYBBA SEM VIEvent Management(602)		
CO 1	This explains the students with concepts, issues and various aspects of event		
	management.		
CO 1	TYBBA SEM VIManagement Control System(603)		
COT	To acquire knowledge of the function of management control, its nature,		
functional areas, and techniques. TYBBA SEM VI Ecommerce(604)			
CO 1			
	The study of E-commerce helps to study different aspect of e-commerce.		
CO 2	The study of E-commerce helps to understand different modes of payments.		
CO 3	The study of E-commerce helps to understand different modes of payments.		
CO 4	The study of E-commerce helps to understand how to use electronic media fo		
	business.		
CO 5	The study of E-commerce helps to gives brief introduction about tally and other		
	business oriented packages.		
	TYBBA SEM VISpecialization - Human Resource Management		
	Labor Laws		
CO 1	This tell the students with important legal provisions governing the industriaL		
	Employees		
	TYBBA SEM VICases in Human Resource Management / Project		
CO 1	This appreciate of application of theory into practice		
	TYBBA SEM VISpecialization - Marketing Management		
	Advertising and Sales Promotion		
CO 1	To enlarge knowledge and understanding of importance and functions of		
	Advertising.		
CO 2	To be aware of Key features of Sales Promotion		
	TYBBA SEM VICases in Marketing Management / Project		
CO 1	To Learn the application of theory into practice		

DEPARTMENT F CHEMISTRY

Program Outcome B.Sc. (Chemistry)

Program Outcome b.sc. (Chemistry)		
	PO-1. Demonstrate, solve and an understanding of major concepts in all	
	disciplines of chemistry.	
	PO-2. To understand basic facts and concepts in Chemistry while retaining the	
	exciting aspects of Chemistry so as to develop interest in the study of chemistry as	
	a discipline.	
	PO-3. Employ critical thinking and the scientific knowledge to design, carry	
Programme	e out, record and analyze the results of chemical reactions.	
Outcomes	PO-4. To develop the ability to apply the principles of Chemistry	
	PO-5. Find out the green route for chemical reaction for sustainable	
	development.	
	PO-6. To inculcate the scientific temperament in the students and outside	
	the scientific community.	
	PO-7. Use modern techniques, decent equipments and Chemistry software" s	

Programme Specific Outcomes B.Sc. (Chemistry)

Programme Specific Outcomes	PSO-1. To appreciate the achievements in Chemistry and to know the role of Chemistry in nature and in society PSO-2. To explain nomenclature, stereochemistry, structures, reactivity, and mechanism of the chemical reactions. PSO-3. To develop problem solving skills. PSO-4. Use modern chemical tools, Models, Chem-draw, Charts and Equipments. PSO-5. Know structure-activity relationship. PSO-6. To be familiarised with the emerging areas of Chemistry and their applications in various spheres of Chemical sciences and to apprise the students of its relevance in future studies. PSO-7. Develop research oriented skills. PSO-8. To develop skills in the proper handling of apparatus and chemicals. To be exposed to the different processes used in industries and their applications.
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Course Outcome B.Sc. Chemistry

T.Y.B.Sc. Semester-III

Course	Outcomes After completion of these courses students should be able to;
CH-331 Physical Chemistry	CO-1. Write an expression for rate constant k and half-life period for third order reaction CO-2. Solve the numerical problems based on k, E _a and A. CO-3 To know the cell constant, types of electrolyte. CO-4.To understands the term refractive index, specific volume, molar volume, and molar refraction, dipole moment, M.I. and spectra of molecule. Derive the expression for rotational spectra for the transition from J to J+1 CO-5. Know the meaning of phase, component, and degree of freedom for one and two component system.
CH-332 Inorganic	CO-1. Know the theories of covalent bond formation.
Chemistry	CO-2. Know the meaning of various terms involved in co-ordination

	chemistry
	CO-3. Calculation of charge on complex ion and oxidation number.
	CO-4. Familiar with IUPAC name of coordination compound.CO-5.
	Know the various types of isomerism in coordination
	compounds.CO-6. Know the need of concept of hybridization.
	CO-1. Define organic acids and bases.
	CO-2. Distinguish between geometrical and optical isomerism.
	CO-3. Discuss kinetics, mechanism and stereochemistry of SN1 and
CH-333 Organic	SN2reactions.
Chemistry	CO-4. Compare between E1 and E2 reactions.
	<u> </u>
	CO-5. Understand the evidences, reactivity and mechanism of various elimination and substitution reactions.
	CO-1. Know the different terms related with gravimetric analysis.
CII 224 A l 4' l	CO-2. To understand different TGA techniques.
CH-334 Analytical	CO-3. To study emr and its interaction with matter.
Chemistry	CO-4. To understand different voltametric techniques.
	CO-5. To know the concept of AAS.
	CO-6. To understand emission spectra by FES.
	CO-1. Know the various industrial aspects.
	CO-2. Classify various insecticides, fungicides, pesticides.
CH-335 Industrial	CO-3. Study the food deterioration factors and their control.
Chemistry	CO-4. Understand Non-starch polysaccharides-cellulose-occurrence.
	CO-5. Study the various operations involved in the manufacture and
	compositions of cement, Glass.
	CO-1 History of polymers.
	CO-2 Difference between simple compounds and polymer.
	CO-3 Names of polymers.
	CO-4 Various methods of nomenclature.
	CO-5 Difference between natural synthetic, organic and inorganic
	polymers.
СН-336-В	CO-6 Terms-Monomer, Polymer, Polymerization, Degree of
	polymerization, Functionality, Number average, Weight
Polymer	average molecular weight. Mechanisms of polymerization.
Chemistry	Polymerization techniques.
	CO-7 Importance of silicone polymers. Derivatives of cellulose
	polymers& their applications. Ingredients added to polymer
	fillers.
	CO-8 Polymer reactions and applications. Polymer reactions and
	their effect on physical and chemical properties.
	CO-9 Advantages of polymer reactions to change their properties.

Semester-IV

Selfiebber 17	
Course	Outcomes After completion of these courses students should be able to;
CH-341 Physical Chemistry	CO-1.Understand Mechanics of system of particles. CO-2.Know the concept of electrode, cell reaction, types of electrode. CO-3.Solve the cell reaction and calculate Ecell, pH. CO-4. Calculate wavelength angle interplanar spacing

	00 5 H. J
	CO-5.Understand De-Broglie hypothesis and Uncertainty
	principle
	CO-6. Derive Schrodinger's time dependent and independent
	equations
	CO-1 Understand the behaviour of f-block elements.
	CO-2. Know the band theory of metal.
CH-342 Inorganic	CO-3. Understand the nature of solid.
Chemistry	CO-4. Define catalysis and various terms involved in it.
Chemistry	CO-5. Understand biological role of inorganic ions and
	compounds.
	*
	CO-1.To study UV, IR and NMR spectroscopy.
	CO-2. Discuss different types of rearrangement reactions.
GTT 0.10 O	CO-3. Determine structure of compound by spectroscopic
CH-343 Organic	methods.
Chemistry	CO-4. Understand the difference between carbocation and
	carbanion.
	CO-5.To study alkaloids, Ephedrine, citral molecule with their
	properties and application.
	CO-1. Know the different analytical techniques.
	CO-2. To understand different types of separation techniques.
	CO-3. To study principle, construction and working of GC and
CH-344 Analytical	HPLC.
Chemistry	CO-4. To give an extended knowledge about chromatographic
Chemistry	techniques used for separation of amino acids.
	CO-5. Discuss the problem based on distribution coefficient and
	extraction techniques.
	CO-1. Know the classification of pharmaceutical drugs, their
	nomenclature, application and synthesis.
	± ±
CII 245 Industrial	CO-2. To study the waste management.
CH-345 Industrial	CO-3. To understand the classification and uses of dyes, paints
Chemistry	and pigments.
	CO-4. To study the different types of soap products.
	CO-5. To know importance of sugar industry.
	CO-6. To study the basics of polymer nomenclature.
	CO- 1 Polymer degradation, Chemical and geometric structures
	of polymers.
	CO-2 Important polymers like PVC, polystyrene, polyvinyl
	alcohol, Teflon, Resins, nylon, epoxypolymer, Uses &
CH-346-B	properties of polymers.
Polymer	CO- 3 Role of polymer industry in the economy., Advantages of
Chemistry	polymers, Some industrially important polymers polymer
<u> </u>	processing?
	CO-4 Different polymer processing techniques. Polymer testing
	and analysis, Properties of polymers &testing., Various fiber
	spinning techniques, Reinforcement & compounding of polymers.
	CO-1. To find the rate constant of reaction k and relative strength.
CH-347 Physical	CO-2. Study the energy of activation for second order reaction.
Chemistry practical.	CO-3. To find order of reaction.
7 F-111 321	CO-4. Find out the acidity, Basicity and PKa value on pH meter.
	CO-5. To find unknown concentration of solution by colorimeter.

	CO-6. To determine pH of various buffer solution by
	potentiometer.
	CO-1. Study the gravimetric and volumetric estimations.
	CO-2. Preparation of inorganic complexes
CH-348 Inorganic	CO-3. To study qualitative analysis of binary mixture with
Chemistry Practical" s	removal of borate and phosphate radical.
	CO-4. To understand the separation of ions by the
	chromatographic techniques
	CO-1. Perform the Binary mixtures.
	CO-2. Preparation of organic compounds, their purifications and
CH-349 Organic	run
Chemistry Practical" s	TLC.
Chemistry Practical S	CO-3. Determination of physical constant: Melting point, Boiling
	point.
	CO-4. Different separation techniques.

S.Y.B.Sc. Semester-I

Course	Outcomes After completion of these courses students should be able to;
CH-211 Physical and Analytical Chemistry	CO-1. Concept of kinetics, terms used, rate laws, types of order CO-2. Know Types of photochemical reactions and photophysical process CO-3 Distribution law and nature of solute in solution state CO-4. Chemical analysis and its applications CO-5. Meaning of error and terms related to expression & estimation of errors CO-6 Method of detection of Basic and acidic radicals
CH-212 Organic and Inorganic Chemistry	CO-7 Classification of compounds with different functional groups CO-1 Draw the structure of boat and chair configuration its energy and stability of cyclohexane CO-2 Define and classify heterocyclic compounds and their reactions and preparations CO-3 Differentiate between ore and minerals. CO-4 electrolysis of alumina and its refining, their alloys and application CO-5 understand Metallurgy of Iron and Steel CO-6 Methods of prevention of metal from corrosion.

