

Name of the Programme	Course Name	Course Code	Course Outcome
BA Economics	Micro Economics	23151	<ul style="list-style-type: none"> • Students will be able to understand the behavior of different economic agents, markets, consumers and price fluctuations. • Understanding of different cost and revenue concepts will be given to students. • To understand linearity and non linearity of micro economic variables. • Knowledge of different welfare concepts and there importance into social context will be imparted into students through this course.
BA Economics	Macro Economics	23152	<ul style="list-style-type: none"> • Students will be able to understand the behavior of different economic agents, markets, consumers and price fluctuations. • Understanding of different cost and revenue concepts will be given to students. • To understand linearity and non linearity of micro economic variables. • Knowledge of different welfare concepts and there importance into social context will be imparted into students through this course. • Understanding of macro economics and its different components. • Critical analysis of study different ideological schools and their theories of macro economical development. • Understanding of saving and investment functions will be injected into their knowledge Different theories related to money will be studied by students. • Understanding different policies in macro terms.
BA Economics	Financial System sem -I	23153	<ul style="list-style-type: none"> • To understand fundamentals of modern financial system. • To understand the recent trends and developments in banking system. • To understand the role of the Reserve Bank of India in Indian financial system. • To provide the knowledge of various financial and non-financial institutions. • To provide the students the intricacies of Indian financial system for better financial decision making To understand fundamentals of modern financial system. To understand the recent trends and developments in banking system

BA Economics	Basic Concept of Research Methodology -I	23154	<ul style="list-style-type: none"> To understand fundamentals of modern financial system. To understand the recent trends and developments in banking system. To understand the role of the Reserve Bank of India in Indian financial system. To provide the knowledge of various financial and non-financial institutions. To provide the students the intricacies of Indian financial system for better financial decision making To understand fundamentals of modern financial system. To understand the recent trends and developments in banking system Demonstrate his/her understanding of sampling methods and the ability to use collection of data Identify the appropriate sample techniques for different kinds of research questions
BA Economics	Indian Economic Environment - I	11151	<ul style="list-style-type: none"> Students will be familiarized about background of Indian economic environment Ability to compare the India economic environment with international economic environment will be generated
BA Economics	Indian Economic Environment- II	11152	<ul style="list-style-type: none"> Students will be aware about the banking system. Students will get a primary introduction of different sector of Indian economy such as agri, industry and service. Awareness about digital economy will be generated
BA Economics	Micro Economics II	24151	<ul style="list-style-type: none"> To develop an understanding of basic theories of micro economics and their application. To demonstrate that the theories discussed in class will usually be applied to real-life situations. To help the students to prepare for varied competitive examinations
BA Economics	Macro Economics-II	24152	<ul style="list-style-type: none"> To familiarize students with keynesian macroeconomic theoretical framework of consumption and investment functions To introduce students to the role of money in an economy. To introduce students to the conceptual and theoretical frameworks of inflation, deflation and stagflation, Business Cycle .
BA Economics	Financial System II	24153	<ul style="list-style-type: none"> To understand the role of the Reserve Bank of India in Indian financial system. To provide the knowledge of various financial and non-financial institutions. To provide the students the intricacies of Indian financial system for better financial decision making
BA Economics	Basic Concept of Research Methodology-II	24154	<ul style="list-style-type: none"> Identify the appropriate source of data in relation to the collection of research data. Able to classify and present the collected data in the form of graph, bar diagram, chart etc

BA Economics	Economic Development & Planning -V	35153	<ul style="list-style-type: none"> To relate and recognize the concept and indicators of Economic Development. To describe and analyze the concept and indicators of Human Development. To explain the characteristics of Developing and Developed Countries.
BA Economics	Economic Development & Planning -VI	36153	<ul style="list-style-type: none"> To describe the constraints to the process of Economic Development To describe and explain the process of Economic Planning. To describe and examine the changing structure of planning process in India. To describe and explain the relation between Economic Development and Environment.
BA Economics	International Economics -V	35151	To relate and recall the concepts of International Economics and International Trade. To describe and apply the theories of international trade
BA Economics	International Economics -VI	36151	<ul style="list-style-type: none"> To explain and comprehend the issues relating to Terms of trade and Balance of Payment Ability to relate and explain the concept of Exchange Rate and Foreign Exchange Market. Ability to describe the trends in Growth, Composition and Direction of India's Foreign Trade. Ability to comprehend the issues relating to Foreign Capital and Regional and International Co-Operation
BA Economics	Public Finance -V	35152	<ul style="list-style-type: none"> To relate and recognize the Nature and Scope of Public Finance. To describe and analyze the concept of Public Revenue and its components. To explain types of Public Expenditure and reasons for rising Public Expenditure.
BA Economics	Public Finance -VI	36152	To explain the types of Public Debt and its effects. To explain and assess the components and instruments of Fiscal Policy. <ul style="list-style-type: none"> To relate to the concepts of Budget and its components. To describe and analyze the concept of Deficit Financing and its effects. To describe and explain the Center and State Financial Relationship.
BA Economics	Business Management -V	35154	<ul style="list-style-type: none"> Management of Business. Business planning and decision making Leadership Skills- Ability to work in teams at the same time, ability to show leadership qualities Analytical Skills – Ability to analyze data collected and interpret in the most logical manner



BA Economics	Business Management -VI	36154	<ul style="list-style-type: none"> • Project Report Writing Skills- Ability to comprehend and illustrate/demonstrate findings • Presentation Skills – PPT/Poster- Ability to illustrate findings in the most appealing manner. • Leadership Skills: Ability to show leadership skills with business ideas or work on business ventures as a practical example.
BA English	Compulsory English	11011	<ol style="list-style-type: none"> 1. To expose students to the best examples of prose and poetry in English so that they realize the beauty and communicative power of English 2. To instill human values and develop the character of students as responsible citizens of the world.
BA English	Compulsory English	11012	<ol style="list-style-type: none"> 1. To develop the ability to appreciate ideas and think critically 2. To enhance employability of the students by developing their linguistic competence and communicative skills
BA English	Optional English	11331	<ol style="list-style-type: none"> 1. To expose students to the basics of literature and language and develop an integrated view about language and literature in them 2. To acquaint them with minor forms of literature in English and help them to appreciate the creative use of language in literature
BA English	Optional English II	11332	<ol style="list-style-type: none"> 1. To introduce them to the basics of phonology of English so that they can pronounce better and speak English 2. To prepare students to go for detailed study and understanding literature and language 3. To enhance the job potential of students by improving their language skills
BA English	Compulsory English III	23001	<ol style="list-style-type: none"> 1. To expose students to the best examples of literature in English and to contribute to their emotional quotient as well as independent thinking 2. To instill universal human values through best pieces of literature in English 3. To develop effective communication skills by developing ability to use right words in right context
BA English	Compulsory English IV	24001	<ol style="list-style-type: none"> 1. To enhance employability of the students by developing their basic soft skills 2. To revise and reinforce the learning of some important areas of grammar for better linguistics competence

BA English	DSC-1A Appreciating Drama I	23331	<ol style="list-style-type: none"> 1. To introduce Drama as a major form of literature 2. To introduce minor forms of literature 3. To acquaint and familiarize the students with the elements and the types of drama 4. To encourage students to make a detailed study of a few sample masterpieces of English Drama from different parts of the world
BA English	DSC-1A- Appreciating Drama II	24331	<ol style="list-style-type: none"> 1. To develop interest among the students to appreciate and analyze drama independently 2. To enhance students awareness regarding aesthetics of Drama and to empower them to evaluate drama independently. 3. To acquaint and enlighten students regarding the literary and the performing dimensions of drama
BA English	DSC-2A- Appreciating Poetry I	23332	<ol style="list-style-type: none"> 1. To acquaint the students with the terminology in poetry criticism (i.e. the terms used in critical analysis and appreciation of poems) 2. To encourage students to make a detailed study of a few sample masterpieces of English poetry 3. To enhance students awareness in the aesthetics of poetry and to empower them to read, appreciate and critically evaluate the poetry independently
BA English	DSC-2A- Appreciating Poetry II	24332	<ol style="list-style-type: none"> 1. To acquaint the students with the terminology in poetry criticism (i.e. the terms used in critical analysis and appreciation of poems) 2. To encourage students to make a detailed study of a few sample masterpieces of English poetry 3. To enhance students awareness in the aesthetics of poetry and to empower them to read,
BA English	SEC-1A-Advance Study of English Language I	23333	<ol style="list-style-type: none"> 1. To familiarize students with the various components of language 2. To develop overall linguistic competence of the students 3. To introduce students to some advanced areas of language study
BA English	SEC-1A-Advance Study of English Language II	24333	<ol style="list-style-type: none"> 1.To prepare students to go for detailed study and understanding of language 2. To enhance communicative skills of students by developing insight into the working of language
BA English	SEC-2A-Mastering Communication Skills I	23334	<ol style="list-style-type: none"> 1. Enhancing the skill of using English for everyday communication 2.To acquaint the students with the verbal and nonverbal communication 3.To create opportunities to access exposure of speaking in various context
BA English	SEC-2A- Mastering Communication Skills- II	24334	<ol style="list-style-type: none"> 1. To acquaint and familiarize the students with soft skills 2.To develop interest among the students to interact in English

BA English	Compulsory English -V	35001	<ol style="list-style-type: none"> 1. To familiarize students with some excellent pieces of prose and poetry in English so that they realize the beauty and communicative power of English 2. To enable students to become competent and effective users of English in real life situations 3. To contribute to the overall personality development of the students
BA English	Compulsory English -VI	36001	<ol style="list-style-type: none"> 1. To instill humanitarian values and foster sympathetic attitude in the students 2. To train the students in practical writing skills required in work environment 3. To impart knowledge of some essential soft skills to enhance their employability
BA English	Appreciating Novel -I	35331	<ol style="list-style-type: none"> 1. To introduce students to the basics of novel as a literary form 2. To expose students to the historical development and nature of novel 3. To make students aware of different types and aspects of novel
BA English	Appreciating Novel -II	36331	<ol style="list-style-type: none"> 1. To develop literary sensibility and sense of cultural diversity in students 2. To expose students to some of the best examples of novel
BA English	Introduction to Literary Criticism-I	35332	<ol style="list-style-type: none"> 1. To introduce students to the basics of literary criticism 2. To make them aware of the nature and historical development of criticism 3. To make them familiar with the significant critical approaches and terms
BA English	Introduction to Literary Criticism-II	36332	<ol style="list-style-type: none"> 1. To encourage students to interpret literary works in the light of the critical approaches 2. To develop aptitude for critical analysis
BA English	Enhancing Employability Skills-I	35333	<ol style="list-style-type: none"> 1. To get the awareness of career opportunities available to them 2. To identify the career opportunities suitable to them 3. To understand the use of English in different careers 4. To develop competence in using English for the career of their choice
BA English	Enhancing Employability Skills-II	36333	<ol style="list-style-type: none"> 1. To enhance skills required for their placement 2. To use English effectively in the career of their choice 3. To exercise verbal as well as nonverbal communication effectively for their career
BA English	Mastering Life Skills and Life Values -I	35334	<ol style="list-style-type: none"> 1. To equip the students with the social skills 2. To train the students interpersonal skills 3. To build self- confidence and communicate effectively 4. To encourage the students to think creatively

BA English	SEC Mastering Life Skills and Life Values II	36334	<ol style="list-style-type: none"> 1. To learn stress management and Positive thinking 2. To enhance Leadership qualities 3. To aware the students about universal human values 4. To develop overall personality of the students
BA Geography	Physical Geography	Gg.110A	<ol style="list-style-type: none"> 1. To recognize the basic concepts in Physical geography. 2. To discuss the utility and application of Physical geography in different regions and environment. 3. To acquaint with Earth system (Lithosphere, Atmosphere, Biosphere and Hydrosphere). 4. To identify the principles and applications of Hydrology and Oceanography to address water
BA Geography	Human Geography	Gg-110B	<ol style="list-style-type: none"> 1. To describe the basic and latest concepts in Human Geography 2. To demonstrate applications of Human Geography in different regions of environment. 3. To define the Settlement pattern and rural and urban settlement. 4. To describe the Agriculture types and pattern.
BA Geography	Economic Geography	23205	<ol style="list-style-type: none"> 1. To introduce students to the basic principles and concepts of economic geography 2. To acquaint students with the applications to economic geography for development in different areas 3. The students should be able to integrate various factors of economic development and dynamic aspect of economic geography.
BA Geography	Economic Geography - 2	24205	<ol style="list-style-type: none"> 1. To acquaint students with the basic principles and concepts of economic geography 2. To acquaint the students with the applications to economic geography for development in different areas. 3. The main aims are to integrate the various factors of economic development and to acquaint the students with this dynamic aspect of economic geography.
BA Geography	Geography of Maharashtra-1	23201	<ol style="list-style-type: none"> 1. To acquaint students with Geography of our State. 2. To make students aware of the magnitude of problems and prospects in Maharashtra. 3. To help students understand the inter relationship between the subject and the society. 4. To help students understand the recent trends in regional studies
BA Geography	Geography of Maharashtra -2	24201	<ol style="list-style-type: none"> 1. To make students aware about the Agriculture problems and prospects of Maharashtra. 2. To understand the population distribution and settlement pattern in Maharashtra. 3. To understand the concept of rural development. 4. To understand the prospectus in Tourism activity in Maharashtra and the role of MTDC and Role of MIDC in industrial development in rural area of Maharashtra
BA Geography	Practical Geography (Scale and Map Projection)	23203	<ol style="list-style-type: none"> 1. Develop practical skill and use of map scale and projection. 2. To make students aware of the new techniques, accuracy and skills of map making.
BA Geography	Practical Geography (cartographic Techniques , Survey))	24203	<ol style="list-style-type: none"> 1. Develop practical knowledge and application of cartographic techniques. 2. To make students aware of the new techniques, accuracy and skills of Map Making.

BA Geography	Applied Course of Disaster Management	23207	<ol style="list-style-type: none"> 1. To introduce basic concepts and fundamental structure of Disaster Management (DM). 2. To inculcate critical thinking and problem-solving abilities on disaster management. 3. To enable students to assess the situation and design plan for Disaster management.
BA Geography	Applied Course of Travel and Tourism	24207	<ol style="list-style-type: none"> 1. To develop basic framework to understand the various elements of tourism management. 2. To evaluate the role of transport in travel and tourism industry. 3. To develop the skills to arrange, manage and implement various types of tours.
BA Geography	Geography of India-1	35201	<ol style="list-style-type: none"> 1. To acquaint the students with geography of our Nation. 2. To make the student aware of the magnitude of problems and Prospects at National level. 3. To help the students to understand the inter relationship between the subject and the society. 4. To help the students to understand the recent trends in regional studied.
BA Geography	Practical geography 1	35203	<ol style="list-style-type: none"> 1. To introduce the basic concepts and techniques of Geographical Analysis. 2. To introduce the students with SOI Toposheets and acquire the Knowledge of Toposheet interpretation. 3. To introduce the students with Weather Maps and acquire the Knowledge of its interpretation. 4. To introduce the students with Aerial Photographs and Satellite Images and acquire knowledge to interpret it . 5. To acquaint students with the spatial and structural characteristics of Practical Geography. 6. To explain the elementary and essential principles on field of practical work.
BA Geography	Geography of Tourism 1	35205	<ol style="list-style-type: none"> 1) To understand the history of Tourism 2) To introduce the students to the basic concepts in Tourism Geography. 3) To understand the types of Tourism 4) To gain knowledge different aspects of Tourism Geography.
BA Geography	Research Methodology 1	35206	<ol style="list-style-type: none"> 1. To develop the understanding of the basic concept of research 2. To develop the understanding of the basic framework of sampling and data collection 3. To develop the understanding of various sampling methods and techniques
BA Geography	Geography of India II	36201	<ol style="list-style-type: none"> 1. To acquaint the students with geography of our Nation. 2. To make the student aware of the magnitude of problems and Prospects at National level. 3. To help the students to understand the inter relationship between the subject and the society. 4. To help the students to understand the recent trends in regional studied
BA Geography	Practical geography II	36203	<ol style="list-style-type: none"> 1 To introduce the students with Aerial Photographs and Satellite Images and acquire knowledge to interpret it . 2. To acquaint students with the spatial and structural characteristics of Practical Geography. 3. To explain the elementary and essential principles on field of practical work.

