

Adivasi Seva Samittee, Nashik

ARTS, COMMERCE AND SCIENCE COLLEGE, MANUR

Program - Bachelor of Arts (B.A.)

PO. No.	Program Outcomes		Graduate Attributes
	After successful completion of this program, a student will be able to,		
	English	Marathi	
PO-1	Know the fundamental theoretical aspects of the humanities and social sciences.	मानविकी आणि सामाजिक विज्ञानांच्या मूलभूत सैद्धांतिक बाबींची जाणिव होईल.	Disciplinary Knowledge
PO-2	Express various viewpoints with clarity	विविध दृष्टिकोन स्पष्टपणे मांडता येतील.	Communication Skills
PO-3	learn to think critically.	चिकित्सक पणे विचार करण्याचे कौशल्ये आत्मसात होतील.	Critical Thinking
PO-4	Identify the issues and try to think of some remedies.	समस्या ओळखून उपायांचा विचार करता येईल	Problem Solving
PO-5	analyse information with objectivity and improve your reasoning abilities	वस्तुनिष्ठतेसह माहितीचे विश्लेषण करता येईल आणि तार्किक क्षमता सुधारेल	Analytical reasoning
PO-6	Create a research Aptitude	सांशोधन वृत्ती निर्माण होईल	Research-related skills
PO-7	Cooperate to achieve a common objective	सामूहिक ध्येयप्राप्तीसाठी एकवित्त येऊन काम करता येईल.	Cooperation/Team work
PO-8	Logic-based information assessment	तार्किकदृष्ट्या प्राप्त मावहतीचे परीक्षण करता येईल.	Scientific reasoning

PO-9	Reflect on different viewpoints in order to improve understanding	वैचारिक प्रगल्भता विकसित होईल.	Reflective thinking
PO-10	Independently complete a variety of tasks.	स्वतंत्रपणे विविध गोष्टी पूर्ण करता येतील	Self-directed learning
PO-11	build social, cultural, and national identity	सामाजिक, सांस्कृतिक आणि राष्ट्रीय ओळख निर्माण करता येईल.	Multicultural Competence
PO-12	Learn to appreciate everyone and work toward the universal humanistic beliefs.	सर्वांचा आदर करून आणि सार्वभौमिक मानवतावादी दृष्टिकोन विकसित होईल	Moral & Ethical Values
PO-13	acquire leadership abilities	नेतृत्व कौशल्ये आत्मसात होतील.	Leadership Readiness
PO-14	Keep learning a priority	अध्ययनाला प्राधान्यक्रम देतील..	Life-long Learning

Program - Bachelor of Commerce (B.Com.)

PO. No.	Program Outcomes	Graduate Attributes
After successful completion of this program, a student will be able to,		
PO-1	i) Recognize the function of trade, business, and industry as well as how they affect a whole society.	Disciplinary Knowledge
	ii) gaining knowledge of the core concepts of accounting, entrepreneurship, and the legal environment for business.	
PO-2	Recognize the importance of effective communication in both professional and personal settings.	Communication Skills
PO-3	Possess the capacity to show independent critical thought.	Critical Thinking
PO-4	Systematically resolve financial problems.	Problem Solving

PO-5	Prepare and carry out the small-scale analysis.	Research related Skill
PO-6	Use the most recent ICT tools.	Digital Literacy
PO-7	Conduct a Learning initiative to understand concepts.	Self-Directed Learning
PO-8	adopt moral principles and ethical business practices.	Moral & Ethical Awareness
PO-9	Maintain an enthusiasm for learning.	Lifelong Learning

Name: of Programme: Bachelor of Science (B. Sc.)		
PO. No.	Program Outcomes	Graduate Attributes
	After successful completion of this program, a student will be able to	
PO1	Display thorough knowledge and comprehension of one or more disciplines included in an undergraduate program of study.	Disciplinary knowledge
PO2	Effectively communicate ideas and concepts both vocally and in writing.	Communication Skills
PO3	Use a scientific approach to knowledge generation when evaluating methods, policies, and theories.	Critical thinking
PO4	Apply what you've learned to actual life circumstances.	Problem-solving
PO5	Draw valid conclusions and support them with evidence and examples.	Analytical reasoning
PO6	Plan, carry out, and present an experiment or investigation's findings.	Research-related skills
PO7	Work with different teams in a productive and polite manner.	Cooperation/Teamwork

PO8	Analyze concepts, facts, and personal experiences critically from a logical and open-minded viewpoint.	Scientific reasoning
PO9	Determine the proper resources needed for a project, work independently, and monitor an entire project.	Self-directed learning
PO10	effectively participate in a multicultural society and treat individuals of various cultures with respect.	Multicultural competence
PO11	Adopt ethical, honest, and neutral behavior in all phases of your work.	Moral and ethical awareness/reasoning
PO12	have the ability to visualize how a team or organization's tasks are dissolved.	Leadership readiness/qualities
PO13	Develop the ability to understand the process of learning.	Lifelong learning
PO14	promote national, cultural, and social integrity.	Reflective thinking

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Title of Course	Co. No.	Course Outcomes
FYBA Compulsory English	CO-1	To expose learners to outstanding works of English prose and poetry in order to enable them to appreciate the beauty and communication potential of English.
	CO-2	To expose students to indigenous cultural experiences and circumstances in order to promote humanitarian ideals and social awareness.
	CO-3	Students' general linguistic competence and communicative abilities should be developed.
English Optional Paper	CO-1	To familiarize students to the principles of literature and language.
	CO-2	To introduce students with many forms of English literature, literary methods, and words in order for them to appreciate the literary value, beauty, and creative use of language.
	CO-3	Understand the main characteristics of the Indian population and the obstacles to growth.
	CO-4	To prepare students including in study and understanding of literature and language.
SYBA Compulsory English	CO-1	Students' self-learning competence should be developed.
	CO-2	To expose the students to outstanding works of English prose and poetry in order for them to appreciate the beauty and communication potential of English.
	CO-3	To increase students' interest in reading literary works.

	CO-4	To develop humanitarian qualities and social awareness, expose students to native cultural experiences and situations.
	CO-5	Students' general linguistic competency and communicative abilities should be developed.
English Special Paper I	CO-1	Introduce Drama as a prominent form of literature.
	CO-2	To introduce minor drama forms
	CO-3	To identify and enlighten students on the literary and performing aspects of drama.
	CO-4	To stimulate students' interest in appreciating and analysing drama for themselves
English Special Paper II	CO-1	To familiarise students with poetry criticism terminology (ie. the terms used in appreciation and critical analysis of poems)
	CO-2	To encourage students to do in-depth analysis on a few examples of English poetry masterpieces.
	CO-3	To increase students' awareness of the aesthetics of poetry and to provide them with the skill to read, appreciate, and critically examine poetry on their own.
Skill Enhancement Course	CO-1	Developing the ability to communicate in English in everyday life
	CO-2	To expose students with verbal and nonverbal communication.
	CO-3	To provide opportunities for speaking exposure in a variety of contexts.

Compulsory English	CO - 1	To introduce students to some excellent pieces of English prose and poetry in enable for them to appreciate the beauty and communicative capability of English.
	CO-2	To prepare students to be knowledgeable and effective English users in real-world circumstances.
	CO-3	Contribute to the overall development of the students' personality
Special Paper III	CO - 1	To educate students with the fundamentals of the book as a literary form.
	CO-2	To familiarise students with the origins and elements of novels
	CO-3	To introduce students to many novel styles and aspects
	CO-4	Students' literary sensibility and recognition of cultural diversity are to be developed, and they are also to be introduced to some of the best examples of novels.
Special Paper IV	CO - 1	To familiarise students with the fundamentals of critical texts
	CO-2	To educate them on the evolution and nature of criticism through history.
	CO-3	To familiarise students with key critical concepts and techniques
	CO-4	To encourage students to analyse literature in light of ideas
General English Paper-III	CO-1	To familiarise students with the fundamentals of critical texts

	CO-2	To educate them on the evolution and nature of criticism through history.
	CO-3	To familiarise students with key critical concepts and techniques
	CO-4	To encourage students to analyse literature in light of ideas
Skill based	CO-1	To teach the youngsters how to interact with others
	CO-2	To increases the stability and communication skills
	CO-3	To encourage students to practice critical thinking
	CO-4	To learn how to control stress and keep positive
	CO-5	To develop leadership skills

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Program - Bachelor of Arts (B.A.-Economics): Program-Specific Outcomes

PSO No.

Program Specific Outcomes

After successful completion of this program, a student will be able to,

PSO1

understand how markets work and how economics is applied to prices.

PSO2

Identify and discuss the limitations of economic analysis.

PSO3

Use equations and graphs to demonstrate your ability to solve systems of equations and economic analysis.

PSO4

Examine various perspectives and hypotheses on economic issues.

PSO5

understanding of the research approach

Program - Bachelor of Arts (B.A.-Economics)		
Title of Course	CO. No.	Course Outcomes
On completion of the course, the students will be able to:		
F.Y.B.A. (Economics) Semester I [2019- CBCS Pattern]		
F.Y.B.A. Eco G1 Indian Economic Environment (CC1-A) G1-11151	CO1	Understand the fundamentals of the economic environment.
	CO2	Understand the Agricultural Environment
	CO-3	Understand the Industrial Environment
	CO-4	Evaluate the Average Economic Progress
F.Y.B.A. (Economics) Semester II [2019- CBCS Pattern]		
F.Y.B.A. Eco G1 Indian Economic Environment (CC1-B) G1-11152	CO-1	Know Basic concepts of Economic Environment.
	CO-2	Understand Service Sector Environment
	CO-3	Acknowledge the Banking Environment.
	CO-4	Explain the Indian economy in depth.
S.Y.B.A. (Economics) Semester III [2019- CBCS Pattern]		
S.Y.B.A. Eco Financial System G2-23153(CC-1C)	CO-1	comprehend the fundamentals of the modern financial system
	CO-2	understand the recent trends and developments in banking system
	CO-3	understand the role of the RBI

	CO-4	understand the importance of the Indian financial system
S.Y.B.A. Eco Micro Economics S1-24151(DSE-1A)	CO-1	Better understand of the subject Economics
	CO-2	impart knowledge of microeconomics.
	CO-3	understand the Theory of Consumer Behaviour
	CO-4	clarify microeconomic concepts
S.Y.B.A. Eco Macro Economics S2- 24152(DSE-2A)	CO-1	Understanding about subject matter of Economics
	CO-2	impart knowledge of macroeconomics.
	CO-3	understand the Theory of economic Behaviour of Large Scale
	CO-4	understand National income, Consumption and investment function
S.Y.B.A. Eco SEC Basic Concept of Research Methodology SEC-I SEC -2A	CO-1	understanding of sampling methods
	CO-2	Identify the appropriate sample techniques
	CO-3	Identify the appropriate source of data
	CO-4	understand research methodology among the students
S.Y.B.A. (Economics) Semester IV [2019- CBCS Pattern]		
S.Y.B.A. Eco Financial System G2- 23153(CC-1D)	CO-1	know about the Reserve Bank of India
	CO-2	identify International Financial Institution
	CO-3	understand Recent Developments in the Indian Financial Sector

	CO-4	Students must understand research methodology.
S.Y.B.A. Eco Micro Economics S1- 24151(DSE-1B)		
	CO-1	Understanding Revenue and Cost
	CO-2	Market Structure Explained
	CO-3	understand Factor Pricing
	CO-4	Understanding Welfare Economics
S.Y.B.A. Eco Macro Economics S2- 24152(DSE-2B)		
	CO-1	Understanding the Monetary Approach
	CO-2	Analysis of inflation's causes
	CO-3	understand the business cycle
	CO-4	understand macroeconomic policies
S.Y.B.A. Eco SEC Basic Concept of Research Methodology SEC-I SEC -2B		
	CO-1	understanding of data analysis
	CO-2	Determine the problem
	CO-3	Learn how to write research reports
	CO-4	students are aware with research methods

T.Y.B.A. (Economics) Semester [2019- Pattern]

T.Y. B.A. Economics General Paper III G.3 Economic Development & Planning	CO-1	Know the growth and development of the economy.
	CO-2	Differentiate between developing and developed countries.
	CO-3	Acknowledge the development process.
	CO-4	Understand economic policy.
	CO-5	Understand economic planning and development theories.
T.Y. B.A. Economics Special Paper III S.3 International Economics	CO-1	Understand international trade theories.
	CO-2	Understand India's international trade policies.
	CO-3	Identify export promotion.
	CO-4	Understand regional and international collaborative efforts.
T.Y. B.A. Economics Special Paper IV S 4. Public Finance	CO-1	Learn about public finance.
	CO-2	Identifies expenditure, revenue, and debt.
	CO-3	Understand the Indian budget.
	CO-4	Understand government social welfare.

ADIVASI SEVA SAMITTEE NASHIK**ARTS, COMMERCE AND SCIENCE COLLEGE, MANUR TAL-KALWAN DIST-NASHIK****Program Specific Outcomes****Program - Bachelor of Arts (B.A. HINDI): Program-Specific Outcomes**

PSO No.	Program Specific Outcomes	
PSO-1	छात्रों को रोजगार योग्य कौशल हासिल करने में मदद करने के लिए।	To help students acquire employable skills.
PSO-2	छात्रों की हिंदी में पढ़ने, लिखने और सुनने की क्षमता में सुधार करने के लिए।	To improve students' ability to read, write, and hear in Hindi.
PSO-3	छात्रों में राष्ट्र के प्रति प्रेम और जिम्मेदारी पैदा करने के लिए	To instil in the students a love of and responsibility for the nation
PSO-4	छात्रों के बीच पुस्तकालय जागरूकता और सीखने के कौशल की भावना को बढ़ावा देना।	To promote among students a sense of library awareness and learning skills.
PSO-5	छात्रों को हिंदी बोलने और उसका प्रचार करने के लिए प्रोत्साहित करना	To encourage students to speak Hindi and to propagate it

ADIVASI SEVA SAMITTEE NASHIK**ARTS, COMMERCE AND SCIENCE COLLEGE, MANUR, TAL-KALWAN DIST-NASHIK****DEPARTMENT OF -HINDI: (Course Outcomes)**

Title of Course	CO. No.	Course Outcomes	
		इन पाठ्यक्रम को पूरा करने के बाद छात्र	
		English	Hindi
FYBA HINDI G1 (SEM-1) 11092	CO-1	will be knowledgeable about Hindi poetry.	हिन्दी कविता जानकारी होंगी।
	CO-2	introduces narrative literature.	कथा साहित्य का परिचय देता है।
	CO-3	Hindi language will develop communication skills	संचार कौशल विकसित करेगी हिंदी भाषा
	CO-4	You will learn about Unicode, the Internet, and software with Hindi computers.	हिंदी कंप्यूटर से यूनिकोड, इंटरनेट और सॉफ्टवेयर के बारे में जानेंगे।
FYBA HINDI G1 (SEM-2) 12092	CO-1	Writing advertisements will become more appealing.	विज्ञापन लिखना अधिक आकर्षक हो जाएगा।
	CO-2	Essay writing skills will be developed.	विज्ञापन लिखने की रुचि पैदा होगी।
	CO-3	Sentences will be used.	वाक्यों का प्रयोग होगा।