Semester-II

Semester 11		
Course	Outcomes After completion of these courses students should be able to;	
CH-221 Physical and Analytical Chemistry	CO-1. Chemical and physical equilibrium CO-2. Ideal and non ideal solutions and laws governing these solutions CO-3. Meaning of equivalent weight, molecular weight, normality, molality, primary and secondary standards.	

	100 4 m
	CO-4. Types and role of indicators.
	CO-5.
	CO-6.
	CO-1Concept of different reagents used in the one type of
	conversion.
	CO-2. Write and complete various reactions of heterocyclic
	compounds.
CII 222 Organia and	CO-3. role of biochemistry in the day to day life
CH-222 Organic and	CO-4. Write cyclic structure of glucose in Fischer, Haworth and
Inorganic	chair form
Chemistry	CO-5. position of d-block elements in periodic table.
	CO-5 organometallic chemistry
	CO-6 To define acids and bases according to Arrhenius theory
	Lowery- Bronsted concept, Lewis concept.
	CO-7 To know toxic chemical in the environment.
	CO-1. Correlate the theory and experiments and understand their
	importance
CH 222 P 4: 1 C	CO-2 Perform the complete chemical analysis of the given
CH-223 Practical Course	organic compound
in Chemistry	CO-3. Verify theoretical principles experimentally
	CO-4. Perform all the activities in the laboratory with neatness
	and cleanness.
	CO-5. Acquire skill of crystallisation, record correct m. p. / b. p.

F.Y.B.Sc. Annual Pattern

Course	Outcomes
Course	After completion of these courses students should be able to;
	CO-1. to solve problems regarding van der Waal's and Critical
Cham Danas I	constant and regarding P-V-T relations
Chem. Paper I- Physical and	CO-2. Theoretical basis of adsorption phenomena is integrated
•	CO-3 to solve problems based on GMV relationship.
Inorganic	CO-4. Student lnows about atomic structure chemical
Chemistry	thermodynamics
	CO-5. Concept of hybridization and differentiation with overlap
	CO-1 knows the structure, bonding, properties and
	reactivities of organic molecules such as covalent character,
Chem. Paper II-	hybridization, bond
Organic and	angles, bond energies, bond polarities and shapes of molecules.
Inorganic	CO-2Structural effects and their applications in determining strength
Chemistry	of acids and bases.
	CO-3The common and IUPAC names of alkanes, alkenes, alkynes
	and homocyclic, polycyclic aromatic hydrocarbons

	CO-4Skeleton of long form of periodic table
	CO-5 Structure, nomenclature, preparation and reactions of organic compounds.
	CO-6 Concept of isomerism, types of isomers and representation of organic molecules.
	CO-7 Concept of oxyanions, different than mineral acids, oxyacids of phosphorous &sulphur
Chem .Paper III Practical Course	CO-1 Verify theoretical principles experimentally CO-2. Improvement of practical skills of the students. CO-3. Acquire skill of crystallisation CO-4. record correct m. p. / b. p.

Programme Outcomes: M. Sc Organic Chemistry

Department	After successful completion of two year degree program in chemistry a student	
of Chemistry	should be able to;	
Programme	PO-1. Determine molecular structure by using UV, IR and NMR.	
Outcomes	PO-2. To give students a comprehensive understanding of the principles of	
	Chemistry	
	PO-3. Improve the Skill of student in organic research area.	
	PO-4. To gain the skill to design and carry out scientific experiments and	
	interpret the data.	
	PO-5. Study of Asymmetric synthesis.	
	PO-6. Determine the aromaticity of different compounds.	
	7. To be able to define and resolve new problems in Chemistry and participate in	
	the future development of Chemistry.	

Program Specific Outcome M.Sc. (Organic Chemistry)

Course

PSO1	To develop the post graduate department on the modern lines of education and training levels.
PSO2	To impart the advanced practical and theoretical knowledge to the students and develop the scientific skills among them to be useful in the concerned field.
PSO3	To trained students and make them eligible for accessing integrated multidimensional fields.
POS4	Anticipation of new/upcoming areas in academics as well as in technology.

Outcomes M.Sc. (Organic Chemistry)

Semester-I

1	CHP-110 Fundamentals of Physical Chemistry-I	CO-1. The course aims to provide fundamental understanding of physical chemistry.
		CO-2 Students learn the concept of Gibbs and Helmholtz energies, Chemical potential and Expressing Chemical equilibrium in terms of chemical potential.
		CO-3 Elements of quantum chemistry, wave particle duality, uncertainty principle, wave function and its interpretation, well behaved functions, ortho normal functions, Schrodinger equation, particle in a box, degeneracy, quantum mechanical harmonic oscillator and quantum tunneling are introduced.
		CO-4. Students are made aware of Chemical kinetics and reaction dynamics topics such as Reversible reactions, principle of microscopic reversibility, steady state approximation and elucidating mechanism
		using SSA. Arrhenius theory, enzyme catalysis and Michaelis-Menten mechanism.
2	CHI-130 Molecular Symmetry & Chemistry of p-block elements	CO-1. This is made to understand the symmetry and group theory and use this knowledge to interpret the properties like dipole moment, optical activity, and signals in IR and Raman spectroscopy.
		CO-2. Students are also made to understand the properties of main group elements and their applications in fields like catalysis, industry, human metabolism and medicines etc.
		CO-3. It also explains organometallic compounds of Si, Sn, Pb, Ga, As, Sb, Bietc and their synthesis and reactions.

3	CHO-150 Basic Organic Chemistry	CO-1. This course helps to improve basic organic concepts.
		CO-2. The Purpose of the course is to aware the students for basic organic chemistry.
		CO-3. The main intension of the course is that to know stereochemistry of carbon compounds, how towrite structure of molecules & their reactivity.
		CO-4. Student should aware about reaction mechanism.
4	CHA-190 Safety in Chemical Laboratory and Good Laboratory Practices	CO-1. The Students are made aware of necessary guidelines of safety in chemical laboratory and good laboratory practice.
		CO-2. Students get acquainted with different types of hazards at work place, use of personal protective.
		CO-3 Students also aware about types of fire extinguisher inventory management, storage and disposal material safety data sheets.
		CO-4 Students should know how to handle first Aid as while working different chemicals are in contact with the skin, eyes and inhalation and ingestion.

Semester- II

5	CHP-210 Fundamentals of Physical Chemistry II	CO-1. The course aims to provide understanding of physical chemistry; CO-2 In this course fundamentals of molecular spectroscopy are introduced. Students learn basic elements of rotational, vibrational, raman and electronic spectroscopy. CO-3. Nuclear and radiation Chemistry concepts are introduced. Students get familiar with Chemical Bonding. CO-4 Valence Bond theory, hybrid orbital, geometry and hybridization, Molecular Orbital Theory, linear variation method, Approximations underlying Huckel theory, bond order, Aromaticity, Applications ofHuckel theory.
6	CHI- 230 Coordination and Bioinorganic Chemistry	CO-1. Students are made aware of spectral and magnetic properties of d and f block elements, spectrophotometric analysis of metals like Cr, Mn, Ni and magnetic behavior of various complexes of f block elements in MRI and as TV phosphors. CO-2 Students are also made aware of a role of metal ion in biologically active compounds like Hb, Mb

		cytochromes and use of anticancer drugs i.e.platinum
		Complexes. CO-3 It explains biochemistry of Na, K, Ca, with respect to Na/K pumps.
7	CHO-250 Synthetic Organic Chemistry & Spectroscopy	CO-1. The main aim of this course is to study with various basic organic reactions with mechanism, reagent and ylides
		.CO-2 This course also covers with the basic introduction to various spectroscopic methods like UV, ¹ H-NMR, ¹³ C-
		NMR, IR, Mass spectrometry and their applications.
8	CHA-290 General Chemistry	CO-1 The basic purpose of this course is to understand the importance and properties of mass spectrometry, gas chromatography and high performance liquid Chromatography. CO-2 Students also familiar with concept of analytical chemistry like data handling and spreadsheets, Sampling, Standardization and calibration. CO-3 Separation by precipitation, distillation, extraction and ion exchange chromatography.
9	CHP-107 Practical Course (Physical Chemistry)	CO-1 Students are trained to use the techniques such as pH metry, Conductometry, Potentiometry, Colorimetry, Spectrophotometry, Refractometry and G. M. Counter.
		CO-2 These techniques will enable them to work asquality control chemist in various labs and such organizations.
		CO-1 Students are given the knowledge of basic preparation of various solutions, synthesis of various inorganic complexes and their characterization.
10	CHI-147 Practical Course (Inorganic Chemistry)	CO-2 The students are trained for handling of natural materials and their quantitative analysis which involves disintegration, separation and individual estimations.
		CO-3 They are given hands on training to handle various equipments like spectrophotometer, flame photometer, Condutometer etc.
11	CHO-247 Practical Course (Organic Chemistry)	CO-1 This course makes the students to aware of different organic techniques like purification, crystallization, distillation, TLC, M.P./B.P. this course develops scientific views, organic synthesis and also give knowledge of separation of ternary organic mixtures.
		CO-2 Studentgets Knowledge of chemistry software likes, MOPAC, ISIS draw, Chemdraw office.

Semester- III

		CO-1 The main aim of this course is to learn and understand the basic concept in reaction mechanism.
12	CHO-350 Organic reaction mechanism	CO-2 This course helps the students to understand the role of recent reagent, catalyst in mechanism of reaction.
		CO-3 This course also helps to improve the thinking ability of the students towards reaction mechanism.
13	CHO-351 Spectroscopic Methods in Structure	CO-1. This course enables to the students learn the basic of spectroscopic methods like UV, ¹ H-NMR, ¹³ C-NMR, IR, Mass spectrometry and their application.
	Determination.	CO-2. This course gives idea of structure determination of known and unknown organic molecules by using spectroscopic data.
		CO-1. This course helps to aware the students to understand the stereochemistry of organic reactions.
14	CHO-352 Organic Stereochemistry	CO-2. Also gives detail idea regarding stereochemistry of alicyclic rings, fused, bridge and caged rings.
		CO-3. This course also includes resolution of racemic modification and determination of stereochemistry of organic compound using NMR, which helps to the students that they predict stereochemistry of organic compounds
	CH-353	CO-1. The aim of this course is to furnish the students with fundamental and theoretical understanding of heterocyclic chemistry.
15	Photochemistry, pericyclic Reactions and Heterocyclic	CO-2. This course includes photochemistry and pericyclicreactions which helps the students to improve their imagination power.
	Chemistry	CO-3.Heterocyclic chemistrygives basic idea to the students in synthesis of different heterocyclic derivatives.