BA Geography	Research Methodology-2	36206	<ol style="list-style-type: none"> 1. To identify various sources of information for data collection. 2. Understanding of the conducting survey on various issues and develop the Report writing skill of students
BA Geography	Geography of Tourism-2	36205	<ol style="list-style-type: none"> 1. To understand the history of Tourism 2. To introduce the students to the basic concepts in Tourism Geography. 3. To understand the types of Tourism 4. To gain knowledge different aspects of Tourism Geography.
BA Hindi	F.Y.B.A. SEM.-1	(11092 A)	<ul style="list-style-type: none"> <input type="checkbox"/> छात्रों को हिंदी काव्य साहित्य का परिचय देना। <input type="checkbox"/> छात्र हिंदी कहानी साहित्य से अवगत कराना। <input type="checkbox"/> छात्रों में हिंदी भाषा द्वारा संवाद कौशल का विकास करना। <input type="checkbox"/> छात्रों का मौलिक लेखन की ओर रुझान बढ़ाना। <input type="checkbox"/> छात्रों में विज्ञापन लेखन कौशल का विकास करना। <input type="checkbox"/> छात्रों को अनुवाद संबंधी जानकारी देना। <input type="checkbox"/> छात्रों को हिंदी कंप्यूटिंग का परिचय देना।
BA Hindi	F.Y.B.A.SEM-2	(12092 B)	<ul style="list-style-type: none"> <input type="checkbox"/> छात्रों को आधुनिक हिंदी काव्य साहित्य तथा कवियों का परिचय देना। <input type="checkbox"/> छात्रों को हिंदी गद्य साहित्य से अवगत कराना। <input type="checkbox"/> छात्रों में निबंध लेखन कौशल का विकास कराना। <input type="checkbox"/> छात्रों में विज्ञापन लेखन कौशल का विकास कराना। <input type="checkbox"/> छात्रों में हिंदी भाषा का विशुद्ध लेखन कौशल का विकास कराना।
BA Hindi	F.Y.B.COM. SEM.-1	वैकल्पिक हिंदी प्रश्नपत्र 1 – A (117 C)	<ul style="list-style-type: none"> <input type="checkbox"/> छात्रों को हिंदी काव्य साहित्य का परिचय देना। <input type="checkbox"/> छात्रों को हिंदी कहानी साहित्य से अवगत कराना। <input type="checkbox"/> छात्रों में हिंदी भाषा द्वारा संवाद कौशल का विकास कराना। <input type="checkbox"/> छात्रों का मौलिक लेखन की ओर रुझान बढ़ाना। <input type="checkbox"/> छात्रों में विज्ञापन लेखन कौशल का विकास कराना। <input type="checkbox"/> छात्रों को हिंदी कंप्यूटिंग का परिचय देना।
BA Hindi	F.Y.B.COM. SEM-2	वैकल्पिक हिंदी प्रश्नपत्र 1 – B (127 C)	<ul style="list-style-type: none"> <input type="checkbox"/> छात्रों को आधुनिक हिंदी काव्य साहित्य तथा कवियों का परिचय देना। <input type="checkbox"/> छात्रों को हिंदी गद्य साहित्य का परिचित कराना। <input type="checkbox"/> छात्रों में पारिभाषिक शब्दावली लेखन कौशल का विकास कराना। <input type="checkbox"/> छात्रों को विज्ञापन लेखन कौशल एवं प्रकारों से परिचय कराना। <input type="checkbox"/> छात्रों में हिंदी भाषा का विशुद्ध लेखन कौशल का विकास कराना। <input type="checkbox"/> छात्रों को अनुवाद संबंधी जानकारी देना।
BA Hindi	S.Y.B.A.SEM.-3	CC-1C (G.-2) आधुनिक काव्य, कहानी तथा व्यवहारिक हिंदी (23093)	<ul style="list-style-type: none"> <input type="checkbox"/> छात्रों को हिंदी काव्य साहित्य का परिचय देना। <input type="checkbox"/> छात्रों को हिंदी कहानी साहित्य का परिचित देना। <input type="checkbox"/> छात्रों को हिंदी कारक-व्यवस्था की जानकारी देना। <input type="checkbox"/> छात्रों को शब्द-युग्म का अर्थ तथा प्रत्यक्ष वाक्य में प्रयोग करने में सक्षम कराना। <input type="checkbox"/> छात्रों को संक्षेपण लेखन की समग्र जानकारी देना। <input type="checkbox"/> छात्रों में सर्जनात्मकता का विकास कराना।

BA Hindi	S.Y.B.A.SEM-4	CC-1D (G.-2) आधुनिक हिंदी व्यंग्य साहित्य तथा व्यवहारिक हिंदी (24093)	<input type="checkbox"/> छात्रों को व्यंग्य पाठ से परिचय एवं बोध कराना। <input type="checkbox"/> छात्रों को हिंदी कहानी साहित्य का परिचय देना। <input type="checkbox"/> छात्रों को साक्षात्कार की जानकारी देना। <input type="checkbox"/> छात्रों को भाषा के मोबाईल तंत्र से अवगत कराना। <input type="checkbox"/> छात्रों को पल्लवन कला से अवगत कराना।
BA Hindi	S.Y.B.A. SEM.3	SEC-2A अनुवाद स्वरूप एवं व्यवहार (23096)	<input type="checkbox"/> छात्रों को अनुवाद कौशल का परिचय कराना। <input type="checkbox"/> छात्रों को अनुवाद स्वरूप का परिचय कराना। <input type="checkbox"/> छात्रों को अनुवाद क्षेत्र की जानकारी देना। <input type="checkbox"/> छात्रों को हिंदी से मराठी में प्रत्यक्ष अनुवाद करने में सक्षम बनाना। <input type="checkbox"/> छात्रों को अंग्रेजी से हिंदी, मराठी में अनुवाद कौशल का विकास कराना।
BA Hindi	S.Y.B.A.SEM.-4	SEC-2B माध्यम लेखन (24096)	<input type="checkbox"/> छात्रों को माध्यम लेखन का परिचय एवं बोध कराना। <input type="checkbox"/> छात्रों को सृजनात्मक लेखन कौशल से विकसित कराना। <input type="checkbox"/> छात्रों को श्रव्य-दृश्य माध्यमों की भाषा से अवगत कराना।
BA Hindi	S.Y.B.A.SE.-3	DSC-1A (S-1) काव्यशास्त्र (23091)	<input type="checkbox"/> छात्रों को भारतीय काव्यशास्त्र का परिचय कराना। <input type="checkbox"/> छात्र काव्य परिभाषा, तत्व आदि से अवगत कराना। <input type="checkbox"/> छात्रों को काव्य के तत्व, शब्द-शक्तियों की जानकारी देना। <input type="checkbox"/> छात्रों को रस के स्वरूप का परिचय देना। <input type="checkbox"/> छात्रों में भारतीय काव्यशास्त्र के प्रति रूचि और आलोचनात्मक दृष्टि का विकास करना।
BA Hindi	S.Y.B.A.(SEM.04)	DSC-1B (S-1) साहित्य के भेद (24091)	<input type="checkbox"/> छात्रों को साहित्य के भेद का परिचय कराना। <input type="checkbox"/> छात्रों को पद्य भेद से अवगत कराना। <input type="checkbox"/> छात्रों को महाकाव्य, खंडकाव्य और मुक्तक काव्य से अवगत कराना। <input type="checkbox"/> छात्रों को नाटक विधा की जानकारी देना। <input type="checkbox"/> छात्रों में नाट्य अभिनय के प्रति रूचि निर्माण करना।
BA Hindi	S.Y.B.A.(SEM.03)	DSC-2A (S-2) मध्ययुगीन काव्य तथा उपन्यास साहित्य (23092)	<input type="checkbox"/> छात्रों को कबीर के साहित्य से परिचय कराना। <input type="checkbox"/> छात्रों को मीराबाई के काव्य से अवगत कराना। <input type="checkbox"/> छात्रों को भारतीय उपन्यास की जानकारी देना। <input type="checkbox"/> छात्रों में उपन्यास कृति का मूल्यांकन कला का विकास करना। <input type="checkbox"/> छात्रों में साहित्य कृतियों को प्रस्तुत जीवनमूल्यों को आत्म विस्तृत करने में सक्षम बनाना।
BA Hindi	S.Y.B.A.(SEM.04)	DSC-2B (S-2) मध्ययुगीन काव्य तथा नाटक साहित्य (24093)	<input type="checkbox"/> छात्रों को रहीम के काव्य का परिचय देना। <input type="checkbox"/> छात्रों को बिहारी की काव्य अभिव्यंजना से अवगत कराना। <input type="checkbox"/> छात्रों को नाटक और रंगमंच से अवगत कराना। <input type="checkbox"/> छात्रों में अभिनय गुण विकसित करना। <input type="checkbox"/> छात्रों में नाट्य आलोचना में रूचि निर्माण करना।
BA Hindi	S.Y.B.A.(SEM.03)	MIL (HINDI) हिंदी भाषा शिक्षण -1 ()	<input type="checkbox"/> छात्रों में हिंदी भाषा श्रवण कौशल का विकास कराना। <input type="checkbox"/> छात्रों में हिंदी भाषा संवाद कौशल का विकास कराना। <input type="checkbox"/> छात्रों में हिंदी भाषा वाचन कौशल का विकास कराना। <input type="checkbox"/> छात्रों में हिंदी भाषा लेखन कौशल का विकास कराना। <input type="checkbox"/> छात्र हिंदी भाषा-विधि तथा भाषा-व्यवहार से अवगत कराना। <input type="checkbox"/> छात्रों में सृजन कौशल विकसित करना।

BA Hindi	S.Y.B.A.(SEM.04)	MIL (HINDI) हिंदी भाषा शिक्षण - 2 ()	<input type="checkbox"/> छात्रों को वाक्य के भेद से अवगत कराना। <input type="checkbox"/> छात्रों को विशेष प्रकार के वाक्यों से परिचित कराना। <input type="checkbox"/> छात्रों में हिंदी भाषा श्रवण, संवाद, वाचन, लेखन कौशल का विकास कराना। <input type="checkbox"/> छात्रों को हिंदी काव्य-गीत सृजन कौशल से विकसित करना।
BA Hindi	T.Y.B.A.(SEM.05)	CC-1E (G.3) कथेतर विधाएँ (35093)	<input type="checkbox"/> छात्रों को संस्मरण साहित्य से अवगत करना। <input type="checkbox"/> छात्रों को रेखाचित्र साहित्य से अवगत करना। <input type="checkbox"/> छात्रों को मूल्यांकन की दृष्टि का विकास करना। <input type="checkbox"/> छात्रों में सभा-इतिवृत्त लेखन कौशल वृद्धि का विकास करना। <input type="checkbox"/> छात्रों में वार्ता लेखन दृष्टि विकसित करना।
BA Hindi	T.Y.B.A.(SEM.06)	CC-1F (G.3) गजल विधा और पत्राचार (36093)	<input type="checkbox"/> छात्रों को गजल साहित्य से अवगत करना। <input type="checkbox"/> छात्रों को गजलकार के व्यक्तित्व से अवगत करना। <input type="checkbox"/> छात्रों में मूल्यांकन की दृष्टि का विकास करना। <input type="checkbox"/> छात्रों में सरकारी पत्र लेखन से अवगत करना।
BA Hindi	T.Y.B.A.(SEM.05)	DSE-1C (S.3) हिंदी साहित्य का इतिहास (आदिकाल, भक्तिकाल) (35091)	<input type="checkbox"/> छात्रों को साहित्येतिहास लेखन का परिचय देना। <input type="checkbox"/> हिंदी साहित्येतिहास के काल विभाजन तथा नामकरण का परिचय देना। <input type="checkbox"/> आदिकालीन, भक्तिकालीन, रीतिकालीन प्रमुख साहित्यिक प्रवृत्तियों, रचनाकारों और रचनाओं से परिचित कराना।
BA Hindi	T.Y.B.A.(SEM.06)	DSE-1D (S.3) हिंदी साहित्य का इतिहास (आधुनिक काल सामान्य परिचय) (36091)	<input type="checkbox"/> आधुनिक काल की पृष्ठभूमि से छात्रों को अवगत कराना। <input type="checkbox"/> भारतेंदु युगीन, द्विवेदी युग के काव्य की विशेषताओं से छात्रों को अवगत कराना। <input type="checkbox"/> आधुनिक काल के रचनाकारों और रचनाओं से परिचित कराना। <input type="checkbox"/> हिंदी गद्य के उद्भव और विकास से छात्रों को अवगत कराना।
BA Hindi	T.Y.B.A.(SEM.05)	DSE-2C (S.4) भाषाविज्ञान (सामान्य परिचय) (35092)	<input type="checkbox"/> भाषाविज्ञान के स्वरूप का परिचय देना। <input type="checkbox"/> छात्रों को भाषाविज्ञान की व्याप्ति समझाना। <input type="checkbox"/> भाषाविज्ञान के अध्ययन की दिशाओं का परिचय देना। <input type="checkbox"/> भाषाविज्ञान के अनुप्रयोगात्मक पक्ष को समझाना। <input type="checkbox"/> साहित्य-अध्ययन में भाषाविज्ञान की उपयोगिता समझाना।
BA Hindi	T.Y.B.A.(SEM.06)	DSE-2D (S.4) हिंदी भाषा और उसका विकास (36092)	<input type="checkbox"/> भाषाविज्ञान के स्वरूप का परिचय देना। <input type="checkbox"/> छात्रों को भाषाविज्ञान की व्याप्ति समझाना। <input type="checkbox"/> भाषाविज्ञान के अनुप्रयोगात्मक पक्ष को समझाना। <input type="checkbox"/> भाषाविज्ञान के अध्ययन की दिशाओं का परिचय देना। <input type="checkbox"/> साहित्य-अध्ययन में भाषाविज्ञान की उपयोगिता समझाना।
BA Hindi	T.Y.B.A.(SEM.05)	SEC-2C पटकथा लेखन (35096)	<input type="checkbox"/> छात्रों को स्क्रिप्ट लेखन, अर्थ, परिभाषा से अवगत कराना। <input type="checkbox"/> छात्रों को कथा, पटकथा और संवाद से परिचित कराना। <input type="checkbox"/> छात्रों को ड्राफ्ट बनाने से परिचित कराना।
BA Hindi	T.Y.B.A.(SEM.06)	SEC-2D साहित्य और फिल्मांतरण (36096)	<input type="checkbox"/> छात्रों को सिनेमा का स्वरूप से परिचित कराना। <input type="checkbox"/> छात्रों को हिंदी साहित्य और सिनेमा के अन्तर्संबंध से परिचित कराना। <input type="checkbox"/> छात्रों को हिंदी उपन्यासों पर आधारित फिल्मों से अवगत कराना।

BA History	Early India :From Prehistory to the Age of the Maury's	11171	<ol style="list-style-type: none"> 1. Learn innovative study techniques in the study of History of Ancient India to make it value based, conceptual and thought Provocative. 2. Understand the importance of past in Exploration of present context. 3. Understand the Socio –economic, cultural and architecture background of age of the Mauryas. 4. Acquire the spirit of healthy Secularism among the student.
BA History	Early India :Post Mauryan age to the Rashtrakutas	12171	<ol style="list-style-type: none"> 1. Learn innovative study techniques in the study of History of Ancient India to make it value based, conceptual and thought Provocative. 2. Understand the importance of past in Exploration of present context. 3. Understand the Socio –economic, cultural and political and architecture background of Post Mauryan to the Age of the Rashtrakuta 4. Acquire knowledge of various Empire after the age of Mouryas.
BA History	History of the Marathas (1630-1707)	23174	<ol style="list-style-type: none"> 1. Student will develop the ability to analyses sources for Maratha History. 2. Student will learn significance of regional history and political foundation of the region. 3. It will enhance student's perception of 17th century Maharashtra and India in context of Maratha history.
BA History	History of the Marathas 1707-1818)	24174	<ol style="list-style-type: none"> 1. Students will be able to analyze the Marathas policy of expansionism and its consequences. 2. They will understand the role played by the Marathas in the 18th century India. 3. They will be acquainted with the art of diplomacy in the Deccan region. 4. It will help to enrich the knowledge of the administrative skills and profundity of diplomacy
BA History	Medieval India-Sultanate Period	23171	<ol style="list-style-type: none"> 1. Provides examples of sources used to study various periods in history. 2. Relates key historical developments during medieval period occurring in one place with another. 3. Analyses socio - political and economic changes during medieval period 4. Estimate the foreign invasion and the achievement of rulers
BA History	Medieval India-Mughal Period	24171	<ol style="list-style-type: none"> 1. Draws comparisons between policies of different rulers. 2. Understanding Role of Akbar in the consolidation of Mughal rule in India. 3. Understand Aurangzeb's conflict with Rajput as, Maratha and weakening Mughals age. 4. Analyses factors which led to the emergence of new religious ideas and movements (bhakti and Sufi)

BA History	Glimpses of the Modern World. Part-I	23172	<ol style="list-style-type: none"> 1. It will enable students to develop the overall understanding of the Modern World. 2. The students will get acquainted with the Renaissance, major political, socio-religious and economic developments during the Modern World. 3. It will enhance their perception of the history of the Modern World. 4. It will enable students to understand the significance of the intellectual, economic, political developments in the Modern World.
BA History	Glimpses of the Modern World. Part-II	24172	<ol style="list-style-type: none"> 1. It will enable students to develop the overall understanding of the Modern World. 2. Students will get acquainted with the major nationalist movements, the World War II and its consequences, the Cold War and its Consequences. 3. It will enhance students overall perception of the history of the Modern World. 4. It will enable students to understand the significance of the strategic political developments in
BA History	Tourism Management	23178	<ol style="list-style-type: none"> 1. Students will get an overall understanding of the process and development of the Tourism Management 2. They will learn to work in the Tourism Management.
BA History	Travel Agency & Tour Business	24178	<ol style="list-style-type: none"> 1. Students will get an overall understanding the details of the business of Travel Agency. 2. They will be trained on both theory and Practical aspect Travel agency and Tourism Industry. 3. They will enable to seek self-employment by starting their own business.
BA History	Indian National Movement (1885-1947)	35174	<ol style="list-style-type: none"> 1. It will enable students to develop an overall understanding of Modern India. 2. It will increase the spirit of healthy Nationalism, Democratic Values and Secularism among the Students. 3. Students will understand various aspects of the Indian Independence Movement and the
BA History	India After Independence (1947-1991)	36174	<ol style="list-style-type: none"> 1. It will enable students to develop an overall understanding of the Contemporary India. 2. To increase the spirit of healthy Nationalism, Democratic Values and Secularism among the students. 3. Students will understand various aspects of India's domestic and foreign policies that shaped Post-Independence India.
BA History	Introduction to Historiography	35171	<ol style="list-style-type: none"> 1. Students will be introduced to the information and importance of Historiography. 2. Students will be introduced to the different Methods and Tools of data collection. 3. Students can study the interdisciplinary approach of History. 4. Students will learn about 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. 5. This curriculum develops Research ability and process of Research Methodology in History.