	CO-4	Will introduce story literature.	कहानी साहित्य का परिचय देंगे।
	CO-5	Sentences will be known.	वाक्य ज्ञात होंगे।
FYBCOM HINDI (SEM-1) 117-C	CO-1	will be knowledgeable about Hindi poetry.	हिन्दी कविता के जानकार होंगे।
	CO-2	brings in narrative literature.	कथा साहित्य कला है।
	CO-3	will use Hindi to improve communication abilities.	संचार क्षमताओं में सुधार के लिए हिंदी का उपयोग करेंगे।
	CO-4	You can learn about software, the Internet, and Unicode with Hindi computer.	आप हिंदी कंप्यूटर से सॉफ्टवेयर, इंटरनेट और यूनिकोड के बारे में जान सकते हैं।
FYBCOM HINDI (SEM- 2) 127-C	CO-1	It will introduce Hindi poetry literature.	यह हिंदी काव्य साहित्य को पेश करेगा।
	CO-2	introduction to narrative literature	कथा साहित्य का परिचय
	CO-3	Writing abilities for essays will develop.	निबंध लिखने की क्षमता विकसित होगी।
	CO-4	Writing advertisements will become more appealing.	विज्ञापन लिखना अधिक आकर्षक हो जाएगा।
	CO-5	Are accustomed to the language and translation style.	भाषा और अनुवाद शैली के आदी हैं।
SYBA HINDI G2 (SEM 3) 23093	CO - 1	will be knowledgeable about Hindi poetry.	हिन्दी कविता के जानकार होंगे।
	CO-2	introduces narrative literature	कथा साहित्य का परिचय देता है

	CO-3	will be able to write abbreviations and comprehend Hindi word pairings and factor arrangements.	संक्षिप्ताक्षर लिखने और हिंदी शब्द युग्मों और कारक व्यवस्थाओं को समझने में सक्षम होंगे।
SYBA HINDI G2 (SEM 4) 24093	CO-1	The narrative will have sarcastic overtones.	कथा में व्यंग्यात्मक ओवरटोन होंगे।
	CO-2	will describe the interviewing process.	साक्षात्कार प्रक्रिया का वर्णन करेंगे।
	CO-3	You will be familiar with Pallavan art if you are familiar with the mobile system.	यदि आप मोबाइल प्रणाली से परिचित हैं तो आप पल्लवन कला से परिचित होंगे।
SYBA HINDI SEC (SEM 3) 23096	CO-1	The ability to translate will be known.	अनुवाद करने की क्षमता का पता चल जाएगा।
	CO-2	Recognize the characteristics of translation.	अनुवाद की विशेषताओं को पहचानें।
	CO-3	will be knowledgeable about the translation industry.	अनुवाद उद्योग के बारे में जानकार होंगे।
	CO-4	Will develop Hindi to Marathi, English to Marathi, and from Hindi translation skills.	"हिंदी से मराठी, अंग्रेजी से मराठी और हिंदी से अनुवाद कौशल विकसित करेंगे।"
SYBA HINDI SEC (SEM 4) 24096	CO-1	Medium will have writing experience.	माध्यम को लेखन का अनुभव होगा।
	CO-2	to become creative writing.	रचनात्मक लेखन बनने के लिए।
	CO-3	Medium will have writing experience.	माध्यम को लेखन का अनुभव होगा।
	CO-4	will be able to communicate through audio-visual media's language.	श्रव्य-दृश्य मीडिया की भाषा के माध्यम से संवाद करने में सक्षम होंगे।
	CO-1	has knowledge of Indian poetry.	भारतीय काव्य का ज्ञान है।

SYBA HINDI SPL 1 (SEM 3) 23091	CO-2	will be knowledgeable about poetry, language, and other elements.	कविता, भाषा और अन्य तत्वों के जानकार होंगे।
	CO-3	Everyone who has read poetry will be able to recognise the power of words.	हर कोई जिसने कविता पढ़ी है वह शब्दों की शक्ति को पहचान सकेगा।
	CO-4	You'll understand Ras's personality.	आप रास के व्यक्तित्व को समझेंगे।
SYBA HINDI SPL 1 (SEM 4) 24091	CO-1	Recognize the literary variants.	साहित्यिक रूपों को पहचानें।
	CO-2	will be able to distinguish the differences between the verses.	छंदों के बीच के अंतर को भेद करने में सक्षम होंगे।
	CO-3	Epic, Khandakavya, and Mukataka are all familiar with poetry.	महाकाव्य, खंडकाव्य और मुक्तक सभी काव्य से परिचित हैं।
	CO-4	Recognize the underlying ideas of the play.	नाटक के अंतर्निहित विचारों को पहचानें।
SYBA HINDI SPL 2 (SEM 3) 23092	CO-1	will be familiar with Kabir's literary works.	कबीर की साहित्यिक कृतियों से परिचित होंगे।
	CO-2	will be familiar with Mirabai's writings.	मीराबाई के लेखन से परिचित होंगे।
	CO-3	The art of novel reviews will evolve.	उपन्यास समीक्षा की कला विकसित होगी।
SYBA HINDI SPL 2 (SEM 4) 24092	CO-1	The poetry of Rahim shall be realised.	रहीम की कविता को साकार किया जाएगा।
	CO-2	will comprehend Bihari's poetic expression.	बिहारी की काव्य अभिव्यक्ति को समझेंगे।
	CO-3	understanding of Hindi theatre and drama.	हिंदी रंगमंच और नाटक की समझ।

	CO-4	Be aware of any reviews or criticism of the theatre.	थिएटर की किसी भी समीक्षा या आलोचना से अवगत रहें।
SYBSC HINDI (SEM 3) 23341	CO-1	The story will be an introduction to literature.	कहानी साहित्य का परिचय होगा।
	CO-2	Poetry literature will be introduced.	काव्य साहित्य का परिचय होगा।
	CO-3	Writers will have information.	साहित्यकारों की जानकारी होंगी ।
SYBSC HINDI (SEM 4) 24341	CO-1	The story will be an introduction to literature.	कहानी साहित्य का परिचय होगा।
	CO-2	Poetry literature will be introduced.	काव्य साहित्य का परिचय होगा।
	CO-3	Writers will have information.	साहित्यकारों की जानकारी होंगी ।
TYBA HINDI G3 (SEM-5) 35096	CO-1	Remembrance will be familiar with literature.	स्मरण साहित्य से परिचित होंगे ।
	CO-2	Sketches will be familiar with literature.	रेखाचित्र साहित्य से परिचित होंगे ।
	CO-3	Will be familiar with conversation writing.	वार्तालेखन से अवगत होंगे ।
	CO-4	Understanding of meeting history writing.	सभा इतिवृत्त लेखन की समझ ।
TYBA HINDI G3 (SEM-6) 36096	CO-1	You will be familiar with Ghazal literature.	गजल साहित्य से परिचित होंगे ।
	CO-2	The life of Ghazal litterateurs will be introduction.	गजल साहित्यकारों का जीवन परिचय होगा ।
	CO-3	Will be familiar with government letter writing.	सरकारी पत्रलेखन से परिचित होंगे ।

TYBA HINDI SPL 3 (SEM-5) 35091	CO-1	Will be familiar with the history of Hindi literature.	हिन्दी साहित्य के इतिहास से परिचित होंगे।
	CO-2	There will be information about the division of Hindi literature.	हिन्दी साहित्य के कालविभाजन की जानकारी होगी।
	CO-3	You will be aware of the trend of early, Bhakti and Ritika literature.	आदिकालीन, भक्तीकालीन, रितिकालीन साहित्य की प्रवृत्ति से अवगत होंगे ।
	CO-4	"There will be knowledge of creators and literary works.	रचनाकारों तथा साहित्यकृतियों का ज्ञान होगा ।
TYBA HINDI SPL 3 (SEM-6) 36091	CO-1	Will be familiar with the modern period of Hindi literature.	हिंदी साहित्य के आधुनिक काल से परिचित होंगे ।
	CO-2	Bhartendu era, Dwivedi will be familiar with the features of the era of poetry.	भारतेंदु युगीन, द्विवेदी युग के काव्य की विशेषताओं से परिचित होंगे।
	CO-3	There will be information about the literary works of the creators of the modern period.	आधुनिक काल के रचनाकारों की साहित्य कृतियों की जानकारी होगी ।
TYBA HINDI SPL 4 (SEM-5) 35092	CO-1	Be aware of the scope of linguistics.	भाषा विज्ञान की व्याप्ति से अवगत होंगे ।
	CO-2	Will be familiar with the dialects of Hindi language.	हिंदी भाषा की बोलियों से परिचित होंगे ।
	CO-3	The features of Devanagari script will be known.	देवनागरी लिपि की विशेषताओं की जानकारी होगी ।
	CO-1	Become familiar with the nature of linguistics.	भाषा विज्ञान के स्वरूप से अवगत होंगे ।

TYBA HINDI SPL 4 (SEM-6) 36092	CO-2	To understand the directions of study of linguistics.	भाषा विज्ञान के अध्ययन की दिशाओको समझेंगे ।
	CO-3	There will be information about the usefulness of linguistics in the study of literature.	साहित्य अध्ययन में भाषा विज्ञान की उपयोगिता की जानकारी होगी ।
TYBA HINDI SEC (SEM 5) 35096	CO-1	Will be familiar with script writing.	पटकथा लेखन से अवगत होंगे ।
	CO-2	Knowledge of story, screenplay and dialogue.	कथा, पटकथा और संवाद की जानकारी होगी ।
	CO-3	Understand the process of sample making screenwriting.	पटकथा लेखन का नमूना बनानेकी प्रक्रिया को समझेंगे ।
TYBA HINDI SEC (SEM 6) 36096	CO-1	There will be information about the nature of Hindi cinema.	हिंदी सिनेमा के स्वरूप की जानकारी होगी ।
	CO-2	There will be information about the interrelationship between literature and cinema.	साहित्य और सिनेमा के अंत संबंध की जानकारी होगी ।
	CO-3	There will be information about films based on Hindi novels	हिंदी उपन्यास पर आधारित फिल्मों की जानकारी होगी ।

ADIVASI SEVA SAMITTEE NASHIK

ARTS, COMMERCE AND SCIENCE COLLEGE, MANUR, TAL-KALWAN DIST-NASHIK

Program - Bachelor of Arts (B.A.-Marathi): Course Learning Outcomes

Title of Course	CO. No.	Course Outcomes	
After successful completion of these courses, a student will be able to,			
F.Y.B.A. (Marathi) Semester I [2019- CBCS Pattern]			
		Marathi	English
F.Y.B.A. [11021A] CC- 1A (3)	CO-1	कथा' हा निसर्ग, घटक आणि प्रकार समजावून सांगणारा साहित्य प्रकार आहे.	'Katha' is a type of literature that explains nature, elements, and types.
	CO-2	मराठी साहित्य अभिरुची जसजशी विकसित होत जाईल तसतसे विविध साहित्य प्रवाहातील कथानकांचा आस्वाद घेण्याची क्षमता वाढेल	A ability to enjoy story lines from various literary streams will expand as Marathi literature tastes develop.
	CO-3	मराठी कथा, साहित्य, संस्कृती यांची सांगड घालून जीवनमूल्ये रुजवली जातील.	Life values will be instilled by combining Marathi stories, literature, and culture.

	CO-4	शाब्दिक कौशल्ये शिकता येतात. (नैसर्गिक: आकलनासह ऐकणे, संभाषण, वाचन, लेखन आणि ई-संवाद कौशल्ये आत्मसात केली आहेत. प्रगत: सारांश लेखन, निबंध)	Verbal skills can be learned. (Natural: Listening with comprehension, Conversation, reading, writing, and e-communication skills have been acquired. Advanced: Summary writing, Essay)
	CO-5	भाषिक क्षमता विकसित होऊ शकते.	Linguistic abilities can be developed.
F.Y.B.A. (Marathi) Semester II [2019- CBCS Pattern]			
F.Y.B.A. [11022A]	CO-1	'एकांकिका' (वन अॅक्ट प्ले) फॉर्म, घटक आणि साहित्य प्रकारांचा परिचय करून देईल	'Ekankika' (One Act Play) will start introducing the form, elements, as well as types of literature.
	CO-2	विद्यार्थी कलाकारांच्या कलेबद्दल बोलू शकतात.	Students can talk about the art of performer.
	CO-3	'एकांकिका' समजून घेण्याची क्षमता सुधारण्याचे काम होईल.	The ability to understand 'one-act plays' will work on improving.
	CO-4	भाषेचा वापर वेगवेगळ्या नवकल्पनांमध्ये केला जातो. (कल्पना, संवाद, स्लोगन लेखन, अनुवाद)	Language is used in many different innovations. (Imagination, Dialogue, Slogan Writing, Translation)
	CO-5	दैनंदिन परिस्थितींमध्ये भाषा वापरली जाऊ शकते.	Language can be used in everyday situations.
S.Y.B.A. (Marathi) Semester III [2019- CBCS Pattern]			
S.Y.B.A. [23011] MIL- 2 (2)	CO-1	प्रगत भाषिक कौशल्ये जोपासली जातील.	Advanced linguistic skills will be cultivated.
	CO-2	माध्यम संप्रेषणाचे स्वरूप स्पष्ट केले जाऊ शकते.	

			The nature of media communication can be explained.
	CO-3	व्यक्तिमत्व विकासात भाषेची भूमिका स्पष्ट होईल.	Language's role in personality development will become clear.
	CO-4	जीवन आणि प्रसारमाध्यमे यांच्यातील लोकशाही दृष्टिकोनाचे परस्परावलंबन स्वीकारले जाईल.	The interdependence of a democratic approach to life and the media will be accepted.
S.Y.B.A. [23021] DSE- 1A (3)	CO-1	माध्यमांसाठी लेखन कौशल्याचा सन्मान केला जाईल	Writing skills for the media will be honed.
	CO-2	'आत्मचरित्र' हा साहित्यप्रकाराचा आद्यकथा असेल.	'Autobiography' will be a primer on the literary genre.
	CO-3	इतर शैलींच्या तुलनेत आत्मचरित्राचे वेगळेपण स्पष्ट करता येते	In comparison to other genres, the uniqueness of autobiography can be clarified.
	CO-4	आत्मचरित्र म्हणजे समजून घेता येईल, चाखता येईल, विश्लेषण करता येईल.	Autobiography' is something that can be understood, tasted, and analysed.
	CO-5	आत्मचरित्र प्रकाराचा अभ्यास एकत्रित करून जीवनाची जाणीव निर्माण होण्यास मदत होईल	The study of the autobiography genre will help to develop an awareness of life by combining
जीवन मूल्ये आणि नैतिकता अधिक चांगल्या प्रकारे समजून घेणे		knowledge of life values and ethics.	
S.Y.B.A. [23022] DSE- 2A (3) साहित्यहिचार	CO-1	भारतीय आणि पाश्चात्य साहित्यिक विचारांच्या आधारे साहित्याची संकल्पना स्पष्ट करता येते.	On the basis of Indian and Western literary thought, the concept of literature can be explained.
	CO-2	साहित्याचे स्वरूप तपासणे शक्य आहे.	It is possible to examine the nature of the literature.

	CO-3	साहित्यिक उद्दिष्टे समजू शकतात.	The literary objectives can be understood.
	CO-4	साहित्य लेखनाच्या प्रक्रियेवर चर्चा करता येईल.	The process of writing literature can be discussed.
	CO-5	मी भाषा आणि साहित्यिक शैलीबद्दल काही कल्पना स्पष्ट करेन.	I'll explain some ideas about language and literary genres.
S.Y.B.A. [23023] CC- 1C (3)	CO-1	शैली, त्यातील घटक, त्याची हालचाल आणि त्याची शैली या सर्वांचा परिचय "कादंबरी" मध्ये केला जाईल.	The genre, its elements, its movement, and its genre will all be introduced in "Novel."
	CO-2	वाङ्मयीन (साहित्याची) गोडी जसजशी विस्तारत जाईल तसतशी 'कादंबरी' या प्रकाराचा आस्वाद घेण्याची क्षमता वाढेल.	The ability to enjoy the genre of 'novel' will increase as Vadmayin's (Literature's) taste expands.
	CO-3	संगणक आणि स्मार्ट फोन या दोन्हीवर युनिकोडवरून मराठी लिहिता येते.	Marathi can be written from Unicode on both a computer and a smart phone.
	CO-4	संगणक आणि स्मार्ट फोन या दोन्हीवर युनिकोडवरून मराठी लिहिता येते.	Keyboard types will be addressed.
	CO-5	युनिकोड आणि मराठी टायपिंग दोन्ही समर्थित आहेत. (Google इनपुट, मायक्रोसॉफ्ट इनपुट, आणि असेच.)	Unicode and Marathi typing are both supported. (Google Input, Microsoft Input, and so on.)