Semester- IV

16	CHO-450 Chemistry of Natural products	CO-1. In this course PG students learn the different pathways of synthesis of natural products. CO-2. It also helps stereochemistry and structure determination of some natural products.
		CO-3. The biogenesis develops the synthetic

		strategies to prepare different important natural compounds in the laboratory. CO-4.This course involves multistep synthesis of coumarins,flavonoids, isoflavonoids and terpenoids.
	CHO-451 Advanced Synthetic Organic Chemistry	CO-1. This course involves organometallic chemistry which helps the students to develop their ideas in organic synthesis.
17		CO-2. This course involves the reactions like coupling reactions, multicomponent reactions, ring formation reactions, olifinationwhichhelpsthestudentstoplansynthesisof new organic molecules.
		CO-3.Click chemistry develops the ecofriendly approach towards organic synthesis.
	CHO: 452 Carbohydrate and Chiron Approach,Chiral Drugs and Medicinal chemistry	CO-1. This course is designed to make the students aware of the chemistry of biomolecules and basic concept of retrosynthetic strategy and synthesis of chiral drugs.
18		CO-2. This course also gives knowledge of synthesis of pharmacologically active chiral drugs.
		CO-3. Medicinal chemistry helps to introduce the drugs and their biological properties to the students.
		CO-4. It also helps to understands pharmacokinetics and pharmacodynamics of the drugs and drug targets.
	СНО-453	CO-1. This course is specially designed to understand the designing of organic synthesis, which helps develops the research ideas.
19	Designing organic Synthesis and Asymmetric Synthesis.	CO-2. It involves principle and applications of asymmetric synthesis which helps to predict the chiral products in organic synthesis.
		CO-3.Students also came to know the use of cram rule, felkinanh rule, cram chelate model, use of chiral auxillary and chiral reagents in organic synthesis.
20	CHO-347 Single stage preparations	CO-1. This practical course involves single stage preparation of different organic compounds and heterocycles.
		CO-2. The main objective of this course is to develop the skilled practical hand of the students in laboratory.
21	CHO-447 Two stage Preparations	CO-1. This course includes multistep synthesis of organic compounds and heterocycles.
		CO-2. This course helps the students to improve the techniques like workup of reactions, purification, TLC, M.P / B.P etc.

		CO-3. The main of this course is to improve practical skill and practice of micro scale preparation.
	CHO-448	CO-1. This course makes the students to aware of roll of green chemistry in organic synthesis.
22	Green Chemistry	CO-2. Green chemistry helps to reduce the pollution.
	Practical	CO-3. The main objective of this course is how to avoid solvents and do solvent free reactions.

Programme Outcomes: M. Sc Analytical Chemistry

Department	After successful completion of two year degree programme in chemistry a	
of Chemistry	student should be able to	
Programme	PO-1.Demonstrate, solve and an understanding of major concepts in all	
Outcomes	disciplines of Chemistry.	
	PO-2. Work in the pure, interdisciplinary and multidisciplinary areas of	
	chemical sciences and its applications	
	PO-3. Create an awareness of the impact of chemistry on the society, and	
	development outside the scientific community.	
	PO-4. Analyse data obtained from sophisticated instruments (like UVVis,	
	Fluorescence, FTIR, NMR, GCMS, HPLC, GCMS and TGA) for the structure	
	determination and chemical analysis. PO-5. Employ critical thinking and the	
	scientific knowledge to design, carry	
	out, record and analyze the results of Chemistry experiments.	
	PO-6. To inculcate the scientific temperament in the students and outside the	
	scientific community.	
	PO-7. Apply green chemistry approach towards planning and execution of	
	research in frontier areas of chemical sciences.	

Programme Specific Outcomes Analytical Chemistry

Programme	PSO-1. Learn about the potential uses of analytical industrial chemistry.
Specific	PSO-2. Gains complete knowledge about all fundamental aspects of all the
Outcomes	elements of chemistry
	PSO-3. Learn the classical status of thermodynamics.
	PSO-4. Learns about the potential uses of analytical industrial chemistry.
	PSO-5. Understand good laboratory practices and safety.
	PSO-6. Introduce advanced techniques and ideas required in developing area
	of Chemistry.
	PSO-7. Make aware and handle the sophisticated instruments/equipments.
	PSO-8. Carry out experiments in the area of organic analysis, estimation,
	derivative process, inorganic semi micro analysis, preparation, conductometric
	and potentiometric analysis.

Course Outcomes M.Sc. (Analytical Chemistry Semester- III

1	CHA-380 Geological and alloy analysis and analytical method development and validation	CO-1 To study assay validation and inter laboratory transfer. CO-2 To study the analysis geological materials and alloys. CO-3 To study analysis of soil ,sampling ,chemical analysis as a measure of soil fertility.	
2	CHA: 390 Electro analytical radio analytical methods of analysis	CO-1 To study Principle, Instrumentation and applications of Coulometry. CO-2 To study Voltammetry and polarography methods of analysis and problems CO-3 To study Amperometry and its applications. CO-4 Understand Radio Analytical techniques. CO-5 To study Thermal methods of analysis and their types, problems.	
3	CHA-391 Pharmaceutical Analysis	CO-1 To study the dissolution of Tablets & Capsules. CO-2 To study Formation & Packaing of Tablets & Capsules. CO-3 To study of Various Vitamins. CO-4 To study of Disintegration of Tablets & Capsules. CO-5 To study of different types of Assay.	
4	CHA-392 Advanced Analytical Techniques	CO-1To study the solvent Extraction. CO-2 To study the Solid Phase Extraction CO-3 To study microwave Assisted Extraction. CO-4 To study the Mass Spectroscopy. CO-5 To study the AAS& AFS.	
	Semester- IV		
CO-1Study of acute poisoning clinical toxicology			

		CO-1Study of acute poisoning clinical toxicology.
		CO-2 Learn the isolation, identification and
	CHA -481	determination of narcotics, stimulants and
5	Analytical toxicology and	Depressants.
3	food analysis.	CO-3 Study the classification function, analysis of
		carbohydrate, protein, lipids.
		CO-4 Study the food preservatives, identification,
		determination, and composition.
		CO-1 To study Principle, Instrumentation and
		applications of ESCA, AES and UPS.
		CO-2 Learn X-ray methods of analysis and problems
	CHA-490	based on their theory.
6	Analytical Spectroscopy	CO-3 To study Introduction of electron microscopy
		and its applications.
		CO-4 Understand Chemiluminescensces,
		Phosphorescence's and fluorescence.
		CO-5 To study H-1, C-13 and 2-D NMR

		Spectroscopy.
	+	CO-1. Study of Analysis of Fertilizer by Various
7	CHA -491 Analysis of Fertilizer, soap & detergents, water analysis & polymer analysis, paint & pigments	methods. CO- 2. Learn the analysis of soap & detergents by various analytical methods Study the determination of Iron from detergents by calorimetrically. CO - 3. Study the water analysis & parameters of water. CO-4. Learn the Polymer chemistry. Analysis and testing of polymer, Measuremets of Molecular weight & size. CO-5 Study the paint And pigment analysis. Learn the estimation of zinc & chromium. And various elements from Pigment sample
8	CHA-492 Pollution monitoring and control and analysis of body fluid.	CO-1 Study of pollution monitoring removal of heavy toxic metals Cr,Hg,Cd,Pb,As. CO-2 Study of removal of particulate matter SO2 and NOx. CO-3 Study the collection of specimen blood, urine, faeces. CO-4 Analysis of vitamins. CO-5 To Study the liver function and kidney function test.
9	CHA-387 practical course-I (Analysis of Materials)	CO-1 Study the Analysis of Ore by Gravimetrically & Volumetric techniques. CO-3 Study the Analysis of Ally by Volumetric Method CO-4 Determination Calcium, Magnesium & Silica From Sample Cement. CO-5 Determination of Iron From Sample of Detergent by colorimetrically. CO-6 Learn the colorimetric or Spectrophotometric techniques. CO-7 Learn the Gravimetric & Volumetric method.
10	CHA-487 Practical Course-II (Instrumental Analysis)	CO-1 Study of Spectroscopic techniques. CO-2 Study of Turbidimetry and Nephelometry techniques. CO-3 Study of Polarimeter, FES, Polarography. CO-4 Analysis of Riboflavin by Photoflurometer. CO-5 To Study Potentiometer, Conduct meter and Photometric determinations.
11	CHA-488 Organic practical course- III (Analysis of Pharmacuatical,food and bio analytical samples)	CO-1 study the dissolution of tablets CO-2 Learn the spectroscopic techniques. CO-3 Estimation of Lycopene from given tomatoes sample. CO-4 Determination of Glucose from given Glucon-D.

Programmes Specific Outcomes (PSO's) B.Sc.- Mathematics

PSO 1	Be able to explain the core ideas and techniques of mathematics.	
PSO 2	Be able to recognize the power of abstraction and generalization, and to carry	
	out investigate mathematical work with independent judgment.	
PSO 3	Be able to carry out objective analysis and prediction of quantitative	
	information with independent judgment.	
PSO 4	Be able to communicate effectively about mathematics to both lay and expert	
	audiences using appropriate information and communication technology.	
PSO 5	Be able to conduct self-evaluation, and continuously enrich themselves through	
	lifelong learning.	

Course Outcomes (CO's) B.Sc.- Mathematics

	F. Y. B.Sc Paper I(Algebra & Geometry), Paper II (Calculus & Differential	
	Equations) Paper III (Practical Based on Paper I & II)	
CO 1	Developing the interest towards mathematics.	
CO 2	Creating the relationship of mathematics with other subjects.	
CO 3	Give the students a sufficient knowledge of fundamental principles, methods and tools and know how to use them by modeling, solving and interpreting.	
CO 4	A student should get adequate exposure to global and local concerns that expose them many aspects of Mathematical Sciences.	
	S. Y. B.Sc Paper I(Multivariable Calculus I & Linear Algebra), Paper II(
	Laplace Transform and Fourier Series & Multivariable Calculus II) Paper	
	III (Practical Based on Paper I & II)	
CO 1	Reflecting the Board nature of the subject and developing mathematical tools for	
	continuing further study in various fields of science.	
CO 2	Developing several perspective of multivariable calculus.	
CO 3	Developing the knowledge of linear algebra which many applications in	
	computers.	
CO 4	Developing problem solving skills of differential equations by using Laplace	
	Transform.	