BA History	Applied History	36171	<ol style="list-style-type: none"> 1. Students will be introduced to the information and importance of applied history. 2. Student will learn about the Historical significance of Archaeology and Archives and opportunities in the field of Archaeology and Archives. 3. Through this course, students will be informed about the opportunities in the field of Media, Museums. 4. Students will learn about 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
BA History	Maharashtra in the 19 th century	35172	<ol style="list-style-type: none"> 1. Student will develop the ability to analyse sources for 19th century Maharashtra History. 2. Student will learn significance of Regional History and Socio- religious reformism foundation of the region. 3. It will enhance their perception of 19th Century Maharashtra. 4. Appreciate the skills of leadership and the Socio-religious System of the Maharashtra.
BA History	Maharashtra in the 20 th century	36172	<ol style="list-style-type: none"> 1. Student will develop the ability to analyses sources for 20th Century Maharashtra History. 2. Student will learn significance of regional history and Socio- Religious Reformism foundation of the region. 3. It will enhance their Perception of 20th Century Maharashtra. 4. Appreciate the skills of leadership and the Socio-Religious System of the Maharashtra.
BA History	Museology	35178	<ol style="list-style-type: none"> 1. The Students will understand the Concepts of Museum ad learn the basic Principles of Museology. 2 The Students will gain Comprehensive Knowledge of the Process of Cringe and Conserving
BA History	Archaeology	36177	<ol style="list-style-type: none"> 1. Students will learn to understand the definition, aims and scope of Archaeology so as to understand its applications in interpreting the human past. 2. They will be able to understand the nature of the archaeological record and the unique role of science in archaeology. 3. They will have an overall understanding of the Archaeology.
BA Marathi	मराठी साहित्य कथा आणि भाषिक कौशल्यविकास (11011)	11011	<ol style="list-style-type: none"> a) The students were introduced to the literary genres of stories. b) The form, elements and classification of literary forms such as stories were identified. c) Students learned about stories in various literary streams. d) Applied skills were developed in relation to Marathi language
BA Marathi	मराठी साहित्य एकांकिका आणि भाषिक कौशल्यविकास (CC -1A)	12021	<ol style="list-style-type: none"> a) The students were introduced to the literary genres of dramas and one-act plays. b) The form, elements and classification of literary forms such as dramas and one-act plays were identified. c) Students learned about dramas and one-act plays in various literary streams. d) Applied skills were developed in relation to Marathi language

BA Marathi	मराठी साहित्य कथा आणि भाषिक कौशल्यविकास (CC -1A)	11021	<p>a) The students were introduced to the literary genres of stories.</p> <p>b) The form, elements and classification of literary forms such as stories were identified.</p> <p>c) Students learned about stories in various literary streams.</p> <p>d) Applied skills were developed in relation to Marathi language</p>
BA Marathi	भाषिक कौशल्यविकास आणि आधुनिक मराठी साहित्यप्रकार कादंबरी	23021	<p>a) The students were introduced to the concept, form, type and history of the literary genre of novel .</p> <p>b) The student learned to enjoy and understand the assigned textbook.</p> <p>c) Applied skills were developed in relation to Marathi language.</p>
BA Marathi	भाषिक कौशल्यविकास आणि आधुनिक मराठी साहित्यप्रकार :ललितगद्य (CC -1C (3))	24021	<p>a) The students were introduced to the concept, form, type and history of the literary genre of prose.</p> <p>b) The student learned to enjoy and understand the assigned textbook.</p> <p>c) Applied skills were developed in relation to Marathi language</p>
BA Marathi	आधुनिक मराठी साहित्य : प्रकाशवाटा	23021	<p>a) The students were introduced to the concept, form, type and history of the literary genre of Autobiography and Literary History</p> <p>b) The student learned to enjoy and understand the assigned textbook.</p> <p>c) Applied skills were developed in relation to Marathi language.</p>
BA Marathi	/ मध्ययुगीन मराठी साहित्य : निवडक मध्ययुगीन गद्य, पद्य	24021	<p>a) The students were introduced to the concept, form, type and history of the literary genre of Autobiography and Literary History</p> <p>b) The student learned to enjoy and understand the assigned textbook.</p> <p>c) Applied skills were developed in relation to Marathi language.</p>
BA Marathi	साहित्यविचार	23022	<p>a) The students were introduced to the concept, form, type and literary concepts, genre , Literary terms and literary History</p> <p>b) To introduce students to the basics of literary Terms</p> <p>c) To make them aware of the nature and historical development of literary Terms .</p> <p>d) To make them familiar with the significant critical approaches and terms</p> <p>e) To encourage students to interpret literary works in the light of the critical approaches</p> <p>f) To develop aptitude for critical analysis</p>

BA Marathi	साहित्य समीक्षा	24023	<p>a) The students were introduced to the concept, form, type and literary concepts, genre , , Criticism History</p> <p>b) To introduce students to the basics of literary criticism</p> <p>c) To make them aware of the nature and historical development of criticism.</p> <p>d) To make them familiar with the significant critical approaches and terms</p> <p>e) To encourage students to interpret literary works in the light of the critical approaches</p> <p>f) To develop aptitude for critical analysis</p>
BA Marathi	मराठी भाषिक संज्ञापन कौशल्ये	23011	<p>a) Students develop advanced modern language skills.</p> <p>b) Students become familiar with the correlation between language and personality development.</p> <p>c) Students have developed media literacy skills</p>
BA Marathi	नवमाध्यमे आणि समाजमाध्यमांसाठी मराठी	24011	<p>a) Students develop advanced modern language skills.</p> <p>b) The students got a detailed introduction to various modern media as well as New media and social media..</p> <p>c) To prepare students to go for detailed study and understanding of New media and social media MIL language</p> <p>d) Students have developed media literacy skills</p>
BA Marathi	प्रकाशन व्यवहार आणि संपादन	23025	<p>a) Students acquire skills in publishing transactions and editing/applied writing skills.</p> <p>b) Students are imparted necessary training in publishing practices and Editing/applied writing skills.</p> <p>c) To create opportunities to access exposure of Publishing transactions and editing/applied writing skills Contest</p> <p>d) Students were imparted essential training in publishing business and editing/applied writing skills, advertising, interview writing.</p>
BA Marathi	उपयोजित लेखनकौशल्ये	24025	<p>a) Students acquire skills in publishing transactions and editing/applied writing skills.</p> <p>b) Students are imparted necessary training in publishing practices and Editing/applied writing skills.</p> <p>c) To create opportunities to access exposure of Publishing transactions and editing/applied writing skills Contest</p> <p>d) Students were imparted essential training in publishing business and editing/applied writing skills, advertising, interview writing.</p>

BA Marathi	भाषिक कौशल्यविकास आणि आधुनिक मराठी साहित्यप्रकार कादंबरी	23023	a) The students were introduced to the concept, form, type and history of the literary genre of novel . b) The student learned to enjoy and understand the assigned textbook. c) Applied skills were developed in relation to Marathi language.
BA Marathi	भाषिक कौशल्यविकास आणि आधुनिक मराठी साहित्यप्रकार :ललितगद्य	24023	a) The students were introduced to the concept, form, type and history of the literary genre of prose. b) The student learned to enjoy and understand the assigned textbook. c) Applied skills were developed in relation to Marathi language
BA Marathi	आधुनिक मराठी साहित्य आणि व्यावहारिक उपयोजित मराठी	35023	a) Students were introduced to different types of literature. Based on that, his literary taste was formed and from that he developed the ability to enjoy literary works.. b) The students were introduced to the literature tradition in the form of various literature types. c) The students got theoretical knowledge about essays and travelogues. d) To expose students to varied cultural experiences through literature e) To contribute to their overall personality development by improving their communicative and soft skills
BA Marathi	आधुनिक मराठी साहित्य आणि व्यावहारिक उपयोजित मराठी	36023	a) Students were introduced to different types of literature. Based on that, his literary taste was formed and from that he developed the ability to enjoy literary works.. b) The students were introduced to the literature tradition in the form of various literature types. c) The students got theoretical knowledge about essays and travelogues. d) To expose students to varied cultural experiences through literature e) To contribute to their overall personality development by improving their communicative and soft skills
BA Marathi	साहित्यवेचार	35021	a) To develop students' understanding of literature, its form, inspiration and creation b) The students were introduced to the literature tradition in the form of various literature types. c) Students gained an understanding of the relationship between literature and society. d) The students gained scientific knowledge about what is literature.
BA Marathi	साहित्यवेचार	36021	a) To develop students' understanding of literature, its form, inspiration and creation b) The students were introduced to the literature tradition in the form of various literature types. c) Students gained an understanding of the relationship between literature and society. d) The students gained scientific knowledge about what is literature.

BA Marathi	भाषाविज्ञान :वर्णनात्मक	35022	<p>a) Students got scientific knowledge of language and linguistics.</p> <p>b) The students were introduced to the literature tradition in the form of various literature types.</p> <p>c) Students gained an understanding of the relationship between literature and society.</p> <p>d) The students gained scientific knowledge about what is literature.</p>
BA Marathi	भाषाविज्ञान : ऐतिहासिक	36022	<p>a) Students got history of language and linguistics.</p> <p>b) The students were introduced to the literature tradition in the form of various literature types.</p> <p>c) Students gained an understanding of the relationship between literature and society.</p> <p>d) The students gained scientific knowledge and history about what is literature</p>
BA Marathi	कार्यक्रम संयोजन कौशल्य	35025	<p>a) Students acquire skills in organize programmer skills.</p> <p>b) Students are imparted necessary training in ancaring practices and applied writing skills.</p> <p>c) To create opportunities to access exposure of programme orgnaze and editing/applied writing skills Contest</p> <p>d) Students were imparted essential training in Ancuring and editing/applied writing skills,</p>
BA Marathi	कार्यक्रम संयोजन कौशल्य	36025	<p>a) Students acquire skills in organize programmer skills.</p> <p>b) Students are imparted necessary training in ancaring practices and applied writing skills.</p> <p>c) To create opportunities to access exposure of programme organize and editing/applied writing skills Contest</p>
BA Political Science	FYBA	11161A	<p>The contents of this course are designed with the following objectives:</p> <ol style="list-style-type: none"> 1. To acquaint students with the important features of the Constitution of India andwith The basic framework of Indian government. 2. To familiarize students with the working of the Constitution of India.
BA Political Science	FYBA	11272	<ol style="list-style-type: none"> 1. Students will able to analyze the defence operations performed by India from the point of view of Armed Forces. 2. Students will get to know future job opportunities and how to join the less popular wings of Paramilitary forces and other services.
BA Political Science	FYBA	11272	<p>The basic aim of this paper is to make aware the students about India's National Security. This paper covers overall picture of India's National Security which encompasses the internal, external challenges to India's National Security along with its dimensions.</p>

BA Political Science	FYBA	12999	<ol style="list-style-type: none"> 1. To introduce the students meaning of democracy and the role of the governance 2. To help them understand the various approaches to the study of democracy and governance
BA Political Science	SYBA	23164	<ol style="list-style-type: none"> 1. Role of different political ideologies and their impact in politics 2. Close link between an idea and its actual realization in public policy 3. Legacy of all the major ideologies
BA Political Science	SYBA	23161	<ol style="list-style-type: none"> 1. Major traditions of thought that have shaped political discourse in different parts of the world. 2. The great diversity of social contexts and philosophical visions. 3. The history of political thought as a series of critical, interconnected and open-ended conversations about the ends and means of the good life.
BA Political Science	SYBA	23162	<ol style="list-style-type: none"> 1. Complex relationship between the communication, media and power politics. 2. Critical appraisal of practices of political image management, campaigns, propaganda and censorship. 3. Indian context of political Journalism
BA Political Science	SYBA	23165	<ol style="list-style-type: none"> 1. To acquaint students with the important features of the Constitution of India and with the basic framework of Indian government. 2. To familiarize students with the working of the Constitution of India.
BA Political Science	SYBA	24165	<p>This paper focuses in detail on the political processes and the actual functioning of the political system. It emphasizes on local influences that derive from social stratification of castes and jatis, from language, religion, ethic and economic determinants and critically assesses its impact on the political processes.</p>
BA Political Science	TYBA	35165	<p>This course will introduce the overall scope of the sub-discipline of Modern Political Analysis. The focus of the course will be on the Modern Political Analysis of power. The emphasis is on the nature of power in modern societies- more in the form of organizations and social formations than as individual power. Students are also expected to understand different forms of justifications of power and the role of ideology in this regard. State will be studied as a repository of power in society while class and patriarchy are two instance of how the nature of power is shaped by social factors.</p>

BA Political Science	TYBA	35165	This paper is an introductory course in Public Administration. The essence of Public Administration lies in its effectiveness in translating the governing philosophy into programmes, policies and activities and making it a part of community living. The paper covers personnel public administration in its historical context thereby proceeding to highlight several of its categories, which have developed administrative salience and capabilities to deal with the process of change. The recent developments and particularly the emergence of New Public Administrations are incorporated within the larger paradigm of democratic legitimacy. The
BA Political Science	TYBA	35162	This paper deals with concepts and dimensions of International Relations and makes an analysis of different theories highlighting the major debates and differences within the different theoretical paradigms. The dominant theories of power and the question of equity and justice, the different aspects of balance of power leading to the present situation of a unipolar world are included. It's highlights various aspects of conflict and conflicts resolution, collective security and in the specificity of the long period of the post second world war phase of the cold war, of Detent and Deterrence leading to theories of rough parity in armaments.
BA Political Science	TYBA	35165	<ol style="list-style-type: none"> 1. This Course is an introduction to the political process in Maharashtra with special reference to regionalism sub-regionalism and Samyukta Maharashtra Movement. 2. The aim of the course is that students are expected to understand both the historical evolution of Maharashtra's politics and different analyses of politics of the state. 3. It tries to acquiant students with the main issues and concerns in the public life of a regional society as it shaped in the concept of colonialism, nationalism and modernity.
BA Political Science	TYBA	36165	<ol style="list-style-type: none"> . This Course is an introduction to the political process in Maharashtra with special reference to regionalism sub-regionalism and Samyukta Maharashtra Movement. 2. The aim of the course is that students are expected to understand both the historical evolution of Maharashtra's politics and different analyses of politics of the state. 3. It tries to acquiant students with the main issues and concerns in the public life of a regional society as it shaped in the concept of colonialism, nationalism and modernity.
BA Political Science	TYBA	35164	<ol style="list-style-type: none"> 1. To introduce the evolution of Local Self Government in Maharashtra 2. To make students aware about 73rd and 74th Constitutional Amendments 3. To introduce the students the structure of Local Self Government 4. To make students aware about composition, power and functions of local bodies

BA Political Science	FYBA G1	11161A	<p>INTRODUCTION TO INDIAN CONSTITUTION</p> <ol style="list-style-type: none"> 1. To acquaint students with the important features of the Constitution of India andwith The basic framework of Indian government. 2. To familiarize students with the working of the Constitution of India.
BA Political Science	FYBA G.1	11271	<p>Defence Organization in India Semester-I</p> <ol style="list-style-type: none"> 1. Students will able to analyze the defence operations performed by India from the point of view of Armed Forces. 2. Students will get to know future job opportunities and how to join the less popular wings of Paramilitary forces and other services.
BA Political Science	FYBA G.1	11272	<p>India's National Security:</p> <ol style="list-style-type: none"> 1 The basic Outcome of this paper is to make aware the students about India's National Security. 2 This paper covers overall picture of India's National Security which encompasses the internal, external challenges to India's National Security along with its dimensions.
BA Political Science	FYBA SEC	12999	<p>Democracy, Election and Governance</p> <ol style="list-style-type: none"> 1. To introduce the students meaning of democracy and the role of the governance 2. To help them understand the various approaches to the study of democracy and governance
BA Political Science	SYBA G.1	23164	<p>AN INTRODUCTION TO POLITICAL IDEOLOGIES</p> <ol style="list-style-type: none"> 1. Role of different political ideologies and their impact in politics 2. Close link between an idea and its actual realization in public policy 3. Legacy of all the major ideologies

BA Political Science	SYBA SP-1	23161	<p>WESTERN POLITICAL THOUGHT</p> <ol style="list-style-type: none"> 1. Major traditions of thought that have shaped political discourse in different parts of the world. 2. The great diversity of social contexts and philosophical visions. 3. The history of political thought as a series of critical, interconnected and open-ended conversations about the ends and means of the good life.
BA Political Science	SYBA SP-2	23162	<p>Political Journalism:</p> <ol style="list-style-type: none"> 1. Complex relationship between the communication, media and power politics. 2. Critical appraisal of practices of political image management, campaigns, propaganda and censorship. 3. Indian context of political Journalism
BA Political Science	SYBA SEC-2A	23165	<p>BASICS OF INDIAN CONSTITUTION</p> <ol style="list-style-type: none"> 1. To acquaint students with the important features of the Constitution of India and with the basic framework of Indian government. 2. To familiarize students with the working of the Constitution of India.
BA Political Science	TYBA SP.1	35165	<p>PUBLIC ADMINISTRATION</p> <ol style="list-style-type: none"> 1 This paper is an introductory course in Public Administration. The essence of Public Administration lies in its effectiveness in translating the governing philosophy into programmes, policies and activities and making it a part of community living. 2 The paper covers personnel public administration in its historical context thereby proceeding to highlight several of its categories, which have developed administrative salience and capabilities to deal with the process of change. 3 The recent developments and particularly the emergence of New Public Administrations are incorporated within the larger paradigm of democratic legitimacy. The importance of legislative and judicial control over administration is also highlighted
BA Political Science	TYBA SP .4	35162	<p>INTERNATIONAL RELATIONS</p> <ol style="list-style-type: none"> 1 This paper deals with concepts and dimensions of International Relations and makes an analysis of different theories highlighting the major debates and differences within the different theoretical paradigms. 2 The dominant theories of power and the question of equity and justice, the different aspects of balance of power leading to the present situation of a unipolar world are included. It's highlights various aspects of conflict and conflicts resolution, collective security and in the specificity of the long period of the post second world war phase of the cold war, of Detent and Deterrence

BA Political Science	TYBA	35164	<p>LOCAL SELF GOVERNMENT IN MAHARASHTRA</p> <ol style="list-style-type: none"> 1. To introduce the evolution of Local Self Government in Maharashtra 2. To make students aware about 73rd and 74th Constitutional Amendments 3. To introduce the students the structure of Local Self Government 4. To make students aware about composition, power and functions of local bodies
BA Political Science	TYBA SEC	35165	<p>Samyukta Maharashtra Movement</p> <ol style="list-style-type: none"> 1. This Course is an introduction to the political process in Maharashtra with special reference to regionalism sub-regionalism and Samyukta Maharashtra Movement. 2. The aim of the course is that students are expected to understand both the historical evolution of Maharashtra's politics and different analyses of politics of the state. 3. It tries to acquaint students with the main issues and concerns in the public life of a regional society as it shaped in the concept of colonialism, nationalism and modernity
BA Psychology	Foundations of Psychology	11221	<ul style="list-style-type: none"> • Understand the basic psychological processes and their applications in day to day life. • Develop the ability to evaluate cognitive processes, learning and memory of an individual. • Understand the importance of motivation and emotion of the individual. • Understand the personality and intelligence of the individuals by developing their psychological processes and abstract potentials.
BA Psychology	Introduction to Social Psychology	11222	<ul style="list-style-type: none"> • Understand the basics of social psychology. • Understand the nature of self, concept of attitude and prejudice of the individual. • Assess the interactional processes, love and aggression in our day today life. . • Understand group dynamics and individual in the social world.
BA Psychology	Health Psychology	23223	<ol style="list-style-type: none"> 1. Understand health psychology and arrive at the introduction to the role of psychology in health. 2: Understand the nature of stress and coping 3: Understand various factors related to health and diseases. 4: Understand quality of life and promoting the good health.
BA Psychology	POSITIVE PSYCHOLOGY	24223	<ol style="list-style-type: none"> 1. Understand how the positive psychology as the science of happiness, human strengths, positive aspects of human behavior and 'psychology of well-being.' 2. How we lead our lives, find happiness and satisfaction, and face life's challenges. 3. How positive psychology has become an evolving mosaic of research and theory from many different areas of psychology.