S.Y.B.A. [23025]	CO-1	छपाई आणि संपादनासाठी आवश्यक कौशल्ये विकसित करा.	Develop the skills required for printing and editing.
	CO-2	प्रकाशन आणि टाइपसेटिंग प्रशिक्षण व्यक्तींच्या मागणीनुसार मिळवा.	Get the publishing and typesetting training individual's demand.
		प्रकाशन आणि संपादनासाठी प्रात्यक्षिके तुम्हाला तुमची तैनाती कौशल्ये सुधारण्यास मदत करतील.	Tours to publishing houses, marketing firms, and printing presses will be used to provide training.
	CO-4	पब्लिशिंग हाऊसेस, मार्केटिंग फर्मस आणि प्रिंटिंग प्रेसचे दौरे प्रशिक्षण देण्यासाठी वापरले जातील.	newspaper offices, distribution agencies, bookstores, flex production centres, newsletters.
		वास्तविक जगाचा अनुभव तुम्हाला प्रकाशने आणि संपादनाबद्दल शिकवेल.	Real world experience will teach you about publications and editing.
S.Y.B.A. (Marathi) Semester IV [2019- CBCS Pattern]			
S.Y.B.A. [24011] MIL- 2 (2)	CO-1	नवीन मीडिया आणि सोशल मीडिया काय आहेत आणि ते कनेक्टिव्हिटीमध्ये कुठे बसतात हे स्पष्ट होणार आहे.	It's going to become clear what new media and social media are and where they fit into connectivity.
	CO-2	संप्रेषण, जीवनशैली आणि सोशल नेटवर्क्ससह नवीन माध्यमांवर चर्चा केली जाईल.	Communication, way of life, and new media, including social networks, will be discussed.
	CO-3	नवीन मीडिया आणि सोशल नेटवर्क्ससाठी लेखन कौशल्य विकसित केले जाईल.	Writing skills for new media and social networks will be developed.

	CO-4	नवीन माध्यमे आणि सोशल मीडियामध्ये साक्षरता विकसित केली जाईल.	Literacy in new media and social media will be developed.
	CO-5	नवीन माध्यम आणि सोशल मीडियाचा वापर आणि परिणाम यावर लक्ष देणे शक्य आहे.	It is possible to address the use and effects of new media and social media.
S.Y.B.A. [24021]DSE- 1B (3)	CO-1	अभ्यासक्रमाची सुरुवात 'मध्ययुगीन गद्य: सद्गुण गद्य, बखर आणि सांस्कृतिक पत्रे' या परिचयाने होईल.	The course will begin with an introduction to 'Medieval Prose: Virtuous Prose, Bakhar, and Cultural Letters.'
	CO-2	मध्ययुगीन कविता : अभंग, भारूड, गवळण, पोवाडा, लावणी' या विषयावर चर्चा होणार आहे.	The topic 'Medieval Poetry: Abhang, Bharud, Gavalan, Povada, Lavani' will be discussed.
	CO-3	मराठी भाषा, साहित्य समीक्षण, संस्कृती यांची ओळख करून दिली जाईल.	Marathi language, literary criticism, and culture will be introduced.
	CO-4	मराठी वाङ्मय प्रकारांची ओळख झाल्याने साहित्यिक आकलन, अभिरुची, अभिरुची आणि मूल्यमापन क्षमता विकसित होईल.	With the introduction of Marathi literary genres, literary comprehension, taste, taste and evaluation ability will be developed.
	CO-5	जीवनाची समज विकसित करण्यासाठी, साहित्यिक अभ्यास जीवन मूल्ये आणि नैतिकतेचे ज्ञान एकत्र करेल.	To develop an understanding of life, literary studies will combine knowledge of life values and ethics.
S.Y.B.A. [24022] DSE- 2B (3)	CO-1	साहित्याच्या समीक्षेची कल्पना आणि स्वरूप मांडले जाईल.	The idea and format of a review of the literature will be presented.

	CO-2	साहित्य आणि समीक्षा यांचे परस्परावलंबन यावर चर्चा केली जाईल.	The interdependence of literature and reviews will be discussed.
	CO-3	समीक्षेचे वैशिष्ट्य साहित्याच्या प्रकारावरून काढता येते.	The characteristic of the review can be deduced from the type of literature.
	CO-4	मजकूर परिचय, परीक्षा आणि पुनरावलोकन यातील फरक ओळखता येतो.	The difference between text introduction, examination and review can be identified.
	CO-5	सध्याच्या साहित्याची समज वाढेल.	Understanding of the existing literature will grow.
S.Y.B.A. [24023] CC-1D (3)	CO-1	ललितगद्य'मध्ये साहित्याचे स्वरूप, घटक, चळवळ आणि प्रकार यांची ओळख करून दिली जाईल.	The form, elements, movement, and type of literature will be introduced in 'Lalitgadya.'
	CO-2	ललितगद्य' समजण्याजोगा, चवदार आणि विश्लेषणात्मक आहे.	Lalitgadya' is comprehensible, tasty, and analytical.
	CO-3	गुगल फॉर्मचा वापर अभ्यासात करता येतो	Google Forms can be used in the study
	CO-4	अभ्यासासाठी गुगल क्लासरूमचा वापर करता येतो.	The study can make use of Google Classroom.
	CO-5	अभ्यासात Youtube चा वापर करता येईल.	Youtube can be used in the study.
S.Y.B.A. [24025] SEC-2B (2) उपयोहजत लेखनकौशल्ये	CO-1	जाहिरात, मुलाखत लेखन आणि संपादनासाठी आवश्यक कौशल्ये शोधा	Discover the necessary skills for advertising, interview writing, and editing.
	CO-2	जाहिरात, मुलाखत लेखन, संपादन यासाठी प्रशिक्षण आवश्यक आहे.	Training is needed for advertising, interview writing, and editing.

	CO-3	जाहिरात, मुलाखत लेखन आणि संपादनासाठी प्रात्यक्षिके तुम्हाला तुमची तैनाती कौशल्ये सुधारण्यास मदत करतील.	Demonstrations for advertising, interview writing, and editing will help you improve your deployment skills.
	CO-4	विविध स्वरूपांसाठी नोंदणी करणे शक्य आहे.	Registration is possible for a variety of formats.
	CO-5	व्यावहारिक ज्ञान तुम्हाला जाहिराती, मुलाखत लेखन आणि संपादन याबाबत शिकवेल.	Practical knowledge will teach you regarding advertising, interview writing, and editing.
T.Y.B.A. (Marathi) [2019 Pattern] SEM-V			
T.Y.B.A. [35023] G-3	CO-1	प्रिंट मीडियासाठी लिहायला खूप चांगले शिकू शकते.	Might very well learn to write for print media.
	CO-2	प्रवासवर्णन साहित्य म्हणजे नेमकं काय?	What really is Travelogue Literature?
	CO-3	प्रवासवर्णन साहित्याचे वेगळेपण, प्रेरणा आणि हेतू तपासा.	Investigate the distinctiveness, motivation, and purpose of the Travelogue literature.
	CO-4	प्रवासवर्णनातून या साहित्य प्रकाराचे आकलन, कौतुक आणि विश्लेषण होईल.	Travelogues will acquire understanding, appreciation and analysis of this literary genre.
T.Y.B.A. [35021] S-3	CO-1	मराठी भाषेच्या संदर्भात ऐतिहासिक साधनांचा शोध घेईल.	Will investigate historical tools in the context of the Marathi language.
	CO-2	वाड्मयाची संकल्पना, निसर्ग, प्रेरणा आणि वैशिष्ट्ये जाणून घ्या.	Learn about Vadmaya's concept, nature, inspiration, and characteristics.

	CO-3	यादवकालीन सामाजिक आणि सांस्कृतिक पार्श्वभूमीवर आक्रमण केले जाईल.	The Yadav period's social and cultural background will be invaded.
	CO-4	संत साहित्यकृतींचे वाचन करतील.	Saints will read literary works.
T.Y.B.A. [35022] S-4	CO-1	भाषेशी संबंधित विविध विषयांवर संशोधन करणार आहे.	Will research various language-related issues.
	CO-2	भाषा शिकण्याच्या पद्धतींचा अर्थ लावला जातो.	Methods of language learning are interpreted.
	CO-3	इंद्रिय रचनेचा वापर करून ध्वनी रचनेच्या चरणांचे वर्णन करा.	Describe the steps of sound design using the sense organ composition.
	CO-4	मराठी भाषेचा मूळ अर्थ स्पष्ट करा.	Explain the original meaning of the Marathi language.
SEC 35025	CO-1	कार्यक्रमाची रूपरेषा समजून घेईल	Will comprehend the program's outline
	CO-3	कार्यक्रम एकत्र केले जातील.	Programs will be merged.
	CO-3	भाषेचे व्यावहारिक ज्ञान मिळेल.	Practical language knowledge will be gained.
TYBA SEM-VI			
TYBA (36023) G3	CO-1	भाषा कौशल्य विकास आणि प्रशासन भाषा पद्धतींचे ज्ञान	Knowledge of language skills development and administration language practices
	CO-2	कविता साहित्यिक स्वरूपाची प्रेरणा आणि वैशिष्ट्ये समजून घेतील.	Poems will comprehend the literary form's motivations and characteristics.

	CO-3	अनेक भाषिक शोध आणि भाषा प्रकार सादर केले जातील.	Several linguistic discoveries and language forms will be presented.
TYBA(36021) S3	CO-1	शिवकालीन ऐतिहासिक व सांस्कृतिक संदर्भाचे आकलन होईल.	The historical and cultural context of the Shiva period will be comprehended.
	CO-2	शाहिरी काव्य आणि पंडिती काव्य हे व्यक्तिचित्रण होणार आहे.	Shahiri Kavya and Panditi Kavya will be profiled.
	CO-3	बखर कवितेचा इतिहास आणि शैली परिचित होईल.	Bakhar will be familiar with the history and genre of poetry.
TYBA-(36022) S4	CO-1	अनेक भाषाशास्त्राचे ज्ञान दिले जाईल.	There will be imparted knowledge of many linguistics fields.
	CO-2	फॉर्म सिस्टम तयार करणे आणि समजून घेणे.	To form and understand form system.
	CO-3	वाक्य रचना तत्त्वे जाणून घेतल्याने शब्द निवड आणि व्याकरणास मदत होईल.	Knowing sentence structure principles will help with word choice and grammar.
	CO-4	अर्थाचे स्वरूप आणि संकल्पना समजेल	The nature and concept of meaning will be understood
TYBA (36025) SEC	CO-1	योजना आयोजित करेल	will organise the plan
	CO-2	कार्यक्रम समन्वय क्षमता विकसित करते	Develops programme coordination abilities
	CO-3	प्रोग्राम कॉम्बिनेशनचे भाषेचे पैलू ओळखले जातील.	The programme combination's aspects of language will be known.
F.Y.B.Com. SEM-I			
F.Y.B.Com (117)	CO-1	विविध भाषांचे व्यावहारिक ज्ञान आणि आकलन असेल	There will be practical knowledge and comprehension of various languages

	CO-2	निबंध वाङ्मय प्रकरणाचे व्यक्तिमत्व आणि प्रेरणा स्पष्ट करू शकतात.	Essays can explain the individuality and motivation of the Wadmay case.
	CO-3	विविध प्रभावशाली व्यक्तींची कामे आणि कल्पना जाहीरपणे प्रसिद्ध केल्या जातील.	The works and ideas of various influential people will be released publicly.
	CO-4	विविध लेखन तंत्रांचा अभ्यास करेल आणि लेखन क्षमता विकसित करेल	Will study various writing techniques and develop writing ability
SEM-II			
F.Y.B.Com. (127)	CO-1	संगणकाची भाषा युनिकोडद्वारे स्वीकारली जाते.	The computer language is accepted by Unicode.
	CO-2	प्रसिद्धी लेखनात प्रभुत्व मिळेल.	Publicity writing will be mastered.
	CO-3	भाषा कौशल्यात सुधारणा होईल.	Language skills will be improved.
	CO-4	प्रशासकीय पत्र व्यवहार कळतील.	Administrative letter transactions will be known.
S.Y.B. Sc. (Marathi) Semester III			
S.Y.B.Sc. [23331] AECC-III-B उपयोजित मराठी	CO-1	मराठीतील जीवन आणि साहित्य यांचा संबंध कसा आहे हे स्पष्ट होईल.	It will become clear how life and literature in Marathi are related.
	CO-2	परदेशी भाषेच्या तुलनेत मराठी भाषेची शैलीत्मक उत्क्रांती पाहणे शक्य आहे. (पारंपारिक-व्यावहारिक-साहित्यिक-कार्यालय-मीडिया-सोशल मीडिया)	It is possible to see the stylistic evolution of Marathi language in comparison to foreign language. (Traditional-Practical-Literary-Office-Media-social media)

	CO-3	मराठी उपयोजित भाषा कौशल्य विकास आयोजित केला जाईल.	Marathi Applied Language Skills Development will be conducted.
	CO-4	प्रसारमाध्यमांमध्ये मराठी भाषेचा यशस्वी वापर करता आला.	The Marathi language could be used successfully in the media.
S.Y.B.Sc. (Marathi) Semester IV [2019- CBCS Pattern]			
S.Y.B. Sc. [24331] AECC-IV-B मराठी साहित्य	CO-1	मराठी विज्ञान कथा लोकप्रियता मिळेल.	Marathi science fiction will gain popularity.
	CO-2	विद्यार्थ्यांना मराठी विज्ञान कथा लेखकांबद्दल माहिती मिळेल.	Students will learn about Marathi science fiction authors.
	CO-3	विज्ञान आणि साहित्याची आवड निर्माण करून मराठी भाषा आणि साहित्य यांच्यातील दुवा साकार होईल.	The link between Marathi language and literature will be realised through developing an interest in science and literature.
	CO-4	मराठी शास्त्रज्ञांच्या साहित्याचे मूल्यमापन करू शकतील.	They will be able to evaluate Marathi scientists' literature.

ADIVASI SEVA SAMITTEE NASHIK

ARTS, COMMERCE AND SCIENCE COLLEGE, MANUR, TAL-KALWAN DIST-NASHIK

Program - Bachelor of Arts (B.A.-Political Science): Program Specific Outcomes

PSO No.	Program Specific Outcomes
After successful completion of this program, a student will be able to,	
PSO-1	Students enable to understand constitutional and Political Process of India.
PSO-2	Students enable to understand the philosophy of Indian constitutions.
PSO-3	Students enable to understand the traditional & Modern Political Thoughts process along with the work great thinkers of the ancient and medieval period
PSO-4	Students get adequate information about how local self-government institutions were formed and works in India.
PSO-5	Students enable to understand the various factors which impacts politics of any nation such as sociological, cultural, physical, economical, technological factors etc
PSO-6	Students aware of international relations global politics also grasp major theories, concepts, ideologies, Institutions etc. which make impact on global political process.

Course Outcomes

Program - Bachelor of Arts (**Political science**) Program-Specific Outcomes

Title of Course	CO. No.	Course Outcomes
FYBA		
After completion of this Course student will gain Knowledge of,		
Introduction of Indian Constitution-11161	CO-1	Students will develop an understanding of the basic principles of the Constitution and an understanding of the Constitution, Justice 1, and a sense of brotherhood.
	CO-2	Students will enjoy their basic rights and duties.
	CO-3	Knowledge of central and state related authorities and laws and tax collection will be the law of their future actual flight.
	CO-4	Mazmi will understand how the legislative process takes place in Parliament and how constitutional laws and amendments are generally enacted.
Introduction on of Indian Constitution 12161 -A-II	CO-1	Parliamentary work of Lok Sabha and Rajya Sabha and Nigdia will be understood. And the outline of the law will be understood.
	CO-2	You will get information about the executive board i.e. the cabinet and the functions and powers of the Prime Minister.
	CO-3	Judiciary means the criminal sections of the municipality as well as how the administration of justice is shaped.