SCIENCE FACULTY

DEPARTMENT OF PHYSICS Program Outcome B.Sc. (Physics)

	· · · ·	
Programme	nme PO-1. Demonstrate, solve and an understanding of major concepts in all	
Outcomes	disciplines of Physics.	
	PO-2. To understand basic facts and concepts in physics while retaining the	
	exciting aspects of physics so as to develop interest in the study of Physics as a	
	discipline.	
	PO-3. Employ critical thinking and the scientific knowledge to design, carry	
	out, record the results of physics.	

PO-4. Demonstrate an understanding of Newton's laws and applying them in
Calculations of the motion of simple systems.
PO-5. Find out the green route for Physical properties sustainable development.
PO-6. To inculcate the scientific temperament in the students and outside
the scientific community.
PO-7. Use modern techniques, decent equipments and Physics software's

Programme Specific Outcomes B.Sc. (Physics)

	1 rogramme specific Outcomes D.Sc. (1 mysics)
Programme	PSO-1. To appreciate the achievements in Physics and to know the role of
Specific	Physics in nature and in society
Outcomes	PSO-2. Understand the concepts of energy, work, power, the concepts of
	conservation of energy and be able to perform calculations using them.
	PSO-3. To develop problem solving skills.
	PSO-4. Use modern Physics component, Models, Charts and
	Equipments.
	PSO-5. Understand the concepts of elasticity, the concepts of surface tension,
	viscosity etc and be able to perform calculations using them.
	PSO-6. To be familiarized with the emerging areas of Physics and their
	applications in various spheres of Chemical sciences and to apprise the students
	of its relevance in future studies.
	PSO-7. Develop research oriented skills.
PSO-8. To develop skills in the proper handling of apparatus and compone	
	To be exposed to the different processes used in industries and their
	applications.

Course Outcome B.Sc. Physics T.Y.B.Sc. Semester-III

Course	Outcomes After completion of these courses students should be able to;
	CO-1. To understand Various Co-Ordinate system and transformation equations CO-2. To understand Special theory of relativity and Michelson morleys experiment CO-3 To understand Differential equation and solution of Power Series CO-4 Understand Special Function for various polynomial and its solution
PH332: Solid State Physics	CO-1. Know the theories of covalent bond formation. CO-2. Know the meaning of various terms involved in co-ordination Physics CO-3. To Understand Basic of Crystal and its Various types and Its Properties Miller indices CO-4 To understand Various techniques for Crystal Analysis Like X-Ray diffraction, TGA, UV-visible spectroscopy, Electron microscopy(SEM) CO-5 To understand Free Electron and Band Theory of Metals and also Understand Difference between Metal Semiconductor and inculcator

	CO 1 T 1
	CO-1. To demonstrate an understanding of Newton's law of Motion and their application like in field of Projectile motion and Rocket motion, Motion of a charged particle in constant electric, magnetic and electromagnetic field.
PH-333 Classical	CO-2. Understand the Central Force and Kepler law for Planetary Motion
Mechanics	CO-3. To understand the Scattering of Particle and types of scattering. CO-4. To understand the Langrangian and Hamiltonian equation of motion and Limitations of Newtonian mechanics over it.
	CO-5. To understand Canonical Transformation and Poisson's Bracket.
	CO-6 To improved problem solving skills in all the topics covered.
	CO-1. To understand Atomic Structure and Spectra and energy levels of
	atom.
PH334 Atomic and	CO-2. To understand Pauli's exclusive Principle and electron configuration CO-3. To understand Spectral terms of two electron atoms, terms for equivalent electrons, LS and JJ coupling schemes.
Molecular Physics	CO-4. To understand Zeeman Effect and its Type and also Understand Stark Effect.
	CO-5. To understand Various Spectroscopy like X-Ray spectroscopy
	Molecular Spectroscopy and Raman Spectroscopy.
	rational spectroscopy and raman spectroscopy.
	CO-1. Concept of programming by using algorithms and flow charts CO-2 C language programming by input, output, loops and conditional commands.
PH335: Computational	CO-3. Arrays and pointers in C using 2D and 3D arrays.
Physics	CO-4. User Defined Function in C and storage class.
	. CO 5 Combine in a of Line Circle And Ellines Den
	CO-5. Graphics in c of Line, Circle, Arc, Ellipse, Bar.
	CO-6 Computational Physics: errors, bisection method, Newton Ramphson methods, Simpson 1/3rd rule
	CO-1 Demonstrate an understanding of energy sources and need of energy
	in life. Also understand about structure of sun and it's direct and indirect
	from of energy.
	CO-2 To understand the type of energy sources and importance of it.
PH 336 Elective I (E)	
	CO-3 Demonstrate an understanding of the thermal utilization of sun
Sources	energy and also photovoltaic utilization of sun energy.
	CO-4 Demonstrate an understanding of Indirect from of sun energy Like
	Wind energy and Biomass Energy
	CO- 5 Demonstrate quantitative problem solving skills in all the topics
	covered.

Semester-IV

Course	Outcomes After completion of these courses students should be able to;
PH-341: Classical Electrodynamics	CO-1. Understand the Electrostatics and Coulomb's Law Gauss law, Electric field, Electrostatic Potential. CO-2. Understand the Method of image charges: Point charge near an infinite grounded conducting plane. Point charge near grounded

	conducting sphere. CO-3. Understand the Concepts of magnetic induction, magnetic flux and magnetic field CO-4. Understand Concept of electromagnetic induction, Faradays law of induction, Lenz's law, displacement current, generalization of Amperes' law CO-5. Understand the Maxwell's equations (Differential and
	Integral form) and their physical significance.
PH-342: Quantum Mechanics	CO-1 To understand Origin of Quantum Mechanics and its historical background and various concepts of Q.M. CO-2 To underhand Physical interpretation of wave function Schrodinger time dependent equation and Schrodinger time independent equation. Also student understand the Applications of Schrodinger Steady state equation for Free particle step potential and harmonic Oscillator CO-3. To understand Schrodinger's equation in spherical polar coordinate system CO-4. To Understand Operators in Quantum Mechanics and its used to solved Problem.
PH-343: Thermodynamics and Statistical Physics	CO-1. To Understand Kinetic Theory of Gases Mean free path, Transport phenomenon, Viscosity, Thermal conductivity and diffusion of Gas CO-2. To understand Internal Energy, Enthalpy, Helmholtz function, Gibb's function, Derivation of Maxwell Relations, First and Second TdS Equations, Specific heat and latent heat equations, Joule Thomson effect. CO-3. Determine structure of compound by spectroscopic methods To understand Probability distribution and its Types CO-4. To understand the Statistical ensembles, Basic Postulates, Probability calculations, Behaviors of density of states, Thermal, Mechanical and general interactions CO-5 To understand Micro canonical Ensemble (Isolated System), Canonical ensembles, simple application of canonical ensemble, Molecules in Ideal gas, Calculation of mean values in canonical ensemble
PH 344 Nuclear Physics	CO-1. Understand Basic Properties of Nucleus. CO-2. Understand Radioactivity and half life period of Radioactive substance and its application in various field CO-3. To understand Nuclear forces and its types also understand Quark model of Nucleolus and elementary particle. CO-4. To understand to Various Accelerator and detector CO-5. To Understand Nuclear fission, chain reaction and critical mass, nuclear reactor and its basic components, homogeneous and heterogeneous reactors
PH345: Electronics Physics	CO- 1 Special Purpose Diodes like LED, photodiode, Varactor, Optocoupler etc. CO-2 Transistor amplifiers class A, Class B, class c and class AB push pull amplifiers CO- Role Field Effect Transistor JFET, MOSFET, Application of JFET etc.

	CO-4 Combinational Circuits Introduction to SOP and POS
	techniques.
	CO-1. Understanding of basic and advanced concepts in Physics.
PH-347: Laboratory Course	CO-2. Theoretical and practical skills along with problem solving
I	ability.
	CO-3. Learn various experimental and computational tools thereby
	developing analytical abilities to address real world problems.
	CO-1. This course in statistical mechanics provides the basic idea
	of probability to the students. There are ways of calculating
	probability for various statistical system of particles
DII 249, I ah anatany Causa	CO-2 Students have understood the concept of phase space and its
PH-348: Laboratory Course	volume
II	CO-3 Understand the behaviour of electronic components and
	perform analysis and design of bias circuits for diodes, transistors
	etc.
	CO-4 Computational Physics: errors, bisection method, Newton
	Ramphson methods, Simpson 1/3rd rule
	CO-1. Understand the behaviour of electronic components and
	perform analysis and design of bias circuits for diodes, transistors
PH-349: Laboratory Course	F
III (Project)	CO-2 Understanding of basic and advanced concepts in Physics.
	CO-3. To improve the knowledge about Characterization
	techniques

S.Y.B.Sc. Semester-I

Course	Outcomes After completion of these courses students should be able to;
	CO-1 Understand the complex algebra useful in physics courses
PH211:	
MATHEMATICAL	CO-2 Understand the concept of partial differentiation
MEHODS IN	CO-3 Understand the role of partial differential equations in physics
PHYSICS	CO-4. Understand vector algebra useful in mathematics and physics
	CO-5 Understand the singular points of differential equation
	CO-1 Apply laws of electrical circuits to different circuits.
ELECTRONICS	CO-2 Understand the relations in electricity
ELECTRONICS	CO-3 Understand the properties and working of transistors
	CO-4 Understand the functions of operational amplifiers
	CO-5 Design circuits using transistors and operational amplifiers
	CO-6 Understand the Boolean algebra and logic circuits

Semester-II

Semester 11	
Course	Outcomes After completion of these courses students should be able to;
OSCILLATIONS, WAVES AND SOUND	CO-1. Understand the physics and mathematics of oscillations CO-2 Solve the equations of motion for simple harmonic,

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	damped, and forced oscillators
	CO-3. Formulate these equations and understand their physical
	content in a variety of applications,
	CO-4. Describe oscillatory motion with graphs and equations, and
	use these descriptions to solve problems of oscillatory motion.
	CO-5. Explain in qualitative terms how frequency, amplitude, and
	wave shape affect the pitch, intensity, and quality of tones
	produced by musical instruments
	CO-6. Define the decibel scale qualitatively, and give examples of
	sounds at various levels.
	CO-1 acquire the basic concepts of wave optics
	CO-2. Describe how light can constructively and destructively
	interfere.
	CO-3 explain why a light beam spreads out after passing through
	an aperture
PH222: OPTICS	CO-4. summarize the polarization characteristics of
	electromagnetic waves
	CO-5. appreciate the operation of many modern optical devices
	that utilize wave optics
	CO-6 Understand optical phenomena such as polarization,
	birefringence, interference and diffraction in terms of the wave
	model.
	CO-1. Correlate the theory and experiments and understand their
PH-223 Practical Course	* *
in Physics	CO-2. Verify theoretical principles experimentally
	CO-3. Perform all the activities in the laboratory with neatness
	and cleanness.