BA Psychology	INDUSTRIAL AND ORGANIZATIONAL PSYCHOLOGY	35223	<ol style="list-style-type: none"> 1: Describe the concept of industrial and organizational psychology, selection and training, evaluation and motivation at workplace. 2: Explain job profile, job analysis, recruitment techniques and employee training. 3: Identify and classify the appraisal rating system. 4: Compare different theories of motivation. 5: Evaluate the training programme and job performance.
BA Psychology	APPLIED PSYCHOLOGY	36223	<ol style="list-style-type: none"> 1: Describe the concept of applied psychology, educational psychology, family structure and developmental patterns. 2: Know the clinical psychology related mechanisms, social issues, and criminal behavior. 3: Classify the intellectual ability, abnormality, criminal behavior. 4: Identify the problems and solutions in the field of education, 5: Evaluate the interpersonal relations. 6: Apply psychological remedies to assess abnormal behaviour, to tackle the social issues and to rectify the problematic behaviour.
BCom Business Administration	Business Economics (Micro) -I	113	<ul style="list-style-type: none"> • Meaning, nature & scope of business economics will be given to all students. • Understanding of basic concept of micro economics
BCom Business Administration	Business Economics (Micro)-II	123	<ul style="list-style-type: none"> • Students will learn to analyze demand & supply its determinants. • Analysis of market structure & pricing under the same Remunerative structure of different factors of production will be studied.
BCom Business Administration	Business Economics(Macro) -I	233	<ul style="list-style-type: none"> • Information over Meaning nature & scope of macro economics. • Students will learn to calculate National income & its importance. • Use of money its functions and value of its value Analysis of trade cycles and their occurrence after certain specified period will be studied by students
BCom Business Administration	Business Economics (Macro)-II	243	<ul style="list-style-type: none"> • Learning the evolution of different Employment theories. • Information Public finance and its policy approached will be given to students.
BCom Business Administration	International Economics-I	353-B	<ul style="list-style-type: none"> • On successful completion of this course the student are enabled with the Knowledge in Classical and Modern Theories of International Trade. • After the successful completion of the course the student should have a thorough knowledge on the Gains from International Trade & Concepts of Terms of Trade other allied aspects.
BCom Business Administration	International Economics-II	363-B	<ul style="list-style-type: none"> • On successful completion of this course, the student should be well versed in the concepts, tools and principles in the field of International Economics. • On successful completion of this subject the students have the ability to understand the functions of WTO, GATT & other institutions.

BCom Marketing Management	F.Y.B.Com. Compulsory English I	111	<p>1. To offer relevant and practically helpful pieces of prose and poetry to students so that they not only get to know the beauty and communicative power of English but also its practical application</p> <p>2. To expose the students to a variety of topics that dominate the contemporary socio-economic</p>
BCom Marketing Management	F.Y.B.Com. Compulsory English II	121	<p>1. To develop overall linguistic competence and communicative skills of the students</p> <p>2. To develop oral and written communication skills of the students so that their employability</p>
BCom Marketing Management	F.Y.B.Com. Additional English I	117-A	<p>1. To expose students to a good blend of old and new literary extracts having various themes that are entertaining, enlightening and informative so that they realize the beauty and communicative power of English</p> <p>2. To make students aware of the cultural values and the major problems in the world today</p> <p>3. To develop literary sensibilities and communicative abilities among the students</p>
BCom Marketing Management	F.Y.B.Com. Additional English -II	127-A	<p>1. To expose students to a good blend of old and new literary extracts having various themes that are entertaining, enlightening and informative so that they realize the beauty and communicative power of English</p> <p>2. To make students aware of the cultural values and the major problems in the world today</p> <p>3. To develop literary sensibilities and communicative abilities among the students</p>
BCom Marketing Management	Financial Accounting	112 and 122	<p>1) Knowledge aim: After studying this course students can understand wide variety of practical problems, basic concept, Accounting Standards, and financial Statements, and to create awareness about the subject.</p> <p>2) Competence aim: Students can able to apply the knowledge of the subject of Financial Accounting.</p>
BCom Marketing Management	Consumer Protection & Business Ethics	116D & 126D	<p>1) Knowledge Aim: Learning Consumer Protection & Business Ethics at F.Y.B.Com level will help to understand the basics concepts of consumer protection & movements of consumer organization its functions & Redressed from of consumer organization. As well as They got the knowledge various laws of consumer protection Act extra-RTI, competition Act & food safety & standard Act 2005 etc.</p> <p>2) Competence aims: The study of Consumer Protection & Business Ethics is useful to understand the various laws of consumer. Act & also to develop business Ethics, social, ethics & management Ethics.</p>
BCom Marketing Management	Marketing And Salesmanship	116C and 126C	<p>1) Knowledge aim: After studying this course students can understand evolution of these subjects and also to create awareness about the subject and also interrelationship between marketing and salesmanship.</p> <p>2) Competence aim: Students can able to apply the knowledge of the subject of Marketing and Salesmanship</p>

BCom Marketing Management	Organizational skill Development	115A and 125A	1)Knowledge aim: After studying this course students can understand evolution of these subjects and also to create awareness about the subject and also interrelationship with Organizational skill Development. 2)Competence aim: Students can able to apply the knowledge of the subject of Organizational skill Development
BCom Marketing Management	Banking and Finance	115B & 125B	1)Knowledge aim: After studying this course students can understand evolution of these subjects and also to create awareness about the subject and also interrelationship with Banking and Finance 2)Competence aim: Students can able to apply the knowledge of the subject of Banking and Finance
BCom Marketing Management	Business Communication	231 & 241	1)Knowledge Aim: learning Business Communication at S.Y.B.Com level will help to understand the basics concepts of communication barriers to communication & reveries, channels of communication, soft skill, drafting various types of business letters & job application letter & social media of network & new technologies in communication. 2) Competence aims : To study of Business Communication is useful to understand the concept of soft skill means grooming manners etiquettes, effective spacing, interview skills listening G.D & oral presentation communication improve the students behavior. 3) Skills: Student will able to solve each problem regarding business, also able to developed their personals knowledge skills
BCom Marketing Management	Business Management	234 &244	1)Knowledge aim: Learning of Business Management at S.Y.B.Com level will help to understand the management keys, the need of management study, management skills, planning of management motivation, leadership, coordination & controlled & recent trends in Business management means business ethics social responsibilities, disasters management & changes in management. 2)Competence aim: To study of Business Management is useful to understand basic techniques of management & way the management is imp in modern edge as well as students will able to handle the problems related to disasters management. 3) Skills: Students will able to solve the problems related to management stuffing motivation,
BCom Marketing Management	Elements of Company Law	235 & 245	1)Knowledge aim: After studying this course students can understand evolution of the subjects and their interrelationship. Students can describe of the subject of Elements of Company Law and its importance. This subject is important for improving the knowledge of Company Law and useful for future Development of the students. 2)Competence aim: Students can able to apply Elements of Company Law And its rules and regulation. 3)Skills: The student can think about this subject and also understand overview about company

BCom Marketing Management	Corporate Accounting	232 & 242	<p>1) Knowledge aim: learning the Corporate Accounting at S.Y.B.Com level will help to understand the & Corporate Accounting & provisions of Company's Act. Student's commerce acquires the knowledge of computerized accounting and align standard.</p> <p>2) Competence aims: To know allaying standard 5,6,10, 14 & 21 & its examples. To solve the problems of co. final also Co liquidation, Amalgamation, Holding co, & also computation practices.</p>
BCom Marketing Management	Business Administration I	236A & 246A	<p>1)Knowledge aim: Learning Business Administration at S.Y.B.Com level will help to understand the basic knowledge of business, trade & Industry. Business organization business Environment legal aspects, productivity & recent trends in business management</p> <p>2)Competence aim: The study of Business Administration is very useful to understand the various information about business & legal aspect of business. Student will able to use the business information for their own business</p> <p>3)Skills: Student will able to use the legal aspects while establishing their own business. (Like licensing, registration, filling returns and other document & some important legal provision.</p>
BCom Marketing Management	Marketing Management I	236H & 246H	<p>1) Students will understand marketing management its scope and functions.</p> <p>2) Students will learn about marketing strategy, its significance, and its formulation.</p> <p>3) Students will get acquainted of steps in marketing planning and marketing management.</p> <p>4) Students will know the marketing research, its Scope, Procedure and can distinguish between marketing research and marketing information.</p>
BCom Marketing Management	Business Regulatory framework	351 and 361	<p>1) Knowledge aim: Learning Business Regulatory framework Work at T.Y.B.Com level will help to understand the basic concepts terms & provisions of mercantile & business laws. Then student develop the awareness regarding the laws affecting on business trade and commerce.</p> <p>2)Competence aim: The study of Business Regulatory framework is very useful to turn the legal aspect while doing the business. They can use the detail knowledge of e-commerce, intellectual property rights, negotiable instrument Act.</p> <p>3)Skills: Student learned to use all legal concepts while doing the job or business. (For ex- e-commerce, intellectual property rights, negotiable instrument Act related to bank or business</p>
BCom Marketing Management	Auditing and Taxation	354 and 364	<p>1)Knowledge aim: After studying this course students can understand evolution of the subjects and their interrelationship. Students can describe of the subject of Auditing and Taxation and its importance. This subject is improving the knowledge of Auditing and Taxation and useful for future Development of the students.</p> <p>2)Competence aim: Students can able to apply auditing and taxation and its rules and regulation.</p>
BCom Marketing Management	Advanced Accounting	352 and 362	<p>1)Knowledge aim: After studying this course students can understand wide verity of practical problems, basic concept, Accounting Standards and financial Statements, and also to create awareness about the subject.</p> <p>2)Competence aim: : Students can able to apply the knowledge of the subject of Advanced Accounting.</p>

BCom Marketing Management	Business Administration II	356 A and 365 A	<p>1) Knowledge aim: By learning this subject T.Y.B.Com level student can become aware of basic concept of Human Resource Development, recruitment, training career planning, performance appraisal. As well as nature of marketing function of a business enterprises.</p> <p>2)Competence aim: After getting the knowledge of Business Administration II student can develop their business related to human resources, for the recruitment and performances.</p> <p>3)Skills: Student will able to use all concepts while recruiting the man power in the job and, they can use marketing skills and modern trends.</p>
BCom Marketing Management	Business Administration III	356 A and 366 A	<p>1)Knowledge aim: By Learning Business Administration III at T.Y.B. com level will help to acquaint the student basic concepts in finance and production function of a business enterprise.</p> <p>2)Competence aim : After getting the knowledge of Business Administration students can learn Financial planning and capitalization or they can use their knowledge where they were worked.</p> <p>3)Skills: Student will able to use all concepts of finance and production, material handling while they were in jobs or business. Students will understand the handling and rearing of animals and can get information about instruments or appliance used in various industries such as Apiary</p>
BCom Marketing Management	Marketing Management II	355 H and 365 H	<p>1)Knowledge aim. After studying this course students can understand evolution of these subjects and also to create awareness about the subject and also understand its Philosophy and general Ideas for marketing research and to develop an analytical ability to plan for various marketing strategy and management of marketing</p> <p>2)Competence aim: Students can able to apply the knowledge of the subject of Marketing Management.</p>
BCom Marketing Management	Marketing Management - III	356 H and 366 H	<p>1. To introduce the concept of advertising and advertising media.</p> <p>2. To provide the students the knowledge about appeals and approaches in advertisement.</p> <p>3. To acquaint the students to the economic ,social and regulatory aspects of advertising.</p> <p>4. To make the student understand the role of Brand Management in marketing.</p> <p>5. To enable the students to apply this knowledge in precise by enhancing their skills in the field</p>
BSc Botony	Plant life and utilization-I	BO-111	<p>1. Understand the difference between higher cryptogams and lower cryptogams</p> <p>2.knowledge of different types of lichen.</p> <p>3.understand economic importance of bryophtes.</p>
BSc Botony	Plant morphology and Anatomy	BO-112	<p>1: Know the various concepts and methods in taxonomy.</p> <p>2: Know the various parts of flowers.</p> <p>3: Understand the types of fruits.</p>
BSc Botony	BOTANY PRACTICAL -III	BO-113	<p>1. Study of life cycle of Spirogyra, Agaricus and Riccia.</p> <p>2.Study of Lichens and its types.</p> <p>3. Practical knowledge of mushroom cultivation.</p>

BSc Botony	Plant life and Utilization-II	BO-121	CO1: Know the evolutionary trends and affinities of living gymnosperms with respect to external and internal features CO2: Know the economic importance of the gymnosperm and angiosperms.
BSc Botony	Principles of plant science	BO122	CO1: Understand the process of translocation of solutes in plants. CO2: Understand the factors affecting growth of plants. CO3: Know the cell cycle process in plants. CO4: Learn the Structure and types of DNA and RNA.
BSc Botony	BOTANY PRACTICAL-III	BO-123	CO1: Demonstrate structure of Dicotyledonous and Monocotyledonous plants CO2: Observe characteristic features of prokaryotic and eukaryotic plant cell. CO3: Preparation of slides using onion root tips. CO4: Study about chlorophyll-a and chlorophyll-b.
BSc Botony	Taxonomy of Angiosperms and Plant Ecology ,SEME-III	BO-231	CO1: Trace the history of development of systems of classification emphasizing angiosperm taxa. CO2: Understand various rules, principles and recommendations of plant nomenclature produces in plant identification. CO3: Learn and understand about interdisciplinary approach of ecology. CO4: Understand ecological grouping of the plants.
BSc Botony	Plant Physiology PAPER-II	BO 232	CO1: Understand the process of translocation of solutes in plants CO2: Know the nitrogen metabolism and its importance. CO3 :Know about Phytohormones and Vernalization in plants.
BSc Botony	BO-232 PAPER-III	Practical Based on BO231 & BO232	CO1: Know the morphological and reproductive characters of plant family. CO2: Study about ecological adaptations in Hydrophytes and Xerophytes. CO3: Demonstration of various instruments.
BSc Botony	Plant Anatomy and Embryology	BO 241 SEME-IV	CO1: Know Epidermal tissue system and Mechanical tissue system. CO2: Understand the Microsporangium and male gametophyte. CO3: Understand the Megasporangium and female gametophyte.
BSc Botony	Plant Biotechnology	BO 242	CO1: Understand the principle and basic protocols for Plant Tissue Culture. CO2: Know about the Genetic Engineering. CO3: Know about the Biofuel technology.

BSc Botony	Practical based on BO 241 & BO 242	BO 243	CO1: Understand various plant tissues. CO2: Study the preparation of permanent slide. CO3: Understand the Preparation & sterilization of MS medium. CO4: Study about transgenic crops.
BSc Botony	Principles of plant science PAPER-II	BO-122	CO1: Understand the process of translocation of solutes in plants. CO2: Understand the factors affecting growth of plants. CO3: Know the cell cycle process in plants. CO4: Learn the Structure and types of DNA and RNA.
BSc Chemistry	Ordinary Differential Equations	MT 335	CO1. To understand the genesis of ordinary differential equations. CO2. To learn various techniques of getting exact solutions of solvable first order differential equations and linear differential equations of higher order. CO3. To grasp the concept of a general solution of a linear differential equation of an arbitrary order and also learn a few methods to obtain the general solution of such equation
BSc Chemistry	Physical Chemistry-I	CH-501	1. Understand and explain the differences between classical and quantum mechanics. 2. Understand the idea of wave function. 3. Understand the meaning of electrical polarization of molecule, induced and orientation polarization. 4. Electromagnetic spectrum, Nature of wave and its characteristics such as wavelength, wave number, frequency and velocity, Energy level diagram.
BSc Chemistry	Analytical Chemistry -I	CH-502	1. Define basic terms in gravimetry, spectrophotometry, qualitative analysis and parameters. analysis. Such as: Gravimetry, precipitation, solubility product, ionic product, common ion effect, precipitating agent. 2. Explain different principles involved in the gravimetry, spectrophotometry, parameters in instrumental, analysis, qualitative analysis.
BSc Chemistry	Physical Chemistry Practical-I	CH-503	1. To determine the specific refractivity's of the given liquids A and B and their 2. Mixture and hence determine the percentage composition their mixture. 3. To titrate Cu^{2+} ions with EDTA photometrically. 4. To determine the indicator constant of methyl red indicator.