	CO-4	How is the electoral process, we became aware that we are an important part of the voting process.
SYBA		
AN INTRODUCTION TO POLITICAL IDOLOGY - 23164 - III	CO-1	Nationalism will awaken patriotism and increase the sense of unity in the society.
	CO-2	Through democratic consensus, one can understand how to live an ideal life in the society. The mindset will inculcate in the students a value and a positive outlook towards life
	CO-3	The fascism system of thought would give a sense of what to do for the nation and education and discipline.
AN INTRODUCTION TO POLITICAL IDOLOGY-IV 24164	CO-1	Students should raise their voice for their rights by doing business through Marxism, living a basic life will bring awareness to Asmina.
	CO-2	When we realize the appreciation of Phule-Ambedkar's thinking, we will increase the feeling of equality of all religions.
	CO-3	Because of Gandhiji's advice, let's take Samhile's path by realizing how to become an ideal citizen
	CO-4	Students will get information about women's rights by becoming their women's
WESTERN POLITICAL THOUGHT SPL-III 23161	CO-1	Taking an insight into the following: Hegel's views on Civil Society and State; Utopian and Scientific socialism: basic characteristics.
	CO-2	Examining the varieties of non-Marxist socialism: Fabianism, Syndicalism, Guild Socialism, German Revisionism.

	CO-3	Examining the features of Medieval Political Thought
	CO-4	Examining the varieties of non-Marxist socialism: Fabianism, Syndicalism, Guild Socialism, German Revisionism.
WESTERN POLITICAL THOUGHT SPL-IV 24161	CO-1	Evaluating the Renaissance; political thought of Reformation; and Machiavelli.
	CO-2	Taking an insight into the following: Hegel's views on Civil Society and State; Utopian and Scientific socialism: basic characteristics.
	CO-3	Providing an insight into the dominant features of Ancient Western Political Thought: Ancient Greek political thought with focus on Aristotle and Plato; Roman Political Thought: its contributions with special emphasis on the emergence of Roman law
POLITICAL JOURNALISM 23162	CO-1	Content about journalism will be remembered
	CO-2	About Journalism It will help you to do journalism business in life
	CO-3	It will be understood that political journalism plays an important role in social exchange.
	CO-4	Students will aim to establish the foundation of what the process of political journalism is like.
POLITICAL JOURNALISM 24162	CO-1	Understand how important role political journalism plays in the country's system
	CO-2	Journalism is about mass media techniques.

	CO-3	Students Will Know the Role Of Media In Indian Politics.
BASIC OF INDIAN CONSTITUTION 23165	CO-1	Students Acquire Good Knowledge About Important Features of Indian Constitution.
	CO-2	Students Enable to Know Basic Framework of Indian Government.
	CO-3	Students Enable to Understand Fundamental Rights, Duties of Indian Citizen and Guiding Principal of State Policy.
BASIC OF INDIAN CONSTITUTION 24165	CO-1	Students Get Good Knowledge about Main Issues and Topics in Indian constitution
	CO-2	Students develop Socially background.
TYBA		
MODERN POLITICAL ANALYSIS - 35163	CO-1	Students Enable to Know basic Polity analysis
	CO-2	Students Make Good Understanding Modern Polity system
	CO-3	Understand how political analysis is done in the modern world and what is true about it.
	CO-4	From the political system comes the nature of the political process age and its importance

MODERN POLITICAL ANALYSIS - 35163	CO-1	Understand how political analysis is done in the modern world and what is true about it.
	CO-2	From the political system comes the nature of the political process age and its importance
PUBLIC ADMINISTRTION 35161	CO-1	Public administration is a service that serves equals and equals.
	CO-2	The new public administration will bring in how important faith is to the chief in the modern world.
	CO-3	It will be understood how important tradition and behavior and process are for building individuality through public administration.
	CO-4	Is there a difference between a good administrator and a private administrator as a bureaucracy Fertilizers will go beyond working.
PUBLIC ADMINISTRTION 36161	CO-1	Ajman was doing the examination after the process of Nakur Bhatani. Special information will be noted.
	CO-2	public administration and external recruitment medium will understand its training process and transfer promotion
	CO-3	Budgeting, budgeting process is required to run the government system, i.e. financial and budgeting.
	CO-4	Public administration is permanent. It will also be understood that it was kept under control by the method of executive justice.
INTERNATION RELATIONS 35162	CO-1	Students enable to understand the evolution, scope and significance of international relations and international politics.

	CO-2	Students enable to demonstrate an understanding of key historical events and also they enable to understand contemporary international system; and the key actors which shaped the international Politics
	CO-3	Students enable to discuss the main theories in international relations and politics
INTERNATION RELATIONS 35162	CO-1	Students enable to discuss the main theories in international relations and politics.
	CO-2	Students enable to analyze importance of international relation and politics in process of nation progress.
	CO-3	Students enable to analyze importance of international relation and politics in process of nation progress.
SAMRUKYA MAHARASHTRA MOVEMENT 35165	CO-1	Geet in public administration and external recruitment medium will understand its training process and transfer promotion
	CO-2	Budgeting, a budgeting process is required to run the government system, i.e., financial and budgeting.
	CO-3	Public administration is permanent. It will also be understood that it was kept under control by the method of executive justice.
	CO-4	Student was doing the examination after the process of Nakur Bhatani. Special information will be noted.
	CO-1	Hamman Maharaya, who raised many movements from various linguism, established many councils to take new branch government measures for development, will know about them.

SAMRUKYA MAHARASHTRA MOVEMENT 36165	CO-2	It will be understood how important the role of linguistic, social and political ideology is in the United Maharashtra movement for state building.
	CO-3	Students enable to understand political Process of Maharashtra from historical and Political dimension.
	CO-4	Students enable to understand how regional issues effects political process of any states and its importance in political life



ADIVASI SEVA SAMITTEE NASHIK

ARTS, COMMERCE AND SCIENCE COLLEGE, MANUR, TAL-KALWAN DIST-NASHIK

Program Specific Outcomes

Program - Bachelor of Arts (History): Program Specific Outcomes

DEPARTMENT OF HISTORY

PSO NO.	Program Specific Outcomes
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After successful completion of this program, a student will be able to,

PSO-1	Gaining knowledge of general concepts of chronology, basic concepts of history and values like tolerance.
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PSO-2	Introducing students to the forces of international politics.
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PSO-3	Understanding the source, importance of heritage sites and the underlying concept of history.
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PSO-4	Students will learn to explain how and why important events happen and change over time occurs.
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PSO -5	Students will have a clear understanding of the nature of evidence collected from primary and secondary sources
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PSO-6	Introducing the social, economic, political, cultural and religious conditions of Indian History
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PSO-7	Introducing ancient and medieval Indian art and architecture.
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ADIVASI SEVA SAMITTEE NASHIK

ARTS, COMMERCE AND SCIENCE COLLEGE, MANUR, TAL-KALWAN DIST-NASHIK

Course Outcomes

Program - Bachelor of Arts History

Title of Course	CO. No.	Course Outcomes
FYB.SC - SEM I		
After completion of this Course student will gain Knowledge of,		
Early India:From Prehistory to the Age of the Mauryas History General - I- 12172	CO-1	At the end of the Course, Student will be able to Explain the transitions in Vedic culture
	CO-2	The Course intends to Provide an Understanding of the Politics, Social, Economic, Religious, Science, and technology Ancient India.
	CO-3	The goal of the course is to enable the student in understanding early Indian history from the Paleolithic era to the Mauryan era.
Early India: Post Mauryan Age to the Rashtrakutas - General - I11171	CO-1	The student will enable to describe the rise and evolution of the Mauryan Empire as well as the development of ancient India at the course's conclusion.
	CO-2	There is also an activity to stimulate the kids' curiosity.
	CO-3	The ability for students to analyze our history using elements of ancient Indian culture.

History of the Marathas (1630 - 1707) History General - II - 23174	CO-1	Research the Marathas' political, social, and conceptual history. Students will be able to develop the ability to analyze sources for Maratha history.
	CO-2	students will be able to Analyze how Chhatrapati Shivaji Maharaj, his successors, and the Maratha kingdom's later expansion benefited from the foundation of Swarajya.
	CO-3	Students will be able to learn the significance of regional history and the political foundation of the region.
	CO-4	students able to understand changed nature of Maratha Polity during the Peshwa Period.
History of the Marathas (1707 – 1818) 24174	CO-1	students will be able to examine the dynamics of Maratha Confederacy and reciprocity.
	CO-2	students examine role of Marathas and regionality in National politics of 18th Century India.
	CO-3	Student understanding administrative system, society and economy of the Peshawa period
Medieval India - Sultanate Period- 24171 Spl. - I	CO-1	Develop the ability of students to distinguish between fact and fiction while understanding that there is no one historical truth.
	CO-2	At the end of the Course Student will be able to Classify foundation of Delhi Sultanate and Sultanate Administration.
	CO-3	students understand the socio, economic condition of Delhi Sultanate.
Medieval India: Mughal Period - 351718 - Spl. -II	CO-1	At the end of the Course Student will be able to Understand the Mughal ruler and incidents regarding Deccan policies.
	CO-2	Maps- important centres in Mughal Empire under Akbar and Aurangzeb.

	CO-3	At the end of Course Student will enable to develop the understanding of modern world
	CO-4	Understand the impact of the Second World War
	CO-5	Students to understand the Significance of the intellectual, economic, political developments in modern world
Glimpses of the Modern World - Part I 23172	CO-1	It will enable students to develop the overall understanding of the Modern World.
	CO-2	At the end of the Course Student will be understand the significant impact of the modern concepts such as Dictatorship, Cold War, Nationalism, Communism, Imperialism, Polarization, etc.
Glimpses of the Modern World - Part II- 24172	CO-1	Students will get a basic understanding of the history and development of early Indian art and architecture.
Art and Architecture of Early India- 23176	CO-1	They will understand how pottery, terracotta figurines, ornaments, and civilizations came to be.
Medieval Indian Arts and Architecture(1206 To 1857) Skill Enhancement Courses (SEC)	CO-1	planning and coin and seal preparation.
	CO-2	They will be knowledgeable of the early Indian art and architecture.
	CO-3	Students will develop a basic understanding of how Middle Ages art and architecture developed.
	CO-4	They will understand how the art and architecture of mediaeval India evolved over time.

	CO-5	They will understand how Persian art influence Islamic art and architecture in mediaeval India.
Indian National Movement (1885-1947)- 35174 General- III	CO-1	Understand the vision of Mahatma Gandhi and the importance of Gandhian movements
	CO-2	To develop the spirit of nationalism among students.
	CO-3	Students will understand various aspects of the Indian independence movement and the creation of modern India.
	CO-4	To inculcate the rational thinking among the students.
India After Independence- (1947-1991) -	CO-1	At the end of the Course Student will be able to develop an overall Understanding of the Contemporary India.
	CO-2	Student will be understanding various aspects of India domestic and foreign policies that shaped post-independence India.
	CO-3	know the students aware of the multi – dimensionality of modern india.
Introduction to Historiography Spl. - III	CO-1	At the end of course Students will be Understand methods and stools of data collection.
	CO-2	To study the types of Indian Historiography.
	CO-3	Students Understand about how History is studied, written and understood.
Applied History	CO-1	At the end of the course students will be understand to the information and importance of applied history.

	CO-2	Students explain the usefulness of history in the 21st century, its changing perspectives, the new ideas that have been invented, and the importance of History in a Competitive World.
	CO-3	Students Select the historical significance of Archaeology and Archives and the opportunities in the field of Archaeology and Archives through this course.
Maharashtra in the 19th Century- Spl. - IV	CO-1	Understand the social and economic condition in early 19th century
	CO-2	To study Political, Social, Economic and conceptual History of the 19th Century Maharashtra in an analytical way with the help of primary sources.
	CO-3	To evaluate contribution of 19th century in Maharashtra to the establishment of Maharashtra state contribution of successors and later development of the 19th century Maharashtra.
History of Maharashtra in the 20th Century	CO-1	To Introduce the students to the history of 19th century in Maharashtra
	CO-2	To study Political, Social, Economic and conceptual History of the 19th Century Maharashtra in an analytical way with the help of primary sources.
	CO-3	To evaluate contribution of 19th century in Maharashtra to the establishment of Maharashtra state contribution of successors and later development of the 19th century Maharashtra
	CO-4	To study Socio-religious System of the 19th Century in Maharashtra.
South Indian Art and Architecture	CO-1	This paper is designed to introduce the students to the Key Concepts and practical approaches in Archaeology, highlighting their applications in interpreting the Human past.

Skill Enactment Courses (SEC)	CO-2	It will enable students to understand the definition, aims and scope of Archaeology and its development as a discipline will be introduced to the students.
	CO-3	The nature of the Archaeological record and the unique role of science in Archaeology is explained to the students.
	CO-4	Legislation related to Archaeology and the role of Archaeology in Heritage Management is also discussed in this course.

ADIVASI SEVA SAMITTEE NASHIK

ARTS, COMMERCE AND SCIENCE COLLEGE, MANUR, TAL-KALWAN DIST-NASHIK

Program - Bachelor of Commerce (B.Com.): Program-Specific Outcomes

PSO	Program Specific Outcomes
After successful completion of this program, a student will be able to,	
PSO-1	impart knowledge of the main fields of commerce.
PSO-2	Prepare financial statements using accounting methods, concepts, conventions, and processes for various business organisation types.
PSO-3	Able to provide information on various matters affecting business, industry and trade
PSO-4	It will prepare graduates to apply their knowledge practically and analyze it in areas such as accounting, taxation and finance
PSO -5	Will develop the necessary professional knowledge and competencies in taxation, management, marketing and finance

Course Learning Outcomes

Program - Bachelor of Commerce (B. Com.): Course Outcomes

Title of Course	Title of Course	Course Outcomes		
After successful completion of these courses, a student will be able to,				
FYBOM SEM-I	112-Financial Accounting-I	CO1	Understanding accounting rules, principles, and latest developments is important.	
		CO2	To create the accounts, use the accounting concepts and procedures.	
		CO3	learn the fundamentals of GST	
	113-Business Economics	CO1	impart business economics knowledge	
		CO2	clarifying principles in microeconomics	
		CO3	Analyze and understand graphs and charts	
		CO4	understanding the fundamental theories, ideas, and applications of microeconomics	
	114(A)- Business Mathematics & Statistics- I	CO1	Student develop skills provided to solve a variety of issues.	
		CO2	Student will Recognize the differences between simple interest, compound interest, and EMI.	