F.Y.B.Sc. Annual pattern

Course	Outcomes After completion of these courses students should be able to;
PaperI: Section I:	CO-1. Demonstrate an understanding of Newton's laws and applying them in Calculations of the motion of simple systems CO-2. Use the free body diagrams to analyze the forces on the object. CO-3 Understand the concepts of energy, work, power, the concepts of conservation of energy and be able to perform calculations using them. CO-4. Understand the concepts of elasticity and be able to perform calculations using them CO-5 Understand the concepts of surface tension and viscosity and be able to perform calculations using them. CO-6 Use of Bernoulli's theorem in real life problems.
	CO-1 Describe the properties of and relationships between the thermodynamic properties of a pure substance CO-2 Describe the ideal gas equation and its limitations.

Thermodynamics	CO-3 Describe the real gas equation
	CO-4 Apply the laws of thermodynamics to formulate the relations
	necessary to analyze a thermodynamic process
	CO-5 Analyses the heat engines and calculate thermal efficiency.
Paper III Practical	CO-1 Verify theoretical principles experimentally
Course	CO-2. Improvement of practical skills of the students.
	CO-3. Acquire skill of handling various instruments

Mula Education Society's Arts, Commerce & Science College, Sonai Department of Botany

Programme Outcomes: B. Sc Botany

Programme Outcomes	PO-1. Students know about different types of lower & higher plants & also their economic and ecological importance.
	PO-2. Cell biology gives knowledge about cell organelles & their functions
	PO-3. Molecular biology gives knowledge about chemical properties of nucleic acid and their synthesis & role in living systems.
	PO-4. Genetics provides knowledge about laws of inheritance, various genetic interactions, chromosomal aberrations, multiple alleles & Cytogenetics.
	PO-5.Student can describe morphological & reproductive characters of plant and also identified different plant families and classification.
	PO-6. They knows economic importance of various plant products & artificial methods of plant propagation
	PO-7. Use modern Botanical techniques and decent equipments.
	PO-8.To inculcates the scientific temperament in the students and outside the scientific community.

Programme Specific Outcomes	PSO-1. Students acquire fundamental Botanical knowledge through theory and practicals. PSO-2. To explain basis of plant life, reproduction and their survival in nature.
	PSO-3. Helped to understand role of plants in our life. PSO-4. To create awareness about cultivation, conservation and sustainable utilization of biodiversity.
	PSO-5. To know advance techniques in plant sciences like tissue culture, plant disease management, formulation of newherbal drugs etc. PSO-7 Students able to start nursery, mushroom cultivation, biofertilizer production, fruit preservation and horticultural practices.

Course Outcomes B. Sc Botany <u>Semester-III</u>

Course	Outcomes
BO . 331 CRYPTOGAMIC	CO-1. Study of cryptogams to understand their Diversity.
BOTANY.	CO-2. Know the systematics, morphology and structure of algae, fungi, bryophytes, and Pteridophytes.
	CO- 3. Know life cycle pattern of cryptogams.
	CO-4. Know the economic importance of cryptogams.
	CO-5.Know evolution of algae, fungi, bryophytes and Pteridophytes.
BO.332 CELL & MOLECULAR	CO-1. Understand ultra structure of cell and cellorganelles
BIOLOGY	CO-2.Learn the scope and importance of molecular biology.
	CO-3. Gain knowledge about cell and its function.
	CO-4. Understand the biochemistry of cell.
	CO-5. Understand the biochemical nature of nucleic acid and their synthesis & role in living systems.

BO. 333 GENETICS AND EVOLUTION	CO-1.Understand the Mendelian and Neo Mendelian genetics.
	CO-2 Know about interaction of genes, multiple alleles and linkage and crossing over.
	CO-3. Know the evolutionary sequence of various groups of plants.
	CO-4. Know about sex linked inheritance, chromosomal aberrations.
BO.334 SPERMATOPHYTIC	CO-1. Systematic study of gymnosperms and angiosperms.
AND PALAEOBOTANY	CO-2.Understand the morphological and reproductive character of spermatophytic plants & their economic importance.
	CO-3.Understand the diversity among spermatophyte.
	CO-4.To bring investigation of palaeobotanical study in India.
	CO-5.Know types of fossils, geological time scale.
BO.335	CO-1.Understand economic importance of plant and plant product.
HORTICULTURE & FLORICULTURE	CO-2. Understand the methods of cultivation of different flowering plants.
	CO-3.Understand the fruit & vegetables production technology.
	CO-4.Understand the scope & importance of Horticulture & Floriculture.
B0.336	CO-1.Understand the scope & importance of biostatistics.
COMPUTATIONAL	CO-2.Understand the scope and some basic commonly used terms like
BOTANY	sampling, data, dispersion, population, central tendency etc.
	CO-3.Knowledge to apply statistical analysis to biological data fortesting different hypothesis.

Course Outcomes B. Sc Botany	
Semester-IV	
	CO-1Know scope and importance of plant physiology.
BO. 341 PLANT	CO-2.Understand processes of photosynthesis respiration.
PHYSIOLOGY & BIOCHEMISTRY.	CO-3.Understand the process of respiration, growth and developmental process in plant.
	CO-4.Understand the different biochemical reaction of biomolecules in plant cell.
BO. 342 PLANT	CO-1.Know the biotic and abiotic components of ecosystem.
ECOLOGY AND BIODIVERSITY.	CO-2.Understand diversity among various groups of plant kingdom. CO-3.Understand plant community & ecological adaptation in plants.CO-4. Scope, importance of biodiversity.
	CO-1.Understand scope and importance of plant pathology.
BO. 343 PLANT	CO-2.Know disease cycle and control measures of plant diseases .
PATHOLOGY.	CO-3.Know the effect of plant diseases on economy of crop plants.
	CO-4. Know the methods of studying plant diseases.
	CO-1.Understand scope and importance of Medico botany.
BO. 344 MEDICAL AND ECONOMIC BOTANY	CO-2.Know the cultivation, collection, processing & importance of various herbal drugs.
	CO-3.Understand the scope of economic botany and to study of Important Economic crops.
	CO-4.Understand the concept of Ayurvedic pharmacy and Pharmaceutical Products.

	CO-1.Understand the fundamentals of recombinant DNA technology.
	CO-2.Understand tissue culture techniques.
BO. 345 PLANT BIOTECHNOLOGY	CO-3.Know the Nitrogen Fixation Mechanism.
	CO-4.Understand the concept of bioinformatics, genomics & proteomics.
	CO-5.Understand technical germplasm & cryopreservation.
	CO-1.Understand the scope & importance of plant breeding.
BO. 346 PLANT BREEDING & SEED	CO-2.Know the techniques of production of new superior crop varieties.
TECHNOLOGY.	CO-3.Know the about heterosis, hybrid vigor etc.
	CO-4.Know the process of hybrid variety, development & their release.

Programme Outcomes: M. Sc Botany

Programme Outcomes	 PO-1 Student can identify and classify all plant groups from algae to angiosperms. PO-2. Knows the concept, process, physiology, and molecular basis of plant development. PO-3. Students know about pomoculture and fruit processing technology. PO-4. Understand the application of pomoculture. PO-5.In seed technology student gain knowledge about seed structure development, chemical composition, seed production, processing, seed testing, quality control, seed certification and new hybrid variety. PO-6.Students learn the basic biostatistics, experimental statistics and bioinformatics. PO-7.To inculcates the scientific temperament in the students and outsidethe scientific community.
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	PSO-1. Students acquired knowledge through practical work in fields and in laboratory.
Programme Specific Outcomes	PSO-2. Students are expose to various industrial process by industrial training.
	PSO-3. Project helps for creating research attitude among the post graduate students

Semester I	
Course	Outcomes
	CO-1. Study of cryptogams to understand their Diversity.
BOUT 111-	CO-2. Know the systematics, morphology and structure of algae, fungi, bryophytes.
PLANT SYSTEMATICS I:	CO- 3. Know life cycle pattern of cryptogams.
	CO-4. Know the economic importance of cryptogams.
	CO-5.Know evolution of algae, fungi, bryophytes.
	CO-1. Understand ultra structure of cell and cellorganelles
BOUT 112-	CO-3. Gain knowledge about cell and its function and cell signaling.
CELL BIOLOGY AND EVOLUTION	CO-4. Understand the biochemistry of cell.
	CO-5. Understand the cancer and its causes.
	CO-1.Understand the Mendelian and Neo Mendelian genetics.
BOUT 113- GENETICS AND	CO-2 Know about interaction of genes, multiple alleles and linkage and crossing over. CO-3. Gain knowledge about Cytogenetics. CO-4. Know about recombination in bacterial cell.
PLANT BREEDING	CO-5.Gain knowledge Lytic and Lysogenic cycles. CO-6.Understand the scope & importance of plant breeding.
	CO-7.Know the techniques of production of new superior crop varieties.
	CO-8.Know the about heterosis, hybrid vigor etc. CO-9.Know the process of hybrid variety, development & their release.

	CO-1. Understand methods of Pomoculture and its applications.	
BOUP 115- POMOCULTURE AND FRUIT PROCESSING TECHNOLOGY	CO-2. Gain knowledge about methods fruit processing.	
	CO-3. Understand Pomoculture and Fruit Processing.	
TECHNOLOGI	CO-4. Get ideas about different types of fruits.	
	CO-5. Knows methods, processing of preservation of fruits.	
	Course Outcomes M. Sc Botany	
	Semester-II	
	CO-1. Know the distribution, Distinguishing Characters morphology anatomy of Pteridophytes.	
	CO-2. Know the distribution, Distinguishing Characters morphology anatomy of Gymnosperms.	
BOUT 121-	CO-3. Know the Applications of Pteridophytes .	
PLANT SYSTEMATIC II	CO-4. Understand the classification systems more particularly phylogenetic classification systems.	
	CO-5. To study of plant families with respect to general characters morphology and economic importance.	
	CO-6. Understand the economic importance of angiosperms.	
	CO-1. Understand various kinds of molecular mechanisms of the cell.	
	CO-2. Understand the nature of nucleic acids, and their metabolism in the cell.	
BOUT 122-	CO-3. Know the mechanisms of Replication, Transcription and Translation.	
MOLECULAR BIOLOGY	CO-4. Understand various major and minor equipments in molecular biology.	
	CO-5. Know the organization and structure of prokaryotic and eukaryotic gene.	
	CO-6. Understanding the gene regulation as well as transposable elements and genomics and proteomics.	