BSc Chemistry	Inorganic Chemistry-I	CH-504	<ol style="list-style-type: none"> 1. Able to explain Nephelauxetic effect towards covalent bonding. 2. Explain MOT of Octahedral complexes with sigma bonding. 3. To understand about inert and labile complexes and stability of complexes in aqueous solutions.
BSc Chemistry	Industrial Chemistry	CH-505	<ol style="list-style-type: none"> 1. Meaning of the terms involved. 2. Comparison between batch and continuous process. 3. Their uses and manufacturing process. 4. They should also know the physico-chemical principals involved in manufacturing process.
BSc Chemistry	Inorganic Chemistry -Practical I	CH-506	<ol style="list-style-type: none"> 1. Gravimetric estimation of Ba as BaSO₄ using homogeneous precipitation method. 2. Analysis of sodium bicarbonate from mixture by thermal decomposition method. 3. Preparation of hexamminenickel(II) chloride, [Ni (NH₃)₆]Cl₂. 4. Preparation of Potassium trioxalatoferrate(III), K₃[Fe(C₂O₄)₃].
BSc Chemistry	Organic Chemistry-I	CH-507	<ol style="list-style-type: none"> 1. Define and classify polynuclear and hetroonuclear aromatic hydrocarbons. 2. Write the structure, synthesis of polynuclear and hetroonuclear aromatic hydrocarbons. 3. Synthetic applications ethyl acetoacetate and malonic ester. 4. To write the mechanism of some named rearrangement reactions and their applications
BSc Chemistry	Chemistry of Biomolecules	CH-508	<ol style="list-style-type: none"> 1. The student will understand the types of carbohydrates and their biochemical significance in living organisms, structure of carbohydrates and reactions of carbohydrates with Glucose as example. 2. Types of proteins. Structural features in proteins. Effect of pH on structure of amino acid.
BSc Chemistry	Organic Chemistry Practical -I	CH-509	<ol style="list-style-type: none"> 1. Perform the quantitative chemical analysis of binary mixture, explain principles behind it. 2. Learn the confirmatory test for various functional groups. 3. Synthesis of various organic compounds through greener approach.
BSc Chemistry	Polymer Chemistry	CH-510B	<ol style="list-style-type: none"> 1. The students are expected to learn the following aspects of Polymer Chemistry: 1) History of polymers. 2) Difference between simple compounds and polymer. 2. Mechanisms of polymerization. 3. Polymerization techniques

BSc Chemistry	Environmental Chemistry	CH-511A	<ol style="list-style-type: none"> 1. Develop a qualitative and quantitative understanding of the major chemical processes involved in Earth systems. 2. Use standard chemistry measurement and conversion methods. 3. Describe matter in terms of chemical composition, on elemental and molecular levels 4. Understand basic chemical models that define chemical processes and describe
BSc Chemistry	Physical Chemistry-II	CH-601	<ol style="list-style-type: none"> 1. Thermodynamic conditions of reversible cell, Explanations of reversible and irreversible Electrochemical cell with suitable example. 2. EMF of electrochemical cell and its measurement. 3. Distinguish between crystalline and amorphous solids / anisotropic and isotropic solids.
BSc Chemistry	Physical Chemistry-III	CH-602	<ol style="list-style-type: none"> 1. Meaning of the terms-Solution, electrolytes, nonelectrolytes and colligative properties 2. Lowering of vapour pressure of solvent in solution, 3. Applying rate laws for solid state reactions.
BSc Chemistry	Physical chemistry Practical -II	CH-603	<ol style="list-style-type: none"> 1. To determine the dissociation constant of oxalic acid by pH-metric titration with strong base. 2. Determination of Pka of given weak acid by pH metry titration with strong base.
BSc Chemistry	Inorganic Chemistry -II	CH-604	<ol style="list-style-type: none"> 1. Student should also read about the interaction of different organic ligands with metals and their possible bonding. 2. Understand M-C bond and to define organometallic compounds.
BSc Chemistry	Inorganic Chemistry-III	CH-605	<ol style="list-style-type: none"> 1. Student will learn the concept of acid base and their theories. 2. They will also come to know different properties of acids and bases. 3. Be able to solve simple problems based on Born- Haber cycle.
BSc Chemistry	Inorganic Chemistry Practical-II	CH-606	<ol style="list-style-type: none"> 1. Analysis of Phosphate (PO_4^{3-}) from Fertilizer. 2. Estimation of Na by flame photometry by calibration curve method. 3. Estimation of Na by flame photometry by calibration curve method.
BSc Chemistry	Organic Chemistry-II	CH-607	<ol style="list-style-type: none"> 1. Students will learn the principle of mass spectroscopy, its instrumentation and nature of mass of spectrum. 2. Students will understand the principle of UV spectroscopy and the nature of UV spectrum. They will learn types of electronic excitations. 3. Students will understand the principle of IR spectroscopy, types of vibrations and the nature of

BSc Chemistry	Organic Chemistry-III	CH-608	<ol style="list-style-type: none"> 1. Students will understand the retrosynthetic application. 2. Students will understand the organic reaction and synthetic application. 3. Students will understand the organic synthesis.
BSc Chemistry	Organic Chemistry Practical -II	CH-609	<ol style="list-style-type: none"> 1. Explain "fingerprint region" of an infrared spectrum can be used in the identification of an unknown compound. 2. Identify the functional group or groups present in a compound.
BSc Chemistry	Chemistry of Analytical Chemistry -II	CH-611A	<ol style="list-style-type: none"> 1. Explain different principles involved in gravimetry, spectrophotometry, parameters in instrumental analysis, qualitative analysis. 2. Perform quantitative calculations depending upon equations studied in the theory. Furthermore, student should be able to solve problems on the basis of theory.
BSc Chemistry	Chemistry of Soil And Agrochemicals	CH-610A	<ol style="list-style-type: none"> 1. This course will impart knowledge on the concepts and methods of soil resource inventory. 2. Understand the early and modern concepts of soil classification. 3. Understand the methods and types of soil survey and soil maps. 4. Imparts knowledge on interpretative groupings and land use planning.
BSc Chemistry	Physical Chemistry	CH-101	<ol style="list-style-type: none"> 1. Students will be able to apply thermodynamic principles to physical and chemical processes. 2. Concept of ionization process occurring in acids, bases and pH scale. 3. Related concepts such as common ion effect, hydrolysis constant, ionic product, solubility product.
BSc Chemistry	Organic Chemistry	CH-102	<ol style="list-style-type: none"> 1. The students are expected to understand the fundamentals, principles, and recent developments in the subject area. 2. It is expected to inspire and boost the interest of the students towards chemistry as their main subject.
BSc Chemistry	Chemistry Practical-I	CH-103	<ol style="list-style-type: none"> 1. Importance of chemical safety and lab safety while performing experiments in the laboratory. 2. Determination of thermochemical parameters and related concepts. 3. Techniques of pH measurements. 4. Preparation of buffer solutions. 5. Elemental analysis of organic compounds (non-instrumental).
BSc Chemistry	Inorganic Chemistry	CH-201	<ol style="list-style-type: none"> 1. Various theories and principles applied to reveal atomic structure. 2. Origin of quantum mechanics and its need to understand the structure of the hydrogen atom. 3. Describe the stability of half-filled and completely filled orbitals. 4. Discuss the concept of exchange energy and relative energies of atomic orbitals.

BSc Chemistry	Analytical Chemistry	CH-202	<ol style="list-style-type: none"> 1. Analytical Chemistry –branch of chemistry. 2. Perspectives of analytical Chemistry. 3. pH meter and electrodes for pH measurement. 4. Measurement of pH. 5. Working of pH meter.
BSc Chemistry	Chemistry Practical -II	CH-203	<ol style="list-style-type: none"> 1. Inorganic Estimations using volumetric analysis. 2. Synthesis of Inorganic compounds. 3. Analysis of commercial products. 4. Purification of organic compounds.
BSc Chemistry	Physical and Analytical Chemistry	CH-301	<ol style="list-style-type: none"> 1. Apply the methods of expressing the errors in analysis from results. 2. Explain / discuss different terms related to errors in quantitative analysis. 3. Classification of Adsorption Isotherms, to derive isotherms. 4. Apply adsorption process to real life problem.
BSc Chemistry	Inorganic and organic Chemistry	CH-302	<ol style="list-style-type: none"> 1. Define terms related to molecular orbital theory (AO, MO, sigma bond, pi bond, bond order, magnetic property of molecules, etc). 2. Explain and apply LCAO principle for the formation of MO's from AO's. 3. Give the mechanism of reactions involved. 4. Explain /Discuss important reactions of aromatic hydrocarbon. 5. To correlate reagent and reactions.
BSc Chemistry	Chemistry Practical -III	CH-303	<ol style="list-style-type: none"> 1. Verify theoretical principles experimentally. 2. Interpret the experimental data on the basis of theoretical principles. 3. Correlate theory to experiments. Understand/verify theoretical principles by experiment observations; explain practical output / data with the help of theory.
BSc Chemistry	Physical and Analytical Chemistry	CH-401	<ol style="list-style-type: none"> 1. Explain meaning and Types of equilibrium such as true or static, metastable and unstable equilibrium. 2. Discuss meaning of phase, component and degree of freedom. 3. Derive distribution law and its thermodynamic proof. 4. Apply solvent extraction to separate the components of from mixture interest. 5. Solve problem by applying theory.
BSc Chemistry	Inorganic & Organic Chemistry	CH-402	<ol style="list-style-type: none"> 1. Explain principle of CFT. 2. Apply crystal field theory to different type of complexes (Td, Oh, Sq. Pl complexes) 3. Explain: i) strong field and weak field ligand approach in Oh complexes ii) Magnetic properties of coordination compounds on the basis of weak and strong ligand field ligand concept. iii) Origin of colour of coordination complex. 4. Correlate reagent and reactions of carboxylic acids and their derivatives 5. Give synthesis of expected carboxylic acids and their derivatives. 6. Perform inter conversion of functional groups.

BSc Chemistry	Chemistry Practical -IV	Ch-403	<ol style="list-style-type: none"> 1. Verify theoretical principles experimentally 2. Interpret the experimental data on the basis of theoretical principles. 3. Correlate the theory to the experiments. Understand / verify theoretical principles by experiment or explain practical output with the help of theory. 4. Understand systematic methods of identification of substance by chemical methods. 5. Write balanced equation for all the chemical reactions performed in the laboratory.
BSc Geography	GG 111 -Introduction to Physical Geography - I (Geomorphology)	11181	<ol style="list-style-type: none"> 1. To introduce the students to the basic concepts in Geomorphology. 2. To acquaint the students with the utility and applications of Geomorphology in different areas and environment.
BSc Geography	GG 112 - Introduction to Physical Geography - II (Geography of Atmosphere and Hydrosphere)	11182	<ol style="list-style-type: none"> 1. To introduce the students to the basic principles and concepts in Climatology and Oceanography. 2. To acquaint the students with the applications of Climatology and Oceanography in different areas and environment.
BSc Geography	GG 113- Practicals in Physical Geography	11183	<ol style="list-style-type: none"> 1. To acquire the knowledge of various techniques in Physical Geography. 2. To enable the student to use techniques of specific maps and their geographical interpretation. 3. To acquaint the students with the weather instruments and their utility and applications in geographical phenomena.
BSc Geography	GG 121-Introduction to Human Geography	12181	<ol style="list-style-type: none"> 1. To understand the basic concept of Human Geography. 2. To introduction of the basic concepts in Population Geography. 3. To understand the types of Population data.
BSc Geography	GG 122- Population and Settlement Geography	12182	<ol style="list-style-type: none"> 1. To understand the history of population. 2. To introduction of the basic concepts in Population Geography. 3. To understand the types of Population data. 4. To understand the types and structure of settlement.
BSc Geography	GG 123- Practical in Human Geography	12183	<ol style="list-style-type: none"> 1. To acquire the knowledge of various techniques in human geography 2. To enable the students to use techniques of specific maps and their geographical interpretation.
BSc Mathematics	Metric Space	MT-331	<p>CO1. To understand the introductory concepts of metric spaces;</p> <p>CO2. Correlate these concepts to their counter parts in modern analysis by studying examples;</p> <p>CO3. Learn to analyze mappings between spaces.</p> <p>CO4. Attain background for advanced courses in real analysis, functional analysis, and topology.</p> <p>CO5. Appreciate the abstractness of the concepts such as open balls, closed balls, compactness, connectedness etc. beyond their geometrical imaginations.</p>

BSc Mathematics	Real Analysis - I	MT-332	<p>CO1. To learn the basic facts in logic and set theory</p> <p>CO2.To learn to define sequence in terms of functions from \mathbb{N} to a subset of \mathbb{R} and to understand several properties of the real line.</p> <p>CO3.To recognize bounded, convergent, divergent, Cauchy and monotonic sequences and to calculate their limit superior, limit inferior, and the limit of a bounded sequence.</p> <p>CO4.To use the ratio, root, alternating series and limit comparison tests for convergence and absolute convergence of an infinite series of real numbers.</p>
BSc Mathematics	Group Theory	MT-334	<p>CO1. To recognize the mathematical objects that are groups, and classify them as abelian, cyclic and permutation groups etc.</p> <p>CO2.To analyze consequences of Lagrange's theorem</p> <p>CO3.To learn about structure preserving maps between groups and their consequences.</p> <p>CO4.To explain the significance of the notion of cosets, normal subgroups, and factor groups.</p>
BSc Mathematics	Operations Research	MT 337 A	<p>CO1. Analyze and solve linear programming models of real-life situations.</p> <p>CO2.The graphical solution of LPP with only two variables, and illustrate the concept of convex set and extreme points. The theory of the simplex method is developed.</p> <p>CO3.The relationships between the primal and dual problems and their solutions with applications to transportation, assignment and two-person zero-sum game problem.</p>
BSc Mathematics	Laplace Transform and Fourier series	MT-356 (C)	<p>CO i) Students will be able to know the use of Laplace transform in system modeling, digital signal processing, process control.</p> <p>CO ii) Students will Solve an initial value problem for an nth order ordinary differential equation using the Laplace transform.</p> <p>CO iii) They will find the Fourier series representation of a function of one variable</p>
BSc Mathematics	Programming in Python –I	MT -3510:	<p>Course Learning Outcomes: At the end of the course:</p> <ol style="list-style-type: none"> 1. The student will be able to explain basic principles of Python programming language. 2. The student will implement object oriented concepts.

BSc Mathematics	LaTeX for Scientific writing	MT-3511	After studying this course the student will be able to: CO1. Write a simple LaTeX input document based on the article class. CO2. Turn the input document into pdf with the pdf latex program. CO3. Format Words, Lines, and Paragraphs. CO4. Understand how to present data using tables.
BSc Mathematics	Complex Analysis:	MT 341	CO1. Understand the significance of differentiability of complex functions leading to the understanding of Cauchy-Riemann equations. CO2. Evaluate the contour integrals and understand the role of Cauchy-Goursat theorem and the Cauchy integral formula. CO3. Expand some simple functions as their Taylor and Laurent series, classify the nature of singularities, find residues and apply Cauchy Residue theorem to evaluate integrals. CO4. Represent functions as Taylor, power and Laurent series, classify singularities and poles, find residues and evaluate complex integrals using the residue theorem.
BSc Mathematics	Real Analysis-II	MT 342	CO1. Some of the families and properties of Riemann integrable functions, and the applications of the fundamental theorems of integration. CO2. Beta and gamma functions and their properties. CO3. Recognize the difference between pointwise and uniform convergence of a sequence of functions. CO4. Illustrate the effect of uniform convergence on the limit function with respect to continuity, differentiability, and integrability.
BSc Mathematics	Ring Theory	MT 363	CO1. The fundamental concept of Rings, Fields, subrings, integral domains and the corresponding morphisms. CO2. Learn in detail about polynomial rings, fundamental properties of finite field extensions, and classification of finite fields. CO3. Appreciate the significance of unique factorization in rings and integral domains.
BSc Mathematics	Partial Differential Equations	MT 364	CO1. Formulate, classify and transform partial differential equations into canonical form. CO2. Solve linear partial differential equations using various methods and apply these methods in solving some physical problems. CO3. Solve Laplace equations using various analytical methods demonstrate uniqueness of Solutions of certain kinds of these equations.