		CO3	Use some simple statistical techniques to analyse data.
		CO4	Calculate various averages and variational formulas.
	115A-Organization Skill Development	CO1	learn about the upcoming developments in the contemporary office setting
		CO2	Develop your organisational abilities.
		CO3	Enhance pupils' technical abilities to create and create efficient ways to manage organisational records
	115B-Banking & Finance - I	CO1	Recognizing the basics of banking
		CO2	Recognize different banking ideas
		CO3	Recognize how banks operate.
		CO4	Discribe a banking system in India
	116B - Insurance & Transport	CO1	Know the fundamental principles of insurance.
		CO2	Technical skill and critical-thinking abilities
		CO3	Learn about the various job options available in the insurance industry.
	116C-Marketing & Salesmanship	CO1	marketing industry will be introduced to the student.
		CO2	Students will learn how to price a product

		CO3	Student will develop abilities in the area of market segmentation, it will assist students in applying this knowledge practically.
		CO4	Students will learn how to price a product and about product mix at the same time
FYBCOM-SEM-II	122-Financial Accounting-II	CO1	Understand the various accounting software program.
		CO2	Prepare the charitable trusts' final accounting.
		CO3	Inculcate the virtues of a good manager, and acquire the required abilities.
		CO4	Detailed information on lease accounting and intangible asset value
	123-Business Economics (Micro) - II	CO1	understand the Market Structure
		CO2	comprehend the issue of scarcity and options.
		CO3	understand the Market Structure
	124(A): Business Mathematics & Statistics-II	CO1	The student will understand the concept of matrices and determinants.
		CO2	The student will Develop Graphical method
		CO3	Understanding the use of a Graphical approach
		CO4	Student will know different types Index numbers
	125A-Organization Skill Development-II	CO1	Inculcate the virtues of a good manager, and acquire the required abilities.

		CO2	Understand current communication trends
		CO3	Draft, and present an effective formal corporate report.
	125B-Banking and Finance- II	CO1	Use student workers' abilities in the banking industry
		CO2	Describe the new ideas that the banking system has adopted.
		CO3	Implement technology's role and applications in banking
		CO4	Know Banking Business and practices.
	126B- Insurance & Transport-II	CO1	Know the Concepts of Insurance and Transportation
		CO2	Know the Insurance Business
		CO3	Know about Transportation
	126C-Marketing and Salesmanship -II	CO1	The students will benefit from understanding rural marketing's features.
		CO2	The students will benefit from understanding current developments in the marketing industry.
SYBCOM SEM-III	231-Business Communication-I	CO1	Understanding of basic knowledge of Business Communication
		CO2	Understand the concept, process and importance of business communication.
		CO3	Develop and improve the communications skills needed for commercial conversation.

		CO4	Understanding the importance and basis of business letters
	232-Corporate Accounting	PO1	Introduce the learner to numerous concepts, objectives, and the use of several significant accounting rules.
		PO2	Create a company's final accounts in accordance with Schedule III of the 2013 Companies Act.
		PO3	empower with the ability to clearly and succinctly analyse financial statements for efficient decision-making.
	233- BUSINESS ECONOMICS (MACRO)	CO1	knowledge of business economics.
		CO2	Will know various concepts of national income
		CO3	Will understand Says law of employmen
		CO4	Will know the effect of multipli er and accelera tion in the economy.
	234 - Business Management - I	CO1	understand macroeconomic concepts
		CO2	relationship amongst broad aggregates
		CO3	Developed decision making skills to evaluate various alternatives and Situations.
		CO4	Understand the tools and techniques in Management
	235-Elements of Company Law- I	CO1	develop a general understanding of company law among the students.

		CO2	Observe the provisions of the 2013 Companies Act.
		CO3	Develop the students' abilities to pursue careers in the business world.
	236E-Cost and Works Accounting	CO4	Recognize the fundamental ideas behind cost.
		PO2	Recognize cost components and be able to create a cost sheet.
		PO3	Use cost and inventory control approaches.
	236(G)-Business Entrepreneurship (Special Paper-I)	CO1	familiarise yourself with the fundamentals of marketing management.
		CO2	Understand the relationship between consumer behaviour and marketing strategy.
		CO3	By developing their skills, they may put their marketing expertise to use.
	236H - Marketing Management	CO1	Apply the knowledge of marketing in practice by developing their abilities.
		CO2	Understand the relationship between consumer behaviour and marketing strategy.
CO3		To provide the students the opportunity to explore how the external environment affects the firm's decision-making.	
SYBCOM SEM-IV	241-Business Communication- II	CO1	Write formal mails and blogs
		CO2	know the basics of writing reports, internal correspondence, and import-export correspondence

		CO3	Develop business communication skills
	242-Corporate Accounting-II	CO1	Understand and use holding company accounts
		CO2	Develop a conceptual knowledge of accounting for company liquidation and absorption.
		CO3	understand the implications of forensic accounting
		CO4	Develop the skills regarding retaining the motivational level
	243-BUSINESS ECONOMICS (MACRO)-II	CO1	Will understand phases of the trade cycle
		CO2	Will understand public revenue and public expenditure concept
		CO3	Students will understand concepts and theories of money.
		CO4	Will understand the concept of stagflation
	244 - Business Management-II	CO1	Develop the ability to maintain a level of motivation.
		CO2	Understand different points of view on organizational issues.
		CO3	being aware of the significance of CSR and business citizenship
	245-Elements of Company Law- I	CO1	Learn about CSR and key managerial personnel.
		CO2	Learn about e-governance and e-filing under the 2013 Companies Act.

		CO3	outfit themselves as effective corporate human resources.
	246E-Cost and Works Accounting II	CO1	Learn how to compute the issuing price of material and the forms that are used in stores.
		CO2	Understand the idea of payroll
		CO3	Understand the most recent developments in cost accounting.
		CO4	Understanding the process of job analysis,
	246G-BUSINESS ENTREPRENEURSHIP	CO1	Students will identify the opportunities of entrepreneurship in the present market
		CO2	Understanding the basics difference in Individual Entrepreneur
		CO3	Students will be able to study and investigate the entrepreneur
		CO4	Understand professionals working in E-Marketing.
	246H-Marketing Management	CO1	Recognize those in the field of electronic marketing.
		CO2	learn about important strategic marketing tactics.
		CO3	Understand competitive advantage in the marketplace
	TYBCOM SEM-V	351-Business Regulatory Framework-I	CO1

		CO2	Improve the students' understanding of how these regulations impact business, trade, and commerce.
		CO3	Understand how to use negotiating skills in day-to-day situations
	352-Advance Accounting – I	CO1	understanding of capital restructuring accounting
		CO2	Developing knowledge about Investment Accounting
		CO3	Knowledge about of the Accounting for Capital Restructuring
		CO4	Conceptual clarity and practical knowledge of banking businesses' final account preparation
	353-Indian & Global Economic Development-I	CO1	Students should be able to comprehend the current Indian and global economic scenarios.
		CO2	The numerous facets of India's development in the agricultural, industrial, and service sectors will be clear to students.
		CO3	Students will be able to assess India's place in the global economy critically.
		CO4	Students will be able to assess how international financial institutions and organization's function.
	354-Auditing & Taxation-I	CO1	Understand the basic ideas and guidelines of auditing.
		CO2	Develop your audit report preparation skills.
		CO3	Know the fundamental ideas behind the Income Tax Act of 1961.

		CO4	Learn how to calculate income and the assessment process.
	355E-Cost and Works Accounting. Special Paper II	CO1	must keep in mind and comprehend the idea of overhead and the different types of overheads
		CO2	understanding the importance of overheads in the overall cost of a good or service.
		CO3	understanding of how to discover overheads for certain actions
		CO4	Understanding of the steps involved in the accounting process for overheads
	255G-Business Entrepreneurship (Special Paper II)	CO1	Receiving information that is applicable to the creation of MSME
		CO2	Students will be able to write project reports and business plans.
		CO3	Understanding the functions and strategies of diverse institutions in project support
	355H-Marketing Management-II	CO1	Knowing how to implement interfirm comparison
		CO2	Understand the implementation of modern costing
		CO3	Develop knowledgeable about creating different types of budgets.
	356E-Cost and Work Accounting - III	CO1	Knowing how to implement interfirm comparison
		CO2	Understand the implementation of modern costing

		CO3	Develop knowledgeable about creating different types of budgets.
	356G-Business Entrepreneurship-III	CO1	ability to comprehend one's own business plan.
		CO2	understand the concept of group and group dynamics for Entrepreneurship
		CO3	dynamics for Entrepreneurship
	356H-Marketing Management-III	CO1	The idea of advertising and advertising medium will be known by the student
		CO2	It will help the students to apply the various Economic and social aspects of advertising.
		CO3	The student will understand the Ethics of Advertising
TYBCOM SEM-VI	361 - Business Regulatory Framework	CO1	Know the procedure to deal with complaints & reliefs available to the consumer
		CO2	Develop awareness among the students regarding these laws affecting business, trade and commerce.
		CO3	To inform students of the legal framework for consumer protection and the formalities involved in resolving consumer complaints.
	362-ADVANCED ACCOUNTING – II	CO1	Practical knowledge of cooperative society final accounting preparation.

		CO2	Student's ability to analyze information and make decisions will be improved.
		CO3	Understanding of the branches' accounting
	363- Indian & Global Economic Development	CO1	Students will know development concepts.
		CO2	Will understand the concepts of Foreign Capital
		CO3	Will understand the International Financial Institutions.
	364 - Auditing & Taxation - II	CO1	Understanding of sources of income
		CO2	Understand The Income Tax Act, 1961.
		CO3	To understand the calculation of total income
		CO4	Acquaint with knowledge of the Tax
	365E - Cost and Works Accounting (Special Paper II)	CO1	Understand the basic methods of costing.
		CO2	The student will be able to prepare Process Account
		CO3	Development of knowledge about cost sheets in service Industries.
	365G-Business Entrepreneurship (Special Paper II)	CO1	Understanding the concept Importance Business
		CO2	Various MSME management strategies

		CO3	Understanding the role and Functioning of the Startup India Scheme
		CO4	Students will be able to understand various parts of Business.
	366E-Cost and Works Accounting Special Paper III	CO1	Develop knowledge in relation to pricing strategies
		CO2	Understand the fundamentals of Cost Accounting Standards and current
		CO3	understanding of cost records and cost audit reports conceptually.
		CO4	Understand the recent trends in cost accounting.
	366G-Business Entrepreneurship (Special Paper-III)	CO1	To develop Problem Solving Skills, Team work
		CO2	to comprehend the major stresses, stress and conflict, different types of business
		CO3	To practically experience and study the digital marketing
	366H-Marketing Management-III	CO1	Students will understand various Creative Advertisements
		CO2	Students will comprehend how advertisements are changing.
		CO3	Students will understand the marketing control technique.
		CO4	Students will understand the problems with service marketing.

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Program Specific Outcomes

Program - Bachelor of Science (B.Sc.): Program Specific Outcomes

DEPARTMENT OF BOTANY

PSO NO.

Program Specific Outcomes

After successful completion of this program, a student will be able to,

PSO-1

Plants are Identify on the basis of taxonomic characters.

PSO-2

Knowledge gained through theoretical and lab-based experiments will generate technical personnel in various priority area such as, plants systematics and biotechnology, cells and molecular biology, genetics etc.

PSO-3

Identify plant diseases on the basis of their symptoms and control measures.

PSO-4

To develop laboratory skills and able to water, soil, and different physiological experiments.

PSO -5

Develop research-oriented skills.

PSO-6

Make aware and handle the sophisticated instruments/ equipment's.

Course Outcomes

Program - Bachelor of Science (BOTANY)

Title of Course	CO. No.	Course Outcomes
FYB.SC - SEM I		
After completion of this Course, students will gain Knowledge of,		
BO-111 PLANT LIFE AND UTILIZATION I	CO-1	Classification, general characters, and economic importance of algae, fungi and bryophytes.
	CO-2	To gain knowledge about life cycles of algae, fungi, bryophyte.
	CO-3	Understand the biodiversity of algae, fungi, and lichens.
BO-112 PLANT MORPHOLOGY AND ANATOMY	CO-1	Understand of scope and importance of morphology and anatomy.
	CO-2	Know various types of tissue systems.
	CO-3	Primary structure of –dicot root, stem, leaf. Monocot root, stem, leaf.
BO-113: PRACTICAL BASED ON BO111 AND BO 112	CO-1	Prepare and demonstrate temporary and permanent slides
	CO-2	Prepare and utilizations of different stains, medium etc
	CO-3	Compare morphology and anatomical structure among lower cryptogams

	CO-4	Distinguish different Life cycle if lower plants
	CO-5	Evaluate the economic importance of lower plants
FYBSC SEM II		
BO-121 PLANT LIFE AND UTILIZATION II	CO-1	Classification, general characters and economic importance of pteridophytes, angiosperms, and gymnosperms.
	CO-2	Student can make micro preparation of the material of pteridophytes, gymnosperm and angiosperm are identify them anatomoically.
	CO-3	To gain knowledge about life cycles of gymnosperm and angiosperm plants.
BO-122 PRINCIPLES OF PLANT SCIENCE	CO-1	Know importance and scope of plant physiology and understand the plants and plant cells in relation to water.
	CO-2	Gain knowledge about “Cell Science”, and describe the evolution, diversity and replication of cells;
	CO-3	Learn the scope and importance of molecular biology, Understand the biochemical nature of nucleic acids, their role in living systems, and experimental evidence to prove DNA as genetic material.
BO-123: PRACTICAL BASED ON BO121 AND BO 122	CO-1	Describe the morphological, reproductive characteristics, and taxonomy of higher plants.
	CO-2	Discuss and compare the internal organization of plants
	CO-3	Understand categories and explain the utilization of higher plant

	CO-4	Preparation and utilization of different stains, mediums etc.
	CO-5	Estimation of different biomolecules
S.Y. B.SC. SEMI		
BO 231- TAXONOMY OF ANGIOSPERM AND PLANT ECOLOGY	CO-1	Understand the diversity of angiosperms, comparative account among the families of angiosperms and know the economic importance of the angiosperm plants.
	CO-2	Study the various system of Classification and merits and Demerits.
	CO-3	Learn about biodiversity and different types of vegetation.
BO 232- PLANT PHYSIOLOGY	CO-1	Learn and understand about mineral nutrition in plants, growth and developmental processes in plants.
	CO-2	Know about movement in plants, process of translocation of solutes in plants.
	CO-3	Know the nitrogen metabolism and its importance.
BO-233: PRACTICAL BASED ON BO231 AND BO 232	CO-1	Memorize, recognize and explain different plant terminology
	CO-2	Demonstrate and distinguish and categorize different plant families
	CO-3	Compare and differentiate different Ecological grouping of plants
	CO-4	Sampling, testing and structuring of vegetation in a different group
	CO-5	Demonstrated different experiments of plant physiology and Ecology

S.Y. B.SC. SEMII

BO 241- PLANT ANATOMY AND EMBRYOLOGY	CO-1	Understand the scope & importance of Anatomy and Embryology.
	CO-2	Know various tissue systems, Understand the normal and anomalous secondary growth in plants and their causes. Perform the techniques in anatomy,
	CO-3	Understand structure and development in microsporangium and megasporangium. Understand microsporogenesis and megasporogenesis.
	CO-4	Understand male and female gametophytes, Know fertilization, endosperm and embryogeny.
BO 242- PLANT BIOTECHNOLOGY	CO-1	Understand the fundamentals of totipotency plant tissue culture techniques.
	CO-2	Know the transgenic technology for the improvement of quality and quantity of plant and thereby product.
	CO-3	Understand the advantages of in vitro propagation in various areas.
BO-243: PRACTICAL BASED ON BO241 AND BO242	CO-1	Classify, distinguish and categories different tissues systems in plants
	CO-2	Compare and explain different types of plant growth
	CO-3	Demonstrate of biotechnology techniques and anatomy
	CO-4	Examine and experiment related to biotechnology
	CO-5	discuss, describe and differentiate in embryogeny

BO 3510 MEDICINAL BOTANY	CO-1	Understand history, Scope and Importance of Medicinal Plants & indigenous Medicinal Sciences.
	CO-2	Describe the common medicinal plants in the neighbourhood for therapeutical use.
	CO-3	Demonstrate Morphological & Anatomical Characters of medicinally plants, discuss plants used in Ayurvedic preparations
	CO-4	Know various common plants, plant products, drugs and their chemical compounds and medicinal uses.
BO 3511 PLANT DIVERSITY AND HUMAN HEALTH	CO-1	Explain about the rare, endangered, endemic species and their biodiversity. Create awareness about the plants& their Biodiversity.
	CO-2	Explain about Environmental Impact Assessment (EIA), Geographical Information using additional resources available in the internet using modern ICT tools.
	CO-3	Realize ecological importance of plants and discuss the role of plants in relation to Human Welfare
T.Y. B.SC. SEMI		
BO 361 PLANT PHYSIOLOGY	CO-1	Understand plant structures in the context of physiological functions of plants.
	CO-2	They will learn about the growth and development of plants and its regulations.
	CO-3	Understand the physiological details of photosynthesis and respiration.
BO 362 BIOCHEMISTRY	CO-1	Understand the current status of Biochemistry.