BOUT 123- BIOCHEMISTRY	CO-1. Know the concept of molarity, normality, molality & buffer . CO-2. To study the various type of plants such as Aromatic, medicinaletc. CO-3. Understand the Classification, structure and Properties Carbohydrates, lipids and Nucleic acid. CO-4. Understand the anabolism and catabolism of Various biomolecules. CO-5. Understand the Classification, structure and Properties of Amino acids and Proteins. CO-6. To study the various type secondary metabolites and their synthesis.
BODT 124- MUSHROOM CULTIVATION AND BIO- PESTICIDE TECHNOLOG Y	CO-1. Know the concept, scope and importance of mushroom cultivation .CO-2.To understands nutritional & medicinal value of mushroom. CO-3. Study the application of bio-pesticide. CO-4. To understand use of mycorrhizal fungi and biofertilizers

Semester III	
Course	Outcomes
BOUT 231 COMPUTATIONAL BOTANY	CO-1. Know the basic terms and test of hypothesis in biostatistics. CO-2. Understand the technical experimental statistics. CO-3. Know the concept of bioinformatics. CO-4. To know the concept of sampling methods and analysis of biostatical data in Botany.
BOUT 232 DEVELOPMENT BOTANY:	CO-1.Knows the concept, features & process of plant development. CO-2.Understand embryological aspects of development. CO-3. Know about the polyembryon, apomixes, parthenogenesis etc. CO-4. They also understand physiology, molecular basis of development

	CO-5. Know about various spices, millets, leguminous crop plants and their economic importance.
BOUT 233 PLANT PHYSIOLOGY	CO-1.Knows the concept, features & process of plant physiology. CO-2.Understand solute transport, growth and development in plants. CO-3. To know about the Physiology of flowering. CO-4. To study Respiration and lipid metabolism. CO-5.To knows about stress physiology, plant growth regulators.
BODT 235 SEED SCIENCE	CO-1. Gain scientific knowledge of seed development, structure and chemical composition. CO-2Understand the principle and process of seed production. CO-3. Gain knowledge about objectives, general layout of seed

Course Outcomes M. Sc Botany		
	Semester-IV	
	CO-1. Study of Microscopic techniques.	
	CO-2. To study the various type of microscopy such as ,light microscopy, Phase contrast microscopy, fluorescence microscopy.	
BOUT 241 BOTANICAL	CO-3.to understands the Chromatography techniques.	
TECHNIQUES	CO-4. Understand the working of instruments like spectrophotometer.	
	CO-5. To know radioisotope used in biology and their properties.	
	CO-6. To study the various eletrophoretic techniques	
	CO-1. Understand leval of species diversity and its measurement	
POLIT 242	CO-2. Gain knowledge about biomes concept,agro-ecological zones of India	
BOUT 242 ADVANCED ECOLOGY	CO-3. Understand concept of gene pool, biopiracy and bio prospecting.	
	CO-4. Get ideas about environmental impact assessment.	
	CO-5. Knows about environmental issues, local regional global; air water & soil pollution.	

BODT 243 SEED TECHNOLOGY	CO-1. Gain scientific knowledge of seed development, structure and chemical composition. CO-2.Understand objective of seed processing. CO-3. Study of seed processing machineries and its working.ex. Pre- cleaners, seed dryers, Magnetic separator. CO-4.To study seed Pathology, Integrated management of seed diseases.
BODT 244 HERBAL TECHNOLGY	CO-1. To understand concept of herbal technology CO-2. Study and description of herbal plants used in products such as skin care, hair care, dyes, aromatic oil. CO-3. Study of plant based industries and institution involved in work on medicinal & aromatic plants in India CO-4. To knows about herbal nutraceuticals.

Programme outcome F.Y.B.Sc Zoology 2019-20

	PO1- Aware students about knowledge & skill in the fundamentals
	& systematic of animal kingdom.
	PO2- Gain the knowledge of anatomical structure & various metabolic functions
	of organisms.
D	PO3- Information & skill of advanced biological techniques for experimental
Program	purpose.
outcome	PO4- Information & skill applied zoology including sericulture, apiculture,
	fisheries ,vermiculture, agricultural pest & their control.

Program Specific Outcomes F.Y.B.Sc. Zoology 2019-20

	PSO 1 -The student will be able to understand ,classify & identify the diversity
	of higher veretebrates
	PSO 2- The learner understands the compares between the prokaryotic &
Program	Eukaryotic system
Specific	PSO 3 The cellular mechanism & its function depends on endo-membrane
Outcomes	structure
	PSO 4- To study of ecosystem

Course Outcomes (CO's) F.Y. B.S.c Zoology 2019-20

a -	Course Outcomes (CO s) F.Y. D.S.c Zoology 2019-20
Sem I	CO 1-To study of principles of classification (Taxonomy& systematic)
(Animal	CO 2-classify protista up to phylum using examples from parasitic adaptation
diversity	CO 3-To study of origin of metazoa
_	
I)	CO 4-Classify phylum porifera to echinodermata with taxonomic keys
	CO 5-Describe phylum nematoda & give examples of pathogenic nematodes
	CO1 –To study of ecology
	· • • • • • • • • • • • • • • • • • • •
Animal	CO2- Ecosystem
ecology	CO 3-Interaction of biota abiota
	CO 4-To study of animal interaction & their types
	71
	CO 1-To understand the animal diversity around us
Sem II	CO 2-The student will be able to understand classify & identify the diversity of
	· · · · · · · · · · · · · · · · · · ·
(Animal	animals
diversity	CO3-To understand the differences & similarities in the various aspects of
II)	classification
	CO4 – study of phylum Echinodermata
	CO 1-Introduction of cell biology & their importance ,its application in industry
	CO 2-To study of techniques in cell biology
Cell	CO 3-The cellular mechanism & its functioning depends on endo –membrane
	& structures.
Biology	CO 4 -The dynamism of bio membranes indicates the dynamism of life.
	Practical Course Outcomes (CO's) F.Y. B.S.c Zoology 2019-20
	Practical Course Outcomes (CO's) F.Y. B.S.c Zoology 2019-20 Animal Diversity
	Practical Course Outcomes (CO's) F.Y. B.S.c Zoology 2019-20 Animal Diversity CO 1-Study of phylum protozoa- Euglena ,Amoeba
	Practical Course Outcomes (CO's) F.Y. B.S.c Zoology 2019-20 Animal Diversity CO 1-Study of phylum protozoa- Euglena ,Amoeba CO 2-Study of phylum porifera- Sycon ,spongilla
	Practical Course Outcomes (CO's) F.Y. B.S.c Zoology 2019-20 Animal Diversity CO 1-Study of phylum protozoa- Euglena ,Amoeba CO 2-Study of phylum porifera- Sycon ,spongilla CO3- Study of phylum Cnidaria-Hydra ,Physalia
	Practical Course Outcomes (CO's) F.Y. B.S.c Zoology 2019-20 Animal Diversity CO 1-Study of phylum protozoa- Euglena ,Amoeba CO 2-Study of phylum porifera- Sycon ,spongilla
	Practical Course Outcomes (CO's) F.Y. B.S.c Zoology 2019-20 Animal Diversity CO 1-Study of phylum protozoa- Euglena ,Amoeba CO 2-Study of phylum porifera- Sycon ,spongilla CO3- Study of phylum Cnidaria-Hydra ,Physalia CO4- Study of phylum platryhelminthes- Planeria, liver fluke
	Practical Course Outcomes (CO's) F.Y. B.S.c Zoology 2019-20 Animal Diversity CO 1-Study of phylum protozoa- Euglena ,Amoeba CO 2-Study of phylum porifera- Sycon ,spongilla CO3- Study of phylum Cnidaria-Hydra ,Physalia CO4- Study of phylum platryhelminthes- Planeria, liver fluke CO5- Study of paramecium-culture,morphology, conjugation & binary fission
	Practical Course Outcomes (CO's) F.Y. B.S.c Zoology 2019-20 Animal Diversity CO 1-Study of phylum protozoa- Euglena ,Amoeba CO 2-Study of phylum porifera- Sycon ,spongilla CO3- Study of phylum Cnidaria-Hydra ,Physalia CO4- Study of phylum platryhelminthes- Planeria, liver fluke CO5- Study of paramecium-culture,morphology, conjugation & binary fission CO 6- Study of spicules in sponges
(Sem I)	Practical Course Outcomes (CO's) F.Y. B.S.c Zoology 2019-20 Animal Diversity CO 1-Study of phylum protozoa- Euglena ,Amoeba CO 2-Study of phylum porifera- Sycon ,spongilla CO3- Study of phylum Cnidaria-Hydra ,Physalia CO4- Study of phylum platryhelminthes- Planeria, liver fluke CO5- Study of paramecium-culture,morphology, conjugation & binary fission CO 6- Study of spicules in sponges Animal Ecology
(Sem I)	Practical Course Outcomes (CO's) F.Y. B.S.c Zoology 2019-20 Animal Diversity CO 1-Study of phylum protozoa- Euglena ,Amoeba CO 2-Study of phylum porifera- Sycon ,spongilla CO3- Study of phylum Cnidaria-Hydra ,Physalia CO4- Study of phylum platryhelminthes- Planeria, liver fluke CO5- Study of paramecium-culture,morphology, conjugation & binary fission CO 6- Study of spicules in sponges Animal Ecology CO1- Estimation of dissolve oxygen from given water sample
Zoology	Practical Course Outcomes (CO's) F.Y. B.S.c Zoology 2019-20 Animal Diversity CO 1-Study of phylum protozoa- Euglena ,Amoeba CO 2-Study of phylum porifera- Sycon ,spongilla CO3- Study of phylum Cnidaria-Hydra ,Physalia CO4- Study of phylum platryhelminthes- Planeria, liver fluke CO5- Study of paramecium-culture,morphology, conjugation & binary fission CO 6- Study of spicules in sponges Animal Ecology
	Practical Course Outcomes (CO's) F.Y. B.S.c Zoology 2019-20 Animal Diversity CO 1-Study of phylum protozoa- Euglena ,Amoeba CO 2-Study of phylum porifera- Sycon ,spongilla CO3- Study of phylum Cnidaria-Hydra ,Physalia CO4- Study of phylum platryhelminthes- Planeria, liver fluke CO5- Study of paramecium-culture,morphology, conjugation & binary fission CO 6- Study of spicules in sponges Animal Ecology CO1- Estimation of dissolve oxygen from given water sample CO2- Estimation of water Alkalinity from given water sample
Zoology	Practical Course Outcomes (CO's) F.Y. B.S.c Zoology 2019-20 Animal Diversity CO 1-Study of phylum protozoa- Euglena ,Amoeba CO 2-Study of phylum porifera- Sycon ,spongilla CO3- Study of phylum Cnidaria-Hydra ,Physalia CO4- Study of phylum platryhelminthes- Planeria, liver fluke CO5- Study of paramecium-culture,morphology, conjugation & binary fission CO 6- Study of spicules in sponges Animal Ecology CO1- Estimation of dissolve oxygen from given water sample CO2- Estimation of water Alkalinity from given water sample CO3-Study of animal community structure by quadrate method
Zoology	Practical Course Outcomes (CO's) F.Y. B.S.c Zoology 2019-20 Animal Diversity CO 1-Study of phylum protozoa- Euglena ,Amoeba CO 2-Study of phylum porifera- Sycon ,spongilla CO3- Study of phylum Cnidaria-Hydra ,Physalia CO4- Study of phylum platryhelminthes- Planeria, liver fluke CO5- Study of paramecium-culture,morphology, conjugation & binary fission CO 6- Study of spicules in sponges Animal Ecology CO1- Estimation of dissolve oxygen from given water sample CO2- Estimation of water Alkalinity from given water sample CO3-Study of animal community structure by quadrate method CO4- Determination of density, frequency & abundance of species by quadrate
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Zoology	CO 3 -To study of phylum Arthropoda		
practical	CO 4 -To study of phylum Mollusca		
paper	CO 5-To study of phylum Echinodermata		
	CO 6- Study of mouth parts of insects		
	CO 7-To study of types of shells in mollusca		
	CO 8- Economic importance apiculture & sericulture		
	CO 9-Study of vermicompost preparation & maintenance		
	Cell Biology		
	CO1- To study of microscope-simple & compound		
	CO2- To study of micrometry		
	CO3- To study of preparation of temporary mount of human buccal epithelial		
	cell		
	CO4- Preparation of blood smear to observe the blood cell		
	CO5-Temporary preparation of mitotic cell		
	CO6-Study of cell organells		