BSc Mathematics	Optimization Techniques	MT 365 (A)	CO1. Understand fundamentals of Network Analysis using CPM and PERT. CO2. Solve a sequencing Problem for various jobs and machines.
BSc Mathematics	Computational Geometry	MT- 366(B):	CO1. Construct algorithms for simple geometrical problems. CO2.Characterize invariance properties of Euclidean geometry by groups of transformations. CO3. Describe and construct basic geometric shapes and concepts by computational means.
BSc Mathematics	Programming in Python – II	MT-3610	CO1. Demonstrate the use of Python in Mathematics such as operations research and computational Geometry etc. CO2. Study graphics and design and implement a program to solve a real world problem. CO3. The students will implement the concepts of data with python and database connectivity.
BSc Mathematics	: Mathematics into LaTeX	MT-3611	After studying this course the student will be able to: CO1. Typeset mathematical formulas, use nested list, tabular and array environments. CO2. Import figures and pictures that are stored in external files.
BSc Mathematics	Algebra	MT-111	CO1. To understand Sets, Relations, Equivalence Relations, Equivalence classes and partitions of a set , Functions, Basic terminology, Types of Functions, Inverse of a Function, Composition of Functions . CO2: To understand the Divisibility Theory in the Integers CO3: To understand the Complex number and Sums and Products, Basic Algebraic Properties, Moduli, Complex Conjugates, Exponential form, Products and Quotients, De-Moivre's theorem. Roots of Complex Numbers: The nth roots of unity.
BSc Mathematics	Analytic Geometry	MT-121	CO1: To understand Analytical Geometry of Two Dimension and their different types CO2: To understand plane and different properties of planes. CO3: To understand Equations of a line in Symmetric and unsymmetrical forms, Line passing through two points, Angle between a line and a plane. Perpendicular distance of a point from a plane, Condition for two lines to be coplanar.
BSc Mathematics	Calculus I	MT 112	CO1: The Algebraic and Order Properties of R, Absolute Value and the Real Line, Completeness Property of R Definitions of Upper bound, Lower bound, supremum, infimum of subsets of R, completeness property of R, Applications of the Supremum Property CO2: To study the Sequences and Their Limits, Limits Theorems, Algebra of limits .Monotone Sequence, Subsequences and Bolzano -Wierstrass Theorem

BSc Mathematics	Calculus II	MT 122	CO1: To study Limit and Continuity and theorems and problem related to them CO2: To study differentiation and their theorems, L' Hospital Rule and Successive Differentiation Ordinary Differential Equations and Exact differential equation and methods of solving it.
BSc Mathematics	Calculus of Several Variables :	MT-231	CO1: To study definition of limit and continuity and examples related to it. CO2: To study Partial Derivatives and Differentiability its Definition and examples, Higher Derivatives, Clairaut's Theorem, Partial Differential Equations, Wave equation. CO3: To understand Extreme values of functions of two variables, Necessary conditions for extreme values Second Derivative Test, Lagrange Multipliers. CO4: To study Multiple Integrals, Iterated Integrals, Fubini's Theorem, Double integral over general regions, Change of order of integration for two variables, double integral in Polar coordinates. Triple integrals, Evaluation of triple integrals. Triple integrals in spherical coordinates Jacobians, Change of variables in multiple integrals.
BSc Mathematics	: Numerical Methods and It's Applications	MT-232(A)	CO1: To learn about Solution of Algebraic and Transcendental Equations, Errors and their computations Bisection method. The method of false position and Newton- Raphson method CO2: To study Interpolation Finite Difference Operators and their relation, Differences of a polynomial, Newton's Interpolation Formulae Lagrange's Interpolation Formula. CO3: To study Numerical Differentiation and Integration, Numerical Integration, General quadrature formula. Trapezoidal rule. Simpsons' 1/3rd rule & 3/8th rule. CO4: Numerical solution of first order ordinary differential equation Taylor's Series method Picard's method of successive approximations , Euler's method., Modified Euler's methods &
BSc Mathematics	Graph Theory	MT-232(B)	CO1: To learn about Graph, Application of Graphs, Finite and Infinite Graphs, Incidence and Degree Isolated Vertex, Pendant Vertex and Null Graph. CO2: To study about Isomorphism Subgraphs Walks, Paths, and Circuits Connected Graphs, Disconnected Graphs, and Components Euler Graphs Operations on Graphs More on Euler Graphs Hamiltonian Paths and Circuits The Traveling Salesman Problem and Trees Trees and Fundamental Circuits and about Cut-Sets and Cut-Vertices
BSc Mathematics	Linear Algebra	MT-241	CO1: To study Matrices and System of Linear Equations CO2: To study Vector space and their Definition and Examples, Subspaces, Linear Dependence and Independence, Basis of Vector Space CO3: To learn about Dimension of a Vector Space Row, Column and Null Space of a matrix Rank and nullity. CO4: Linear Transformations, Definition and Examples, Properties, Equality, Kernel and range

BSc Mathematics	Vector Calculus	MT 242(A)	<p>CO1: To study Vector-Valued Functions, Curves in Space, Limits and Continuity, Derivatives and Motion, Differentiation, Rules for Vector Function, Vector Functions of Constant Length.</p> <p>CO2: To learn about integrals and Path Independence, Conservative and Potential Functions. Divergence, two forms for Green's Theorem, Green's Theorem in the Plane</p> <p>CO3: To study Surface Integrals, Parameterizations of Surfaces, and Implicit surfaces.</p> <p>CO4: To study Applications of Integrals, the Curl Vector Field, Stokes' Theorem, Conservative Fields and Stokes' Theorem.</p>
BSc Mathematics	Dynamical Systems	MT 242(B)	<p>CO1: To study to find Eigenvalues and Eigenvectors and First-Order Equations and Planar Linear Systems</p> <p>CO2: To learn about Phase Portraits for Planar Systems Real Distinct Eigenvalues, Complex Eigenvalues, Repeated Eigenvalues, Changing Coordinates and about Classification of Planar Systems and Exponential of a matrix</p>
BSc Physics	Mathematical Methods in Physics	PHY-231	<p>CO1: Define the basic operation in complex numbers</p> <p>CO2: Explain graphical representation of complex numbers and calculate roots of complex numbers.</p> <p>CO3: Solve partial differential equations in Physics.</p> <p>CO4: Discuss vector algebra required in Physics.</p> <p>CO5: Define and calculate the gradient, divergence and curl of a field;</p> <p>CO6: Define order, degree and homogeneity of ordinary differential equation;</p> <p>CO7: Explain singular points of ordinary differential equation;</p>
BSc Physics	Oscillations, Waves, and Sound	PHY-241	<p>CO1: Define periodic and oscillatory motion;</p> <p>CO2: Setup and solve differential equations of motion for simple harmonic, damped, and forced oscillators;</p> <p>CO3: Describe oscillatory motion with graphs and equations, and use these descriptions to solve problems of oscillatory motion;</p> <p>CO4: Discuss phenomenon of resonance and apply in different applications;</p> <p>CO5: Set and solve differential equation for wave motion for longitudinal and transverse waves;</p> <p>CO6: Calculate the phase velocity, energy and intensity of simple harmonic waves;</p> <p>CO7: Discuss the Doppler effect, and predict in qualitative terms the frequency change that will occur for relative motion between source and observer or listener;</p> <p>CO8: Explain in qualitative terms how frequency, amplitude, and wave shape affect the pitch, intensity, and quality of tones produced by musical instruments.</p>

BSc Physics	Classical Mechanics:	PHY-353:	<p>CO1: Solve advanced problems involving the dynamic motion of classical mechanical systems with an intermediate knowledge of Newton's laws of motion</p> <p>CO2: Apply the concept of center of mass and mechanics of system of particles and conservation of energy, linear and angular momentum to solve dynamics problems</p> <p>CO3: Demonstrate an intermediate knowledge of central-force motion and the concept of converting two body problems to single body problem and apply advanced methods to complex central-force motion problems.</p> <p>CO4: Demonstrate an intermediate knowledge of concept of laboratory frame and center of mass frame and their use to calculate results of scattering experiments.</p> <p>CO5: Apply the concept scattering to get important information regarding the nature of interaction between atomic and subatomic particles through experiments</p> <p>CO6: Derive Lagrange and Hamilton's equations, and represent the equations of motion for simple mechanical systems such as: the Atwood's machine, Simple pendulum using these formulations of classical mechanics.</p> <p>CO7: Acquire working knowledge of the methods of Hamiltonian Dynamics and compute the Hamilton equations of motion for mechanical systems</p> <p>CO8: Use calculus of variations to find the Euler-Lagrange equations and canonical</p>
BSc Physics	Physics Workshop Skill	PHY-3511(K):	<p>CO1: Students become capable of conducting energy audits and give consultancy in that field.</p> <p>CO2: Students can design different types of solar heaters for small domestic as well as large scale community level applications.</p> <p>CO3: Students acquire skills to implement solar P-V systems at domestic levels as well as for office premises and educational institutions. Students become able to start their own enterprise in net metering.</p> <p>CO4: Students get ideas and hence become self-employed in the field of design , production, commissioning and implementation of bio-mass energy sources , bio-gas plants, gasifiers, wind mills, hybrid systems etc.</p> <p>CO5: Students can go for research in the fields of super-capacitors, battery technologies, fuel cells and material synthesis for implementation of these technologies.</p>
BSc Physics	Quantum Mechanics	PHY-362:	<p>CO1: Outline the historical aspects of development of quantum mechanics;</p> <p>CO2: Explain the differences between classical and quantum mechanics;</p> <p>CO3: Describe matter waves, wave function and uncertainty principle;</p> <p>CO4: Describe Schrodinger's equation and its steady state form;</p> <p>CO5: Solve Schrodinger's steady state equation for simple potentials to obtain Eigen functions and Eigen values</p> <p>CO6: Apply Schrodinger's steady state equation for spherically symmetric potentials obtain Eigen functions and eigenvalues;</p> <p>CO7: Interpret quantum numbers in atomic system;</p>

BSc Physics	Instrumentation for Agriculture	PHY-3611(Z):	CO1: Able to test soil and water parameters. CO2: Able to develop their own juice extract plant. CO3: Able to developed their own green house
BSc Physics	Physics Laboratory (Practical Course)	PHY-113 (1A)	CO1: Demonstrate an ability to collect data through observation and/or CO2: Acquire technical and manipulative skills in using laboratory equipment, tools and materials CO3: Experimentation and interpreting data. CO4: Demonstrate an understanding of laboratory procedures including safety, and scientific methods. CO5: Demonstrate a deeper understanding of abstract concepts and theories gained by experiencing and visualizing them as authentic phenomena.
BSc Physics	Physics Laboratory (Practical Course)	PHY-123 (1B):	CO1: Demonstrate an ability to collect data through observation and/or CO2: Acquire technical and manipulative skills in using laboratory equipment, tools and materials CO3: Experimentation and interpreting data. CO4: Demonstrate an understanding of laboratory procedures including safety, and scientific methods. CO5: Demonstrate a deeper understanding of abstract concepts and theories gained by experiencing and visualizing them as authentic phenomena.
BSc Physics	Physics Project-I	PHY-359:	CO1: Design and test hypothesis CO2: Describe the underlying theory of experiments in the course. CO3: Perform derivations of theoretical models of relevance for the experiments in the course. CO4: Document their results, using correct procedures and protocols. CO5: Perform a quantitative analysis of experimental data including the use of computational and statistical methods where relevant.
BSc Physics	Physics Project-II	PHY-369:	CO1: Design and test hypothesis CO2: Describe the underlying theory of experiments in the course. CO3: Perform derivations of theoretical models of relevance for the experiments in the course. CO4: Document their results, using correct procedures and protocols. CO5: Perform a quantitative analysis of experimental data including the use of computational and statistical methods where relevant.

BSc Physics	Mechanics and Properties of matter	PHY 111	<p>After successfully completing this course, the student will be able to.</p> <p>CO1: Demonstrate an intermediate knowledge of Newton's Laws and the equations of motion</p> <p>CO2: Analyze the forces on the object and apply them in calculations of the motion of simple systems using the free body diagrams</p> <p>CO3: Determine whether using conservation of energy or conservation of momentum would be more appropriate for solving a dynamics problem</p> <p>CO4: Apply the concepts of elasticity to real world problems.</p> <p>CO5: List fundamental forces in nature, applications and factors affecting surface tension.</p> <p>CO6: Define and conceptualize different laws of fluid mechanics and related quantities like steady, turbulent flow and concept of Reynolds number</p> <p>CO7: Demonstrate different applications of Bernoulli's theorem, laws of elasticity, surface tension.</p>
BSc Physics	Course: PHY-121: Heat and Thermodynamics	PHY-121	<p>After successfully completing this course, the student will be able to.</p> <p>CO1: Define laws of thermodynamics, entropy, thermodynamic processes etc.</p> <p>CO2: Describe Andrew's experiment, Amagat's experiment, Carnot engine, concept of entropy.</p> <p>CO3: Derive expression for efficiency of heat engine (Otto cycle, Diesel cycle, Carnot cycle), latent heat equation, adiabatic relations for perfect gas, work done during isothermal and adiabatic change.</p> <p>CO4: Determine critical constants using Vander Waal's gas equation, Reduced equation of state</p> <p>CO5: Compare reversible and irreversible processes, adiabatic and isothermal process,</p> <p>CO6: Illustrate that work is a path dependent function using PV diagram and to solve entropy for reversible and irreversible process.</p> <p>CO7: Apply first law of thermodynamics to solve problems. CO8: Categorize thermometers and state its applications</p>
BSc Physics	T.Y.B.Sc PH-335: C programming	PH-335	<p>After successful completion of the course the student will be able to:</p> <p>CO1: Define types of programming languages and their uses;</p> <p>CO2: Gain basic competency with a widely used C-language for both general and scientific programming;</p> <p>CO3: Define operators and expression in C-programming and navigate commands;</p> <p>CO4: Explain control statements and loops as well as capable of writing C-program to solve problems;</p> <p>CO5: Describe arrays and pointers and apply them in C program;</p> <p>CO6: Critically present different numerical methods to solve different types of physical and technical problems;</p>

BSc Physics	T.Y.B.Sc.PH-336 B: Material science	PH-336	<p>After successful completion of the course the student will be able to:</p> <p>CO1: Define and outline the rules of solubility, deformation in metals, basic concepts in phase diagram, molecular phases and the concept of smart materials.</p> <p>CO2: Explain the imperfections in solids, mechanism of plastic deformation by slip, properties of ceramic materials, the importance and objective of phase diagram.</p> <p>CO3: Calculate and solve problems on stress and strain of materials, CRSS of single phase metals, weight in percentage of compositions using lever rule.</p> <p>CO4: List the defects in solids, diffusion mechanisms and types of phase diagram.</p> <p>CO5: Classify between elastic deformation and plastic deformation, linear polymers and cross linked polymers.</p> <p>CO6: Derive the CRSS of metals and the lever rule for phase diagrams.</p> <p>CO7: Discuss the types of smart materials, properties of smart materials and their applications.</p>
BSc Physics	T.Y.B.Sc.PH-365 Electronics II	PH-365(A)	<p>After successful completion of the course the student will be able to:</p> <p>CO1: Define and state the meaning of terms such as amplification, voltage gain, line and load regulation, flip-flop, counters, register, distortion, multiplexer, de-multiplexer, etc.</p> <p>CO2: Draw and explain characteristics of various types of FET's and various types of diode and construct a circuit using these components according to application.</p> <p>CO3: Draw and explain block diagram of IC 723, IC555, OPAMP.</p> <p>CO4: Compare various types of semiconductor diode (LED, photodiode, etc.) types of multivibrator, types of power amplifier and types of three pin regulators (78XX,79XX, etc.) on the basis of working principle and application.</p> <p>CO5: Design and construct a circuit for amplifier, a-stable, mono-stable and bi stable multivibrator using IC555, low voltage and high voltage regulator using IC723, various types of flip-flop and counters.</p> <p>CO6: Use OPAMP (IC723) as an adder, subtractor, differentiator, integrator and comparator.</p> <p>CO7: Represent POS and SOP expression on K-map and design of half adder, full adder, half subtractor, full subtractor using K-map.</p> <p>CO8: Explain applications of LED, photodiode, varactor, power amplifiers, FET, UJT, counters,</p>

BSc Physics	Laser	PHY-366(R)	<p>After successful completion of the course the student will be able to:</p> <p>CO1: Describe the underlying theory of experiments in the course.</p> <p>CO2: Perform derivations of theoretical models of relevance for the experiments in the course.</p> <p>CO3: Follow instructions to perform laboratory experiments in Optics, Thermodynamics, Mechanics, Modern Physics, Electronics and Electromagnetics.</p> <p>CO4: Document their results, using correct procedures and protocols.</p> <p>CO5: Perform a quantitative analysis of experimental data including the use of computational and statistical methods where relevant.</p> <p>CO6: Interpret relationships in graphed data and develop an intuition for alternative plotting methods and communicate results from laboratory experiments, orally or in a written laboratory report.</p> <p>CO7: Calculate permissible standard error in any physics experiment</p> <p>CO8: Derive conclusions from the analysis of own data.</p> <p>CO9: Assess the language used to describe physics experiments and how it can alter perceptions of the method and results</p>
BSc Statistics	S.Y.B.Sc. Optional English -III	AECC-III-A-23321	<ol style="list-style-type: none"> 1. To expose to various forms of English Literature and Literary Components (Prose, Poetry, Essays, Short Stories, etc.) 2. To study Language Components like Vocabulary, Grammar and Communication Skills
BSc Statistics	S.Y.B.Sc. Optional English II	AECC -IV A-24321	<ol style="list-style-type: none"> 1. To expose to various forms of English Literature and Literary Components (Prose, Poetry, Essays, Short Stories, etc.) 2. To study Language Components like Vocabulary, Grammar and Communication Skills
BSc Zoology	ANIMAL DIVERSITY	ZO111	<ol style="list-style-type: none"> 1. Understanding the natural world: Studying animal diversity can help us understand the intricate relationships between different species and their environments. By learning about the different adaptations and behaviors of animals, we can gain a greater appreciation for the complexity and beauty of the natural world. 2. Advancing scientific knowledge: Studying animal diversity can help us make important scientific discoveries about evolution, genetics, and ecology. By understanding the differences
BSc Zoology	ANIMAL ECOLOGY	ZO112	<ol style="list-style-type: none"> 1. Conservation biology: Understanding the ecology of animals can help identify key habitats and resources that are important for their survival. By studying the distribution, abundance, and behavior of animals, we can develop conservation plans and management strategies to protect them and their habitats. 2. Understanding ecosystem dynamics: Animals play important roles in the functioning of ecosystems, and understanding their ecology can help us understand the ecological processes that underpin ecosystem dynamics. By studying how animals interact with other species and
BSc Zoology	ZOOLOGY PRACTICAL	ZO113	<ol style="list-style-type: none"> 1. The student can get in depth knowledge of microscopy 2. The students gets knowledge of animal culture 3. Use of stain and staining method