	CO-2	Recognize the impact of Biochemistry on socioeconomic aspects of life, Realize the industrial application of Biochemistry.
	CO-3	Understand the importance of Bio-molecule, Understand the protein - structure and classification and protein biosynthesis in prokaryotes and eukaryotes.
	CO-4	They will learn about the nucleic acid metabolism.
BO 363 PLANT PATHOLOGY	CO-1	Know the terminologies in plant pathology.
	CO-2	Understand the scope and importance of Plant Pathology.
	CO-3	Know the prevention and control measures of plant diseases and its effect on economy of crops.
BO 364 EVOLUTION AND POPULATION GENETICS	CO-1	Know about the Genetic Engineering.
	CO-2	Understand the principle and basic protocols for Plant Tissue Culture.
	CO-3	The concept of operon and its structure and regulation
BO 365 ADVANCED PLANT BIOTECHNOLOGY	CO-1	Understand the fundamentals of totipotency plant tissue culture techniques.
	CO-2	Know the transgenic technology for the improvement of quality and quantity of plant and thereby product.
	CO-3	Understand the advantages of in vitro propagation in various areas
	CO-1	Understand the science of plant breeding.

BO 366 PLANT BREEDING AND SEED TECHNOLOGY	CO-2	To introduce the student with branch of plant breeding for the survival of human being from starvation.
	CO-3	To study the techniques of production of new superior crop varieties.
BO 367 PRACTICAL BASED ON BO361 AND BO363	CO-1	Measurement of water quality based on –hardness, Dissolved oxygen, free CO ₂ , Chloride, Total alkalinity.
	CO-2	Determine the DPD by using the potato tuber
	CO-3	Osmosis by curling experiment, Imbibition pressure, Thistle funnel, Ringing experiment,
	CO-4	Isolation and estimation of lipids from oil seeds by using Soxhlet apparatus.
	CO-5	To study the lipase activity by using germinating oily seeds.
BO 368 PRACTICAL BASED ON BO363 AND BO364	CO-1	Preparation of culture media for isolation of pathogen.
	CO-2	Isolation of pathogen by various culture technique.
	CO-3	Study of various diseases.
	CO-4	Solving the problem of allele frequency and genotype frequency.
BO 369 PRACTICAL BASED ON BO365 AND BO366	CO-1	Preparation of stock solutions of MS medium and plant growth regulator stocks.
	CO-2	Study of the development of microsporangium,
	CO-3	Microsporogenesis microspores, male gametophyte of angiosperms.

	CO-4	Study of endosperms types, Study of pollen development, tetrad types, pollen units: monad, dyad, tetrad, polyad, pollinia.
	CO-5	Study of various seed germination methods-paper, sand, soil.
BO 3610 NURSERY AND GARDENING MANAGEMENT	CO-1	To know the concept of garden, to study the special types of gardens.
	CO-2	To study different features of garden.
	CO-3	To study the different ornamental garden plants.
	CO-4	To understand technique of pot culture, Bonsai, Topiary & Lawn.
BO 3611 BIOFERTILIZERS	CO-1	The use of biofertilizers is being emphasized along with chemical fertilizers and organic manures.
	CO-2	Biofertilizers are live products (or latent cells of microbes) and require care in storage, transport, application and maintaining field conditions.
	CO-3	Ability to distinguish the types of biofertilizers.
	CO-4	Development of integrated management for best results uses both nitrogenous and phosphatic biofertilizers.

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Program Specific Outcome

Program - Bachelor of Science (Mathematics) : Program Specific Outcomes

**PSO
No.**

Program Specific Outcomes

After successful completion of this program, a student will be able to,

PSO-1	Student will be able to explain the core ideas and the techniques of mathematics at the college level.
PSO-2	Student will be able to work independently, and to collaborate effectively in team work and team building.
PSO-3	Student will be able to conduct self- evaluation, and continuously enrich themselves through life long learning.
PSO-4	Student will be to demonstrate systematic knowledge of learning processes and a professional attitude in classroom teaching of mathematics and IT.
PSO-5	Student will be able to carry out objectives analysis and prediction of quantitative information with independent judgment.

Course Outcomes		
Program - Bachelor of Science (Mathematics) : Program-Specific Outcomes		
Title of Course	CO. No.	Course Outcomes
FYBSC SEM-I		
MT-111: Algebra	CO-1	Find the GCD of two integers and explain the linear combination are two integers.
	CO-2	Define the set's relation and function. Of equivalent classes and partitions of a set.
	CO-3	Justify the mathematical induction well-ordering principles.
	CO-4	Prove or disprove the statement in the divisibility theory. congruence of the theory.
	CO-5	Solve the roots of complex numbers and prove the n^{th} roots of unity.
MT-112 Calculus-I	CO-1	Describe the algebraic properties of \mathbb{R} , then order of properties of \mathbb{R}
	CO-2	Solve the arithmetic mean-geometric mean inequality, prove the Bernoulli's inequality.
	CO-3	Define the Monotone sequence. And solve the examples of Monotone sequence.
	CO-4	Understand the concept of sequence and give and properties of sequence.
	CO-5	Definition of bounded sequence, prove that every convergent sequence is bounded.
MT-113: Mathematics	CO-1	To take the knowledge of mathematics in real life.

practices (In MT-111 and 112)	CO-2	Describe the to find the graphs, and explain the using maxima software.
	CO-3	Decide the existence of uniqueness of limits and continuous of a function in one variable.
	CO-4	To gain the confidence in solving mathematical problem.
	CO-5	Give the different types of sequence and relation of real numbers.
FYBSC SEM-II		
MT-121: Analytical Geometry	CO-1	Tell the difference between three-dimensional shape and two dimensional shape
	CO-2	Understand concept of plane section and explain its properties
	CO-3	Reduce the general equation of plane section of into standard form
	CO-4	Find the equation of tangent plane using the hypothesis.
	CO-5	Explain the direction cosine and direction ratios, equation of plane
MT-122: Calculus II	CO-1	Find the derivative of a function at point, and every differentiable function is continuous.
	CO-2	State and prove mean value theorem. By using the consequence.
	CO-3	Apply L' Hospitals rule to find the Lagrange's in determinant form.
	CO-4	Use the appropriate method of find an integrating factors of first order diff.equation.

	CO-5	Explain the method of solving ordinary differential equation
MT-123: Mathematics Practicals (IN MT 121 & 122 Practical)	CO-1	TO take the knowledge of mathematics in real life.
	CO-2	Described the to find the graphs and explain the using maxima software.
	CO-3	Decide the existence of uniqueness of limit and continuous of a function in one variable.
	CO-4	To gain the confidence in solving mathematical problem.
	CO-5	Find the solution of first order differential equation.to draw the graphs and to create the syntax in maxima software
SYBSC SEM- III		
MT-231: Calculus of Several Variables	CO-1	Solve the Extreme value of function of two variables.
	CO-2	Apply the multivariable calculus and optimization techniques problem.
	CO-3	Apply the numerical method in real life.
	CO-4	Evaluate a definite double integral by using the numerical method.
	CO-5	Solve the Clairaut's method of partial differentiable equation
MT-232 (B) Graph Theory)	CO-1	What is the graphs and explain the application of graphs.
	CO-2	Learn about the walks,paths,and circuits.

	CO-3	Solve the cut-set and by using the some properties of a Cut-Set.
	CO-4	Define the directed graphs and explain the basic properties of directed graphs.
	CO-5	Explain the Connectedness and components and basic properties of directed graphs.
MT-233: Mathematics practical (Practicals based on MT-231 and 232)	CO-1	Described the method and use the formula to solve the problem.
	CO-2	Gain the confidence in solving problems.
	CO-3	To take the knowledge of mathematics in real life.
	CO-4	Compare the solution of a problems obtained by different method.
	CO-5	Write the syntax to get the solution by using the maxima software.
SYBSC SEM-IV		
MT-241: Linear Algebra	CO-1	Understand the concept of basis vectors spaces, subspaces, and their properties.
	CO-2	Compare the different method of solving non-homogeneous system of linear equations.
	CO-3	Relate matrices and non-linear transformation.
	CO-4	Described the definition and example of linear transformations and give some properties, Equality.
	CO-5	Explain the consistency of homogeneous and non-homogeneous system of linear equations by using rank, conditions.

MT-242-(A) Vectors Calculus	CO-1	Determine the apply the importance of associated with vectors field.
	CO-2	Evaluate the surface integral of scalar fields.
	CO-3	Use the Divergence theorem to evaluate line integrals along smile closed contous on the plane and stoke's theorem to compute line integrals along the boundary value problems.
	CO-4	Learn properties of inner product spaces and determine orthogonality in inner product spaces.
	CO-5	Compute the curl and the divergence of vector field.
MT- 243: Mathematics Practical (practical based on MT-241 And MT-242)	CO-1	Described the method and use the formula to solve the problems.
	CO-2	To take the knowledge of mathematics in real life.
	CO-3	Gain the confidence in solving problems.
	CO-4	Compare the solution of a problems obtained by different method.
	CO-5	Write then syntax to get the solution by using the maxima software.
TYBSC Sem-V		
MT-351 Metrics Space	CO-1.	Identify three properties of a metric or distance
	CO-2.	define the basic terms and concepts in metric space topology
	CO- 3.	Classify and explain open and closed sets, adherent points, convergent and Cauchy convergent sequences etc.

	CO-4	Prove logically theorems in metric space topology using the definition of basic term and properties of metric spaces.
MT-352 Real Analysis	CO-1.	Define the real Numbers, least upper bounds and triangle inequality.
	CO-2.	Calculate the limit superior, limit inferior, and the limit of a sequence.
	CO-3	Recognize alternating, convergent, divergent, bounded, cauchy and monotone sequences.
	CO-4	Apply Ratio test, root test, limit and limit comparison test.
MT-353: Group Theory	CO-1	Define groups, Subgroup, Normal subgroups
	CO-2.	Define order of a group and order of an element.
	CO- 3	Verify group properties in particular examples.
	CO-4.	Understand and use the concept of homomorphism and isomorphism.
MT-354 Ordinary Differential Equations	CO-1.	Distinguish between linear, nonlinear, partial and ordinary Differential Equations.
	CO-2.	State the basic existence theorem for 1st order ODE'S
	CO-3	Recognize and solve a variable Separable differential equation
	CO-4. .	Recognize and solve a homogeneous differential equation.

	CO-5	Recognize and solve an exact differential equation.
	CO-6	Find the particular solutions to initial value problems.
MT-355(A) Operations Research	CO-1.	Understand the meaning of Operations Research and how to use it. How to write linear program in the event of minimum cost or maximum profit
	CO-2.	linear program resolved in a manner graph
	CO- 3	linear program resolved in a simplex way.
	CO-4	Method of writing and resolving the issue of transport.
	CO-5	The Assignment problems, and method to solve.
MT-356(B) Number Theory	CO-1.	Find quotients and remainders from integer division.
	CO-2	Apply Euclid's Algorithm and backwards substitution
	CO- 3.	Students are able to solve system of Linear Congruences.
	CO-4	Solve the Quadratic residues equation and by using the solving the Jacobi's method.
MT-357 Practical Course Lab-I (MT- 351 and 352)	CO-1	Definition and example of metric space.
	CO-2	Open and closed set-in metric space.
	CO-3	Solve the convergent and divergent sequence of real numbers

	CO-4	Explain the monotone sequences and Algebra of convergent sequence.
	CO-5	Explain the limit superior, inferior and Cauchy sequence.
MT- 358 Practical Lab- II (MT 353 and 354)	CO- 1	Explain the Isomorphic Binary structures of a group.
	CO-2	Alternating groups, cosets and the theorem of lagrange.
	CO-3	Described the direct product of homomorphism.
	CO-4	Compare the solution of a problems obtained by different method.
	CO-5	Solve the factors group, of factors group computation and simple groups
MT-359 Practical Lab-III (MT- 355(A) and 356 (B)	CO-1	Solve the modelling with linear programming.
	CO-2	To take the knowledge of mathematics in real life.
	CO-3	Compare the solution of a problems obtained by different method.
	CO-4	Explain linear Diophantine Equations, Pythagorean triplets.
	CO-5	Described the method and use the formula to solve the problem.
MT-3510: Programming in python-I	CO-1	The student will be the able to explain basic principle of pythone programming language.
	CO-2	The student will implement object-oriented concepts.

	CO-3	To learn how to use lists, tuples, and dictionaries in python programs.
	CO-4	To understand why python is a useful scripting language for developers.
MT-3511: LaTeX for Scientific Writing	CO-1	Write a simple LaTeX input document based on the article class.
	CO-2	Turn the input document into pdf with the pdflatex program.
	CO-3	Format words, lines, and paragraphs.
	CO-4	Understand how to present data using tables.
TYBSC Sem-IV		
MT-361: Complex Analysis	CO-1	Write a complex number in Cartesian form of real imaginary parts.
	CO-2.	Write a complex number in polar form (modulus and argument) using the Euler's Equations
		arguments) using the Euler's Equation.
	CO-3.	Find the powers and the roots of a complex number
	CO-4.	Use the Cauchy-Riemann Equations to determine
	CO-5	Evaluate exponential, trigonometric, and hyperbolic functions of a complex number Be able to prove and apply properties involving these functions.

MT- 362 : Real Analysis	CO-1	Describe the fundamental properties of the real numbers that lead to the formal development of real analysis.
	CO-2	Comprehend rigorous arguments developing the theory
	CO-3.	Demonstrate an understanding of limits and how they are used
MT-363: Ring Theory	CO-1.	Demonstrate knowledge of the syllabus material.
	CO-2.	Write precise and accurate mathematical definitions of objects in ring theory.
	CO-3.	Validate and critically assess a mathematical proof
	CO-4.	Use mathematical definitions to identify and construct examples.
MT- 364: Partial Differential Equation	CO-1	Use the existence theorem for boundary value problems to determine the uniqueness of solutions.
	CO-2.	Use the Wronskian to determine if a set of functions is linearly independent.
	CO-3	Solve a Cauchy -Euler Equation
	CO-4.	Identify Ordinary and Singular Points
	CO-5.	Solve basic application problems described by second order
MT-365 (A) Optimization Techniques	CO-1.	Discovery, study and solve optimization Problems.
	CO-2.	Feasibility study for solving an optimization problem

	CO-3.	Understand Optimization techniques using algorithms
	CO-4.	Evaluate and measure the performance of an algorithm
	CO-5.	Investigate, study, develop, organize and promote innovative solutions for various applications.
MT-366 (B) Computational Geometry	CO-1.	Student will get acquaint with the typical problems of computational Geometry.
	CO-2	Student will get deeper knowledge of mathematics.
	CO-3.	Student will understand the existing solutions and their applications in computer graphics and machine vision.
	CO-4.	CO-4. Student will learn the principles of Geometric algebra including its application in Graphics and vision related tasks.
	CO-5	CO-5. Student will practice programming, problem solving and defence of a small project.
MT-367: Practical Course Lab-I (MT- 361 and MT-362)	CO-1	Gain the confidence in solving problems.
	CO-2	To take the knowledge of mathematics in real life
	CO-3	Definition and Existence of Riemann integral
	CO-4	Described properties of Riemann integral and application
MT-368 : Practical Course Lab-II (MT- 363 and 364)	CO-1	Simultaneous differential Equation of the first order and the first degree in three variables.
	CO-2	Gain the confidence in solving the problems.