Program Outcomes S.Y.B.Sc Zoology 2019-20

	1 Togram Guteomes 8:1:Disc Zoology 2017 20
	PO1- Aware students about knowledge & skill in the fundamentals & systematic of animal kingdom.
	PO2- Gain the knowledge of anatomical structure & various metabolic functions of organisms.
Program outcome	PO3-Information & skill of advanced biological techniques for experimental purpose.
	PO4- Information & skill applied zoology including sericulture, apiculture, fisheries ,vermiculture, agricultural pest & their control.

Program Specific Outcomes S.Y.B.Sc. Zoology 2019-20

	PSO 1 -The student will be able to understand ,classify & identify the diversity of
Program Specific Outcomes	PSO 1-The student will be able to understand ,classify & identify the diversity of higher veretebrates PSO 2. The student will be able to understand the complexity of higher veretebrates PSO 3 The student will be able to understand different life function of veretebrates PSO 4-The student will be able to understand the linkage among different group of higher veretebrates PSO 5-The learner understand the basic about beekeeping equipments & managing beehive
	PSO 6- The learner understands the basic information about fishery, cultural & harvesting methods of fishes & fish preservation techniques.

Course Outcomes (CO's) S.Y. B.S.c Zoology 2019-20

Zoology	CO 1-To study of phylum chordata
(Sem. III)	CO 2—To study of Gr. –protochordata
(Paper I)	CO 3-To study of sub phylum –vertebrata
Animal	CO-4- To study of class pisces
Systamatic	CO 5- To study of class – Amphibia
and Diversity	CO 6- Study of Scoliodon
	Sericulture
(Applied	CO1- Introduction to sericulture study of different types of silk moth & their
zoology I)	distribution
	CO2- External morphology & life cycle of Bombyx mori
	CO 3- cultivation of mulberry
	CO 4-Harvesting of mulberry
	CO 5-Silkworm rearing
	CO 6-Prepration of cocoons for marketing
	CO 7-Post harvest processing of cocoons
	CO 8-Biotechnological & biomedical application of silk
	Agricultural pest & their control
	CO 1-Introduction to Agricultural pest ,types of pest
	CO 2-Major insect pest of agricultural importance
	CO 4-Pest control practices
	CO 5-Plant protection appliances
Zoology (Sem.	CO 1-Introduction to class –Reptilia
IV) (Paper I)-	CO 2-Introduction to class –Aves
Animal	CO3-Introduction to class –Mammalia

Diversity-IV	CO4 – study of rat
	Apiculture
B.Sc (Sem.	CO 1-Introduction
IV) (Paper	CO 2-Life cycle colony organization and division
II)- Applied	CO 3-Beebehaviour &communication
Zoology	CO 4-Bee keeping equipments
(Apiculture	CO 5-Bee keeping & seasonal management
& Fisheries)	CO 6-Bee products (composition & uses)
,	CO7- Diseases and enemies of bees
	Fisheries
	CO1- Introduction to fisheries &its types
	CO 2- Habit ,Habitat & culture method of fresh water
	CO3- Harvesting method
	CO4- Craft & gears in Indian Fishery
	CO5- Fishery by products
	CO6- Fish preservation technique
	The second secon
	Animal Diversity
	CO 1-Museum study of Gr.protochordata
	CO 2Museum study of class Pisces
	CO3 Museum study of class Amphibia
	CO4- Study of types of scales in fishes
Sem II	CO5- Study of types of tail fins in fishes
Zoology	CO6- Study of external characters & Digestive system locally available fish
practical	CO7 –Study of brain of locally available fish
	CO8- Temporary preparation of scales & its identification from locally available fish
	Co9 –compulsory field visit to study pond ecosystem with reference to pisces &
	Amphibians, Report writing & submission
	Sericulture
	Co1 Study of external morphology & life cycle of bombyx mori
	CO2 Study of 5 equipments in Sericulture
	CO3 Preparation of map showing distribution of silkmoth & rearing / sericulture
	practices India
	Agricultural Pest & Their control
	CO1- Study of following insect pest with respect to marks of identification ,nature of
	damage, economic importance& control measures
	CO2- Study of following pest with respect to marks of identification ,nature of
	damage, economic importance& control measures
	CO3 Study of any two non insect pests corresponding to theory course
	CO4- Compulsory submission of at least 5 insect pests /photographs /sketches
	CO5- Study of pest control appliances as per theory course
	CO6-Compulsory field visit to sericulture farm/ Agriculture farm ,report writing &
	submission

zoology (Sem. IV) (Paper II)- Animal Diversity -IV

CO1- Museum study of class Reptilia

CO2- Identification of venomous & non venomous snakes with the help of pictorial taxonomic keys

.CO3- Museum study of class Aves

CO4- Study of types of beaks & feets in birds

.CO5- Museum study of class Mammalia

CO6- Study of external characters & Digestive systems of rat

CO7- Study of heart of rat

CO8- Study of brain of rat

CO9- Study of Reptilian /Avian diversity in and around the campus

CO10- Compulsory visit to zoo/wild life /Bird sanctuary ,report writing & submission

Apiculture

CO1- Study of external morphology ,life cycle & polymorphism in honey bees

CO2- Temporary mounting of mouth parts ,legs ,wings &sting apparatus of worker bees

CO3- Study of beekeeping equipments

CO4- Study of bee products

CO5- Estimation of carbohydrates from honey in different sample

CO6- Study of bee enemies

Fisheries

CO1- Identification , classification &study of habit ,habitat & economic importance: Rohu ,Catla ,Mrigal

CO2- Identification , classification &study of habit ,habitat & economic importance: prawn, crab ,lobster, pearl oyster

CO3- Study & Maintainance of aquarium

CO4- Study of crafts

CO5-Study of gears in fishing

CO6- Study of nutritional value of fish

CO7- Compulsory study tour/filed visit to apiculture institute/fish farm/aquarium

Mula Education Society's Arts, Commerce and Science College, Sonai Tal – Newasa, Dist-Ahmednagar

Department of B.Voc Food Processing (Dairy Milk)

Program Specific Outcomes B.Voc Food processing (Dairy Milk) 2019-20

Program	PSO 1 -Students with vocational training can find work in several state and central
Specific	government organizations, non-profit groups, and academic institutions and in
Outcomes	private sectors as well.
	PSO 2- This program prepares students for specific types of occupations
	andfrequently for direct entry into the market.
	PSO 3 -After completion of this program students will have enough competences,
	to get benefit from market opportunities.
	PSO 4 -This program would enable students to update their knowledge and
	professional skills for entering the work force executing income generating
	activities or occupying better positions

Course Outcomes (CO's) B.Voc Food processing (Dairy Milk)2019-20

SEMESTER I		
B.Voc Cell Biology Theory	CO 1-Understand the importance of cell as a structural and functional unit of life. CO 2-Understands and compares between the prokaryotic and eukaryotic system and extrapolates the life to the aspect of development CO 3-The cellular mechanisms and its functioning depends on endomembranes and structures. They are best studied with microscopy	
B.Voc Cell Biology Practical	CO 1-To demonstrate significant cell biological principles, CO 2-To observe and classify the prokaryotic cells (bacteria) using differential staining. CO 3-Prepare the temporary slides and differentiate the plant cells and animal cells in reference to their phenotypes.	
B.Voc Genetics Theory	CO 1-Examine karyotypes and identify the effects of significant changes in chromosome number. CO 2-Acquired knowledge skill development and observation of blood group identification. CO 3-Identify the impact of Gregor Mendel on the field of genetics and apply Mendel's two laws of genetics.	