BSc Zoology	Animal Diversity-II	ZO121	<p>1. Education: Invertebrates are fascinating and often overlooked animals, and studying them can be a great way to engage students in science education. They are also important indicators of ecosystem health, and by studying them, students can gain a better understanding of the importance of biodiversity and conservation.</p> <p>2. Understanding biodiversity: Invertebrates make up the vast majority of animal species on Earth and studying them helps us to understand the incredible diversity of life. They come in all shapes, sizes, and colors and have a range of unique adaptations and behaviors that allow them to survive and thrive in different environments.</p> <p>3. Ecological roles: Invertebrates play important roles in ecosystems, such as pollination,</p>
BSc Zoology	CELL BIOLOGY	ZO122	<p>1. Education: The study of cell biology is essential in science education at all levels. By teaching students about the structure and function of cells, educators can help students gain a better understanding of the fundamental building blocks of life</p> <p>2. Biotechnology: Cell biology plays a crucial role in biotechnology, which involves using biological systems to develop new technologies and products. For example, the production of enzymes and antibiotics using genetically engineered cells relies on the understanding of cell biology.</p> <p>3. Overall, the study of cell biology has many uses and applications, including medical research, genetic engineering, biotechnology, agriculture, and education. The knowledge gained from the study of cell biology is essential for understanding how cells function and how they can be used</p>
BSc Zoology	ZOOLOGY PRACTICAL PAPER	ZO123	<p>1. Practical study of cell biology and animal diversity can help students gain hands-on experience and a deeper understanding of these fundamental biological processes. This can help prepare students for careers in research, biotechnology, and other related fields.</p> <p>2. Overall, the practical study of cell biology and animal diversity has many uses and applications, including medical research, biotechnology, conservation, sustainable agriculture, and education. It can help to develop new treatments, improve the production of biologics, and develop strategies for the conservation and management of animal populations, among other things.</p>
BSc Zoology	Animal diversity-III	ZO-231	<p>1. The study of vertebrate biology and diversity is an important part of science education at all levels. By learning about the structure, function, and diversity of vertebrates, students can gain a better understanding of the biological processes that underpin life on Earth.</p> <p>2. The study of vertebrate biology and diversity has many uses and applications, from medical research and conservation to ecology, evolutionary biology, and education. It is an important field of study that can help us better understand the natural world and our place in it</p>
BSc Zoology	APPLIED ZOOLOGY	ZO232	<p>1. Applied biology is a critical field of study with many important applications in fields such as fishery, apiculture, and sericulture. It can help us better understand the natural world and develop strategies for sustainable management of natural resources, conservation of biodiversity, and improvement of agricultural production.</p> <p>2. Apiculture: The study of applied biology is important for the sustainable management of bee populations, which are essential for pollination of many crops. By understanding the biology and</p>

BSc Zoology	ZOOLOGY PRACTICAL PAPER-	ZO233	<p>1.The practical study of vertebrate biology and applied biology has many important uses and applications, from medical research and agriculture to conservation, animal welfare, and education. It is a critical field of study that can help us better understand the natural world and develop strategies for sustainable management of natural resources, conservation of biodiversity, and improvement of human and animal welfare.</p> <p>2.Vertebates are commonly used as animal models for medical research. The practical study of</p>
BSc Zoology	ANIMAL DIVERSITY -IV	ZO241	<p>1.The study of mammals, aves, and reptiles is important for science education and public outreach. By engaging students and the general public in hands-on experiences with different species, can inspire interest in science and raise awareness about important environmental and conservation issues.</p> <p>2.The study of mammals, aves, and reptiles is important for the development of sustainable agriculture and food production systems. By understanding the biology and behavior of different</p>
BSc Zoology	APPLIED ZOOLOGY -II	ZO242	<p>1. The study of applied biology is also important for the sustainable management of silk production. By studying the biology and ecology of silk moths and their natural enemies, can develop strategies for maintaining healthy populations, reducing the impact of diseases and parasites, and optimizing silk production.</p> <p>2. By studying the biology and ecology of crops and their pests, can develop strategies for</p>
MA Hindi	मध्ययुगीन काव्य	-10501	<ul style="list-style-type: none"> <input type="checkbox"/> हिंदी की मध्ययुगीन काव्य प्रवृत्तियों का परिचय देना । <input type="checkbox"/> मध्ययुगीन काव्य प्रवृत्तियों की पृष्ठभूमि पर कवि विशेष की रचनाओं का परिचय कराना । <input type="checkbox"/> तत्कालीन काव्यभाषा की प्रवृत्तियों का परिचय देना । <input type="checkbox"/> पाठ्यकृतियों के आधार पर काव्य मूल्यांकन की क्षमता का विकास करना । <input type="checkbox"/> सर्जनात्मक कौशल विकसित करना ।
MA Hindi	कथा साहित्य	-10502	<ul style="list-style-type: none"> <input type="checkbox"/> उपन्यास विधा से अवगत कराना । <input type="checkbox"/> कहानी विधा से अवगत कराना । <input type="checkbox"/> पाठ्य रचनाओं में अभिव्यक्त मूल्यों का सम्प्रेषण करना । <input type="checkbox"/> आलोचनात्मक दृष्टि का विकास करना । <input type="checkbox"/> सर्जनात्मक कौशल का विकास करना ।
MA Hindi	भारतीय काव्यशास्त्र	-10503	<ul style="list-style-type: none"> <input type="checkbox"/> भारतीय काव्यशास्त्र के विकासक्रम का परिचय देना । <input type="checkbox"/> भारतीय काव्यशास्त्र के प्रमुख सम्प्रदायों से अवगत कराना । <input type="checkbox"/> रचना वैशिष्ट्य और मूल्यबोध को परखने की क्षमता को विकसित करना । <input type="checkbox"/> आलोचनात्मक दृष्टि को विकसित करना ।
MA Hindi	नाटककार मोहन राकेश	-10505	<ul style="list-style-type: none"> <input type="checkbox"/> नाटक के स्वरूप एवं संरचना से परिचय कराना । <input type="checkbox"/> नाटक के रचनाविधान और रंगमंच से परिचय कराना । <input type="checkbox"/> हिंदी नाटक और रंगमंच के विकास का परिचय देना । <input type="checkbox"/> मोहन राकेश के नाटकों के द्वारा नाट्यास्वादन और मूल्यांकन की दृष्टि विकसित करना । <input type="checkbox"/> नाट्य अभिनय कौशल को विकसित करना ।

MA Hindi	कथेतर गद्य साहित्य	-20501	<input type="checkbox"/> व्यंग्य, निबंध, रेखाचित्र और संस्मरण विधा से अवगत कराना। <input type="checkbox"/> पाठ्य विधाओं का भाषिक अध्ययन करवाना। <input type="checkbox"/> मौलिक लेखन कौशल विकसित करना।
MA Hindi	शोध प्रविधि	-20502	<input type="checkbox"/> छात्रों को शोध प्रविधि से अवगत कराना। <input type="checkbox"/> शोध दृष्टि का विकास करना। <input type="checkbox"/> नये शोध-प्रवाहों से परिचय कराना। <input type="checkbox"/> शोध प्रक्रिया एवं शोधप्रबंध लेखन कौशल विकसित करना।
MA Hindi	पाश्चात्य काव्यशास्त्र	-20503	<input type="checkbox"/> पाश्चात्य काव्यशास्त्र के विकासक्रम का परिचय देना। <input type="checkbox"/> पाश्चात्य चिंतकों के चिंतन, सिद्धांत और प्रमुख आंदोलनों से अवगत कराना। <input type="checkbox"/> छात्रों को सृजन, आस्वादन एवं आलोचना दृष्टि देना।
MA Hindi	हिंदी उपन्यास साहित्य	-20505	<input type="checkbox"/> हिंदी उपन्यास साहित्य के विकासक्रम एवं प्रवृत्तियों से परिचित कराना। <input type="checkbox"/> उपन्यासों के अस्वादन, अध्ययन की क्षमता विकसित करना। <input type="checkbox"/> पाठ्य रचनाओं में प्रस्तुत साहित्यिक मूल्यों का सम्प्रेषण करना। <input type="checkbox"/> मूल्यांकन की दृष्टि का विकास करना।
MA Hindi	आधुनिक काव्य (आदर्शवादी, छायावादी तथा अन्य काव्य)	-30501	<input type="checkbox"/> छात्रों को आधुनिक काव्य से अवगत कराना। <input type="checkbox"/> छात्रों में आधुनिक काव्य-अध्ययन की दृष्टि विकसित करना। <input type="checkbox"/> काव्य मूल्यांकन-दृष्टि विकसित करना। <input type="checkbox"/> काव्य-संवेदना एवं शिल्पगत अध्ययन से छात्रों को अवगत कराना। <input type="checkbox"/> छात्रों में काव्य-सर्जन कला का विकास करना।
MA Hindi	भाषाविज्ञान	-30502	<input type="checkbox"/> भाषाविज्ञान के स्वरूप का परिचय देना। <input type="checkbox"/> छात्रों को भाषाविज्ञान की व्याप्ति समझाना। <input type="checkbox"/> भाषाविज्ञान के अध्ययन की दिशाओं का परिचय देना। <input type="checkbox"/> भाषाविज्ञान के अनुप्रयोगात्मक पक्ष को समझाना। <input type="checkbox"/> साहित्य-अध्ययन में भाषाविज्ञान की उपयोगिता समझाना।
MA Hindi	हिंदी साहित्य का इतिहास (आदिकाल, भक्तिकाल, रीतिकाल)	-30503	<input type="checkbox"/> हिंदी साहित्य के इतिहास लेखन का परिचय देना। <input type="checkbox"/> हिंदी साहित्य के इतिहास के काल विभाजन तथा नामकरण का परिचय देना। <input type="checkbox"/> आदिकालीन, भक्तिकालीन, रीतिकालीन प्रमुख साहित्यिक प्रवृत्तियों, रचनाकारों और रचनाओं से परिचित कराना।
MA Hindi	संचार माध्यम	-30505	<input type="checkbox"/> संचार माध्यम और संप्रेषण अवधारणाओं का परिचय देना। <input type="checkbox"/> संचार माध्यम की अवधारणा और स्वरूप का परिचय देना। <input type="checkbox"/> संचार माध्यम की बहु आयामी भूमिका का परिचय देना। <input type="checkbox"/> संचार माध्यम कौशल विकसित करना।
MSc Chemistry	Physical Chemistry-I (Fundamentals of Physical Chemistry)	CCTP-1 CHP-110	1. Understand the concept Entropy and entropy change in an ideal gas with temperature and pressure. 2. To understand Clausius inequality, chemical potential, chemical potential 3. To know black body radiation, photoelectric effect, de Broglie hypothesis and uncertainty

MSc Chemistry	Inorganic Chemistry-I(Molecular Symmetry and chemistry of main group element)	CCTP-2 CHI-130	<ol style="list-style-type: none"> 1. Student should visualize/ imagine molecules in 3 dimensions. 2. To understand the concept of symmetry and able to pass various symmetry elements through the molecule. 3. Understand the concept and point group and apply it to molecules. 4. Student should understand the detail chemistry of S and P block elements w.r.t. their compounds, their reactions and applications. 5. To learn the advanced chemistry of boranes, fullerene, zeolites, polymers etc. 6. Organometallic chemistry of some important elements from the main groups and their applications.
MSc Chemistry	Organic Chemistry -I(Basic Organic Chemistry)	CCTP-3 CHO-150	<ol style="list-style-type: none"> 1. They will understand the criteria for aromaticity in nonbenzenoid molecules and other advanced polycyclic aromatics 2. Understand the chemistry of monocyclic heterocycles, nomenclature and reactions 3. Learn the concept stereochemistry and its importance; their rules and the concept of chirality. 4. Students should be able to use ¹³C-NMR data to interpret the structure NMR problems and should also be able to draw the ¹H-NMR spectrum for simple organic compounds mentioning multiplicity pattern and coupling constant with the help of "Tree Diagram" Should be able to predict and analyze the multiplicity patterns with more than one coupling constants.
MSc Chemistry	Basic Practical Chemistry-I	CCPP-I CHP_107	<ol style="list-style-type: none"> 1. Students are trained to different purification techniques in organic chemistry like recrystallization, distillation, steam distillation and extraction. 2. Students are made aware of safety techniques and handling of chemicals. 3. Students are made aware of carrying out different types of reactions and their workup methods. 4. This practical course is designed to make student aware of green chemistry and role of green chemistry in pollution reduction.
MSc Chemistry	Physical Chemistry-II(Molecular Spectroscopy and nuclear chemistry)	CCTP-4(CHP-210)	<ol style="list-style-type: none"> 1. To study types of radioactive decay, general characteristics of radioactive decay, decay kinetics. 2. To understand typical reaction involved in the preparation of radioisotopes, The Szilard-Chalmers reaction, Radiochemical principles in the use of tracers, Isotopes in elucidating reaction
MSc Chemistry	Inorganic Chemistry -II(Coordination and bio-_inorganic chemistry)	CCTP-5 (CHI-230)	<ol style="list-style-type: none"> 1. Student should be able to find out the no of microstates and meaningful term symbols, construction of microstate table for various configuration 2. Hund's rules for arranging the terms according to energy. 3. Student should understand interelectronic repulsion. 4. Student should know the concept of weak and strong ligand field. 5. Student able to find out splitting of the free ion terms in weak ligand field and strong ligand field.

MSc Chemistry	Organic Chemistry-II(Photochemistry ,Pericyclic and organic spectroscopy)	CCTP-6(CHO-250)	<ol style="list-style-type: none"> 1. MOT and will be able to extend this in predicting reaction mechanism and stereochemistry of electrocyclic reactions. 2. The concepts in free radical reactions, mechanism and the stereo chemical outcomes. 3. The basic principle of spectroscopic methods and their applications in structure elucidation of organic compounds using given spectroscopic data or spectra.
MSc Chemistry	Basic Practical Chemistry-II	CCPP-2 (CHP-227)	<ol style="list-style-type: none"> 1. Students are trained to different purification techniques in organic chemistry like recrystallization, distillation, steam distillation and extraction. 2. Students are made aware of safety techniques and handling of chemicals. 3. This course is designed to make students aware of how to perform organic compounds in laboratory. 4. The course includes synthesis of some derivatives and organic compounds, which will help them while working in research laboratory in future.
MSc Chemistry	Electrochemical and thermogravimetric methods	CHA-390	<ol style="list-style-type: none"> 1. Define various terms in electrochemistry and thermogravimetry. 2. Explain instrumentation in electrochemistry and thermogravimetry. 3. Describe basic principles of electrochemistry and thermogravimetry.
MSc Chemistry	Analytical Method Development and Extraction Techniques	CCTP-8, CHA-391	<ol style="list-style-type: none"> 1. Define / understand various terms in analytical extraction and method development and validation. 2. Explain instrumentations and methodology in analytical extraction. 3. Explain / describe basic principles of analytical extraction method development and validation.
MSc Chemistry	Advanced Chromatographic Methods of Analysis	CCTP-9, CHA-392	<ol style="list-style-type: none"> 1. Define / understand various terms in chromatography (GC and HPLC) and mass spectroscopy. 2. Explain instrumentations in chromatography (GC and HPLC) and mass spectroscopy. 3. Explain / describe i) basic principles of chromatography (GC and HPLC) and mass
MSc Chemistry	Analysis of Food and Controlled Substances	CBOP-3, CHA-393	<ol style="list-style-type: none"> 1. Define / understand various terms in food analysis techniques and methods, forensic science and drug substances. 2. Explain methods and principles of analysis of i) Food - carbohydrates, proteins, preservatives, ii) drug substances. 3. Select appropriate methods of food analysis for its quality.
MSc Chemistry	Basics of Instrumental Methods of Chemical Analysis	CCPP-394	<ol style="list-style-type: none"> 1 Maintain proper record of analytical data in notebook. Observe personal safety in laboratory and able handle all chemicals, instruments, etc safely in laboratory. 2. Define / understand various terms involved practical methods of quantitative analysis. 3. Explain instrumentations of colorimeter, spectrophotometer, photofluorometer, TGA, HPLC, GC, Flame-photometer, CV, AAS, etc. 4. Explain / describe basic principles of chromatography different instrumental methods of analysis. Able to handle particular instrument according to SOP.

MSc Chemistry	Advanced Analytical Spectroscopic Techniques	CCTP- 10, CHA-490	<ol style="list-style-type: none"> 1. Define / understand various terms in atomic absorption, atomic emission, fluorescence, ESR and electron spectroscopy. 2. Explain instrumentation of atomic absorption, atomic emission, ICPAES, ICPAES-MS, fluorescence, ESR and electron spectroscopy. 3. To describe basic principles of atomic absorption, atomic emission, ICPAES, ICPAESMS, fluorescence, ESR and electron spectroscopy. 4. Select appropriate methods for sample treatment in AAS / AES, ICPAES, ICPAES-MS
MSc Chemistry	Chemical Methods of Pharmaceuticals Analysis	CCTP-11, CHA-491	<ol style="list-style-type: none"> 1. Define / understand various terms in pharmaceutical raw material and finished product analysis. 2. Explain various pharmaceutical dosage forms and types of raw materials used. 3. To describe basic principles of methods of pharmaceutical analysis according to IP.
MSc Chemistry	Analytical Chemistry of agriculture, Polymer and Detergents	CBOP-4, CHA-492	<ol style="list-style-type: none"> 1. Define / understand various terms in soil analysis, pesticide residue analysis, detergent analysis and polymer analysis. 2. Explain / describe techniques / methods of soil analysis, pesticide residue analysis, detergent analysis and polymer analysis. 3. To describe basic principles techniques / methods soil analysis, pesticide residue analysis, detergent analysis and polymer analysis.
MSc Chemistry	Basics of Instrumental Methods of Chemical Analysis	CCPP-494	<ol style="list-style-type: none"> 1. Maintain proper record of analytical data in notebook. Observe personal safety in laboratory and able handle all chemicals, instruments, etc safely in laboratory. 2. Define / understand various terms involved practical methods of quantitative analysis. 3. Explain instrumentations of colorimeter, spectrophotometer, photoflurometer, TGA, HPLC, GC, Flame-photometer, CV, AAS, etc. 4. Explain / describe basic principles of chromatography different instrumental methods of analysis. Able to handle particular instrument according to SOP.
MSc Chemistry	Cyber Security	EC-1	<ol style="list-style-type: none"> 1. Stay up to date with the latest cyber security news and trends and make sure you are implementing adequate cyber security measures in your organization using suitable hardware and software. 2. Avoid the risks of phishing attacks by adhering to ethical security behavior. 3. Understanding cloud computing and how it can help your business is vital for the success of
MSc Chemistry	Introduction to indian constitution	EC-2	<ol style="list-style-type: none"> 1. Understand the meaning and importance of Constitution. 2. Explain about making of Indian Constitution - contribution of Constituent assembly on it. 3. Describe the Salient (Outstanding) features of Indian Constitution. 4. Describe the importance of Preamble of the Indian Constitution and its significance.