	CO-3	To take the knowledge of mathematics in real life.
	CO-4	Prove or these prove Euclidean domain and Gaussian integer.
MT-369 Practical Course Lab- III (MT-365 (A)and 366(B)	CO-1	Solve the classical Optimization theory.
	CO-2	Learn about the to get result by using the network models and game theory.
	CO-3	Described the method and/or formula to solve the problem.
	CO-4	Gain the confidence in solving the problems.
MT-3610 : Programming In Python-II	CO-1	To develop the ability to write database application in python.
	CO-2	Demonstrate the use of python in mathematics such as operation research and computational geometry etc.
	CO-3	Study graphics and design and implement a program to solve a real-world problem.
	CO-4	The student will implement the concept of data with python and database.
	CO-1	Import figures and pictures that are stored in external files.
MT-3611 : Mathematics into LaTeX	CO-2	Commands and Environment for Inserting figures,
	CO-3	Typeset mathematical formulas,use nested list,tabular and array environments.
	CO-4	The purpose of this course is to acquaint student with typesetting basic mathematics in LaTeX.

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Program Specific Outcome

Program - Bachelor of Science (ZOOLOGY): Program-Specific Outcomes

PSO No.	Program Specific Outcomes
After successful completion of this program, a student will be able to,	
PSO-1	Going to utilize Advance Technology to Differentiate Animal Physiology at Different Levels
PSO-2	Observe, create, and spread awareness of the ethics in zoology and research.
PSO-3	Share knowledge and make a contribution to national development and environmental preservation.
PSO-4	Understand how to use various biological applications for the development of oneself and society.
PSO-5	Through theory, exercises, and field trips, students will be able to appreciate, evaluate, and compare many features of zoology at various levels and how it interacts with the natural world.

Course Outcomes		
Program - Bachelor of Science (ZOOLOGY)		
Title of Course	CO. No.	Course Outcomes
FYBSC		
ZO111 - Animal Diversity – I	CO-1	The student will be able to understand classify the diversity of animals.
	CO-2	The student understands the importance of classification of animals.
	CO-3	Recall useful & Harmful organisms.
	CO-4	Identify animals based on their general characteristics
ZO112 - Animal Ecology	CO-1	Classify animal diversity
	CO-2	To understand anticipate, analyse and evaluate natural resource issues and act on a lifestyle that conserves nature.
	CO-3	The Learner understands and appreciates the diversity of ecosystems and applies beyond the syllabi to understand the local lifestyle and problems of the community
	CO-4	The learner will be able to link the intricacies of food chains, food webs and link it with human life for its betterment and for non-exploitation of the biotic and abiotic components.
ZO113-Zoology Practical Paper	CO-1	Prepare the Paramecium culture.
	CO-2	Examine microscopic fauna of freshwater ecosystem

	CO-3	Calculate soil quality and several hydrobiological parameters
	CO-4	Using morphological characteristics and a taxonomy identification key, define diverse animals belonging to various phyla.
ZO121-Animal Diversity –II	CO-1	Identify organisms of Phylum- Aschelminthes, Annelida, Arthropoda, Mollusca and Echinodermata as per taxonomy.
	CO-2	Measure their role towards nature as conserver and promoter of life at various levels
	CO-3	Define the Economic & health related role of class Nematoda
	CO-4	Plan to make most use of earthworms for improving quality & quantity of crops in farms
	CO-5	Distinguish differences and similarities in the various aspects of classification.
ZO122- Cell biology	CO-1	The learner will understand the importance of cell as a structural and functional unit of life.
	CO-2	The learner 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 depend on endo-membranes and structures. They are best studied with microscopy.
	CO-4	Summarize the details about Cell division & Cell Cycle
	CO-5	Understand the basic structures & functions of cell
ZO123-Practical Zoology	CO-1	Design haematological studies
	CO-2	Identify the phases of cell division CO6 Develop temporary mount of human buccal epithelial cells

	CO-3	Outline the Principle and use of microscopes and micrometry
	CO-4	Make use of economically important Honey bees, Lac insects Silk worms, Earthworms, Bivalves, Sea Star
	CO-5	Develop temporary mount of human buccal epithelial cells
S.Y.B.Sc.		
ZO231-Animal Diversity III	CO-1	The students will be able to understand, classify and identify the diversity of higher vertebrates.
	CO-2	The students will able to understand the complexity of higher vertebrates
	CO-3	The students will be able to understand different life functions of higher vertebrates.
	CO-4	The students will be able to understand the linkage among different groups of higher vertebrates.
	CO-5	The student will become aware regarding his role and responsibility towards nature as a protector, to understand his role as a trustee and conservator of life which he has achieved by learning, observing and understanding life
ZO232-Applied Zoology I	CO-1	Distinguish different species of silk worms
	CO-2	Identify different types of agricultural, stored grains, veterinary pests, Non insect pests damages due to them and their control
	CO-3	Understand the basics of life cycle of the silk worms, required tools & equipments for management of sericulture
	CO-4	Know the process of cultivation, rearing and management mulberry plants
ZO233-Zoology Practical Paper	CO-1	Able to make temporary mountings

	CO-2	List out different types of insect and non-insect pests by morphological identification marks, nature of damage, economic importance and control measures
	CO-3	Develop operational skill of pest control appliances
	CO-4	Examine External characters, types of scales, tail fins, brain & digestive system of locally available fishes
	CO-5	Identify Balanoglossus, Herdmania, Petromyzon, Pisces: Labeo, Scoliodon, Hippocampus, Amphibia: Salamandra, Rana & Ichthyophis by morphological observations
ZO241-Animal Diversity - IV	CO-1	Identify class Reptilia by their salient features.
	CO-2	Identify egg laying, aquatic, flying Mammals along with Cursorial and fossorial adaptation
	CO-3	Distinguish different species of aves by their salient features, adaptations in beaks and feet & Migrations
	CO-4	Distinguish poisonous and non-poisonous snakes.
	CO-5	Know Snake venom, symptoms, effect and cure of snake bite, first aid treatment of snakebite
ZO242- Applied Zoology II	CO-1	Understand the basics of life cycle of the honeybees, beekeeping tools, equipment, and management of beehives.
	CO-2	Identify different species and casts of honey bees
	CO-3	Realize the value of honey bees in pollination and sustaining life due to them
	CO-4	Understand the basics of life cycle of the honeybees, beekeeping tools, equipment, and management of beehives
	CO-5	Evaluate the importance of byproducts of honey bees to human beings CO4 Recognize important & harmful pests & diseases related to apiculture

ZO243-Zoology Practical	CO-1	Identify the pests & diseases in Apiary & Fisheries.
	CO-2	Identify the pests & diseases in Apiary & Fisheries
	CO-3	Understand external and internal body of Rat
	CO-4	Distinguish between poisonous and non-poisonous snakes by taxonomical keys
	CO-5	Make use of various tools, crafts and gears used in Apiary & Fishery
T.Y.B. Sc.		
ZO 351 - Pest Management	CO-1	Define pest management.
	CO-2	Describe the economic, ecological, and sociological benefits of IPM
	CO-3	Distinguish positive and negative impacts of pesticide use.
	CO-4	Understand problems resulting from misuse, overuse, and abuse of chemical pesticides.
	CO-5	Analyse and compare management tactics to determine the best approach to reducing pest populations, weeds, and disease presence.
	CO-6	Know and how to develop an IPM program.
ZO 352 - Histology	CO-1	The students will be able to understand, classify and identify the different types of tissue.
	CO-2	The students will understand the complexity of various tissues in an organ. 3

	CO-3	The students will understand the complexity of various tissues in an organ.
	CO-4	The students will be able to learn structure & functions of various tissues.
	CO-5	The students will understand the various diseases related to organs.
ZO 353 - Biological Chemistry	CO-1	Learners shall be able to understand basic concepts and significance of biochemistry
	CO-2	The students will learn about the pH and Buffers.
	CO-3	The students will be able to understand, interpret structure and importance of proteins, carbohydrates and lipids
	CO-4	Learners will be able to comprehend variations in enzyme activity and kinetics.
ZO 354 - Genetics	CO-1	The student will gain a basic understanding on human genetics and hereditary
	CO-2	They learn about DNA, RNA and their replication, mutations, DNA repair mechanism
	CO-3	Students learn about transgenic animal, their application in pharmaceutical industry, cloning and its importance
ZO 355 - Developmental Biology	CO-1	course is to provide a comprehensive understanding of the concepts of early animal development
	CO-2	Students taking this course must develop a critical appreciation of methodologies specifically used to study the process of embryonic development in animals.
ZO 356 - Parasitology	CO-1	Student are able to conduct research through project
	CO-2	Student are able to research different animal through project

	CO-3	Able together information about him by collecting different animal
	CO-4	You will learn about the life cycle of different animal through this project
ZO357-Zoology Practical Paper - I	CO-1	Students are able to understand plant protection appliances.
	CO-2	Able to observe and understand damaged caused by pest.
	CO-3	Student is able to understand by observing permanent histological slide T.S of skin and V.S of tooth and C.S of tongue slide.
	CO-4	The student observes the blood smear and understands the different types of blood cells in it.
ZO 358 - Zoology Practical Paper - II	CO-1	Isolation of starch from potato and understanding of starch digestion by salivary amylase.
	CO-2	Student understands how to separate casein from milk by adjusting the iso-electric point?
	CO-3	Antigen and antibody observed agglutination in blood and understood about blood group
	CO-4	If the chromosome number is less or more in the chromosome, different syndromes are formed. This is understood through this practical. In this, Down syndrome, klinenefelter syndrome, Down syndrome occur. We understood this.
ZO 359 - Zoology Practical Paper - III	CO-1	The student observes and understands the ultrastructure of sperm and ovum mammals through slides.
	CO-2	Students identify and explain the types of eggs, blastula,e and gastrulae
	CO-3	Students went to different places and collected different parasites and observed and understood
	CO-4	Students observed different parasites and understood which animals benefit and which animals get hurt.

ZO 3510: Aquarium Management	CO-1	The students will be able To understand the basic of aquarium fish keeping
	CO-2	The student will be able to understand character and dimorphism of aquarium fishes.
	CO-3	The students will be able to understand types of fish food
	CO-4	The students will be able to understand fish preservation techniques.
ZO – 3511 Poultry Management	CO-1	The students will be able to understand the Poultry farming practices.
	CO-2	The students will able to understand the poultry breeding techniques.
	CO-3	The students will be able to understand poultry rearing techniques.
	CO-4	The students will be able to understand feeding requirement and food ingredients.
	CO-5	The students will be able to understand the poultry disease and their pathogens. 6. The students will be able to understand market value of poultry products.
ZO 361 - Medical & Forensic Zoology	CO-1	The students will be able to understand the basics principles of Medical and Forensic Zoology
	CO-2	The students will be able to understand the advancements in the field of Medical and Forensic Zoology.
	CO-3	The students will be able to understand modern tools, techniques and skills in forensic investigations.
	CO-4	The students will be able to describe the fundamental principles and functions of forensic science and its significance to human society.
ZO 362 - Animal Physiology	CO-1	The various physiological organ-systems and their importance to the integrative functions of the human body

	CO-2	Understand Concept of energy requirements
	CO-3	Understand Respiratory mechanism and gases transport
	CO-4	Understand formation of gametes and function of endocrine glands.
	CO-5	Eliminations of waste materials from the body
	CO-6	Develop understanding in Structure and functions of muscles
ZO 363 - Molecular Biology	CO-1	Learner shall get an insight into molecular mechanisms of various biological processes in cells and organisms
	CO-2	Learner shall get an insight into the Structure of DNA and RNA, DNA and RNA as genetic material
	CO-3	The course shall prepare learner to get insight into the Central Dogma of Molecular Biology
	CO-4	Learner shall get an insight into the DNA Damage and Repair
ZO 364 - Entomology	CO-1	Understand basic concepts in Entomology and its scope.
	CO-2	Will be able to design and implement pest controlling methods against pests.
	CO-3	Understand the concept of social organization in Insects.
	CO-4	Learn morphology and anatomy of Insects.
	CO-5	Understand the development process of Insects

ZO 365 - Techniques in Biology	CO-1	the students will be able to understand the basic molecular technique.
	CO-2	Student understand -Resolving power
	CO-3	Student understand microscope, light microscope and SEM And TEM
	CO-4	The student able to understand nucleic acid
ZO 366 - Evolutionary Biology	CO-1	After completing the course, the student should be able to Students will be able to learn most of the essential aspects of Evolutionary Biology in detail which will help them in acquiring better understanding regarding the subject.
	CO-2	Independently investigate evolutionary questions using literature and analyses of empirical data
	CO-3	Communicate the principles, theories, problems and research results associated with questions that lie within the evolutionary framework to students
	CO-4	Communicate the principles, theories, problems and research results associated with questions that lie within the evolutionary framework to students
ZO 3610 - Environmental Impact Assessment	CO-1	Analyze different types of Pollution and its impact on environment
	CO-2	Judge toxicants and Toxicity of different pollutants
	CO-3	Define Environmental Biology & and its scope
	CO-4	To understand students of environmental protection acts.
	CO-5	To provide students formework for understanding the relationship between humans and their environment.

ZO 3611 - Project	CO-1	Student are able to conduct research through project
	CO-2	Student are able to research different animal through project
	CO-3	Able together information about him by collecting different animal
	CO-4	You will learn about the life cycle of different animal through this project
ZO 367 - Zoology Practical Paper - I	CO-1	Students were able to identify and recognize different types of fingerprints through this practical
	CO-2	Students prepared slide of scale pattern of human hair and observed and understood
	CO-3	Students are able to understand about blood glucose level.
ZO 368 - Zoology Practical Paper - II	CO-1	They are able to understand DNA separated from onion.
	CO-2	Students understand information about insects and are able to understand different types of insects
	CO-3	Students are able to understand about social organization termite and honey bees
	CO-4	Students are able to understand blood clotting through practical bleeding and clotting.
ZO 369 - Zoology Practical Paper III	CO-1	Students are able to identify compound microscope and stereomicroscope with their parts and uses.
	CO-2	Students are able to analyze the image with the help of a micro meter scale under a compound microscope.
	CO-3	Students are able to understand about morphological similarities and difference between man and ape.

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Program Specific Outcome

Program - Bachelor of Science (Chemistry): Program Specific Outcomes

PSO No.	Program Specific Outcomes
After successful completion of this program, a student will be able to,	
PSO-1	Students in chemistry must be acquainted with both basic and applied chemistry concepts.
PSO-2	The curriculum of the course contains basic knowledge and more advanced skills to prepare graduate students to present their research both orally and in technical writing.
PSO-3	The course curriculum involves components that might help graduate students strengthen their critical thinking skills by employing fundamental chemical knowledge and concepts to solve problems and perform calculations.
PSO-4	Graduate students are required to use statistical testing of hypotheses to create a scientific experiment.
PSO-5	The analysis of data, the use of library search tools, the use of chemical simulation software, and associated computing tasks are all done by the students.
PSO-6	Graduate students should handle projects independently, find the right resources when they are needed, and see them through to completion.

Course Outcomes

Program - Bachelor of Science (Chemistry)

Title of Course	CO. No.	Course Outcomes
FYBSC		
After successfully completion of this course, a student will be able to		
Title of Course	CO. No.	Course Outcomes
FYBSC		
CH-101 Physical chemistry I	CO1	To physical and chemical processes, use thermodynamic principles.
	CO2	Enthalpy, Bond, Bond dissociation, and resonance energy calculations
	CO3	Kirchoff's equation: Variation of enthalpy with temperature
	CO4	The uses of the third law of thermodynamics
CH-102 Organic chemistry II	CO1	understanding the underlying ideas, guiding concepts, and most recent advancements in the field.
	CO2	motivate and improves student interest in chemistry as the primary subject.
	CO3	learn about recent and current developments in chemistry.
	CO4	laying the groundwork for future chemistry research and development.