B.Voc Genetics Practical	CO1-To give practical experience in understanding different cell structure, its organelles and multiplication CO2-To learn the laws of heredity with practical emphasis on inheritance CO3-Observation of growth and differentiation in single cells.
B.Voc Introduction to Microbiology Theory	CO 1-It provide instruction in the general principles of food microbiology. It is assumed that students have received adequate introduction to microbiology CO 2-It educate majors in a variety of important microbiological disciplines, as well as to promote and develop skills and competencies that have enduring value beyond the classroom CO 3-The course covers the biology and epidemiology of food borne microorganisms of public health significance, including bacteria, yeasts, fungi, protozoa and viruses, and food spoilage microorganisms CO 4-The microbiology of food preservation and food commodities, fermented and microbial foods, principles and methods for the microbiological examination of food.
B.Voc Introduction to Microbiology Practical	CO1-To study the principle and applications of important instruments (biological safety cabinets, autoclave, incubator, BOD incubator, hot air oven, light microscope, pH meter used in the microbiology laboratory. CO2-Preparation of culture media (liquid & solid) for bacterial cultivation. CO3-Sterilization of media using autoclave and assessment of sterility.
B.Voc Introduction To Dairy Theory	CO 1-Discuss proximate analysis, systems of energy measurement and the concept of ration formulation for small and large animals. CO 2-Students will learn about traditional systems of cattle and concepts of farming CO 3-Study important aspects of cattle feed and nutritional requirements of cattle CO 4-Learning about basic concept of design in dairy plant for milk and other products
B.Voc Introduction To Dairy Practical	CO1-Qualitative tests for detection of adulterants in milk and milk products CO2-Chemical Analysis tests for milk and milk products CO3-Students will learn about shelf life at different dairy products SEMESTER II
B.Voc Dairy Farm Management Theory	CO 1-Study important aspects of cattle feed and nutritional requirements of cattle CO 2-Learning about basic concept of design in dairy plant for milk and other products CO3-Students will Learn difference between Condensed and dried milk and their Manufacturing process CO4-Food quality safety, and testing basing on standards
B.Voc	CO1-Understanding various skill activities of dairy farm, pasture

Dainy Farms	management and herd management
Dairy Farm	
Management	CO2-Practicing skill activities of feeder, Milking, upkeep of facilities,
Practical	grounds and equipments.
	CO3-Knowing the skill activities of milker and other activities of dairy
	farming, Ration preparation and feeding, raising of replacements
	CO 1-Gaining in-depth knowledge on natural processes that sustain life
	and govern economy.
	CO 2-Predicting the consequences of human actions on the web of life,
B.Voc	global economy and quality of human life.
Environmental	CO 3-Developing critical thinking for shaping strategies (scientific, social,
Science	economic and legal) for environmental protection and conservation of
Theory	biodiversity, social equity and sustainable development.
Theory	CO 4-Acquiring values and attitudes towards understanding complex
	environmental economic-social challenges, and participating actively in
	solving current environmental problems and preventing the future ones.
	CO 5-Adopting sustainability as a practice in life, society and industry.
	CO1-Students will be able to articulate the basic structure, functions, and
	processes of key social systems affecting the environment.
	CO2-Understand key concepts in the life and physical sciences and
B.Voc	will apply them to environmental issues.
Environmental	CO3-Students will apply knowledge of the sciences within an
Science Practical	interdisciplinary context in solving environmental issues such as
Science Fractical	environmental health, food and agriculture, energy, waste and pollution,
	climate change,
	CO4-Students will carry out an applied research project in the natural
	sciences.
	CO 1- In the second semester, the trainee learns to prepare different types of
	cakes, icing, rolls, and pastries.
	CO 2-Prepare different biscuits & Baking Biscuits, confectioneries items
B.Voc	and different Indian sweets.
Bakery And	CO 3-It is also demonstrated to the trainee via presentation about the
Confectionary	activities which are not feasible to be practiced at the Institute.
Theory	CO 4-The trainee also undergoes four weeks on-the- job training in various
	hotel industries, bakeries and confectioneries at the end of the second
	semester which gives them more practical exposure to industrial
	environment.
D. 77	CO1-Students can understand & work on all the aspects of Bakery &
B.Voc	confectionery, move towards entrepreneurship.
Bakery And	CO2-Development of people handling skills, decision making skills and
Confectionary	analytical skills
Practical	CO3-Level of creativity is increased, knowledge of budgeting & cost
	management.
B.Voc	CO 1-The trainee learns about elementary first-aid, firefighting,
Confectionary	environment regulation and housekeeping, etc.
comecuonar y	on a comment regulation and nousekeeping, etc.

Theory	 CO 2-The trainee identifies trade tools, kitchen equipment and kitchen operation process. CO 3-He is aware of the importance of personal hygiene, cleanliness of bakery utensils, food handling and hygiene protective clothing. CO 4-He practices safe handling of bakery equipments and other hand tools. He identifies basic ingredients, spices used in bakery. The trainee practices and prepares various types of bread and cakes.
	SEMESTER III
B.Voc Business Administration Theory	CO1-Demonstrate foundational knowledge in accounting, economics, finance, management, and marketing in application of concepts and theories. CO2-Demonstrate effective skills in written and oral communications using appropriate technologies CO 3-Demonstrate an ability to integrate the concepts of the core areas of business. CO4-Demonstrate an ability to conduct methodological, secondary research into business issues, which may relate to general business or to a specific business function, which requires familiarity with a range of data, research sources and appropriate methodologies. CO1-Demonstrate awareness of the importance of the ethical requirements of business activities.
B.Voc Business Administration Practical	 CO2-Demonstrate foundational knowledge in accounting, economics, finance, management, and marketing in application of concepts and theories. CO3-Understand the nature and dynamics of social behavior relating to organizational performance in order to develop strategies to become effective in organizations.
B.Voc Post Harvest Technology Theory	CO 1-It will aware students and they will gain knowledge about post-harvest technology which enables storage of agricultural products during the whole year in full quality, identification and elimination of negative processes which may be occur during processes and storage. CO 2-In agriculture, postharvest handling is the stage of crop production immediately following harvest, including cooling, cleaning, sorting and packing Postharvest treatment largely determines final quality, whether a crop is sold for fresh consumption, or used as an ingredient in a processed food product. CO3-Primary processing, cleaning, classification, hulling, pounding, grinding, packaging, soaking, winnowing, drying, sieving, milling Process losses; contamination in process causing loss of quality. CO4-Agricultural produce are often treated with agricultural

	chemicals after they are harvested. This practice is known as 'post
	harvest chemical treatment'. The objective of post-
	harvest chemical treatments is to address pest and disease problems that
	may arise during the transport and storage of a commodity.
	CO1-Determination of engineering properties (shape and size, bulk density
B.Voc	and porosity of biomaterials).
Post Harvest	CO2-explain the importance of pre-harvest physiology for fruit and
Technology	vegetables on the long term storage of horticultural crops
Practical	CO3-Determine the rate of air exchange in an active summer winter
Tractical	cooling system.
	CO 1-Know the chemistry underlying the properties and reactions of
	various food components Have sufficient knowledge of food chemistry to
	control reactions in foods.
	CO 2-Know the major chemical reactions that limit shelf life of foods.
B.Voc	CO 3-Use the laboratory techniques common to basic and applied food
Food Chemistry	chemistry.
Theory	CO4-Know the principles behind analytical techniques associated with
	food.
	CO5-Be able to select the appropriate analytical technique when presented
	with a practical problem. Demonstrate practical proficiency in a food
	analysis laboratory.
	CO 1-Describe the source and variability of raw food material and their
	impact on food processing operations.
B.Voc	CO 2-Explain the spoilage and deterioration mechanisms in foods and
Food Bio	methods to control deterioration and spoilage
Chemistry	CO 3-Explain the principles and current practices of processing techniques
Theory	and the effects of processing parameters on product quality
	CO4- Identify the requirements for water utilization and waste management
	in food and food processing
	CO1-Demonstrate an understanding of fundamental biochemistry
B.Voc	principles, including topics specific to chemistry and biochemistry.
Food Bio	CO2- Observe safe practices in the laboratory, follow proper procedures
Chemistry	and regulations for safe use and disposal of chemicals, and respond to
Practical	emergencies in the laboratory.
11404041	CO3-Communicate biochemical concepts and experimental results through
	effective written and oral communication.
	SEMESTER IV
	CO 1-To emphasize the need for greater and more efficient utilization of
	the existing food sources and development of entirely new sources; to
	highlight need for attaining nutritional security. At the end of this course,
B.Voc	the student will have an idea of food constituents, importance and their
Food Engineering	daily dietary allowances; scope and prospects for food industries.
Theory	CO 2-To Emphasis the various properties of the raw material used in food
	processing, different processing technologies required in transforming them
	into quality food products and material handling equipment involved in
	food processing operations.
	1004 processing operations.

	CO 3-To study various food analysis techniques and to get the knowledge
	of UV-Visible spectrometry, infra-red & mass spectra, x-ray, polarimetry,
	1
	refractometry, conductometry & thermal studies, chromatographic
	techniques and to understand the quality control methods and systems. To
	be familiar with different methods of investigation used in the analysis of
	foods.
	CO1-To inoculate in-depth knowledge of food engineering and technology
	with an ability to analyze, evaluate, design, discriminate existing and new
	knowledge
B.Voc	CO2-Apply the knowledge of mathematics, science, engineering
	fundamentals, and an engineering specialization to the solution of complex
Food Engineering Practical	engineering problems.
Practical	CO3-Design solutions for complex engineering problems and design
	system components or processes that meet the specified needs with
	appropriate consideration for the public health and safety, and the cultural,
	societal, and environmental considerations.
	CO 1-Understand and describe the general chemical structures of the major
	components of foods (water, proteins, carbohydrates, and lipids). Give a
	molecular rationalization for the observed physical properties and
	reactivityTo predict how changes in overall composition are likely to
B.Voc	
Food Laws And	change the reactivity of individual food
Regulation	CO 2-of major food components. Provide a theoretical explanation for
Theory	observed extent and rates of reactions that are
, and the second	CO 3-common to foods Predict how processing conditions are likely to
	change the reactivity of food components
	CO4-common to foods Predict how processing conditions are likely to
	change the reactivity of food components
B.Voc	CO 1-Basic concepts of dairy needs, wealth, theory of production
	CO 2-Current awareness of quality and safety of dairy farm
Dairy Technology Management	CO 3-Design and construction and layout of milk collection centre ,product
Theory	manufacturing
Theory	CO4-Food quality safety, and testing basing on standards
B.Voc	CO1-Clean milk production and handling
	CO2-Manufacture of western and indigenous dairy products
Dairy Technology	CO3-Managing small and medium enterprises and facilitate Good
Management	Manufacturing Practices in the processing sector
Practical	
	CO 1-Manufacturing of different types of ice creams and frozen deserts
B.Voc	along with quality testing
Food Packaging	CO 2-Microbiological tests for aerobic and colliform bacteria
Theory	CO 3-Learning About advanced analytical techniques
licory	CO4-Various new food packaging material available in market introduced
B.Voc	CO1-Food packaging materials and their properties
Food Packaging	CO2-Study of the thickness, bursting strength of packaging material
Practical	
rracucal	CO3-To study different packaging materials and prepare a minor project