MSc Chemistry	Skill Development	EC-3	<p>1.learning to keep going when things don't go according to plan, coping with the unfamiliar, managing disappointment and dealing with conflict.</p> <p>2.Teamwork – learning to connect and work with others to achieve a set task.</p> <p>3.Leadership – assessing the requirements of a task, identifying the strengths within the team, utilising the diverse skills of the group to achieve the set objective, awareness of safety.</p> <p>4.Communication – demonstrating clear briefing and listening skills, not being afraid to ask for help and support when necessary.</p>
MSc Physics	Classical Mechanics	PHCT 112	<p>CO1: Solve advanced problems involving the dynamic motion of classical mechanical systems with an intermediate knowledge of Newton's laws of motion</p> <p>CO2: Apply the concept of center of mass and mechanics of system of particles and conservation of energy, linear and angular momentum to solve dynamics problems.</p> <p>CO3: Demonstrate an intermediate knowledge of central-force motion and the concept of converting two body problems to single body problem and apply advanced methods to complex central-force motion problems.</p> <p>CO4: Demonstrate an intermediate knowledge of concept of laboratory frame and center of mass frame and their use to calculate results of scattering experiments.</p> <p>CO5: Apply the concept scattering to get important information regarding the nature of interaction between atomic and subatomic particles through experiments.</p> <p>CO6: Derive Lagrange and Hamilton's equations, and represent the equations of motion for simple mechanical systems such as: the Atwood's machine, Simple pendulum using these formulations of classical mechanics.</p> <p>CO7: Acquire working knowledge of the methods of Hamiltonian Dynamics and compute the Hamilton equations of motion for mechanical systems.</p> <p>CO8: Use calculus of variations to find the Euler-Lagrange equations and canonical transformations to find the constants of motion according to the Hamilton Jacobi theory.</p>
MSc Physics	Laboratory Electronics	PHCP 115	<p>CO1: Describe the underlying theory of experiments in the course.</p> <p>CO3: Follow instructions to perform laboratory experiments in Electronics.</p> <p>CO4: Performing the Experiment by collecting theory related to the practical their results, using correct procedures and protocols.</p> <p>CO5: Calculate permissible standard error. Study of errors in electrical measurement.</p> <p>CO6: Derive conclusions from the Experimental results and make analysis of it.</p> <p>CO7: Study of power amplifier.</p>

MSc Physics	Electrodynamics	PHCT 121	<p>CO1: Define the Biot-savart law, Amperes law, Coulombs law, Electric field, Electric susceptibility, Magnetic field & Faradays law.</p> <p>CO2: Explain method of electrical images, equation of continuity, Magnetic vector potential, B.H curve, Maxwell's equation & wave equations.</p> <p>CO3: Solve numerical problem on coulombs force, magnetic induction, magnetic permeability and induced voltage, magnitude of electric & magnetic vectors.</p> <p>CO4: Determine work done by charges, total charge, force on the wire in different symmetry.</p> <p>CO5: Summarize pointing vector, polarization, reflection & refraction.</p> <p>CO6: Apply Biot-Savart law in different symmetry problem.</p> <p>CO7: List the applications of Amperes law, Biot-Savart law, Poynting theorem.</p> <p>CO8: Elaborate magnetic properties of the material.</p>
MSc Physics	Physics Laboratory 2	PHCP 125	<p>CO1: To study the electron spin resonance and to determine Lande's g factor.</p> <p>CO2: Perform the Frank-hertz experiment to study discrete energy level by using frank hertz experiment.</p> <p>CO3: To perform Millikan oil drop experiment. To measure the rise and fall times of the oil droplets at different voltages having different charges.</p> <p>CO4: To study determine wavelength of Michelson's interferometer experiment.</p> <p>CO5: To study of counting statistics by using GM counter.</p> <p>CO6: To study of temperature variation and band gap of Ge semiconductor by using four probe methods.</p> <p>CO7: To perform understand of Stefan's constant by using black body radiation</p> <p>CO8: To study absorption spectra of iodine molecules and determine its dissociation energy</p>
MSc Physics	Nuclear physics	PHCT 241	<p>CO1: Define threshold voltage, dead time and recovery time in GM counter, threshold energy, nuclear fission, nuclear fusion, critical size, critical mass.</p> <p>CO2: Determine the basic properties of nucleus.</p> <p>CO3: Classify nuclear radiations, elementary particles and nuclear states, nuclear detectors.</p> <p>CO4: Compose baryons and mesons with Quark model.</p> <p>CO5: Derive expression for energy of ions and frequency of RF signal in cyclotron, Q- value equation, threshold energy, and decay constant.</p> <p>CO6: Estimate binding energy from fission</p> <p>CO7: Justify nuclear reactions using conservation laws</p> <p>CO8: Explain the different processes by which energetic particles interact with matter, kinematics of various reactors and decay processes.</p>

MSc Physics	Energy Studies 1	PHOT 234H2	<p>CO1. Students become capable of conducting energy audits and give consultancy in that field.</p> <p>CO 2. Students can design different types of solar heaters for small domestic as well as large scale community level applications.</p> <p>CO 3. Students acquire skills to implement solar P-V systems at domestic levels as well as for office premises and educational institutions. Students become able to start their own enterprise in net metering.</p> <p>CO 4. Students get ideas and hence become self-employed in the field of design , production, commissioning and implementation of bio-mass energy sources , bio-gas plants, gasifiers, wind mills, hybrid systems etc.</p> <p>CO 5. Students can go for research in the fields of super-capacitors, battery technologies, fuel cells and material synthesis for implementation of these technologies.</p> <p>CO 6. Students become successful entrepreneurs in the energy field. Students strive to make the regions where they live and work self-sufficient in generating and fulfilling their own energy</p>
MSc Physics	Physics Laboratory 3	PHCP 235	<p>CO1: Describe the underlying theory of experiments in the course.</p> <p>CO2: Perform derivations of theoretical models of relevance for the experiments in the course.</p> <p>CO3: Document their results, using correct procedures and protocols.</p> <p>CO4: Perform a quantitative analysis of experimental data including the use of computational and statistical methods where relevant.</p> <p>CO5: Interpret relationships in graphed data and develop an intuition for alternative plotting methods and communicate results from laboratory experiments, orally or in a written laboratory report.</p> <p>CO6: write a project report with literature review.</p> <p>CO7: defend the outcome of project work in scientific</p>
MSc Physics	Introduction to Human Rights	-	<p>CO1: To understand the meaning and concept of vulnerable and this advantage.</p> <p>CO2: To understand the socioeconomic and cultural problems of vulnerable and dis advantage group.</p> <p>CO3: TO understand social status of human and children in national and international level.</p> <p>CO4: To understand human rights of vulnerable group such as stateless persons,</p>
MSc Physics	Cyber security 2	-	<p>CO1: Overview of cyber security.</p> <p>CO2: Overview of security threads and vulnerabilities</p> <p>CO3: To study Cryptography / Encryption /</p> <p>CO4: To Study security managements.</p> <p>CO5: To study server management and firewalls.</p>

**Maratha Vidya Prasarak Samaj's
Arts, Science & Commerce College, Ozar (Mig)**

Department of B.Voc. Electrical Technology

1) Program Outcomes (POs):

B.Voc. Graduates will be able to:

1. Understand the **impact of the electrical engineering solutions** in **societal and environmental contexts**.
2. **Create, select, and apply** appropriate techniques, resources, and modern electrical **engineering tools** including prediction and modelling to complex electrical engineering activities with an understanding of the constraints.
3. Apply the **knowledge** of mathematics, science and electrical engineering fundamentals for solving engineering problems.
4. **Apply ethical principles** and commit to professional ethics, responsibilities and norms of the electrical engineering practice.
5. **Communicate effectively** on electrical engineering activities with the engineering community and with society at large.
6. Recognize the need for, and have the preparation and ability to **engage in independent and life-long learning** in the broadest context of technological change.

2) Program Specific Outcomes (PSOs):

At the end of this program, B. Voc. Electrical Technology graduate will be able to:

- 1.** Apply knowledge of mathematics, science and electrical engineering fundamentals to solve problems in Electrical household, commercials and industrials energy and power sector.
- 2.** To train the students in professional electrical works like as well as to train them handling maintenance works & troubleshoot.
- 3.** To train and equipped with knowledge and understanding to start their own enterprise

3) Course Outcomes

Year	Course Name	Course Outcome No.	Course Outcome
FY (Sem-I)	Communication Skills	BVET11.1	Demonstrate critical and innovative thinking.
		BVET11.2	Display competence in oral, written, and visual communication.
		BVET11.3	Demonstrate positive group communication exchanges.
		BVET11.4	Understand the role of communication in personal & professional success and communicate ethically.

Year	Course Name	Course Outcome No.	Course Outcome
FY (Sem-I)	Basic Electrical Engineering-I	BVET12.1	Impart a basic knowledge of electrical quantities such as current, voltage, power, energy and frequency to understand the impact of technology in a global and societal context.
		BVET12.6	Obtain solution for electrical network analytically
		BVET12.7	Demonstrate the awareness on social issues like conservation of electrical energy, electrical safety.

Year	Course Name	Course Outcome No.	Course Outcome
FY (Sem-I)	Basic Electrical Engineering-II	BVET13.1	Understand and demonstrate the fundamental of electromagnetism.
		BVET13.2	Differentiate between electric and magnetic circuits.
		BVET13.3	Apply concept of electromagnetism for the working of transformer.
		BVET13.4	Explain Three Phase delta and star connection

Year	Course Name	Course Outcome No.	Course Outcome
FY (Sem-II)	Applied Mathematics	BVET21.1	Evaluate higher order linear differential equations using appropriate techniques for modelling and analysing electrical circuits.
		BVET21.2	Solve problems related to trigonometric functions and limits.
		BVET21.3	Perform vector differentiation and integration.
		BVET21.4	Identify logic gates and application to switching circuit.

Year	Course Name	Course Outcome No.	Course Outcome
FY (Sem-II)	Electrical Appliances-I	BVET22.1	Acquire necessary skills/hand on experience/ working knowledge on multimeters, galvanometers, ammeters, voltmeters.
		BVET22.2	Understand key elements of electrical and electronics appliances.
		BVET22.3	Repair maintenance of the basic electrical and electronics appliances.
		BVET22.4	Understand the working principles of different household domestic appliances.

Year	Course Name	Course Outcome No.	Course Outcome
FY (Sem-II)	Electrical Machines I	BVET23.1	To study the working principle of transformer
		BVET23.2	Discussion of single phase transformer
		BVET23.3	Detailed construction of D.C. machine
		BVET23.4	Study of starter and speed control of DC machine

		BVET23.5	Explain the Rotating Magnetic Field in AC machines
		BVET23.6	Distinguish between Starters for slip-ring and cage rotor induction motors

Year	Course Name	Course Outcome No.	Course Outcome
SY (Sem-I)	Computer Technology	BVET31.1	Understand the fundamental hardware components that make up a computer's hardware and the role of each of these components
		BVET31.2	Understand the difference between an operating system and an application program, and what each is used for in a computer.
		BVET31.3	Demonstrated a basic understanding of computer hardware and software.
		BVET31.4	Demonstrate computer architecture concepts related to design of modern processors, memories and I/Os

Year	Course Name	Course Outcome No.	Course Outcome
SY (Sem-I)	Electrical Appliances-II	BVET32.1	Acquire necessary skills/hand on experience/working knowledge on motors, single phase and three phase connections, basics of electrical wiring with electrical protection devices.
		BVET32.2	Check the electrical connections at house-hold but will also learn the skill to repair the electrical appliances for the general troubleshoots and wiring faults.
		BVET32.3	Understand domestic wiring and layout

Year	Course Name	Course Outcome No.	Course Outcome
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SY (Sem-I)	Electrical Machines II	BVET33.1	Explain construction & working principle of three phase synchronous machines
		BVET33.2	Demonstrate operation of synchronous motor at constant load and variable excitation (v curves & ^curves) & constant excitation and variable load.
		BVET33.3	Explain Speed control methods of three phase induction motor.
		BVET33.4	Discussion of three phase transformer
		BVET33.5	Develop equivalent circuit of single phase induction motor by performing no load & blocked rotor test.

Year	Course Name	Course Outcome No.	Course Outcome
SY (Sem-II)	Environment Awareness	BVET40.1	Articulate the interconnected and interdisciplinary nature of environmental studies.
		BVET40.2	Demonstrate an integrative approach to environmental issues with a focus on sustainability.
		BVET40.3	Use critical thinking, problem-solving, and the methodological approaches of the social sciences, natural sciences, and humanities in environmental problem solving;
		BVET40.4	Communicate complex environmental information to both technical and non-technical audiences
		BVET40.5	Understand and evaluate the global scale of environmental problems
		BVET40.6	Reflect critically on their roles, responsibilities, and identities as citizens, consumers and environmental actors in a complex, interconnected world.

Year	Course Name	Course Outcome No.	Course Outcome
SY (Sem-II)	Entrepreneurship and Employable Skill	BVET41.1	Appreciate the concept of Entrepreneurship.
		BVET41.2	Identify entrepreneurship opportunity.
		BVET41.3	Develop entrepreneurial values and attitude.
		BVET41.4	Collect and use the information to prepare project report for business venture.
		BVET41.5	Develop awareness about enterprise management

Year	Course Name	Course Outcome No.	Course Outcome
SY (Sem-II)	Basic Electronics	BVET42.1	Develop characteristics of different power electronics switching devices.
		BVET42.2	Express the design and control of rectifier and filters.
		BVET42.3	Explain working principle of power electronics Semiconductor diodes.
		BVET42.4	Analyse switching technologies implemented in recent technologies.

Year	Course Name	Course Outcome No.	Course Outcome
SY (Sem-II)	Electrical Measurements and Instrumentation	BVET43.1	Examine various characteristics of measuring instruments, their classification and range extension technique.
		BVET43.2	Classifies resistance, apply measurement techniques for measurement of resistance, inductance.
		BVET43.3	Explain construction, working principle and use of dynamometer type wattmeter for measurement of power under balance and

			unbalance condition.
		BVET43.4	Explain Construction, working principle of 1-phase and 3-phase induction, static energy meter and calibration procedures.
		BVET43.5	Use of CRO for measurement of various electrical parameters, importance of transducers, their classification, selection criterion and various applications.
		BVET43.6	Measurement of various physical parameters using transducers

Year	Course Name	Course Outcome No.	Course Outcome
TY (Sem-I)	Testing and Maintenance of Electrical Equipment	BVET51.1	Classify distribution systems, its types and substations
		BVET51.2	Design of different earthing systems for residential and industrial premises
		BVET51.3	Understand the practical aspects of condition monitoring and testing of various Electrical Equipment's
		BVET51.4	Explain the different types of maintenance of Electrical Machines.
		BVET51.5	Estimating and Costing of residential and industrial premises.
		BVET51.6	Explain the Importance of Electrical safety.

Year	Course Name	Course Outcome No.	Course Outcome
TY (Sem-I)	Power System & Switchgear Protection	BVET52.1	Describe arc interruption methods in circuit breaker.
		BVET52.2	Describe Construction, and working of different high Voltage circuit breakers such as ABCB, SF6 CB, and VCB.

		BVET52.3	Classify and Describe different type of relays such as over current relay, Reverse power relay.
		BVET52.4	Demonstrate a protection schemes used for transformer, alternator and busbar.
		BVET52.5	Express transmission line protection schemes.

Year	Course Name	Course Outcome No.	Course Outcome
TY (Sem-I)	Power Electronic Drives	BVET53.1	Analyse the operation of the converter, chopper fed dc drive.
		BVET53.2	Classify the operation of both classical and modern induction motor drives.
		BVET53.3	Design current and speed controllers for different drives.
		BVET53.4	Select the drives for any particular application.
		BVET53.5	Describe different operation of DC motor speed control using converters and choppers.
		BVET53.6	Analyse the operation of Permanent magnet synchronous motor and Brushless DC Motor.

Year	Course Name	Course Outcome No.	Course Outcome
TY (Sem-II)	Illumination Engineering	BVET61.1	Explain lighting fixtures and its applications.
		BVET61.2	Design commercial and residential illumination schemes
		BVET61.3	Describe Quantification and Measurement of light. .
		BVET61.4	Demonstrate the basics of lighting and illumination and its parameters
		BVET61.5	Describe modern trends in illumination,

street lighting and flood lighting.

Year	Course Name	Course Outcome No.	Course Outcome
TY (Sem-II)	Electric & Hybrid Vehicle	BVET62.1	Explain the basics of electric and hybrid electric vehicles, their architecture, technologies and fundamentals.
		BVET62.2	Explain plug – in hybrid electric vehicle architecture, design and component sizing and the power electronics devices used in hybrid electric vehicles.
		BVET62.3	Analyze various electric drives suitable for hybrid electric vehicles.
		BVET62.4	Discuss different energy storage technologies used for hybrid electric vehicles and their control.
		BVET62.5	Demonstrate different configurations of electric vehicles and its components, hybrid vehicle configuration by different techniques, sizing of components and design optimization and energy management

Year	Course Name	Course Outcome No.	Course Outcome
TY (Sem-II)	Special Purpose Machine	BVET63.1	Evaluate the basic operation and performance of special machines and can select special machines for different purpose
		BVET63.2	Acquire knowledge about the constructional details and principle of operation of dc machines.
		BVET63.3	Acquire knowledge about the working of synchronous machines as generators and motors.
		BVET63.4	To learn about characteristics and application of stepper motor.

		BVET63.5	Acquire the knowledge of fundamentals, construction details and classification of linear machines.
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Year	Course Name	Course Outcome No.	Course Outcome
TY (Sem-II)	Project	BVET64.1	Analyze the given problem.
		BVET64.2	Generate alternative solutions to the problem
		BVET64.3	Compare & select feasible solutions amongst alternative generated.
		BVET64.4	Develop and manufacture new/modified equipments.
		BVET64.5	Acquire technical knowledge beyond curriculum