CH-103 Chemistry Practical I	CO1	By conducting experiments in the lab, learn the value of chemical safety and lab safety.
	CO2	the parameters of thermodynamics and ideas related therefrom.
	CO3	use pH measurement methods.
	CO4	producing buffer solution preparations.
	CO5	atomic level examination of organic molecules.
	CO6	Column chromatography methods for separating mixture's components.
SYBSC	CO1	To show atomic structure, various theories and concepts were used.
	CO2	Origins of quantum theory and its requirement to understand hydrogen atom structure
	CO3	Hydrogen atom Schrodinger's equation
	CO4	Describe the methods for filling various orbitals with electrons. Pauli's exclusion rule, the Aufbau rule, and Hund's maximum multiplicity rule
	CO5	Discuss the atomic electronic configuration and odd electronic configurations.
CH-202 Analytical chemistry	CO1	calculation of mole, molar concentrations, and other concentrations in various units that are useful for solution preparation.
	CO2	relation between the empirical formula and the molecular formula.
	CO3	Type determination fundamental, characteristic testing and classifications, and response of various functional groups.

	CO4	Types of chromatography and its fundamentals
	CO5	Background concept for thin-layer
CH-203 Chemistry Practical II	CO1	Volumetric analysis is applied to inorganic estimations.
	CO2	Inorganic compound synthesis
	CO3	analysis of commercial goods
	CO4	organic compound purification. Procedures and Reaction Mechanisms for Paper and Thin - layer chromatography Chromatography
SYBSC		
CH-301 Physical and Analytical Chemistry	CO1	possess a foundational understanding of analytical and physical chemistry
	CO2	a basic understanding of chemical kinetics
	CO3	basic understanding of surface chemistry
	CO4	having a basic understanding of the Quantitative Analysis Errors
	CO5	acquire a basic understanding of volumetric analysis
CH-302 Inorganic and Organic Chemistry	CO1	have prior knowledge of basic Inorganic chemistry and Organic chemistry
	CO2	know the basic concepts to molecular orbital theory

	CO3	understand brief knowledge of Coordination Compounds
	CO4	have brief knowledge of the important class of organic compounds like aromatic hydrocarbon, alkyl and aryl halides, alcohols, phenols, and ethers.
CH-303 : Chemistry Practical - III	CO1	Study theoretical concepts via experimental.
	CO2	Analyze the experimental results using theoretical foundations.
	CO3	understand the scientific approaches of chemically identifying substances.
	CO4	perform organic and inorganic synthesis and is able to follow the progress of the chemical reaction
	CO5	work systematically with practical skill in laboratory.
CH-401 Physical and Analytical Chemistry	CO1	gain the knowledge of Phase Equilibrium
	CO2	gain the knowledge of Ideal and Real Solutions
	CO3	understand brief knowledge of Conductometry
	CO4	understand brief knowledge of Colorimetry
	CO5	have brief knowledge of Column Chromatography
CH-402: Inorganic and Organic Chemistry	CO1	gain the knowledge of isomerism in coordination complexes
	CO2	apply principles of Valence bond theory to explain bonding in coordination compound of different geometries

	CO3	apply crystal field theory to different type of complexes (Td, Oh, Sq. Pl complexes)
	CO4	understand brief knowledge of the important class of organic compounds like Aldehydes and Ketones, Carboxylic acids and their derivatives, and Amines and Diazonium Salts.
	CO5	understand the stability of different conformations of cyclohexane
CH-403: Chemistry Practical - IV	CO1	verify theoretical principles experimentally
	CO2	interpret the experimental data on the basis of theoretical principles
	CO3	understand systematic methods of identification of substance by chemical methods.
	CO4	perform organic and inorganic synthesis and is able to follow the progress of the chemical reaction
	CO5	Perform the quantitative chemical analysis of substances and able to explain principles behind it.
TYBSC		
CH-501 Physical Chemistry	CO1	Know historical of development of quantum mechanics in chemistry.
	CO2	Understanding of De Broglie hypothesis and the uncertainty principle
	CO3	Understand the idea of wave function
	CO4	Solving Schrodinger equation for 1D, 2D and 3D mode
	CO5	Applications to conjugated systems, zero-point energy and quantum tunnelling

CH-502 Analytical Chemistry	CO1	Demonstrate theoretical principles with help of practical.
	CO2	Design analytical procedure for given sample.
	CO3	Define basic terms in gravimetry, spectrophotometry, qualitative analysis and parameters in instrumental analysis
	CO4	Describe procedure for different types analyses included in the syllabus
CH-504 Inorganic Chemistry	CO1	Able to explain Charge Transfer Spectra.
	CO2	The difference between metal, semiconductor and insulator.
	CO3	Explain the electrical conductivity of metals with respect to valence electrons.
	CO4	Meaning of super conductors and their structure
	CO5	Explain MOT of Octahedral complexes with sigma bonding.
CH-505 Industrial Chemistry	CO1	Know the importance of chemical industry.
	CO2	Classify various insecticides.
	CO3	Study the nutritive aspects of food constituents.
	CO4	Study the manufacture of cement, dyes, Glass, Soap and Detergents by modern methods.
CH-507 Organic Chemistry-I	CO1	Understand kinetics, mechanism and stereochemistry of S_N1 , S_N2 and S_{Ni} reactions.

	CO2	Understand kinetics, mechanism and stereochemistry of E1, E2 and E1cb reactions.
	CO3	Compare substitution versus elimination reactions
	CO4	Explain the reactivity of polynuclear and heteronuclear aromatic hydrocarbons
	CO5	Define and classify polynuclear and heteronuclear aromatic hydrocarbons.
CH-508 Chemistry of Biomolecules	CO1	The student will be understanding of Cell types, Difference between a bacterial cell, Plant cell and animal cell.
	CO2	The student needs to know the types of lipids with examples, structure of lipids, properties of lipids
	CO3	The student will understand the structure and types of amino acids. Reactions of amino acids.
	CO4	The student knows the classes of enzymes with subclasses and examples
	CO5	Basic concepts of Endocrinology. Types of Endocrine glands and their hormones.
CH-510 (B) Polymer Chemistry	CO1	Know Basics of polymer, also to study the different types of polymers.
	CO2	Learn about Importance of sugar industry, and manufacture process of sugar.
	CO3	Understand basic requirement of fermentation process and manufacturing of ethyl alcohol by using molasses.
	CO4	Know the various pharmaceutical drugs, their application and synthesis.
	CO5	Understand the function of dyes, paints and pigments.

	CO6	Advantage of polymers.
CH-511(A) Environmental Chemistry	CO1	Student learn concept and scope of environment chemistry
	CO2	Importance and conservation of environment
	CO3	Importance of biogeochemical cycles
	CO4	Student should know water resource.
	CO5	Student should know water quality parameters.
CH-601 Physical Chemistry-II	CO1	Thermodynamic conditions of reversible cell, Explanations of reversible and irreversible electrochemical cell with suitable example.
	CO2	Nernst Equation for theoretical determination of EMF
	CO3	Explain the term crystallography and laws of crystallography
	CO4	Determination of crystal structure of NaCl by Bragg's method
	CO5	Nernst Equation for theoretical determination of EMF
CH-602 Physical Chemistry -III	CO1	Meaning of the terms-Solution, electrolytes, nonelectrolytes and colligative properties.
	CO2	Application of colligative properties to determine molecular weight of nonelectrolyte, abnormal molecular weight.
	CO3	Student learn Factors affecting on solid state reactions.

	CO4	Cohesive Energy of ionic crystals based on coulomb's law and Born Haber Cycle
	CO5	Practical significance of polymer molecular weights
CH-604 Inorganic Chemistry-II	CO1	Understand the phenomenon of catalysis, its basic principles and terminologies
	CO2	To know methods of synthesis of binary metal carbonyls
	CO3	To understand the uses of organometallic compounds in the homogenous catalysis.
	CO4	Understand the phenomenon of catalysis, its basic principles and terminologies
CH-605 Inorganic Chemistry-III	CO1	Student will learn the concept of acid base and their theories.
	CO2	They will also come to know different properties of acids and bases.
	CO3	Know the nature of solids.
	CO4	Different Zeolite Framework Types and their classification and also applications.
	CO5	Student should know Various methods of nanoparticle synthesis
CH-607 Organic Chemistry-II	CO1	Students will learn the principle of mass spectroscopy, its instrumentation and nature of mass spectrum.
	CO2	Students will be able to interpret the NMR data and they will be able to use it for determination of structure of organic compounds
	CO3	Students will understand the principle of NMR spectroscopy and will understand various terms used in NMR spectroscopy.

	CO4	They will learn types of electronic excitations.
CH-608 Organic Chemistry-III	CO1	Student Understanding retrosynthesis analysis and applications.
	CO2	Student understand Chemistry of reactive intermediates.
	CO3	Student understand natural product.
	CO4	Understand the reagent in organic synthesis.
CH-610 Chemistry of Soil and Agrochemicals	CO1	Know the different components and properties of soil.
	CO2	Identify the problematic soil and recommend method for their reclamation
	CO3	Proper understanding of chemistry of pesticides will be inculcated among the students.
	CO4	Understood the Reclamation and management of soil physical and chemical constraints.
CH-611 Analytical Chemistry-II	CO1	Identify important parameters in analytical processes or estimations.
	CO2	Explain different principles involved in the analyses using solvent extraction, basics of instrumental chromatography.
	CO3	Describe procedure for different types analyses included in the syllabus
	CO4	Design analytical procedure for given sample.
Physical Chemistry Practical	CO1	Prepare molar and normal solution of various concentrations.

	CO2	Determine specific rotations and percentage of optically active substances by polarimetrically.
	CO3	Study the energy of activation and second order reaction.
	CO4	Study the stability of complex ion and stranded free energy change and equilibrium constant by potentiometry.
	CO5	Find out the acidity, Basicity and PKa Value on pH meter.
Inorganic Chemistry Practical	CO1	Determine the gravimetric and volumetric analysis of ores and alloy.
	CO2	Prepare a various inorganic complex and determine its percentage yield.
	CO3	To separate binary mixture with removal of borate and phosphate.
	CO4	To perform the colorimetric technique experiment.
Organic Chemistry Practical	CO1	Identify the types and separate the organic binary mixtures
	CO2	Understand the synthesis and purification methods of organic compounds along with reaction monitoring using TLC.
	CO3	Determination of physical constant: Melting point, Boiling point.
	CO4	Estimation methods of organic compounds

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Program Specific Outcome

Program - Bachelor of Science (Physics): Program Specific Outcomes

PSO No.	Program Specific Outcomes
After successful completion of this program, a student will be able to,	
PSO-1	Able to work well in a variety of teams in a classroom, lab, or physics workshop
PSO-2	The ability to use computers for numerical calculation and simulation studies in physics
PSO-3	The student should be able to demonstrate the capacity for rational analysis with a contemporary and scientific perspective.
PSO-4	Using theory, applications, and field trips, learn to comprehend, analyse, and compare many facets of zoology at various levels and its relationships with the natural environment.
PSO-5	The skill to apply critical thinking and creative problem-solving techniques to all of physics' basic concepts

Course Outcomes		
Program - Bachelor of Science (PHYSICS)		
Title of Course	CO. No.	Course Outcomes
FYBSC		
PHY 111- Mechanics and Properties of Matter	CO-1	Application of Newton's laws of motion to solve various problems related to day today life.
	CO-2	Knowing the principles of elasticity and being able to use them in calculations.
	CO-3	Knowing the principles of surface tension and viscosity and being able to use them in calculations
	CO-4	Examples of surface tension in nature and its applications in our day-to-day life.
PHY112-Physics Principles and Applications	CO-1	Students learn about structure diffract atomic models' atomic spectrum and their problems.
	CO-2	Different types of chemical and physical bonds like ionic, covalent, Van der Waal's bonds. Energy levels of rotational and vibrational diatomic molecule.
	CO-3	Students will identify and compare the characteristics of electromagnetic spectrum including speed, wavelength and frequency.
	CO-4	students will learn basic principles of Laser, excitation and de-excitation process, pumping scheme, population inversion and metastable state. Characteristics, applications and different types of laser.
PHY113- Practical 1A	CO-1	Student will Understand the uses of measuring Instruments. 1. Vernier calliper 2. Micrometres Screw Gauge 3. Travelling Microscope.

	CO-2	Students will Study the Viscosity by Poiseuille's method and determined of coefficient of Viscosity.
	CO-3	Student will Understand the Jaeger's Apparatus and Study the Surface Tension.
PHY-121- Heat and Thermodynamics	CO-1	Show that you understand the magnetic field for steady currents by using the Biot-Savart and Ampere's laws.
	CO-2	Laws of thermodynamics and principles in economy will be understood by the student.
	CO-3	Students will Understand different types of thermometers
	CO-4	Understand the concept of conversion of heat into work and its converse, the Second law of thermodynamics, entropy
PHY122 - Electricity and Magnetism	CO-1	Student Study the Concept of Coulomb's law electrified and Gauss's law in electrostatics.
	CO-2	Display knowledge of how materials become magnetised.
	CO-3	Students will learn magnetic materials and its properties.
PHY-123 - (Practical) Physics Laboratory 1B	CO-1	Student Study about the temperature coefficient of Thermistor
	CO-2	Students will Understand Kirchhoff's Laws
	CO-3	Student will Study the Voltmeter, Ammeter and Multi meter (AC, DC, Ranges and least count)
SYBSC		
	CO-1	Study of de Moivre's theorem includes understanding of determination of power of given complex number.

PHY 231- Mathematical Methods in Physics	CO-2	Many times, students come across the terms like divergence, curl and gradient but they don't understand their physical significance. From this course they will learn the concepts to a depth.
	CO-3	Student learn about degree, Order, linearity and Homogeneity of Differential equation
PHY 232 (B) - Instrumentation	CO-1	History and need of Instrumentation, Components of measurement system, Standards of Measurement, errors in measurement. Importance and methods of calibration. Static and dynamic characteristics of measurements.
	CO-2	Transduction principle, types of transducers. Use of transducers in measurement of displacement, force and temperature.
	CO-3	Comparative study of Pressure scales, pressure units, concept of vacuum, Different pressure measurement systems. Types and use of diaphragms and strain gauges
	CO-4	Need and use of signal conditioning. Detailed study of construction, working and characteristics of OPAMP. Circuits indicating use of OPAMP for different applications.
PHY233 -(Practical) Physics Lab 2A	CO-1	Student will understand Thevenin's Norton's and Maximum Power Transfer Theorems.
	CO-2	Student will able to learn about De Morgan's theorem for basic gate.
	CO-3	Student will operate Knowledge of MS-EXCEL application software
PHY241 - Waves, Oscillations and Sound	CO-1	Learn how does a body oscillate without damping amplitude and what are the necessary conditions for it.
	CO-2	Student will using this concept students can get idea of expanding universe.
	CO-3	Studying sound concept, we can understand why the sound of male and female are different and the reason behind it.
PHY 242- Optics	CO-1	Student understand the concept of Deviation, Magnification, Concept for Equivalent lens and Cardinal Points

	CO-2	Construction and working of Simple Microscope, Compound Microscope, Ramsden's Eyepiece and Huygens's Eyepiece
	CO-3	Concept of Polarization, Double refraction, Construction and working of Nicol Prism
	CO-4	Interference and diffraction of light, Formation of fringes, Resolution
PHY-243 - Physics Laboratory 2B	CO-1	Utilize a variety of tools and equipment
	CO-2	Create tests to validate a theory or ascertain the value of an unknown quantity.
	CO-3	Set up experimental apparatus and conduct an experiment
	CO-4	Plot relevant graphs based on your data analysis, and draw conclusions. Analysis




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